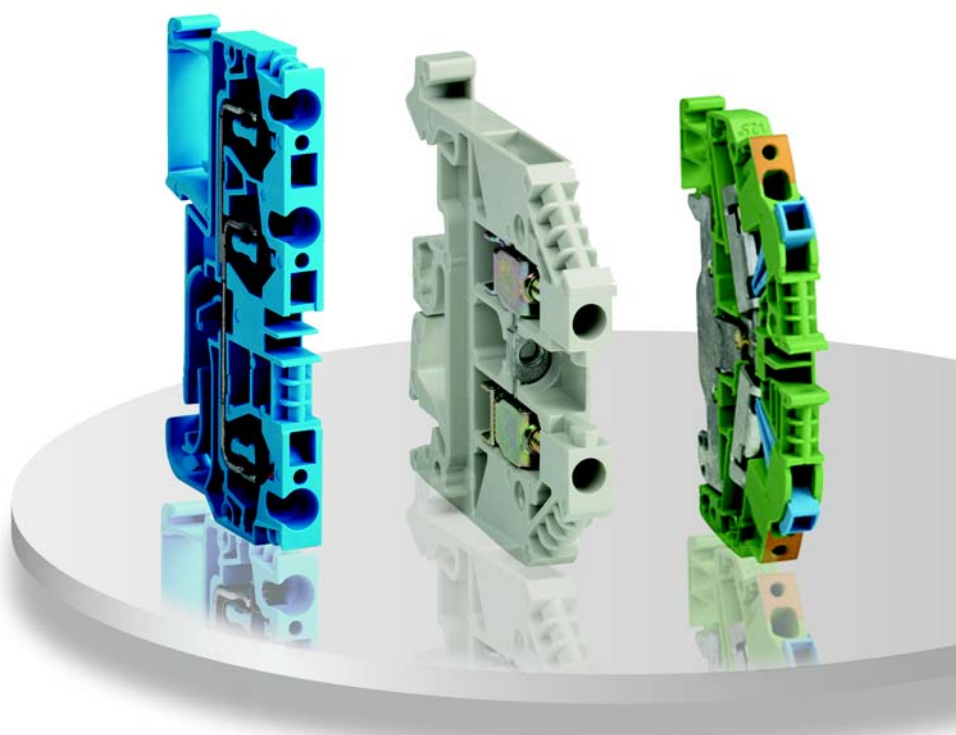


Terminal Blocks

Type AB1

Catalog
9080CT9901R7/07

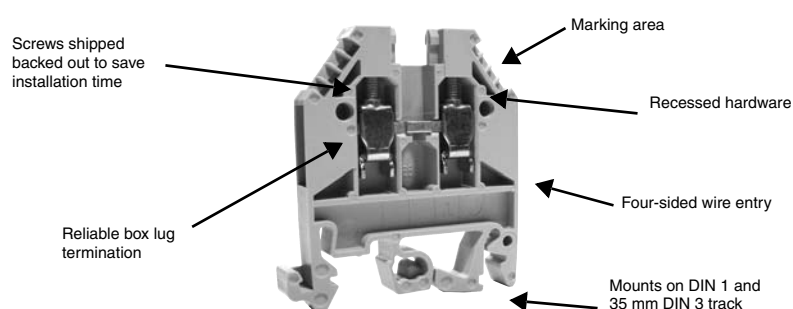
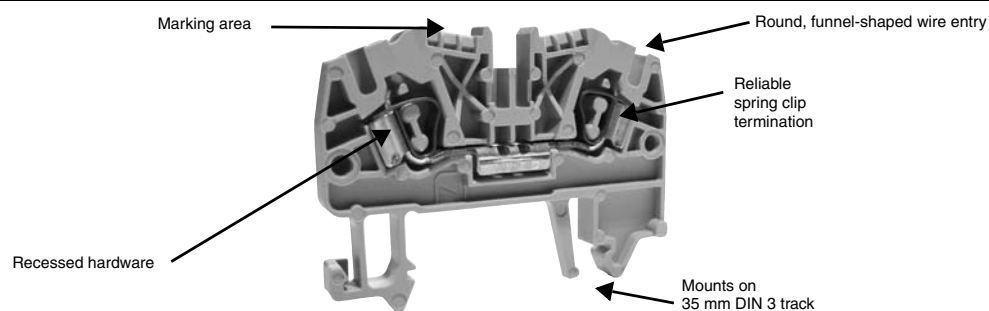
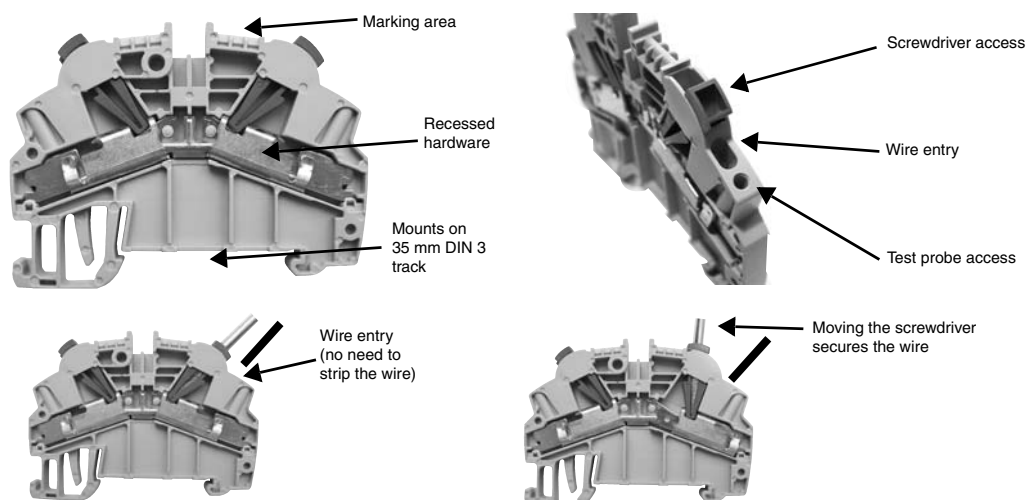
07



1 – General overview	1/1
2 – Spring technology	2/1
3 – Screw clamp technology	3/1
4 – Insulation displacement technology	4/1
5 – Mounting and marking accessories	5/1
6 – Circuit protectors.	6/1
7 – Appendices	7/1

Specifications

Materials	Block Housing	Nylon 6-6
	Clamp	Zinc-plated steel with chromate film
	Bus Bar	Zinc-plated steel
	Screws	Zinc-plated steel with chromate film
Temperature Rating	Ambient Temperature	-40 to 221 °F (-40 to 105 °C)
Flammability Rating	Gray Blocks	UL 94V-0
	All other colors	UL 94V-2
Dielectric Strength		80 kV/mm

Box Lug Termination**Spring Clip Termination****Insulation Displacement Termination**

1 - Terminal Blocks, Type AB1

General Overview

	<i>Page</i>
Product description	1/2
Characteristics and specifications	1/6
Product certifications	1/8

General

All electrical equipment or installations require the connection of cables or wires to ensure the flow of very low to very high currents.

Depending on the application, there are several types of connection:

- Spring terminal
- Screw terminal
- Insulation displacement

New spring technology terminal blocks

Description of new terminal blocks AB1RRN

The new AB1RRN terminal blocks use spring technology, the most cost-effective connection technique on the market. Compared with screw clamp technology, this technique significantly reduces wiring time. It could also eliminate the need for regular retightening.

By virtue of their spring technology, the AB1RRN terminal blocks offer the versatility of accepting:

- Stranded wire
- Stranded wire with cable ends
- Solid wire

The material used (polyamide 6.6) provides better resistance at high temperatures. The flammability rating of these products is V0 according to UL 94.

Advantages of this technology

Spring technology offers the following advantages:

- Resistance to vibration and jolts
- Wide range of wire sizes
- Possibility of distributing the potential with use of jumpers
- Several surfaces available for marking
- Possibility of testing all the terminal blocks
- Numerous certifications (see the tables beginning on page 1/10).

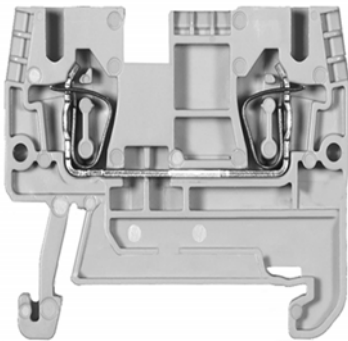
Connection functions

The following products are available, depending on the application:

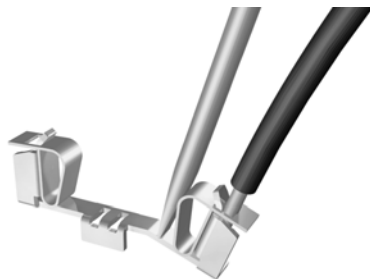
- Passthrough
- Grounding
- Disconnect
- Double deck disconnect
- Plug-in disconnect
- Double deck
- Double deck for grounding
- Double deck with vertical connection

Installation of AB1RRN spring technology terminal blocks

Installation of spring technology terminal blocks is quick and simple. A screwdriver is used to open the connection point so that the conductor can be inserted into the cage. As soon as the screwdriver is pulled out, spring pressure automatically makes the contact.



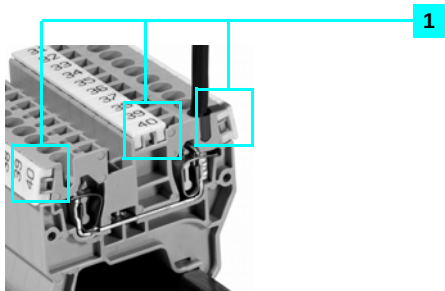
Terminal block type AB1RRN



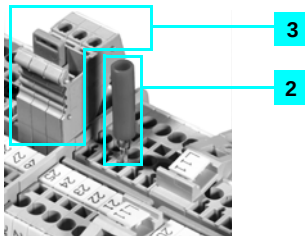
Principle of spring technology



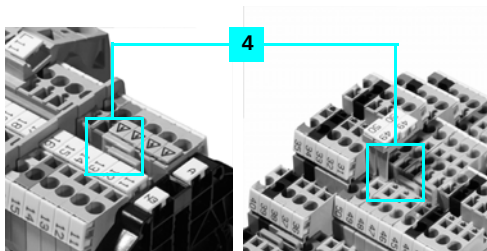
Simplified installation



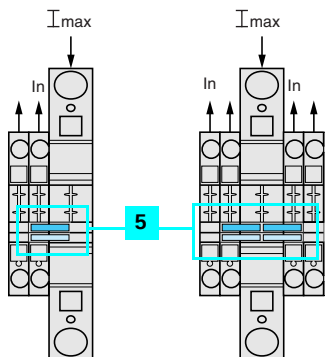
Marking facilities



Testing and adaptation



Interconnection by jumpers



Interconnection by
potential distribution terminal block

New spring technology terminal blocks (continued)

Mounting accessories

The AB1RRN range includes a series of accessories, which allow:

■ quick and easy marking

The availability of clear and legible marking facilities is essential for completing an installation in a minimum amount of time. The AB1RRN range allows easy marking in the center and on the sides of the products **1**.

■ testing and adaptation

Each terminal block in the AB1RRN range can be fitted with a test plug in direct contact with the conductors **2**.

With modular test connectors **3**, on the other hand, test adapters can be assembled individually; they also provide a marking facility.

■ interconnection of the terminal blocks

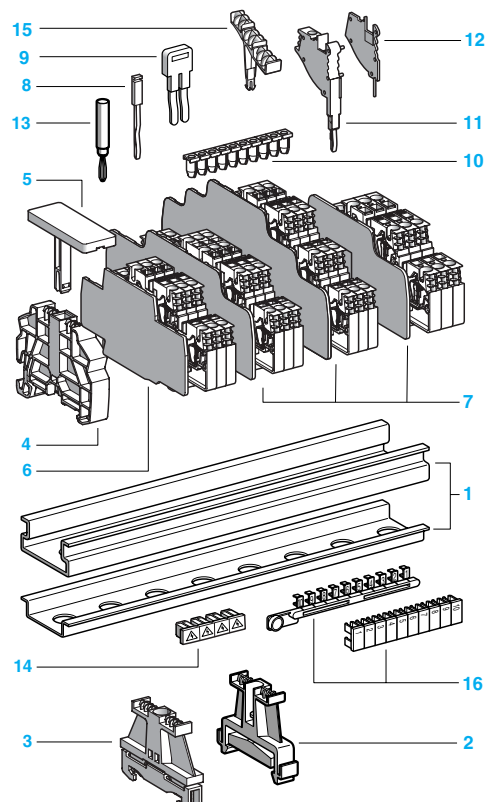
Insulated jumpers (2- to 10-pole) make it possible to jumper a large number of terminal blocks **4**; this significantly reduces wiring time.

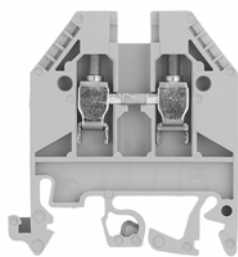
You can also interconnect terminals with a large wire size (16 mm²) and those with a small wire size (2.5 and 4 mm²) via the potential distribution terminal block **5**.

Typical scheme of a spring connection with its accessories

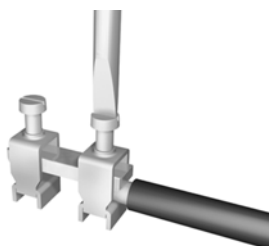
The following accessories can be used with AB1RRN terminal blocks:

- | | | | |
|---|--|----|--|
| 1 | 2.5 or 35 mm DIN3 rail
(7.5 and 15 mm high) | 9 | Insulated jumper |
| 2 | Plastic end clamp with screw | 10 | Wire guide entry strip |
| 3 | Metal end clamp with screw | 11 | Modular test connector |
| 4 | Clip-on plastic end clamp | 12 | Modular test connector end
plate (gray) |
| 5 | Marker tag holder for clip-on plastic end
clamp | 13 | Test plug (red) |
| 6 | End plate (thickness 1.5 mm) | 14 | Terminal cover |
| 7 | Partition plate (thickness 1.5 mm) | 15 | Marker tag holder |
| | | 16 | Marking accessories |

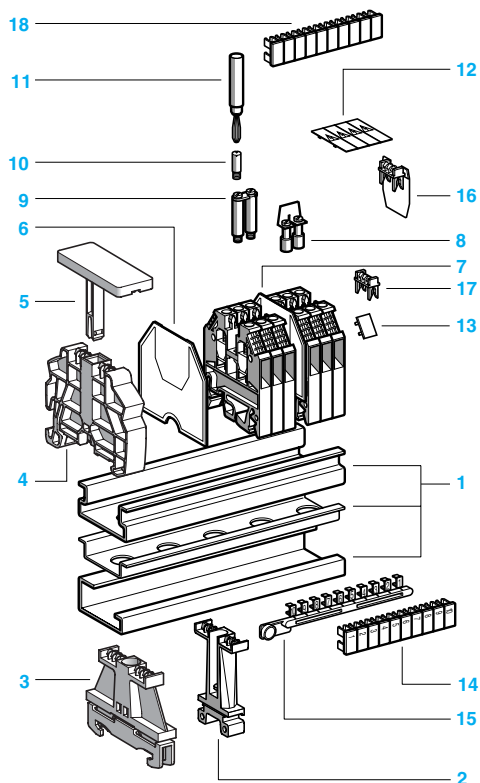




Terminal block type AB1VV



Principle of screw clamp technology



Screw clamp technology terminal blocks

Description

AB1VV screw clamp technology terminal blocks are well known and widely used throughout the world. They are suitable for the vast majority of connection applications, thanks to their wide range of functions and connection options.

AB1VV terminal blocks improve the quality, safety, and operational availability of equipment. They also optimize the setup and operation of installations, thanks to their simplicity and integrated functions.

The material used (polyamide 6.6) provides better resistance at high temperatures. The flammability rating of these products is V0 according to UL 94.

Advantages of this technology

Screw clamp technology offers the following advantages:

- Numerous connection functions
- Wide range of wire sizes
- Several surfaces available for marking
- Test facility
- Numerous certifications (see the tables beginning on page 1/10).

Connection functions

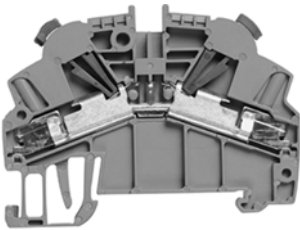
The following products are available, depending on the application:

- Passthrough
- Grounding
- Blade disconnect
- Fused disconnect
- Disconnect (removable carrier), for diode, resistor, or cylindrical fuse
- Disconnect (fixed carrier), for diode, resistor, or cylindrical fuse
- Fixed carrier, for cylindrical fuse
- Double deck, multi-pole
- Double deck
- For 3-wire proximity sensors
- Multifunction
- For neutral conductors
- Passthrough with Telequick universal foot
- Lug-lug type
- Lug-clamp type
- Miniature passthrough

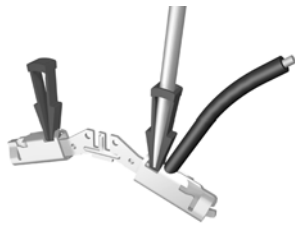
Mounting accessories (for AB1VV screw clamp terminal blocks, 2.5 mm²)

The following accessories can be used with AB1VV terminal blocks:

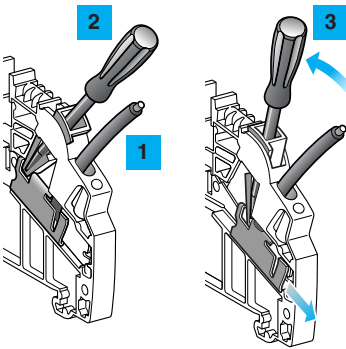
- | | |
|-------|---|
| 1 | 2.5 or 3.5 mm DIN3 rail (7.5 and 15 mm high) |
| 2 | Plastic end clamp with screw |
| 3 | Metal end clamp with screw |
| 4 | Clip-on plastic end clamp |
| 5 | Marker tag holder for clip-on plastic end clamp |
| 6 | End plate (thickness 1.5 mm) |
| 7 | Partition plate (thickness 1.5 mm) |
| 8 | Jumpers with screws |
| 9 | Jumpers for 2 blocks |
| 10 | Socket for test plug |
| 11 | Test plug |
| 12 | Terminal covers |
| 13/15 | Marking accessories |
| 16 | Yellow partition plate |
| 17/18 | Yellow protective cover |



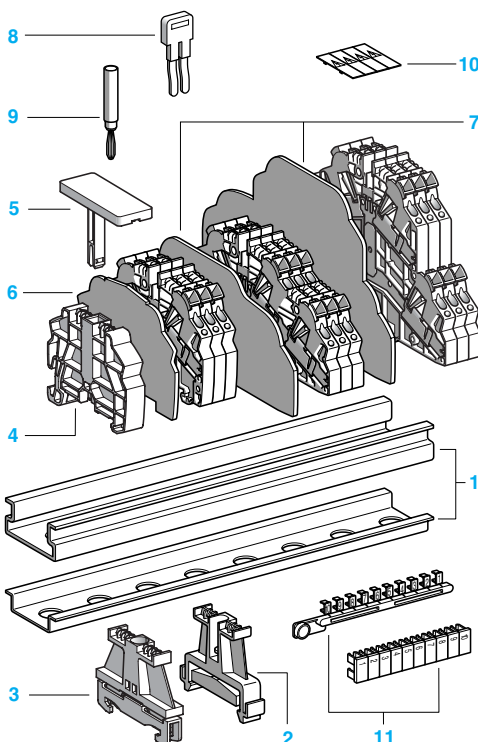
Terminal block type AB1AA



Principle of insulation displacement technology



Installation of insulation displacement technology



Insulation displacement technology terminal blocks

Description

AB1AA terminal blocks use insulation displacement technology, which eliminates the need to strip wires prior to assembly.

AB1AA terminal blocks are made of polyamide 6.6, the same material as screw and spring terminal blocks.

Two widths are available :

- 5 mm for a wire size of 18–30 AWG (0.2–1 mm²)
- 6 mm for a wire size of 14–18 AWG (1–2.5 mm²)

Various colors are available—red, blue, black, and yellow/green—depending on the application where the terminal block is used.

Advantages of this technology

Insulation displacement technology offers the following advantages:

- Fast installation: 60% time savings
- No need to strip or crimp wires
- No special tools required
- Resistance to vibrations, since the technology does not rely on screws that can come loose

Connection function

The following products are available, depending on the application:

- Passthrough
- Grounding
- Double deck
- Blade disconnect
- Plug-in disconnect

Installation

Installation of these terminal blocks is carried out in three stages:

- Cutting the wire to the required length and, without stripping it, inserting it into the wire guide **1**.
- Inserting a screwdriver into the hole provided **2**.
- Lifting the screwdriver toward the center of the terminal block. The test point checks that contact has been made **3**.

Recommendations for installation :

- Use a 3–3.5 mm standard, flat screwdriver.
- Insert the screwdriver fully into its guide.
- Cut off the end of the wire if a new connection is to be made.
- UL 1059 specifies that insulation displacement terminal blocks may be reused 10 times.

Mounting accessories

AB1AA insulation displacement terminal blocks use the same accessories as spring terminal blocks:

- 1 25 or 35 mm DIN3 rail (7.5 and 15 mm high)
- 2 Plastic end clamp with screw
- 3 Metal end clamp with screw
- 4 Clip-on plastic end clamp
- 5 Marker tag holder for clip-on plastic end clamp
- 6 End plate (thickness 1.5 mm)
- 7 Partition plate (thickness 1.5 mm)
- 8 Insulated jumpers
- 9 Test plug (red)
- 10 Terminal covers
- 11 Marking accessories

General characteristics							
Terminal blocks	Technology		Spring		Insulation displacement		Screw
	Catalog number		AB1RRN***		AB1AA***		AB1VV***
Component materials	Insulating case		Polyamide 6.6				
	Connector and screw		Zinc chromated steel				
	Jumper		Copper or brass				
Electrical and thermal characteristics of insulating case (polyamide 6.6)							
Dielectric strength	Conforming to VDE 0303-T21 and IEC60243-1	kV/mm	80/65				
Dielectric loss Tan coefficient at 1 MHz	Conforming to VDE0303-T4 and IEC60250	—	0.01				
Dielectric constant at 1 MHz		—	3.7				
Resistivity	Conforming to VDE0303-T30 and IEC60093	Ω.cm	10 ¹²				
Surface resistance	Conforming to VDE0303-T30 and IEC60093	Ω	10 ¹⁰				
Creep resistance	Conforming to VDE0303-T30 and IEC60093	CTI (kB)	500 (> 400)				
Ambient air temperature	Conforming to VDE0304-T21 and IEC60216-1	°F (°C)	Operation: -40...+266 (-40...+130)				
Flammability rating	Conforming to UL 94	Class/mm thickness	V-0 / 0.8				
Mounting rail characteristics							
Mounting rail type							
Dimensions, width x depth x thickness		mm	35 x 7.5 x 1	35 x 15 x 1.5	35 x 15 x 1	35 x 15 x 1.5	32 x 15 x 1.5
Material			Steel	Steel	Steel	Steel	Steel
							Aluminium

Nominal wire sizes		ISO metric size		U.S. wire size		Diameter	
		mm ²	AWG	kcmil	in.	mm	
		0.13	24	—	0.02	0.20	
		0.25	22	—	0.03	0.33	
		0.5	20	—	0.04	1.02	
		0.75	18	—	0.05	1.28	
		1	—	—	—	—	
		1.5	16	—	0.06	1.6	
		2.5	14	—	0.08	2.08	
		4	12	—	0.11	2.7	
		6	10	—	0.12	3.09	
		10	8	—	0.13	3.36	
		16	6	—	0.17	4.32	
		25	4	—	0.23	5.73	
		35	2	—	0.29	7.26	
		50	(1/0) 0	—	0.48	12.08	
		70	(2/0) 00	—	0.53	13.54	
		95	(3/0) 000	—	0.60	15.33	
		—	(4/0) 0000	—	0.68	17.22	
		120	—	250	0.75	19.01	
		150	—	300	0.81	20.48	
		185	—	350	0.87	22.05	
		240	—	500	1.05	26.57	
		300	—	600	1.18	30.03	

Terminal screw type	Catalog number	Screws	
		Ø	Type
	AB1VV235***	M2.5	
	AB1VV435***	M3	
	AB1VV635***	M3.5	
	AB1VVN1035***	M3.5	
	AB1VVN1635***	M6	
	AB1VVN3535***	M6	
	AB1VVN7035***	M8	
	AB1VVN15035***	M10	
	AB1B•9535	M12	
	AB1B•15035	M12	
	AB1B•18535	M12	
	AB1B•24035	M12	
	AB1VV215**	M2.5	
	AB1DDP235***	M2.5	
	AB1ET3235****	M2.5	
	AB1BD101	M3	
	AB1BD102	M3	
	AB1D11435U	M3	
	AB1ET435****	M3	
	AB1ETN235U	M3	
	AB1ETN335U	M3	
	AB1ETN435U	M3	
	AB1ETNTP435U	M3	
	AB1FC335U	M3	
	AB1FUSE435****	M3	
	AB1FV135U	M3	
	AB1NEN435U	M3	
	AB1SC435****	M3	
	AB1TP215	M3	
	AB1TP435U	M3	
	AB1TRNN435	M3	
	AB1TRPN435	M3	
	AB1TRPN435UFM	M3	
	AB1TRSN435	M3	
	AB1VV415	M3	
	AB1ET435U****	M3	
	AB1TP635U	M4	
	AB1FU10135U•	M5	
	AB1FU10235U	M5	
	AB1FU10335U	M5	
	AB1FU10435U••	M5	
	AB1NEN1035U	M5	
	AB1TP1035U	M5	
	AB1NEN1635U	M6	
	AB1TP1635U	M5	
	AB1TP3535U	M6	
	AB1AB8M35	—	—
	AB1AB8P35	—	—

Product certifications

Introduction

In some countries, certification of certain electrical components is required by law. In this case, a certificate of conformity must be issued by an official test body. Each certified device must bear the relevant certification symbols when these are mandatory.

Code	Certification body	Country
ASEV	Schweizerischer Elektrotechnischer Verein	Switzerland
CSA	Canadian Standards Association	Canada
KEMA	Keuring van Electrotechnische Materialen	Netherlands
UL	Underwriters Laboratories	United States
VDE	Verband Deutscher Elektrotechniker	Germany
ATEX	See "ATEX Directive" below	Europe
FM	Factory Mutual	United States
UL ex	Underwriters Laboratories	United States
CSA ex	Canadian Standards Association	Canada

In general, prior approval (= certification) by certain marine classification authorities is required for electrical equipment intended for use on board merchant vessels.

Code	Marine classification authority	Country
BV	Bureau Veritas	France
DNV	Det Norske Veritas	Norway
GL	Germanischer Lloyd	Germany
LR	Lloyd's Register	Great Britain
RINA	Registro Italiano Navale	Italy

The tables beginning on page 1/10 show the status of certifications for terminal blocks as of December 31, 2006. An up-to-date list of certifications for Telemecanique® products is available on our website, www.Telemecanique.com.

The ATEX Directive

All devices and equipment intended for use in potentially explosive atmospheres created by the presence of flammable gas, vapor, or dust must conform to the requirements of European Directive 94/9/CE, more generally known as the ATEX 100a directive. "ATEX" is derived from the French term "ATmosphère EXplosible" (explosive atmosphere).

Standards EN 50014, EN 50019 and EN 50281-1-1 apply to terminal blocks in hazardous areas, requiring increased safety (EEx e).

Meaning of markings

In compliance with the ATEX 100a directive, the markings on Telemecanique terminal blocks have the following meaning:

XXX	Identification number of the Notified Body
Ex	Use of the equipment in a potentially explosive atmosphere
II	Device group: II = Surface industries
2	Device category: 2 = Zone 1 (gas) / Zone 21 (dust)
GD	Type of explosive atmosphere: G = (gas), D = (dust)
EEx	Equipment conforming to the type of protection specified by CENELEC
e	Type of protection: e = increased safety

Introduction (continued)

In addition to the ATEX, KEMA 01ATEX2087U, KEMA 02ATEX2113U and KEMA 02ATEX2114U certificates issued for Telemecanique terminal blocks, these blocks have also been certified by the following bodies for Hazardous Locations:

Factory Mutual, U.S.

Class I, Zone 1	Zone classification
AEx	Equipment conforming to national standards (United States)
e	Type of protection: e = increased safety
II	Gas group
T6	Temperature class: T6 = 185 °F (85 °C)

CSA-Ex, Canada

Class I, Zone 1	Zone classification
Ex	Equipment conforming to Canadian standards
e	Type of protection: e = increased safety
II	Gas group
T6	Temperature class: T6 = 185 °F (85 °C)

Installation recommendations for EEx e applications

For EEx e applications (applications in explosive atmospheres requiring increased safety) the following installation precautions must be taken:

- If terminal blocks are installed next to terminal blocks of a different size, or next to terminal blocks for grounding, the open side of a group of terminal blocks of the same type must be closed off with an end plate or a partition plate.
- To maintain the required clearances when adjacent terminal blocks are connected by a jumper, a partition plate must be inserted between each group of terminal blocks, at the beginning and end of each group of jumpered blocks.
- The terminal blocks must only be used inside enclosures that have a degree of protection not less than IP54.

Product certifications

Certifications held by Schneider Electric Certifications held by the manufacturer	Marine classification authorities														
															
	VDE	ASEV	KEMA	UL	CSA	GL	LR	DNV	BV	RINA	ATEX	FM	UL-Ex	CSA-Ex	
	Germany	Switzerland	Netherlands	United States	Canada	Germany	Great Britain	Norway	France	Italy	Europe	United States	United States	Canada	
Spring technology															
AB1RRN235U2BL	(1)														
AB1RRN235U2GR	(1)														
AB1RRN235U3BL	(1)														
AB1RRN235U3GR	(1)														
AB1RRN235U4BL	(1)														
AB1RRN235U4GR	(1)														
AB1RRN435U2BL	(1)														
AB1RRN435U2GR	(1)														
AB1RRN435U3BL	(1)														
AB1RRN435U3GR	(1)														
AB1RRN435U4BL	(1)														
AB1RRN435U4GR	(1)														
AB1RRN635U2BL	(1)														
AB1RRN635U2GR	(1)														
AB1RRN635U3BL	(1)														
AB1RRN635U3GR	(1)														
AB1RRN1035U2BL	(1)														
AB1RRN1035U2GR	(1)														
AB1RRN1035U3BL	(1)														
AB1RRN1035U3GR	(1)														
AB1RRN1635U2BL	(1)														
AB1RRN1635U2GR	(1)														
AB1RRN1635U3BL	(1)														
AB1RRN1635U3GR	(1)														
AB1RRN3535U2BL															
AB1RRN3535U2GR															
AB1RRNET235T6	(1)												(1)		
AB1RRNET235U4	(1)														
AB1RRNET235U6	(1)														
AB1RRNET435U4	(1)														
AB1RRNETP235T6	(1)														

(1) Certification pending

Product certifications (continued)

	Marine classification authorities													
														
	Germany	Switzerland	Netherlands	United States	Canada	Germany	Great Britain	Norway	France	Italy	Europe	United States	United States	Canada

Spring technology (continued)

AB1RRNETP235U4	(1)													
AB1RRNETP235U6	(1)												(1)	
AB1RRNETP435U4	(1)													
AB1RRNETV235T6	(1)													
AB1RRNETV235U4	(1)													
AB1RRNETV235U6	(1)												(1)	
AB1RRNETV435U4	(1)													
AB1RRNP235UNO	(1)													
AB1RRNR1635UGR		(1)											(1)	(1)
AB1RRNSC235U2	(1)													
AB1RRNSC235U3	(1)													
AB1RRNSC235U4	(1)													
AB1RRNSCE235U4	(1)													
AB1RRNSCE235U5	(1)													
AB1RRNSF435UGR	(1)			(1)	(1)									
AB1RRNTP235U2	(1)													
AB1RRNTP235U3	(1)													
AB1RRNTP235U4	(1)													
AB1RRNTP435U2	(1)													
AB1RRNTP435U3	(1)													
AB1RRNTP435U4	(1)													
AB1RRNTP635U2	(1)													
AB1RRNTP635U3	(1)													
AB1RRNTP1035U2	(1)													
AB1RRNTP1035U3	(1)													
AB1RRNTP1635U2	(1)													
AB1RRNTP1635U3	(1)													
AB1RRNTP3535U2														

(1) Certification pending

Product certifications (continued)														
Certifications held by Schneider Electric Certifications held by the manufacturer	Marine classification authorities													
														
	Germany	Switzerland	Netherlands	United States	Canada	Germany	Great Britain	Norway	France	Italy	Europe	United States	United States	Canada
Screw clamp technology														
AB1BB***35														
AB1BB9535														
AB1BC**035														
AB1BC9535														
AB1BD10*														
AB1D11435U														
AB1DDP235T**														
AB1DDP235U														
AB1DDP235U**														
AB1ET3235U***														
AB1ET435U														
AB1ET435U2														
AB1ET435U2DRO/UBGE/UBHGE/UBRO/UBVE/UHBRO														
AB1ET435UTP														
AB1ETN435U														
AB1ETNTP435U														
AB1F**35U														
AB1FU10*35U														
AB1FU10135UB/UU														
AB1FU10435UB/UFS														
AB1FUSE435U***														
AB1FV135U														
AB1NEN*****														
AB1SC435U*****														
AB1SF435U														
AB1TP1*35U														
AB1TP215														

Product certifications (continued)														
 Certifications held by Schneider Electric  Certifications held by the manufacturer	Marine classification authorities													
														
	Germany	Switzerland	Netherlands	United States	Canada	Germany	Great Britain	Norway	France	Italy	Europe	United States	United States	Canada
Screw clamp technology (continued)														
AB1TP235U														
AB1TP3535U														
AB1TP435U														
AB1TP635U														
AB1TRNN435														
AB1TRPN435***														
AB1TRSN435														
AB1VV215**														
AB1VV235U**														
AB1VV415														
AB1VV435U***														
AB1VV635U***														
AB1VVN1035U**														
AB1VVN15035U**														
AB1VVN1635U**														
AB1VVN3535U**														
AB1VVN7035U**														
Insulation displacement technology														
AB1AA135U***														
AB1AA235U***														
AB1AAET135UGR														
AB1AAET235UGR														
AB1AAET235UBGE/UBRO/ UGE/URO														
AB1AASC•35U**														
AB1AASF•35UGR														
AB1AATP135U•														
AB1AATP235U•														

(1) Certification pending

2 - Terminal Blocks, Type AB1
Spring Technology

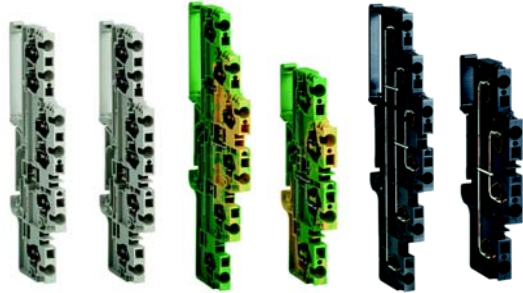
	Page
<i>Selection guide.</i>	2/2
Passthrough type terminal blocks	2/4
■ Passthrough distribution	2/11
Grounding type terminal blocks	2/19
Disconnect type terminal blocks	
■ Blade type	2/32
■ Plug-in type	2/35
■ Double deck blade type	2/36
Double deck terminal blocks	2/38

Applications (connection)	Passthrough	Distribution (1)	Grounding
	Passthrough		



Nominal wire size, AWG (mm ²)		12 (2.5)	10 (4)	8–4 (6–16)	2 (35)	4 (16)	12–16 (2.5–4)	8–4 (6–16)	2 (35)
Number of poles	1 - 1 x 1	●	●	●	●	●	●	●	●
	1 - 1 x 2	●	●	●	—	—	●	●	—
	1 - 2 x 2	●	●	—	—	—	●	—	—
	1 - 2 x 4	—	—	—	—	—	—	—	—
	1 - 3 x 3	—	—	—	—	—	—	—	—
	2 - 1 x 1	●	—	—	—	—	—	—	—
	2 - 1 x 2	—	—	—	—	—	—	—	—
	3 - 1 x 1	—	—	—	—	—	—	—	—
	Clip-on mounting on	35 mm 	●	●	●	●	●	●	●
35 mm 		●	●	●	●	●	●	●	●
Colors	Gray	●	●	●	●	●	—	—	—
	Blue	●	●	●	●	—	—	—	—
	Green/yellow	—	—	—	—	—	●	●	●
	Black	●	—	—	—	—	—	—	—
Catalog numbers		AB1RRN●●35U●●● AB1RRNP235UNO				AB1RRNR	AB1RRNTP		
Pages	Marking accessories	See pages 5/2 and 5/3.							

(1) Potential distribution terminal block: allows interconnection of terminals with a large wire size (16 mm²) and those with a small wire size (2.5 mm² and 4 mm²).

Applications (connection)		Disconnect			Double deck					
		Blade type	Plug-in type, for diode or cylindrical fuse	Double deck, blade type	Double deck		Grounding		With vertical connection	
										
Nominal wire size, AWG (mm ²)		12 (2.5)	10 (4)	12 (2.5)	12 (2.5)	10 (4)	12 (2.5)	10 (4)	12 (2.5)	10 (4)
Number of poles	1 - 1 x 1	•	—	—	—	—	—	—	—	—
	1 - 1 x 2	•	—	—	—	—	—	—	—	—
	1 - 2 x 2	—	•	—	—	—	•	•	•	•
	1 - 2 x 4	—	—	—	—	—	•	—	•	—
	1 - 3 x 3	—	—	—	—	—	•	—	•	—
	2 - 1 x 1	—	—	•	•	•	—	—	—	—
	2 - 1 x 2	—	—	•	•	—	—	—	—	—
	3 - 1 x 1	—	—	—	•	—	—	—	—	—
Clip-on mounting on	35 mm 	•	•	•	•	•	•	•	•	•
	35 mm 	•	•	•	•	•	•	•	•	•
Colors	Gray	•	•	•	•	•	—	—	—	—
	Blue	—	—	—	—	—	—	—	—	—
	Green/yellow	—	—	—	—	—	•	•	—	—
	Black	—	—	—	—	—	—	—	•	•
Catalog numbers		AB1 RRNSC	AB1 RRNSF	AB1 RRNSCE	AB1RRNET		AB1RRNETP		AB1RRNETV	
Pages	Marking accessories	See pages 5/2 and 5/3.								

Terminal Blocks, Type AB1

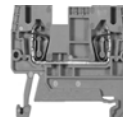
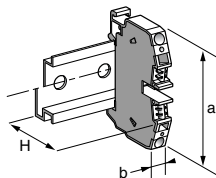
Spring technology

Passthrough

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

2.5 mm²



AB1RRN235U2**

Approximate dimensions, in. (mm)

1	Length (a)	1.85 (47.1)
	Width (b)	0.20 (5)
	Height (H) $\frac{25}{8}$ rail	1.80 (45.6)
	with $\frac{25}{8}$ rail	1.50 (38.1)

Wire size, mm²

Stranded without cable end	0.13–2.5
Stranded with cable end	0.5–2.5
Solid	0.13–4

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–24 A
UL File E164359 CCN XCFR2	22–12 AWG, 600 V, 20 A
CSA File 702070 Class 6228 01	24–12 AWG, 600 V, 24 A
UTE, category C	—
VDE, group C	800 V / 24 A

Certifications

See the tables beginning on page 1/10.

Terminal Blocks

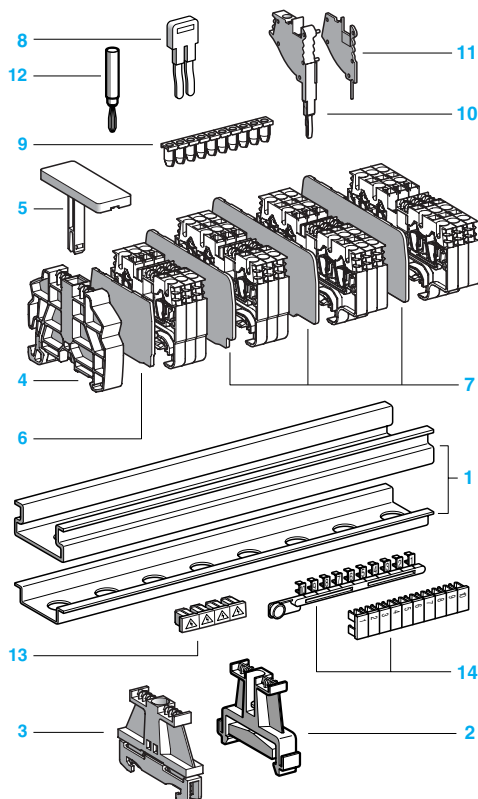
	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2	100	AB1RRN235U2GR	0.19 (5.5)
Blue	2	100	AB1RRN235U2BL	0.19 (5.5)
Black	—	—	—	—

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8P35	0.21 (5.9)	
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8M35	0.52 (14.8)	
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8R35	0.21 (5.9)	
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)	
6	End plate	Gray	—	10	AB1RRNAC242GR	0.08 (2.3)	
	thickness 0.06 in. (1.5 mm)	Blue	—	10	AB1RRNAC242BL	0.08 (2.3)	
7	Partition plate	Gray	—	10	AB1RRNAS242GR	0.10 (2.9)	
	thickness 0.06 in. (1.5 mm)	Blue	—	10	AB1RRNAS242BL	0.10 (2.9)	
8	Insulated jumper	2-pole	—	10	AB1RRAL22	0.04 (1.1)	
		3-pole	—	10	AB1RRAL23	0.06 (1.7)	
		4-pole	—	10	AB1RRAL24	0.08 (2.2)	
		5-pole	—	10	AB1RRAL25	0.10 (2.8)	
		10-pole	—	20	AB1RRAL210	0.20 (5.6)	
9	Wire guide entry strip	0.13–0.2 mm ²	White	—	100	AB1RRNGF01	0.03 (0.9)
		0.25–0.5 mm ²	Gray	—	100	AB1RRNGF02	0.03 (0.9)
		0.75–1 mm ²	Black	—	100	AB1RRNGF03	0.03 (0.9)
10	Modular test connector	Gray	—	10	AB1AT3	0.08 (2.4)	
11	Modular test connector end plate		—	10	AB1AC3	0.01 (0.4)	
12	Test plug	Red	—	10	AB1AT1	0.07 (1.9)	
13	Terminal cover		—	10	AB1RRNCS2	0.01 (0.3)	
14	Marking accessories						

See pages 5/2 and 5/3.

See pages 5/2 and 5/3.



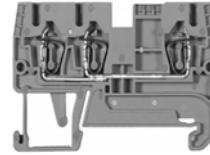
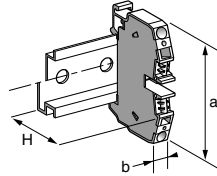
Terminal Blocks, Type AB1

Spring technology
Passthrough

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

2.5 mm²



AB1RRN235U3**

Approximate dimensions, in. (mm)

1	Length (a)	2.35 (59.7)
	Width (b)	0.20 (5)
	Height (H) $\frac{25}{8}$ rail	1.80 (45.6)
	with $\frac{15}{8}$ rail	1.50 (38.1)

Wire size, mm²

Stranded without cable end	0.13–2.5
Stranded with cable end	0.5–2.5
Solid	0.13–4

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–24 A
UL File E164359 CCN XCFR2	22–12 AWG, 600 V, 20 A
CSA File 702070 Class 6228 01	24–12 AWG, 600 V, 24 A
UTE, category C	—
VDE, group C	800 V / 24 A

Certifications

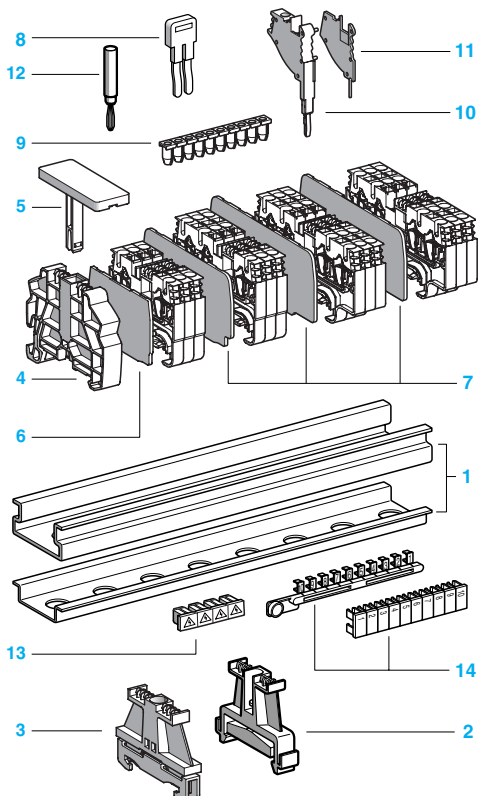
See the tables beginning on page 1/10.

Terminal Blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	3	100	AB1RRN235U3GR	0.26 (7.4)
Blue	3	100	AB1RRN235U3BL	0.26 (7.4)
Black	—	—	—	—

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{15}{8}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{15}{8}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{15}{8}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNAC243GR	0.10 (2.8)
		Blue	—	10	AB1RRNAC243BL	0.10 (2.8)
7	Partition plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNAS243GR	0.12 (3.4)
		Blue	—	10	AB1RRNAS243BL	0.12 (3.4)
8	Insulated jumper	2-pole	—	10	AB1RRAL22	0.04 (1.1)
		3-pole	—	10	AB1RRAL23	0.10 (2.7)
		4-pole	—	10	AB1RRAL24	0.08 (2.2)
		5-pole	—	10	AB1RRAL25	0.10 (2.8)
		10-pole	—	20	AB1RRAL210	0.20 (5.6)
9	Wire guide entry strip	0.13–0.2 mm ² White	—	100	AB1RRNGF01	0.03 (0.9)
		0.25–0.5 mm ² Gray	—	100	AB1RRNGF02	0.03 (0.9)
		0.75–1 mm ² Black	—	100	AB1RRNGF03	0.03 (0.9)
10	Modular test connector	Gray	—	10	AB1AT3	0.08 (2.4)
11	Modular test connector end plate		—	10	AB1AC3	0.01 (0.4)
12	Test plug		4	10	AB1AT1	0.07 (1.9)
13	Terminal cover		4	10	AB1RRNCS2	0.01 (0.3)
14	Marking accessories		See pages 5/2 and 5/3.			



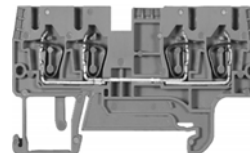
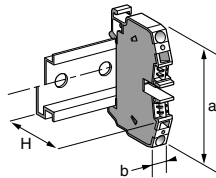
Terminal Blocks, Type AB1

Spring technology
Passthrough

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

2.5 mm²



AB1RRN235U4**

Approximate dimensions, in. (mm)

1	Length (a)	
	Width (b)	
	Height (H)	$\frac{25}{8}$ rail
	with	rail

2.85 (72.4)

0.20 (5)

1.80 (45.6)

1.50 (38.1)

Wire size, mm²

Stranded without cable end
Stranded with cable end
Solid

0.13–2.5

0.5–2.5

0.13–4

Nominal electrical values

IEC/EN 60947-7-1
UL File E164359 CCN XCFR2
CSA File 702070 Class 6228 01
UTE, category C
VDE, group C

800 V / 8 kV / 3–24 A

22–12 AWG, 600 V, 20 A

24–12 AWG, 600 V, 24 A

—

800 V / 24 A

Certifications

See the tables beginning on page 1/10.

Terminal Blocks

Gray
Blue
Black

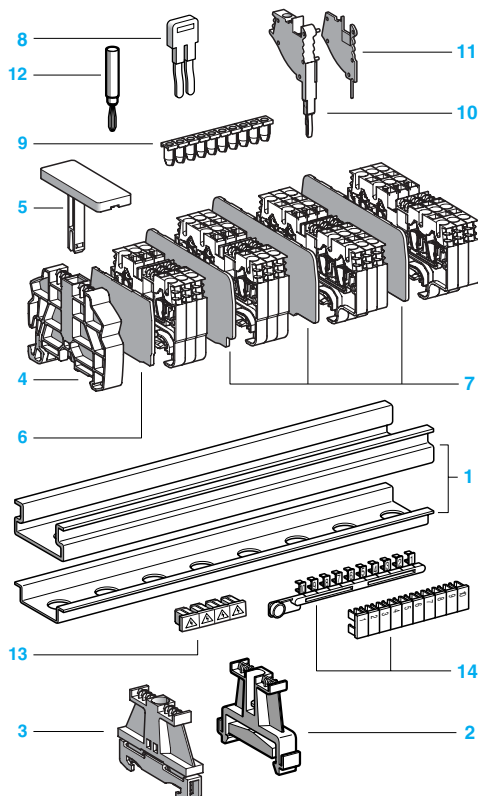
No. points	Sold in lots of	Catalog number	Weight oz (g)
4	100	AB1RRN235U4GR	0.32 (9.1)
4	100	AB1RRN235U4BL	0.32 (9.1)
—	—	—	—

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{35}{8}$
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{35}{8}$
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{35}{8}$
5	Marker tag holder for clip-on plastic end clamp	
6	End plate	Gray thickness 0.06 in. (1.5 mm) Blue
7	Partition plate	Gray thickness 0.06 in. (1.5 mm) Blue
8	Insulated jumper	2-pole 3-pole 4-pole 5-pole 10-pole
9	Wire guide entry strip	0.13–0.2 mm ² White 0.25–0.5 mm ² Gray 0.75–1 mm ² Black
10	Modular test connector	Gray
11	Modular test connector end plate	
12	Test plug	Red
13	Terminal cover	
14	Marking accessories	

—	100	AB1AB8P35	0.21 (5.9)
—	100	AB1AB8M35	0.52 (14.8)
—	100	AB1AB8R35	0.21 (5.9)
—	10	AB1SB4	0.11 (3.1)
—	10	AB1RRNAC244GR	0.12 (3.4)
—	10	AB1RRNAC244BL	0.12 (3.4)
—	10	AB1RRNAS244GR	0.15 (4.2)
—	10	AB1RRNAS244BL	0.15 (4.2)
—	10	AB1RRAL22	0.04 (1.1)
—	10	AB1RRAL23	0.06 (1.7)
—	10	AB1RRAL24	0.08 (2.2)
—	10	AB1RRAL25	0.10 (2.8)
—	20	AB1RRAL210	0.20 (5.6)
—	100	AB1RRNGF01	0.03 (0.9)
—	100	AB1RRNGF02	0.03 (0.9)
—	100	AB1RRNGF03	0.03 (0.9)
—	10	AB1AT3	0.08 (2.4)
—	10	AB1AC3	0.01 (0.4)
4	10	AB1AT1	0.07 (1.9)
4	10	AB1RRNCS2	0.01 (0.3)

See pages 5/2 and 5/3.



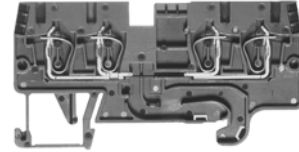
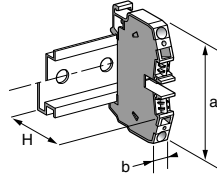
Terminal Blocks, Type AB1

Spring technology
Passthrough

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

2.5 mm² (1)



AB1RRNP235UNO

Approximate dimensions, in. (mm)

1

Length (a)	2.85 (72.4)
Width (b)	0.20 (5)
Height (H) $\frac{25}{8}$ rail	1.80 (45.6)
with $\frac{1}{4}$ rail	1.50 (38.1)
Wire size, mm²	
Stranded without cable end	0.13–2.5
Stranded with cable end	0.5–2.5
Solid	0.13–4
Nominal electrical values	
IEC/EN 60947-7-1	800 V / 8 kV / 3–24 A
UL File E164359 CCN XCFR2	22–12 AWG, 600 V, 20 A
CSA File 702070 Class 6228 01	24–12 AWG, 600 V, 24 A
UTE, category C	—
VDE, group C	800 V / 24 A

Certifications

See the tables beginning on page 1/10.

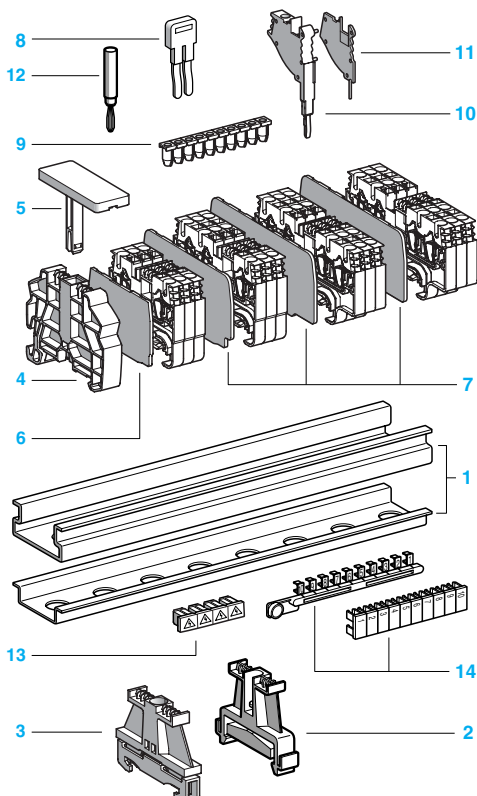
Terminal Blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	—	—	—	—
Blue	—	—	—	—
Black	2/2	100	AB1RRNP235UNO	0.32 (9.0)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{1}{4}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{1}{4}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{1}{4}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Gray Blue	—	10	AB1RRNAC244GR	0.12 (3.4)
7	Partition plate thickness 0.06 in. (1.5 mm)	Gray Blue	—	10	AB1RRNAS244GR	0.15 (4.2)
8	Insulated jumper	2-pole 3-pole 4-pole 5-pole 10-pole	—	—	—	—
9	Wire guide entry strip	0.13–0.2 mm ² White 0.25–0.5 mm ² Gray 0.75–1 mm ² Black	—	100	AB1RRNGF01	0.03 (0.9)
			—	100	AB1RRNGF02	0.03 (0.9)
			—	100	AB1RRNGF03	0.03 (0.9)
10	Modular test connector	Gray	—	—	—	—
11	Modular test connector end plate		—	—	—	—
12	Test plug	Red	4	10	AB1AT1	0.07 (1.9)
13	Terminal cover		4	10	AB1RRNCS2	0.01 (0.3)
14	Marking accessories		See pages 5/2 and 5/3.			

(1) Terminal blocks with a discontinuous conductor bar, which allows two terminal blocks to be placed on the same level.



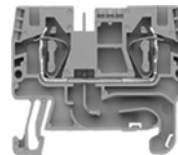
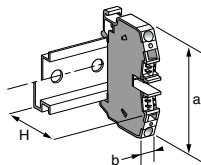
Terminal Blocks, Type AB1

Spring technology
Passthrough

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

4 mm²



AB1RRN435U2**

Approximate dimensions, in. (mm)

1	Length (a)	2.01 (51)
	Width (b)	0.24 (6)
	Height (H) $\frac{25}{8}$ rail	1.80 (45.65)
	with $\frac{25}{8}$ rail	1.50 (38.15)

Wire size, mm²

Stranded without cable end	0.13–4
Stranded with cable end	0.5–4
Solid	0.13–6

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–32 A
UL File E164359 CCN XCFR2	24–10 AWG, 600 V, 30 A
CSA File 702070 Class 6228 01	24–10 AWG, 600 V, 32 A
UTE, category C	—
VDE, group C	800 V / 32 A

Certifications

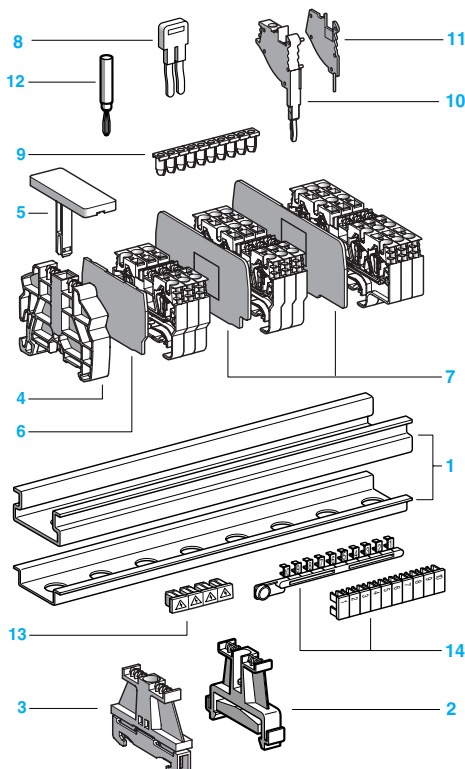
See the tables beginning on page 1/10.

Terminal blocks

Gray	No. points	Sold in lots of	Catalog number	Weight oz (g)
Blue	2	100	AB1RRN435U2GR	0.26 (7.5)
	2	100	AB1RRN435U2BL	0.26 (7.5)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNAC442GR	0.09 (2.5)
		Blue	—	10	AB1RRNAC442BL	0.09 (2.5)
7	Partition plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNAS442GR	0.11 (3.2)
		Blue	—	10	AB1RRNAS442BL	0.11 (3.2)
8	Insulated jumper	2-pole	—	10	AB1RRAL42	0.06 (1.7)
		3-pole	—	10	AB1RRAL43	0.09 (2.5)
		4-pole	—	10	AB1RRAL44	0.12 (3.3)
		5-pole	—	10	AB1RRAL45	0.14 (4.1)
		10-pole	—	20	AB1RRAL410	0.29 (8.3)
9	Wire guide entry strip	0.13–0.2 mm ² White	—	100	AB1RRNGF11	0.03 (0.8)
		0.25–0.5 mm ² Gray	—	100	AB1RRNGF22	0.03 (0.8)
		0.75–1 mm ² Black	—	100	AB1RRNGF33	0.03 (0.8)
10	Modular test connector	Gray	—	10	AB1AT3	0.08 (2.4)
11	Modular test connector end plate		—	10	AB1AC3	0.01 (0.4)
12	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
13	Terminal cover		4	100	AB1RRCS4	0.01 (0.4)
14	Marking accessories		See pages 5/2 and 5/3.			



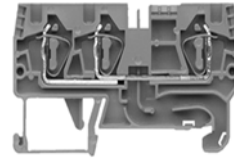
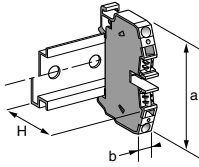
Terminal Blocks, Type AB1

Spring technology
Passthrough

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

4 mm²



AB1RRN435U3**

Approximate dimensions, in. (mm)

1	Length (a)	2.62 (66.6)
	Width (b)	0.24 (6)
	Height (H)	1.80 (45.65)
	with $\frac{25}{8}$ rail	1.50 (38.15)

Wire size, mm²

Stranded without cable end	0.13–4
Stranded with cable end	0.5–4
Solid	0.13–6

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–32 A
UL File E164359 CCN XCFR2	24–10 AWG, 600 V, 30 A
CSA File 702070 Class 6228 01	24–10 AWG, 600 V, 32 A
UTE, category C	—
VDE, group C	800 V / 32 A

Certifications

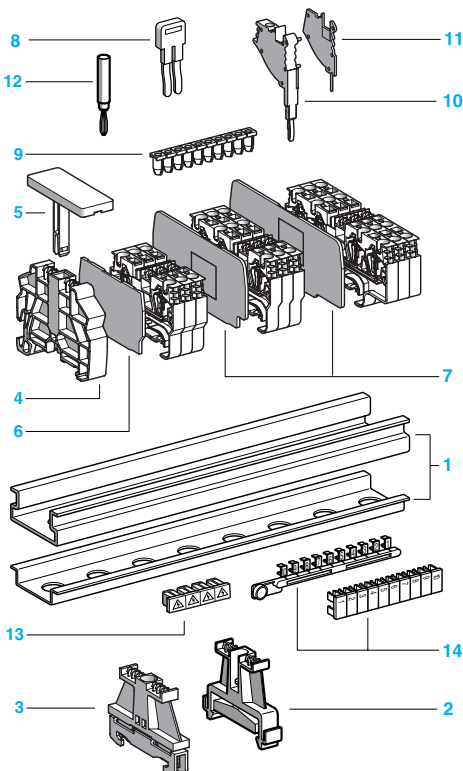
See the tables beginning on page 1/10.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	3	100	AB1RRN435U3GR	0.36 (10.3)
Blue	3	100	AB1RRN435U3BL	0.36 (10.3)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{15}{8}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{15}{8}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{15}{8}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNAC443GR	0.11 (3.2)
		Blue	—	10	AB1RRNAC443BL	0.11 (3.2)
7	Partition plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNAS443GR	0.14 (3.9)
		Blue	—	10	AB1RRNAS443BL	0.14 (3.9)
8	Insulated jumper	2-pole	—	10	AB1RRAL42	0.06 (1.7)
		3-pole	—	10	AB1RRAL43	0.09 (2.5)
		4-pole	—	10	AB1RRAL44	0.12 (3.3)
		5-pole	—	10	AB1RRAL45	0.14 (4.1)
		10-pole	—	20	AB1RRAL410	0.29 (8.3)
9	Wire guide entry strip	0.13–0.2 mm ² White	—	100	AB1RRNGF11	0.03 (0.8)
		0.25–0.5 mm ² Gray	—	100	AB1RRNGF22	0.03 (0.8)
		0.75–1 mm ² Black	—	100	AB1RRNGF33	0.03 (0.8)
10	Modular test connector	Gray	—	10	AB1AT3	0.08 (2.4)
11	Modular test connector end plate		—	10	AB1AC3	0.01 (0.4)
12	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
13	Terminal cover		4	100	AB1RRCS4	0.01 (0.4)
14	Marking accessories		See pages 5/2 and 5/3.			



Terminal Blocks, Type AB1

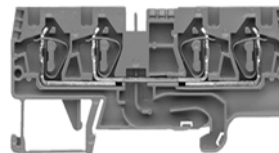
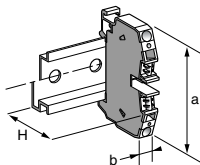
Spring technology

Passthrough

Clip-on mounting on 35 mm $\frac{1}{4}$ rails

Nominal wire size

4 mm²



AB1RRN435U4**

Approximate dimensions, in. (mm)

1	Length (a)	3.24 (82.2)
	Width (b)	0.24 (6)
	Height (H) $\frac{1}{4}$ rail	1.80 (45.65)
	with $\frac{1}{4}$ rail	1.50 (38.15)

Wire size, mm²

Stranded without cable end	0.13–4
Stranded with cable end	0.5–4
Solid	0.13–6

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–32 A
UL File E164359 CCN XCFR2	24–10 AWG, 600 V, 30 A
CSA File 702070 Class 6228 01	24–10 AWG, 600 V, 32 A
UTE, category C	—
VDE, group C	800 V / 32 A

Certifications

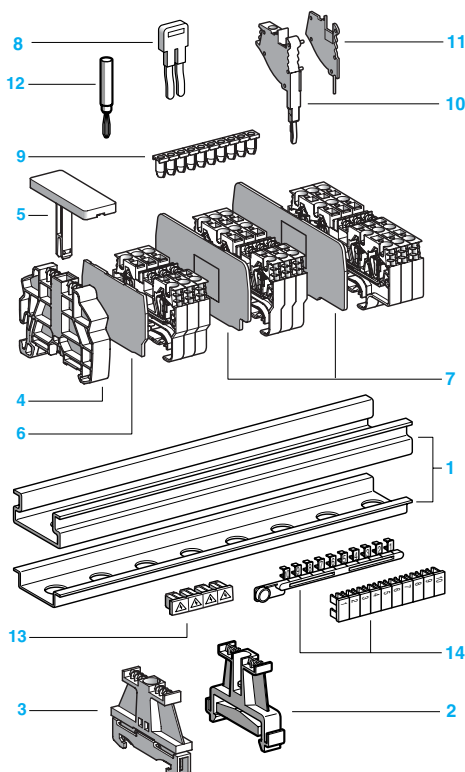
See the tables beginning on page 1/10.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	4	100	AB1RRN435U4GR	0.46 (13.1)
Blue	4	100	AB1RRN435U4BL	0.46 (13.1)

Accessories

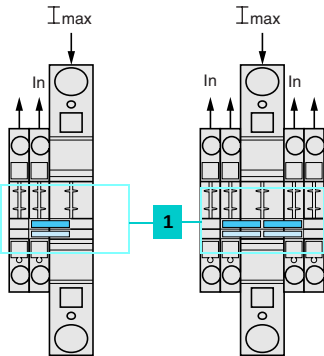
2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$ rail	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$ rail	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$ rail	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNAC444GR	0.13 (3.8)
		Blue	—	10	AB1RRNAC444BL	0.13 (3.8)
7	Partition plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNAS444GR	0.17 (4.8)
		Blue	—	10	AB1RRNAS444BL	0.17 (4.8)
8	Insulated jumper	2-pole	—	10	AB1RRAL42	0.06 (1.7)
		3-pole	—	10	AB1RRAL43	0.09 (2.5)
		4-pole	—	10	AB1RRAL44	0.12 (3.3)
		5-pole	—	10	AB1RRAL45	0.14 (4.1)
		10-pole	—	20	AB1RRAL410	0.29 (8.3)
9	Wire guide entry strip	0.13–0.2 mm ² White	—	100	AB1RRNGF11	0.03 (0.8)
		0.25–0.5 mm ² Gray	—	100	AB1RRNGF22	0.03 (0.8)
		0.75–1 mm ² Black	—	100	AB1RRNGF33	0.03 (0.8)
10	Modular test connector	Gray	—	10	AB1AT3	0.08 (2.4)
11	Modular test connector end plate		—	10	AB1AC3	0.01 (0.4)
12	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
13	Terminal cover		4	100	AB1RRCS4	0.01 (0.4)
14	Marking accessories		See pages 5/2 and 5/3.			



Terminal Blocks, Type AB1

Spring technology
Passthrough-distribution

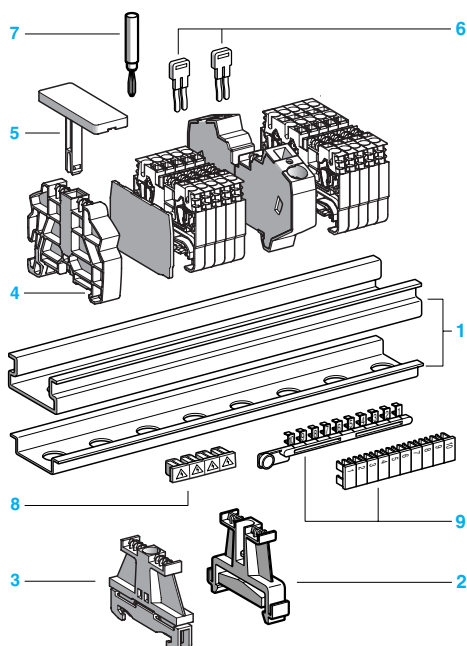
Potential distribution terminal block allowing interconnection of terminals with a large wire size (16 mm²) and those with a small wire size (2.5 and 4 mm²).



Option to distribute the potential not only on one or both sides (different or identical wire size on each side) but also on one or both shunt lines using insulated jumpers **1**.

Connection on one side	Single		Double	
Nominal wire size (mm ²)	2.5	4	2.5	4
I _{max}	48	64	68	76
I _{Nblock}	24	32	24	32
Connection on both sides	Single		Double	
Nominal wire size (mm ²)	2.5	4	2.5	4
I _{max}	72	76	76	76
I _{Nblock}	24	32	24	32

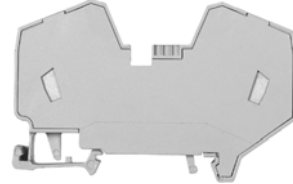
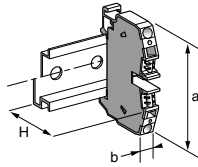
$$I_{\max} = \sum I_n \leq \sum I_{Nblock}$$



Clip-on mounting on 35 mm 2.5 rails

Nominal wire size

16 mm²



Approximate dimensions, in. (mm)

1

Length (a)	
Width (b)	
Height (H) with 2.5 rail	
with 4 rail	

AB1RRNR1635UGR

Length (a)	3.20 (82)
Width (b)	0.47 (12)
Height (H) with 2.5 rail	2.06 (52.2)
with 4 rail	1.88 (47.7)

Wire size, mm²

Stranded without cable end	4–16
Stranded with cable end	4–16
Solid	4–16

4–16	
4–16	
4–16	

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–76 A
UL File E164359 CCN XCFR2	24–4 AWG, 600 V, 75 A
CSA File 702070 Class 6228 01	12–4 AWG, 600 V, 78 A
UTE, category C	—
VDE, group C	800 V / 76 A

800 V / 8 kV / 3–76 A	
24–4 AWG, 600 V, 75 A	
12–4 AWG, 600 V, 78 A	
—	
800 V / 76 A	

Certifications

See the tables beginning on page 1/10.

Terminal blocks

Gray	
Blue	

No. points	Sold in lots of	Catalog number	Weight oz (g)
2	20	AB1RRNR1635UGR	1.10 (31.1)
—	—	—	—

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on 2.5 or 4	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on 2.5 or 4	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on 2.5 or 4	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	Insulated jumper	2-pole 2.5 mm ² 4 mm ²	—	10	AB1RRAL22	0.04 (1.1)
		3-pole 2.5 mm ² 4 mm ²	—	10	AB1RRAL42	0.06 (1.7)
		4-pole 2.5 mm ² 4 mm ²	—	10	AB1RRAL23	0.06 (1.7)
		5-pole 2.5 mm ² 4 mm ²	—	10	AB1RRAL43	0.09 (2.5)
			—	10	AB1RRAL24	0.08 (2.2)
			—	10	AB1RRAL44	0.12 (3.3)
			—	10	AB1RRAL25	0.10 (2.8)
			—	10	AB1RRAL45	0.14 (4.1)
			—	20	AB1RRAL210	0.20 (5.6)
			—	20	AB1RRAL410	0.29 (8.3)
7	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
8	Terminal cover		4	10	AB1RRCS16	0.04 (1.2)
9	Marking accessories		See pages 5/2 and 5/3.			

Terminal Blocks, Type AB1

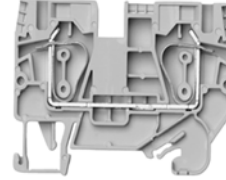
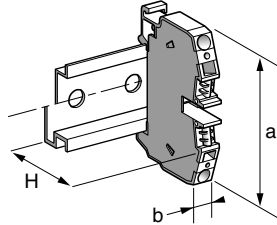
Spring technology

Passthrough

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

6 mm²



AB1RRN635U2**

Approximate dimensions, in. (mm)

1	Length (a)	2.60 (66)
	Width (b)	0.31 (8)
	Height (H) $\frac{25}{8}$ rail	2.05 (52.05)
	with $\frac{16}{8}$ rail	1.75 (44.5)

Wire size, mm²

Stranded without cable end	0.2–6
Stranded with cable end	0.2–6
Solid	0.2–10

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–41 A
UL File E164359 CCN XCFR2	24–8 AWG, 600 V, 50 A
CSA File 702070 Class 6228 01	24–8 AWG, 600 V, 41 A
UTE, category C	—
VDE, group C	800 V / 41 A

Certifications

See the tables beginning on page 1/10.

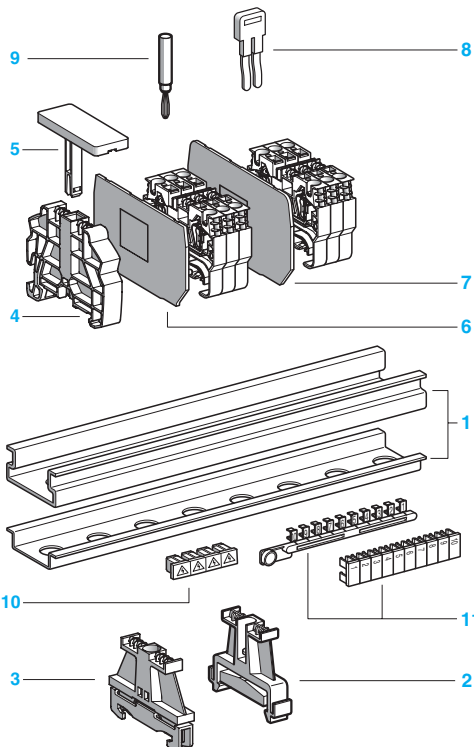
Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2	50	AB1RRN635U2GR	0.56 (15.8)
Blue	2	50	AB1RRN635U2BL	0.56 (15.8)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{16}{8}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{16}{8}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{16}{8}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNAC642GR	0.14 (4.0)
		Blue	—	10	AB1RRNAC642BL	0.14 (4.0)
7	Partition plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNAS642GR	0.18 (5.0)
		Blue	—	10	AB1RRNAS642BL	0.18 (5.0)
8	Insulated jumper	2-pole	—	10	AB1RRNAL62	0.14 (4.0)
		3-pole	—	10	AB1RRNAL63	0.21 (6.0)
		4-pole	—	10	AB1RRNAL64	0.28 (8.0)
		5-pole	—	10	AB1RRNAL65	0.35 (10.0)
9	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
10	Terminal cover		4	10	AB1RRCS6	0.01 (0.4)
11	Marking accessories		See pages 5/2 and 5/3.			

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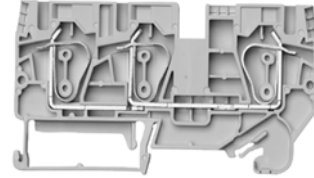
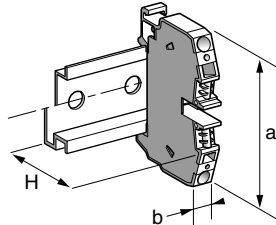
Terminal Blocks, Type AB1

Spring technology
Passthrough

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

6 mm²



Approximate dimensions, in. (mm)

1	Length (a)	3.54 (90)
	Width (b)	0.31 (8)
	Height (H) $\frac{25}{8}$ rail	2.05 (52.05)
	with $\frac{25}{8}$ rail	1.75 (44.55)

Wire size, mm²

Stranded without cable end	0.2–6
Stranded with cable end	0.2–6
Solid	0.2–10

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–41 A
UL File E164359 CCN XCFR2	24–8 AWG, 600 V, 50 A
CSA File 702070 Class 6228 01	24–8 AWG, 600 V, 41 A
UTE, category C	—
VDE, group C	800 V / 41 A

Certifications

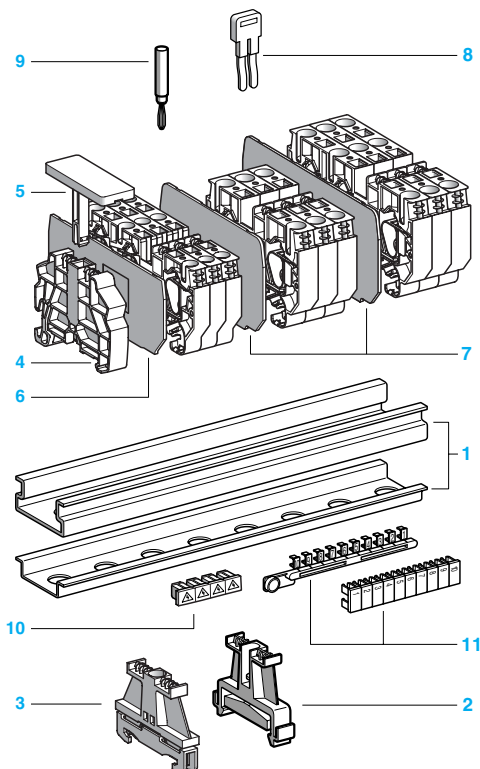
See the tables beginning on page 1/10.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	3	50	AB1RRN635U3GR	0.82 (23.3)
Blue	3	50	AB1RRN635U3BL	0.82 (23.3)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNAC643GR	0.18 (5.2)
		Blue	—	10	AB1RRNAC643BL	0.18 (5.2)
7	Partition plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNAS643GR	0.22 (6.3)
		Blue	—	10	AB1RRNAS643BL	0.22 (6.3)
8	Insulated jumper	2-pole	—	10	AB1RRNAL62	0.14 (4.0)
		3-pole	—	10	AB1RRNAL63	0.21 (6.0)
		4-pole	—	10	AB1RRNAL64	0.28 (8.0)
		5-pole	—	10	AB1RRNAL65	0.35 (10.0)
9	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
10	Terminal cover		4	10	AB1RRCS6	0.01 (0.4)
11	Marking accessories		See pages 5/2 and 5/3.			



Terminal Blocks, Type AB1

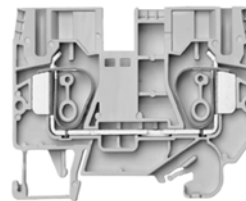
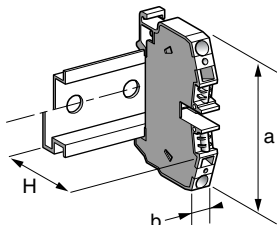
Spring technology

Passthrough

Clip-on mounting on 35 mm $\frac{1}{4}$ rails

Nominal wire size

10 mm²



AB1RRN1035U2**

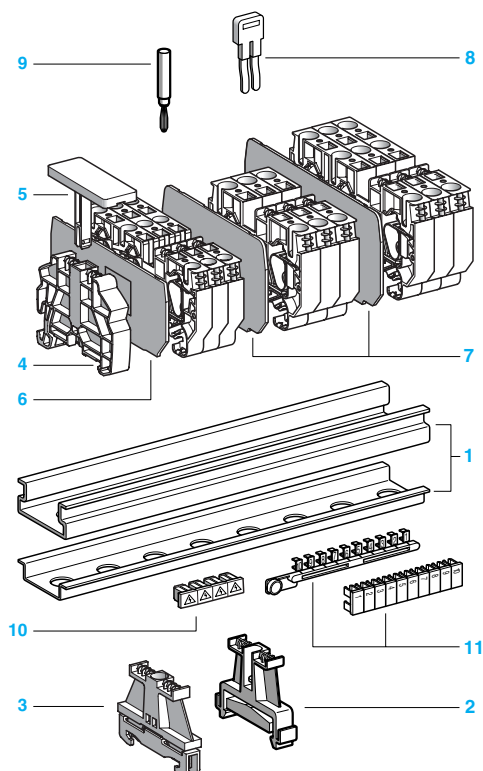
Approximate dimensions, in. (mm)	
Length (a)	2.85 (72.5)
Width (b)	0.39 (10)
Height (H)	$\frac{1}{4}$ rail
	2.28 (58)
with	$\frac{1}{4}$ rail
	1.99 (50.5)
Wire size, mm ²	
Stranded without cable end	0.2–10
Stranded with cable end	0.2–10
Solid	0.2–16
Nominal electrical values	
IEC/EN 60947-7-1	800 V / 8 kV / 3–57 A
UL File E164359 CCN XCFR2	16–6 AWG, 600 V, 60 A
CSA File 702070 Class 6228 01	16–6 AWG, 600 V, 65 A
UTE, category C	—
VDE, group C	800 V / 57 A
Certifications	
See the tables beginning on page 1/10.	

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2	50	AB1RRN1035U2GR	0.86 (24.5)
Blue	2	50	AB1RRN1035U2BL	0.86 (24.5)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNAC1042GR	0.18 (5.1)
		Blue	—	10	AB1RRNAC1042BL	0.18 (5.1)
7	Partition plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNAS1042GR	0.22 (6.1)
		Blue	—	10	AB1RRNAS1042BL	0.22 (6.1)
8	Insulated jumper	2-pole	—	10	AB1RRAL102	0.11 (3.0)
		3-pole	—	—	—	—
		4-pole	—	—	—	—
		5-pole	—	—	—	—
9	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
10	Terminal cover		4	10	AB1RRCS10	0.03 (0.8)
11	Marking accessories		See pages 5/2 and 5/3.			



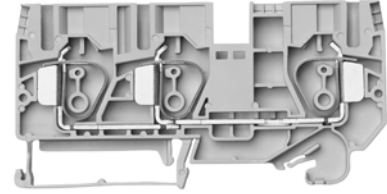
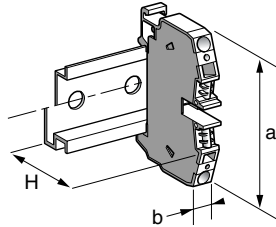
Terminal Blocks, Type AB1

Spring technology
Passthrough

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

10 mm²



Approximate dimensions, in. (mm)

1	Length (a)	
	Width (b)	
	Height (H)	$\frac{25}{8}$ rail
		with $\frac{25}{8}$ rail

AB1RRN1035U3**

3.86 (98)

0.39 (10)

2.28 (58)

1.99 (50.5)

Wire size, mm²

Stranded without cable end	0.2–10
Stranded with cable end	0.2–10
Solid	0.2–16

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–57 A
UL File E164359 CCN XCFR2	16–6 AWG, 600 V, 60 A
CSA File 702070 Class 6228 01	16–6 AWG, 600 V, 65 A
UTE, category C	—
VDE, group C	800 V / 57 A

800 V / 8 kV / 3–57 A

16–6 AWG, 600 V, 60 A

16–6 AWG, 600 V, 65 A

—

800 V / 57 A

Certifications

See the tables beginning on page 1/10.

Terminal blocks

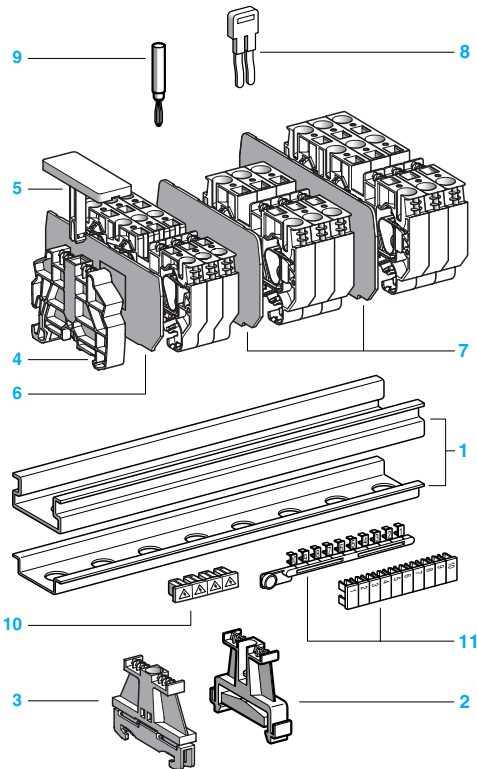
Gray

Blue

No. points	Sold in lots of	Catalog number	Weight oz (g)
3	50	AB1RRN1035U3GR	1.20 (35.4)
3	50	AB1RRN1035U3BL	1.20 (35.4)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on 2.5 or 1.6	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on 2.5 or 1.6	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on 2.5 or 1.6	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Gray	—	10	AB1RRNAC1043GR	0.24 (6.7)
	thickness 0.06 in. (1.5 mm)	Blue	—	10	AB1RRNAC1043BL	0.24 (6.7)
7	Partition plate	Gray	—	10	AB1RRNAS1043GR	0.28 (7.8)
	thickness 0.06 in. (1.5 mm)	Blue	—	10	AB1RRNAS1043BL	0.28 (7.8)
8	Insulated jumper	2-pole	—	10	AB1RRAL102	0.11 (3.0)
		3-pole	—	—	—	—
		4-pole	—	—	—	—
		5-pole	—	—	—	—
9	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
10	Terminal cover		4	10	AB1RRCS10	0.03 (0.8)
11	Marking accessories		See pages 5/2 and 5/3.			



Terminal Blocks, Type AB1

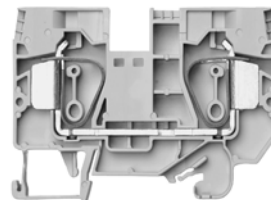
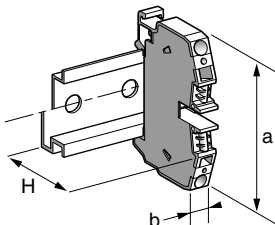
Spring technology

Passthrough

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

16 mm²



AB1RRN1635U2**

Approximate dimensions, in. (mm)

1	Length (a)	3.11 (79.1)
	Width (b)	0.47 (12)
	Height (H) $\frac{25}{8}$ rail	2.28 (58)
	with $\frac{25}{8}$ rail	1.99 (50.5)

Wire size, mm²

Stranded without cable end	0.2–16
Stranded with cable end	0.2–16
Solid	0.2–25

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–76 A
UL File E164359 CCN XCFR2	16–4 AWG, 600 V, 85 A
CSA File 702070 Class 6228 01	16–4 AWG, 600 V, 85 A
UTE, category C	—
VDE, group C	800 V / 76 A

Certifications

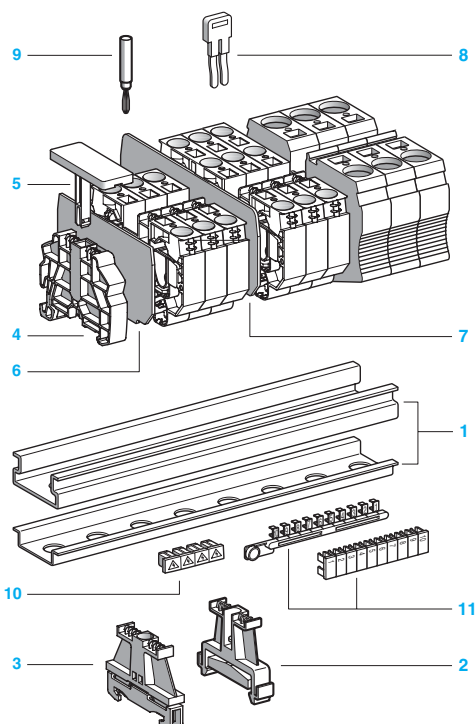
See the tables beginning on page 1/10.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2	50	AB1RRN1635U2GR	1.30 (35.8)
Blue	2	50	AB1RRN1635U2BL	1.30 (35.8)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNAC1642GR	0.19 (5.5)
		Blue	—	10	AB1RRNAC1642BL	0.19 (5.5)
7	Partition plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNAS1642GR	0.23 (6.6)
		Blue	—	10	AB1RRNAS1642BL	0.23 (6.6)
8	Insulated jumper 2-pole		—	10	AB1RRAL162	0.32 (9.0)
9	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
10	Terminal cover		4	10	AB1RRCS16	0.04 (1.2)
11	Marking accessories		See pages 5/2 and 5/3.			



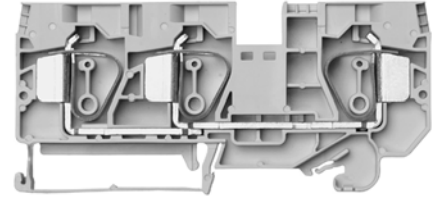
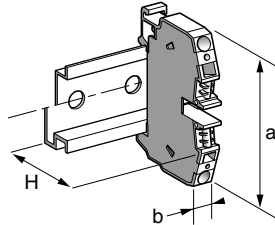
Terminal Blocks, Type AB1

Spring technology
Passthrough

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

16 mm²



Approximate dimensions, in. (mm)

1	Length (a)	4.20 (106.7)
	Width (b)	0.47 (12)
	Height (H)	2.28 (58)
	with $\frac{25}{8}$ rail	1.99 (50.5)

Wire size, mm²

Stranded without cable end	0.2–16
Stranded with cable end	0.2–16
Solid	0.2–25

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–76 A
UL File E164359 CCN XCFR2	16–4 AWG, 600 V, 85 A
CSA File 702070 Class 6228 01	16–4 AWG, 600 V, 85 A
UTE, category C	—
VDE, group C	800 V / 76 A

Certifications

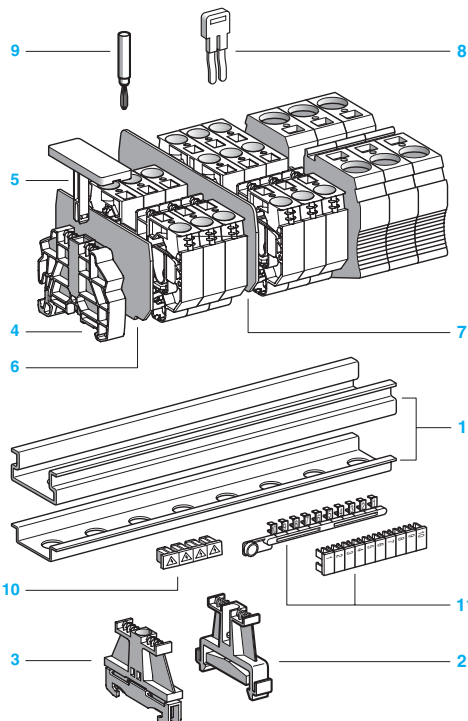
See the tables beginning on page 1/10.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	3	25	AB1RRN1635U3GR	1.90 (53.3)
Blue	3	25	AB1RRN1635U3BL	1.90 (53.3)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on 25 or 15	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on 25 or 15	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on 25 or 15	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Gray	—	10	AB1RRNAC1643GR	0.26 (7.3)
	thickness 0.06 in. (1.5 mm)	Blue	—	10	AB1RRNAC1643BL	0.26 (7.3)
7	Partition plate	Gray	—	10	AB1RRNAS1643GR	0.30 (8.6)
	thickness 0.06 in. (1.5 mm)	Blue	—	10	AB1RRNAS1643BL	0.30 (8.6)
8	Insulated jumper	2-pole	—	10	AB1RRAL162	0.32 (9.0)
9	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
10	Terminal cover		4	10	AB1RRCS16	0.04 (1.2)
11	Marking accessories		See pages 5/2 and 5/3.			



Terminal Blocks, Type AB1

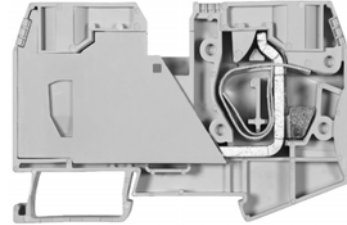
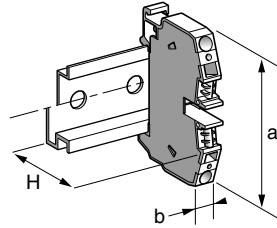
Spring technology

Passthrough

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

35 mm²



Approximate dimensions, in. (mm)

1	Length (a)	
	Width (b)	
	Height (H) $\frac{25}{8}$ rail	
	with $\frac{25}{8}$ rail	

AB1RRN3535U2**

3.93 (99.9)

0.63 (16)

2.63 (66.7)

2.33 (59.2)

Wire size, mm²

Stranded without cable end	
Stranded with cable end	
Solid	

2.5–35

2.5–35

2.5–35

Nominal electrical values

IEC/EN 60947-7-1	
UL File E164359 CCN XCFR2	
CSA File 702070 Class 6228 01	
UTE, category C	
VDE, group C	

800 V / 8 kV / 3–125 A

14–2 AWG, 600 V, 115 A

14–2 AWG, 600 V, 115 A

—

800 V / 120 A

Certifications

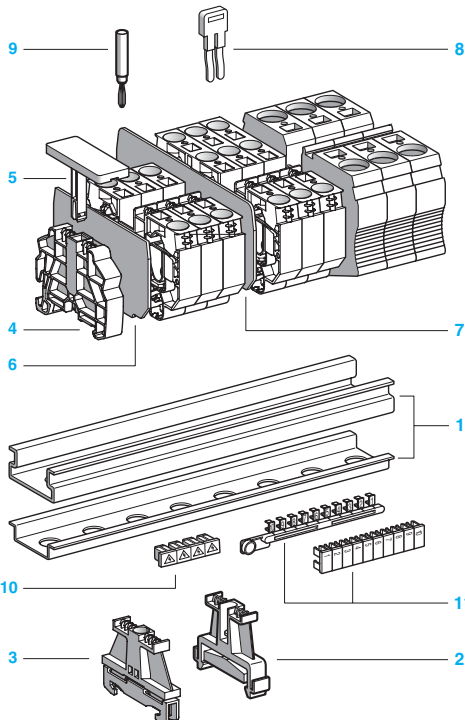
See the tables beginning on page 1/10.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2	10	AB1RRN3535U2GR	4.30 (122.5)
Blue	2	10	AB1RRN3535U2BL	4.30 (122.5)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Gray	—	—	—	—
		Blue	—	—	—	—
7	Partition plate thickness 0.06 in. (1.5 mm)	Gray	—	—	—	—
		Blue	—	—	—	—
8	Insulated jumper 2-pole		—	10	AB1RRAL352	0.61 (17.2)
9	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
10	Terminal cover		4	10	AB1RRCS35	0.01 (0.2)
11	Marking accessories		See pages 5/2 and 5/3.			



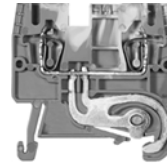
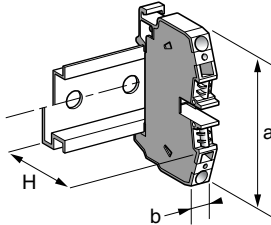
Terminal Blocks, Type AB1

Spring technology
Grounding type

Clip-on mounting on 35 mm $\Sigma 5$ rails

Nominal wire size

2.5 mm²



AB1RRNTP235U2

Approximate dimensions, in. (mm)

1	Length (a)	1.85 (47.1)
	Width (b)	0.20 (5)
	Height (H) $\Sigma 5$ rail	1.80 (45.6)
	with rail	1.50 (38.1)

Wire size, mm²

Stranded without cable end	0.13–2.5
Stranded with cable end	0.5–2.5
Solid	0.13–4

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–24 A
UL File E164359 CCN XCFR2	22–12 AWG, 600 V, 20 A
CSA File 702070 Class 6228 01	24–12 AWG, 600 V, 25 A
UTE, category C	—
VDE, group C	800 V, 24 A

Certifications

See the tables beginning on page 1/10.

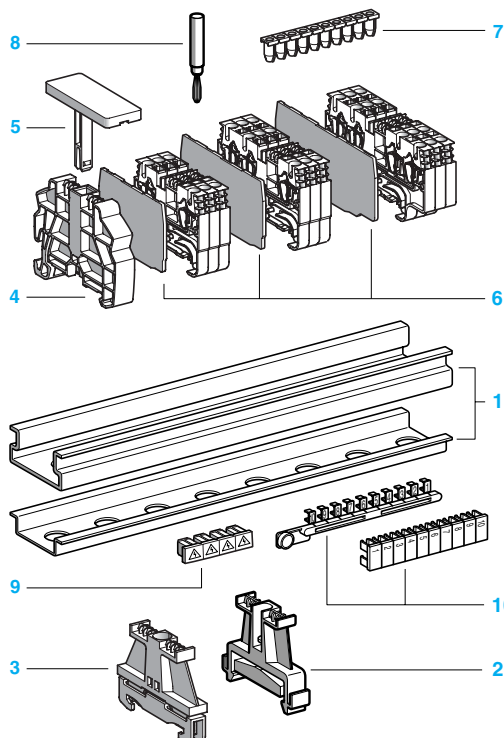
Terminal blocks

	No. of points	Sold in lots of	Catalog number	Weight oz (g)
Green/yellow	2	100	AB1RRNTP235U2	0.27 (7.6)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\Sigma 5$ or rail	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\Sigma 5$ or rail	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\Sigma 5$ or rail	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Green thickness 0.06 in. (1.5 mm)	—	10	AB1RRNTPAC242	0.08 (2.3)
7	Wire guide entry strip	0.13–0.2 mm ² White	—	100	AB1RRNGF01	0.03 (0.9)
		0.25–0.5 mm ² Gray	—	100	AB1RRNGF02	0.03 (0.9)
		0.75–1 mm ² Black	—	100	AB1RRNGF03	0.03 (0.9)
8	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
9	Terminal cover		4	10	AB1RRNCS2	0.01 (0.3)
10	Marking accessories		See pages 5/2 and 5/3.			

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Terminal Blocks, Type AB1

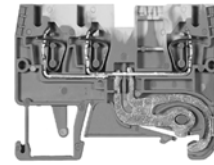
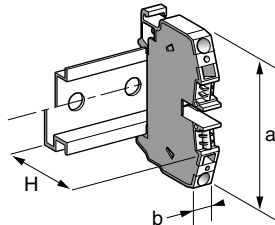
Spring technology

Grounding type

Clip-on mounting on 35 mm ± 5 rails

Nominal wire size

2.5 mm²



AB1RRNTP235U3

Approximate dimensions, in. (mm)

1	Length (a)	0.35 (59.7)
	Width (b)	0.20 (5)
	Height (H) ± 5 rail	1.80 (45.6)
	with ± 5 rail	1.50 (38.1)

Wire size, mm²

Stranded without cable end	0.13–2.5
Stranded with cable end	0.5–2.5
Solid	0.13–4

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–24 A
UL File E164359 CCN XCFR2	22–12 AWG, 600 V, 20 A
CSA File 702070 Class 6228 01	24–12 AWG, 600 V, 25 A
UTE, category C	—
VDE, group C	800 V, 24 A

Certifications

See the tables beginning on page 1/10.

Terminal blocks

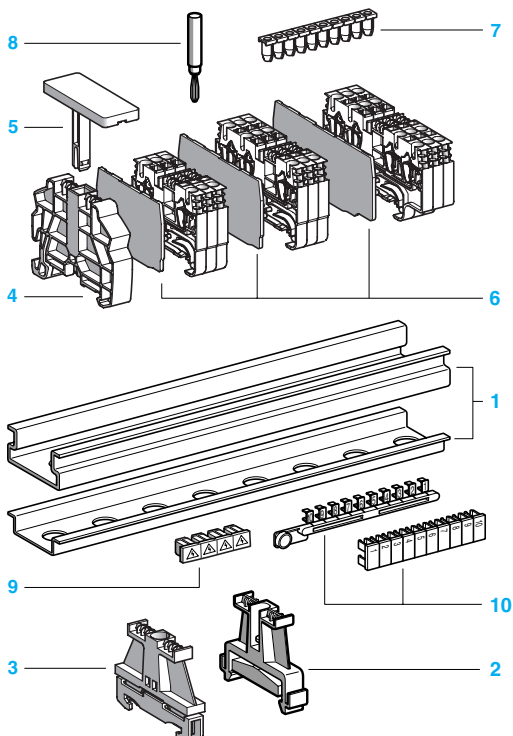
Green/yellow

No. of points	Sold in lots of	Catalog number	Weight oz (g)
3	100	AB1RRNTP235U3	0.34 (9.5)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Green, thickness 0.06 in. (1.5 mm)	—	10	AB1RRNTPAC243	0.10 (2.8)
7	Wire guide entry strip	0.13–0.2 mm ² White	—	100	AB1RRNGF01	0.03 (0.9)
		0.25–0.5 mm ² Gray	—	100	AB1RRNGF02	0.03 (0.9)
		0.75–1 mm ² Black	—	100	AB1RRNGF03	0.03 (0.9)
8	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
9	Terminal cover		4	10	AB1RRNCS2	0.01 (0.3)
10	Marking accessories		See pages 5/2 and 5/3.			

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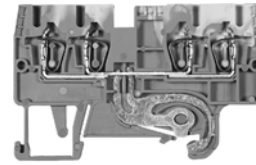
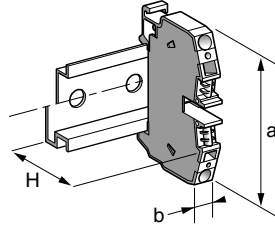
Terminal Blocks, Type AB1

Spring technology
Grounding type

Clip-on mounting on 35 mm $\frac{1}{2}$ rails

Nominal wire size

2.5 mm²



AB1RRNTP235U4

Approximate dimensions, in. (mm)

1	Length (a)	2.85 (72.4)
	Width (b)	0.20 (5)
	Height (H) on $\frac{1}{2}$ rail	1.80 (45.6)
	with $\frac{1}{2}$ rail	1.50 (38.1)

Wire size, mm²

Stranded without cable end	0.13–2.5
Stranded with cable end	0.5–2.5
Solid	0.13–4

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–24 A
UL File E164359 CCN XCFR2	22–12 AWG, 600 V, 20 A
CSA File 702070 Class 6228 01	24–12 AWG, 600 V, 25 A
UTE, category C	—
VDE, group C	800 V, 24 A

Certifications

See the tables beginning on page 1/10.

Terminal blocks

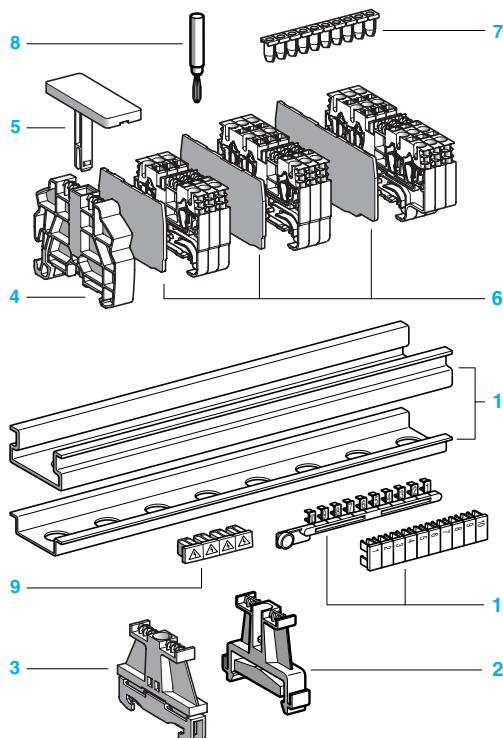
Green/yellow

No. of points	Sold in lots of	Catalog number	Weight oz (g)
4	100	AB1RRNTP235U4	0.40 (11.2)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{2}$ or $\frac{1}{4}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{2}$ or $\frac{1}{4}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{1}{2}$ or $\frac{1}{4}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Green thickness 0.06 in. (1.5 mm)	—	10	AB1RRNTPAC244	0.12 (3.4)
7	Wire guide entry strip	0.13–0.2 mm ² White	—	100	AB1RRNGF01	0.03 (0.9)
		0.25–0.5 mm ² Gray	—	100	AB1RRNGF02	0.03 (0.9)
		0.75–1 mm ² Black	—	100	AB1RRNGF03	0.03 (0.9)
8	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
9	Terminal cover		4	10	AB1RRNCS2	0.01 (0.3)
10	Marking accessories		See pages 5/2 and 5/3.			

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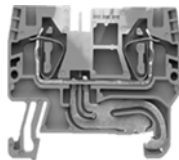
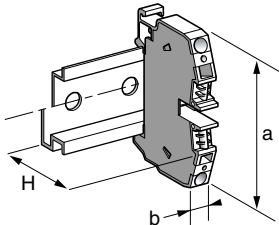
Terminal Blocks, Type AB1

Spring technology

Grounding type

Clip-on mounting on 35 mm $\frac{1}{4}$ rails

Nominal wire size	4 mm ²
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AB1RRNTP435U2

Approximate dimensions, in. (mm)		
Length (a)		2.01 (51)
Width (b)		0.24 (6)
Height (H)	$\frac{1}{4}$ rail	1.80 (45.65)
	with $\frac{1}{4}$ rail	1.50 (38.15)
Wire size, mm ²		
Stranded without cable end		0.13–4
Stranded with cable end		0.5–4
Solid		0.13–6
Nominal electrical values		
IEC/EN 60947-7-1		800 V / 8 kV / 3–32 A
UL	File E164359 CCN XCFR2	24–10 AWG, 600 V, 30 A
CSA	File 702070 Class 6228 01	24–10 AWG, 600 V, 32 A
UTE, category C		—
VDE, group C		800 V, 32 A

Certifications See the tables beginning on page 1/10.

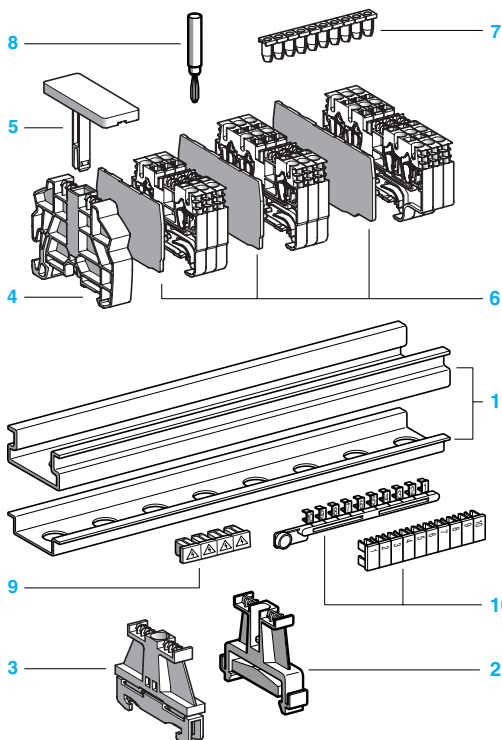
Terminal blocks

	No. of points	Sold in lots of	Catalog number	Weight oz (g)
Green/yellow	2	100	AB1RRNTP435U2	0.34 (9.5)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Green thickness 0.06 in. (1.5 mm)	—	10	AB1RRNTPAC442	0.09 (2.5)
7	Wire guide entry strip	0.13–0.2 mm ² White 0.25–0.5 mm ² Gray 0.75–1 mm ² Black	—	100	AB1RRNGF11	0.03 (0.8)
			—	100	AB1RRNGF22	0.03 (0.8)
			—	100	AB1RRNGF33	0.03 (0.8)
8	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
9	Terminal cover		4	100	AB1RRCS4	0.01 (0.4)
10	Marking accessories		See pages 5/2 and 5/3.			

524013



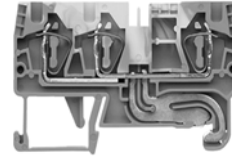
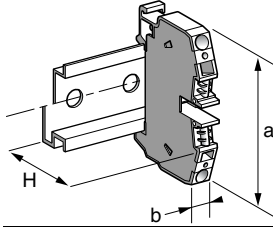
Terminal Blocks, Type AB1

Spring technology
Grounding type

Clip-on mounting on 35 mm ± 5 rails

Nominal wire size

4 mm²



AB1RRNTP435U3

Approximate dimensions, in. (mm)

1	Length (a)	2.62 (66.6)
	Width (b)	0.24 (6)
	Height (H) ± 5 rail	1.80 (45.65)
	with ± 5 rail	1.50 (38.15)

Wire size, mm²

Stranded without cable end	0.13–4
Stranded with cable end	0.5–4
Solid	0.13–6

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–32 A
UL File E164359 CCN XCFR2	24–10 AWG, 600 V, 30 A
CSA File 702070 Class 6228 01	24–10 AWG, 600 V, 32 A
UTE, category C	—
VDE, group C	800 V, 32 A

Certifications

See the tables beginning on page 1/10.

Terminal blocks

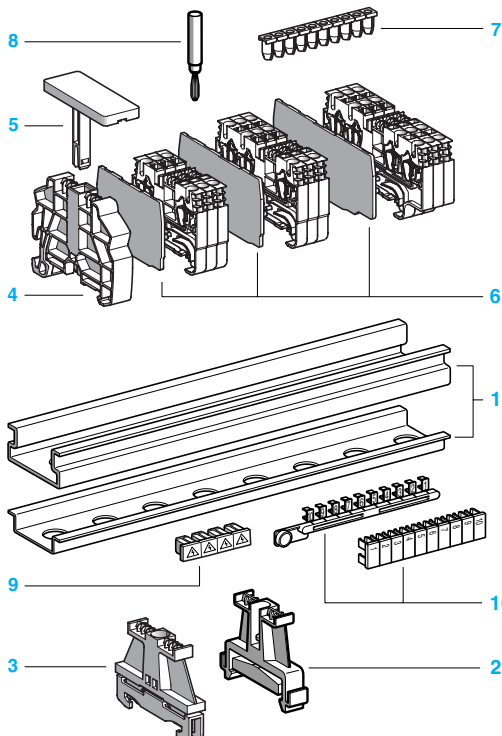
Green/yellow

No. of points	Sold in lots of	Catalog number	Weight oz (g)
3	100	AB1RRNTP435U3	0.43 (12.3)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Green thickness 0.06 in. (1.5 mm)	—	10	AB1RRNTPAC443	0.11 (3.2)
7	Wire guide entry strip	0.13–0.2 mm ² White	—	100	AB1RRNGF11	0.03 (0.8)
		0.25–0.5 mm ² Gray	—	100	AB1RRNGF22	0.03 (0.8)
		0.75–1 mm ² Black	—	100	AB1RRNGF33	0.03 (0.8)
8	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
9	Terminal cover		4	100	AB1RRCS4	0.01 (0.4)
10	Marking accessories		See pages 5/2 and 5/3.			

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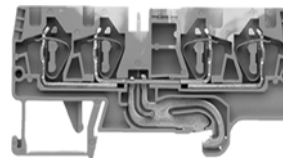
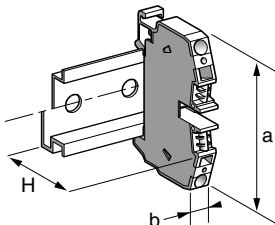
Terminal Blocks, Type AB1

Spring technology
Grounding type

Clip-on mounting on 35 mm $\frac{1}{4}$ rails

Nominal wire size

4 mm²



AB1RRNT435U4

Approximate dimensions, in. (mm)

1	Length (a)	3.24 (82.2)
	Width (b)	0.24 (6)
	Height (H)	1.80 (45.65)
	with $\frac{1}{4}$ rail	1.50 (38.15)

Wire size, mm²

Stranded without cable end	0.13–4
Stranded with cable end	0.5–4
Solid	0.13–6

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–32 A
UL File E164359 CCN XCFR2	24–10 AWG, 600 V, 30 A
CSA File 702070 Class 6228 01	24–10 AWG, 600 V, 32 A
UTE, category C	—
VDE, group C	800 V, 32 A

Certifications

See the tables beginning on page 1/10.

Terminal blocks

	No. of points	Sold in lots of	Catalog number	Weight oz (g)
Green/yellow	4	100	AB1RRNT435U4	0.53 (15.1)

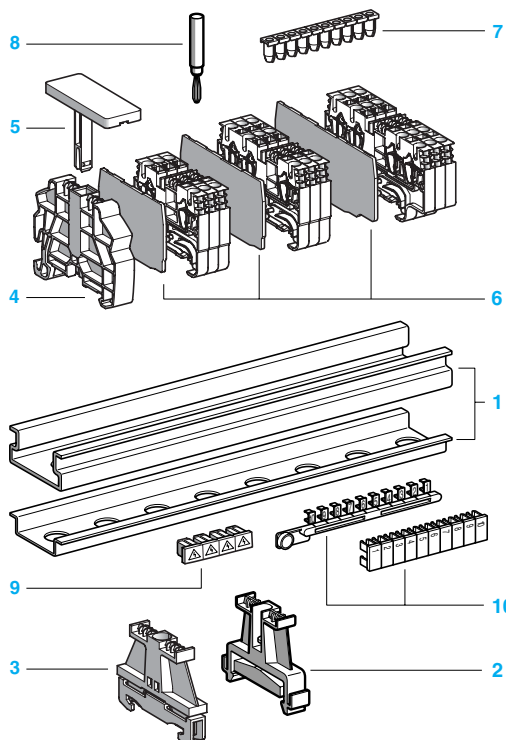
Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8P35	0.21 (5.9)	
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8M35	0.52 (14.8)	
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8R35	0.21 (5.9)	
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)	
6	End plate	thickness 0.06 in. (1.5 mm)	Green	—	10	AB1RRNTPAC444	0.13 (3.8)
7	Wire guide entry strip	0.13–0.2 mm ²	White	—	100	AB1RRNGF11	0.03 (0.8)
		0.25–0.5 mm ²	Gray	—	100	AB1RRNGF22	0.03 (0.8)
		0.75–1 mm ²	Black	—	100	AB1RRNGF33	0.03 (0.8)
8	Test plug		Red	—	10	AB1AT1	0.07 (1.9)
9	Terminal cover			4	100	AB1RRCS4	0.01 (0.4)
10	Marking accessories						

See pages 5/2 and 5/3.

See pages 5/2 and 5/3.

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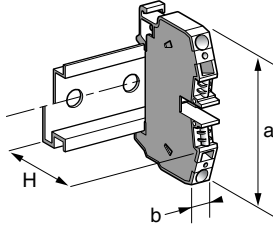
Terminal Blocks, Type AB1

Spring technology
Grounding type

Clip-on mounting on 35 mm $\frac{1}{2}$ rails

Nominal wire size

6 mm²



AB1RRNTP635U2

Approximate dimensions, in. (mm)

1	Length (a)	2.60 (66)
	Width (b)	0.31 (8)
	Height (H) $\frac{1}{2}$ rail	2.05 (52.05)
	with $\frac{1}{2}$ rail	1.75 (44.55)

Wire size, mm²

Stranded without cable end	0.2–6
Stranded with cable end	0.2–6
Solid	0.2–10

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 41 A
UL File E164359 CCN XCFR2	24–8 AWG, 600 V, 50 A
CSA File 702070 Class 6228 01	24–8 AWG, 600 V, 41 A
UTE, category C	—
VDE, group C	800 V, 41 A

Certifications

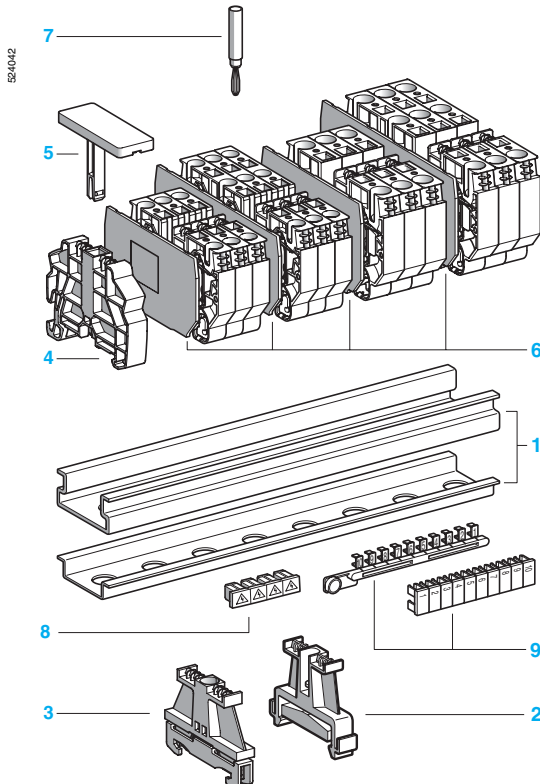
See the tables beginning on page 1/10.

Terminal blocks

	No. of points	Sold in lots of	Catalog number	Weight oz (g)
Green/yellow	2	50	AB1RRNTP635U2	0.71 (20.2)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{2}$ or $\frac{1}{4}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{2}$ or $\frac{1}{4}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{1}{2}$ or $\frac{1}{4}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Green thickness 0.06 in. (1.5 mm)	—	10	AB1RRNTPAC642	0.14 (4.0)
7	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
8	Terminal cover		4	10	AB1RRCS6	0.01 (0.4)
9	Marking accessories		See pages 5/2 and 5/3.			



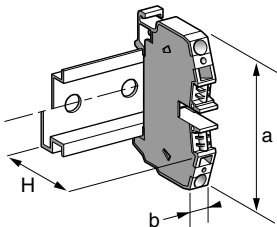
Terminal Blocks, Type AB1

Spring technology
Grounding type

Clip-on mounting on 35 mm $\frac{1}{4}$ rails

Nominal wire size

6 mm²



AB1RRNTTP635U3

Approximate dimensions, in. (mm)

1	Length (a)	3.54 (90)
	Width (b)	0.31 (8)
	Height (H) $\frac{1}{4}$ rail	2.05 (52.05)
	with $\frac{1}{4}$ rail	1.75 (44.55)

Wire size, mm²

Stranded without cable end	0.2–6
Stranded with cable end	0.2–6
Solid	0.2–10

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 41 A
UL File E164359 CCN XCFR2	24–8 AWG, 600 V, 50 A
CSA File 702070 Class 6228 01	24–8 AWG, 600 V, 41 A
UTE, category C	—
VDE, group C	800 V, 41 A

Certifications

See the tables beginning on page 1/10.

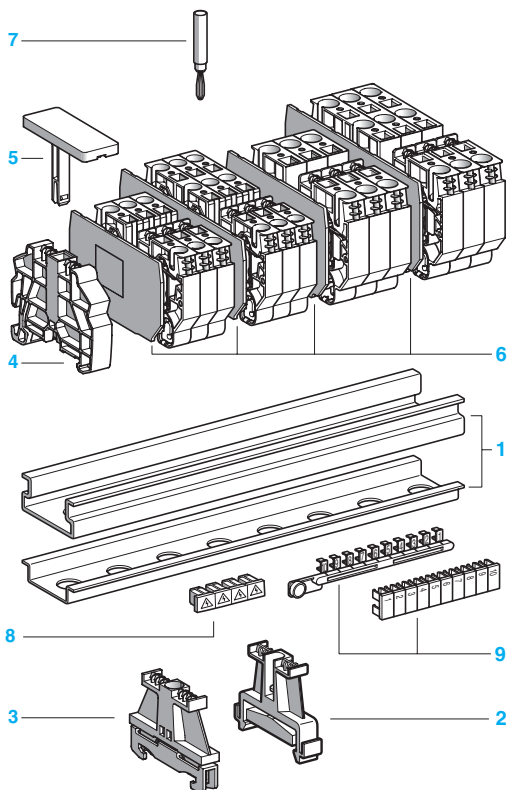
Terminal blocks

	No. of points	Sold in lots of	Catalog number	Weight oz (g)
Green/yellow	3	50	AB1RRNTTP635U3	0.98 (27.8)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Green	—	10	AB1RRNTTPAC643	0.18 (5.2)
7	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
8	Terminal cover		4	10	AB1RRCS6	0.01 (0.4)
9	Marking accessories		See pages 5/2 and 5/3.			

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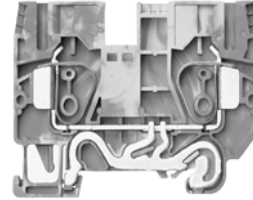
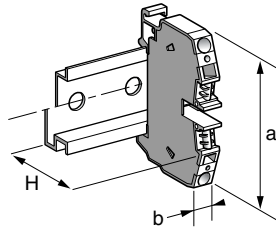
Terminal Blocks, Type AB1

Spring technology
Grounding type

Clip-on mounting on 35 mm $\frac{1}{2}$ rails

Nominal wire size

10 mm²



AB1RRNTP1035U2

Approximate dimensions, in. (mm)

Length (a)	2.85 (72.5)
Width (b)	0.39 (10)
Height (H) $\frac{1}{2}$ rail	2.28 (58)
with $\frac{1}{2}$ rail	1.99 (50.5)

Wire size, mm²

Stranded without cable end	0.2–10
Stranded with cable end	0.2–10
Solid	0.2–16

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 57 A
UL File E164359 CCN XCFR2	16–6 AWG, 600 V, 60 A
CSA File 702070 Class 6228 01	16–6 AWG, 600 V, 65 A
UTE, category C	—
VDE, group C	800 V, 57 A

Certifications

See the tables beginning on page 1/10.

Terminal blocks

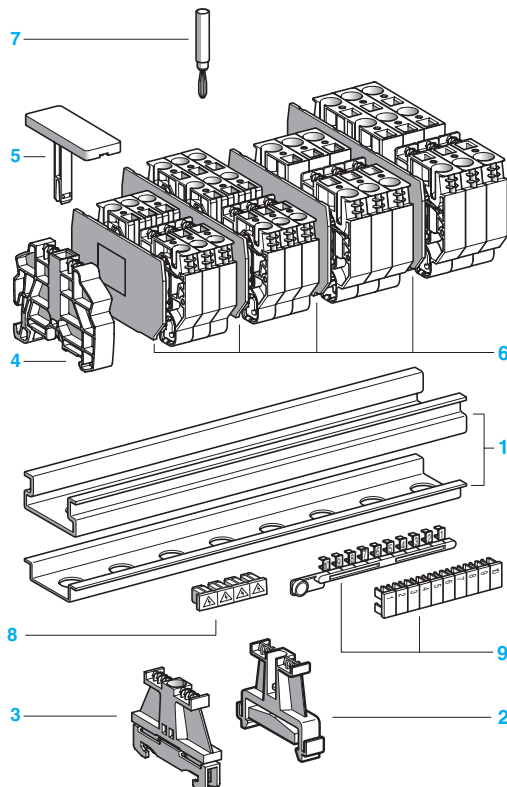
Green/yellow

No. of points	Sold in lots of	Catalog number	Weight, g (oz)
2	50	AB1RRNTP1035U2	1.18 (33.5)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{2}$ or $\frac{1}{4}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{2}$ or $\frac{1}{4}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{1}{2}$ or $\frac{1}{4}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Green thickness 0.06 in. (1.5 mm)	—	10	AB1RRNTPAC1042	0.18 (5.1)
7	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
8	Terminal cover		4	100	AB1RRCS10	0.03 (0.8)
9	Marking accessories		See pages 5/2 and 5/3.			

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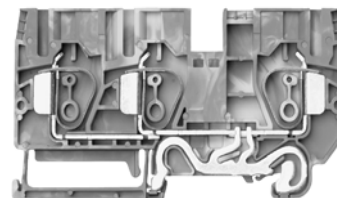
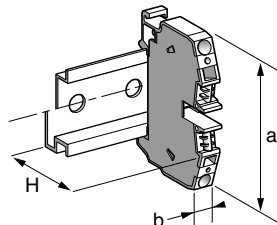
Terminal Blocks, Type AB1

Spring technology
Grounding type

Clip-on mounting on 35 mm $\frac{1}{4}$ rails

Nominal wire size

10 mm²



AB1RRNTP1035U3

Approximate dimensions, in. (mm)

Length (a) 3.86 (98)

Width (b) 0.39 (10)

Height (H) $\frac{1}{4}$ rail 2.28 (58)

with $\frac{1}{4}$ rail 1.99 (50.5)

Wire size, mm²

Stranded without cable end 0.2–10

Stranded with cable end 0.2–10

Solid 0.2–16

Nominal electrical values

IEC/EN 60947-7-1 800 V / 8 kV / 57 A

UL File E164359 16–6 AWG, 600 V, 60 A

CCN XCFR2

CSA File 702070 16–6 AWG, 600 V, 65 A

Class 6228 01

UTE, category C

VDE, group C 800 V, 57 A

Certifications

See the tables beginning on page 1/10.

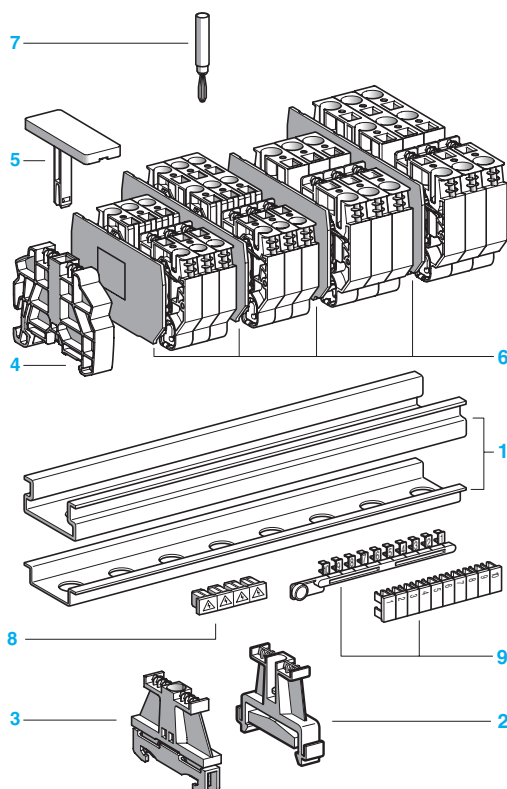
Terminal blocks

	No. of points	Sold in lots of	Catalog number	Weight oz (g)
Green/yellow	3	50	AB1RRNTP1035U3	1.57 (44.4)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	thickness 0.06 in. (1.5 mm) Green	—	10	AB1RRNTPAC1043	0.24 (6.7)
7	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
8	Terminal cover		4	10	AB1RRCS10	0.03 (0.8)
9	Marking accessories		See pages 5/2 and 5/3.			

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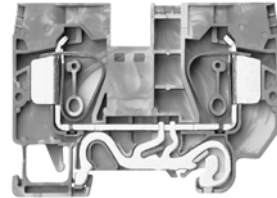
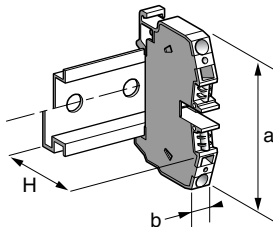
Terminal Blocks, Type AB1

Spring technology
Grounding type

Clip-on mounting on 35 mm $\underline{2.5}$ rails

Nominal wire size

16 mm²



AB1RRNTP1635U2

Approximate dimensions, in. (mm)

1	Length (a)	3.11 (79.1)
	Width (b)	0.47 (12)
	Height (H) $\underline{2.5}$ rail	2.28 (58)
	with $\underline{2.5}$ rail	1.99 (50.5)

Wire size, mm²

Stranded without cable end	0.2–16
Stranded with cable end	0.2–16
Solid	0.2–25

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 76 A
UL File E164359 CCN XCFR2	16–4 AWG, 600 V, 85 A
CSA File 702070 Class 6228 01	16–4 AWG, 600 V, 85 A
UTE, category C	—
VDE, group C	800 V, 76 A

Certifications

See the tables beginning on page 1/10.

Terminal blocks

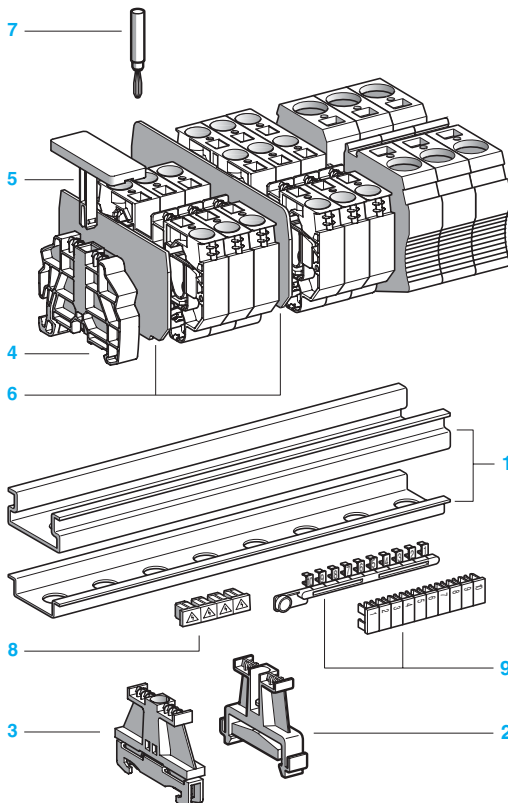
Green/yellow

No. of points	Sold in lots of	Catalog number	Weight oz (g)
2	50	AB1RRNTP1635U2	1.56 (44.1)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\underline{2.5}$ or $\underline{2.5}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\underline{2.5}$ or $\underline{2.5}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\underline{2.5}$ or $\underline{2.5}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Green thickness 0.06 in. (1.5 mm)	—	10	AB1RRNTPAC1642	0.19 (5.5)
7	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
8	Terminal cover		4	10	AB1RRCS16	0.04 (1.2)
9	Marking accessories		See pages 5/2 and 5/3.			

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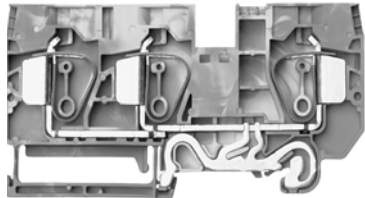
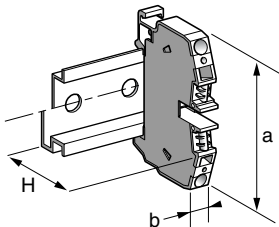
Terminal Blocks, Type AB1

Spring technology

Grounding type

Clip-on mounting on 35 mm 25 rails

Nominal wire size	16 mm ²
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AB1RRNTP1635U3

Approximate dimensions, in. (mm)	
Length (a)	4.2 (106.7)
Width (b)	0.47 (12)
Height (H)	25 rail
	with rail
	1.99 (50.5)
Wire size, mm ²	
Stranded without cable end	0.2–16
Stranded with cable end	0.2–16
Solid	0.2–25
Nominal electrical values	
IEC/EN 60947-7-1	800 V / 8 kV / 76 A
UL File E164359 CCN XCFR2	16–4 AWG, 600 V, 85 A
CSA File 702070 Class 6228 01	16–4 AWG, 600 V, 85 A
UTE, category C	—
VDE, group C	800 V, 76 A
Certifications	
See the tables beginning on page 1/10.	

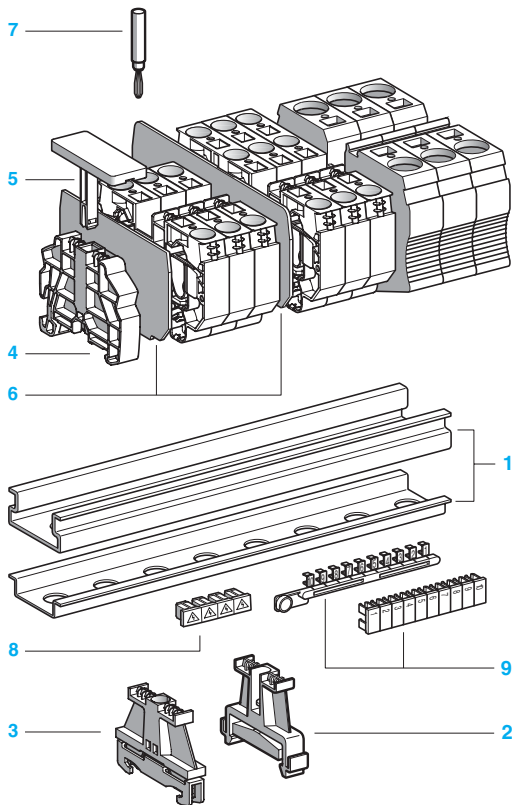
Terminal blocks

	No. of points	Sold in lots of	Catalog number	Weight oz (g)
Green/yellow	3	25	AB1RRNTP1635U3	2.21 (62.6)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on 25 or rail	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on 25 or rail	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on 25 or rail	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Green	—	10	AB1RRNTPAC1643	0.26 (7.3)
7	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
8	Terminal cover		4	10	AB1RRCS16	0.04 (1.2)
9	Marking accessories		See pages 5/2 and 5/3.			

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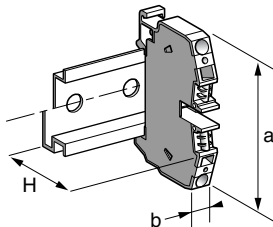
Terminal Blocks, Type AB1

Spring technology
Grounding type

Clip-on mounting on 35 mm $\underline{2.5}$ rails

Nominal wire size

35 mm²



AB1RRNTP3535U2

Approximate dimensions, in. (mm)

1	Length (a)	3.93 (99.9)
	Width (b)	0.63 (16)
	Height (H) $\underline{2.5}$ rail	2.63 (66.7)
	with $\underline{2.5}$ rail	2.33 (59.2)

Wire size, mm²

Stranded without cable end	2.5–35
Stranded with cable end	2.5–35
Solid	2.5–35

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–125 A
UL File E164359 CCN XCFR2	14–2 AWG, 600 V, 120 A
CSA File 702070 Class 6228 01	14–2 AWG, 600 V, 120 A
UTE, category C	—
VDE, group C	800 V, 120 A

Certifications

See the tables beginning on page 1/10.

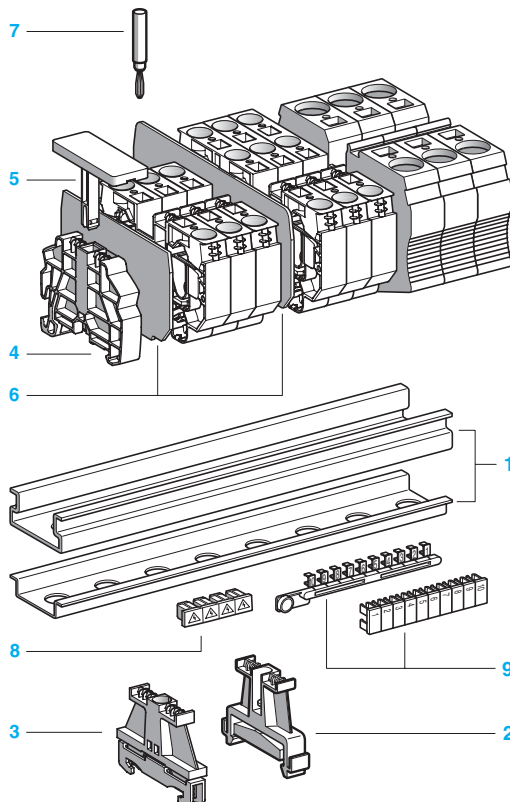
Terminal blocks

	No. of points	Sold in lots of	Catalog number	Weight oz (g)
Green/yellow	2	10	AB1RRNTP3535U2	5.24 (148.5)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\underline{2.5}$ or $\underline{2.5}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\underline{2.5}$ or $\underline{2.5}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\underline{2.5}$ or $\underline{2.5}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Green	—	—	—	—
7	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
8	Terminal cover		4	10	AB1RRCS35	0.01 (0.2)
9	Marking accessories		See pages 5/2 and 5/3.			

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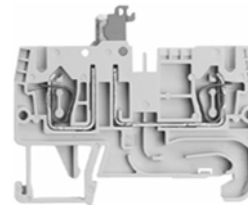
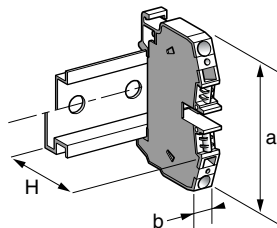
Terminal Blocks, Type AB1

Spring technology
Blade disconnect type

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

2.5 mm²



AB1RRNSC235U2

Approximate dimensions, in. (mm)

1	Length (a)	2.85 (59.75)
	Width (b)	0.20 (5)
	Height (H) $\frac{25}{8}$ rail	1.8 (45.6) + 0.38 (9.6) for open switch
	with $\frac{25}{8}$ rail	1.5 (38.1) + 0.38 (9.6) for open switch

Wire size, mm²

Stranded without cable end	0.13–2.5
Stranded with cable end	0.5–2.5
Solid	0.13–4

Nominal electrical values

IEC/EN 60947-7-1	630 V / 6 kV / 3–20 A
UL File E164359 CCN XCFR2	24–12 AWG, 300 V, 19 A
CSA File 702070 Class 6228 01	24–12 AWG, 300 V, 20 A
UTE, category C	—
VDE, group C	630 V / 20 A

Certifications

See the tables beginning on page 1/10.

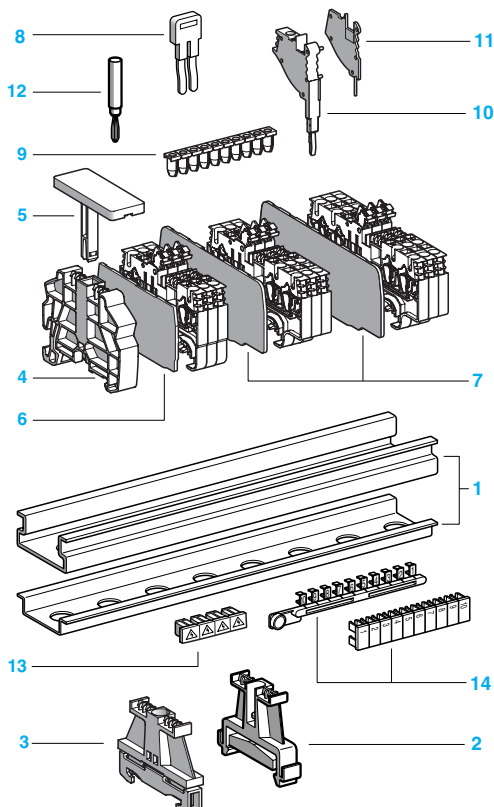
Terminal blocks

No. points	Sold in lots of	Catalog number	Weight oz (g)
2	100	AB1RRNSC235U2	0.27 (7.7)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Gray thickness 0.06 in. (1.5 mm)	—	10	AB1RRNAC243GR	0.10 (2.8)
7	Partition plate	Gray thickness 0.06 in. (1.5 mm)	—	10	AB1RRNAS243GR	0.12 (3.4)
8	Insulated jumper	2-pole	—	10	AB1RRAL22	0.04 (1.1)
		3-pole	—	10	AB1RRAL23	0.06 (1.7)
		4-pole	—	10	AB1RRAL24	0.08 (2.2)
		5-pole	—	10	AB1RRAL25	0.10 (2.8)
		10-pole	—	20	AB1RRAL210	0.20 (5.6)
9	Wire guide entry strip	0.13–0.2 mm ² White	—	100	AB1RRNGF01	0.03 (0.9)
		0.25–0.5 mm ² Gray	—	100	AB1RRNGF02	0.03 (0.9)
		0.75–1 mm ² Black	—	100	AB1RRNGF03	0.03 (0.9)
10	Modular test connector	Gray	—	10	AB1AT3	0.08 (2.4)
11	Modular test connector end plate		—	10	AB1AC3	0.01 (0.4)
12	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
13	Terminal cover		—	10	AB1RRNCS2	0.01 (0.3)
14	Marking accessories					

See pages 5/2 and 5/3.



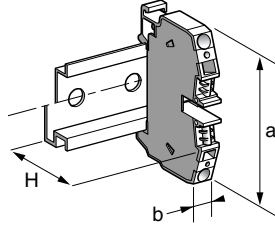
Terminal Blocks, Type AB1

Spring technology
Blade disconnect type

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

2.5 mm²



Approximate dimensions, in. (mm)

1	Length (a)	
	Width (b)	
	Height (H)	$\frac{25}{8}$ rail
		with $\frac{25}{8}$ rail

Wire size, mm²

Stranded without cable end
Stranded with cable end
Solid

Nominal electrical values

IEC/EN 60947-7-1
UL File E164359 CCN XCFR2
CSA File 702070 Class 6228 01
UTE, category C
VDE, group C

AB1RRNSC235U3

2.85 (72.4)
0.20 (5)
1.8 (45.6) + 0.38 (9.6) for open switch
1.5 (38.1) + 0.38 (9.6) for open switch

0.13–2.5

0.5–2.5

0.13–4

630 V / 6 kV / 3–20 A

24–12 AWG, 300 V, 19 A

24–12 AWG, 300 V, 20 A

—

630 V / 20 A

Certifications

See the tables beginning on page 1/10.

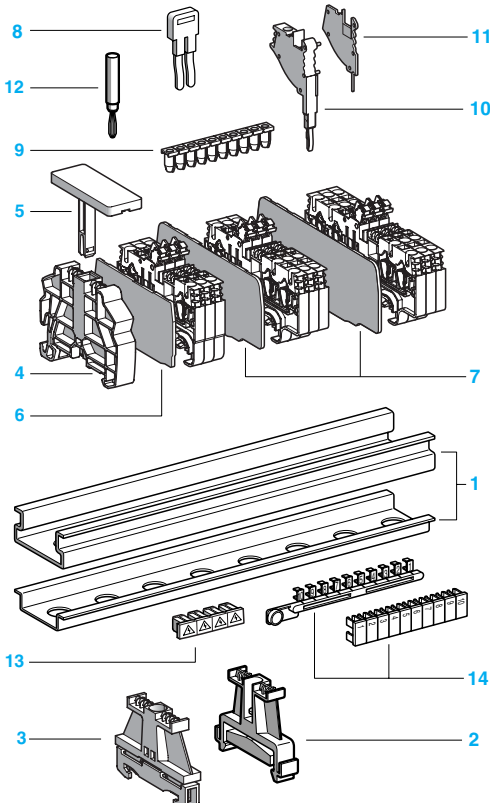
Terminal blocks

Gray

No. points	Sold in lots of	Catalog number	Weight oz (g)
3	100	AB1RRNSC235U3	0.33 (9.3)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Gray thickness 0.06 in. (1.5 mm)	—	10	AB1RRNAC244GR	0.12 (3.4)
7	Partition plate	Gray thickness 0.06 in. (1.5 mm)	—	10	AB1RRNAS244GR	0.13 (3.6)
8	Insulated jumper	2-pole	—	10	AB1RRAL22	0.04 (1.1)
		3-pole	—	10	AB1RRAL23	0.06 (1.7)
		4-pole	—	10	AB1RRAL24	0.08 (2.2)
		5-pole	—	10	AB1RRAL25	0.10 (2.8)
		10-pole	—	20	AB1RRAL210	0.20 (5.6)
9	Wire guide entry strip	0.13–0.2 mm ² White	—	100	AB1RRNGF01	0.03 (0.9)
		0.25–0.5 mm ² Gray	—	100	AB1RRNGF02	0.03 (0.9)
		0.75–1 mm ² Black	—	100	AB1RRNGF03	0.03 (0.9)
10	Modular test connector	Gray	—	10	AB1AT3	0.08 (2.4)
11	Modular test connector end plate	Gray	—	10	AB1AC3	0.01 (0.4)
12	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
13	Terminal cover		4	10	AB1RRNCS2	0.01 (0.3)
14	Marking accessories		See pages 5/2 and 5/3.			



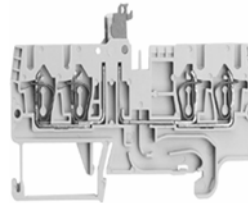
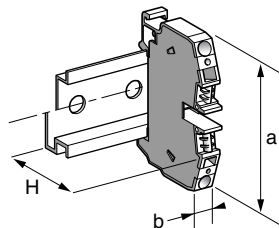
Terminal Blocks, Type AB1

Spring technology
Blade disconnect type

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

2.5 mm²



Approximate dimensions, in. (mm)

1	Length (a)	
	Width (b)	
	Height (H)	$\frac{25}{8}$ rail
		with $\frac{25}{8}$ rail

Wire size, mm²

Stranded without cable end	0.13–2.5
Stranded with cable end	0.5–2.5
Solid	0.13–4

Nominal electrical values

IEC/EN 60947-7-1	630 V / 6 kV / 3–20 A
UL File E164359 CCN XCFR2	24–12 AWG, 300 V, 19 A
CSA File 702070 Class 6228 01	24–12 AWG, 300 V, 20 A
UTE, category C	—
VDE, group C	630 V / 20 A

Certifications

See the tables beginning on page 1/10.

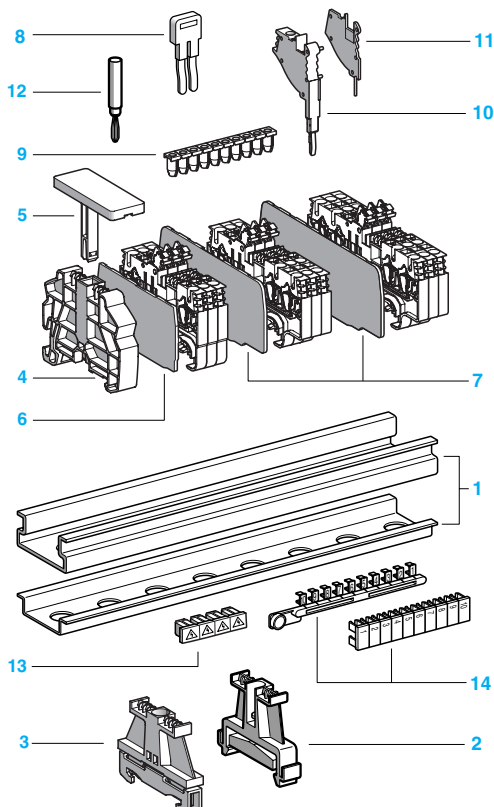
Terminal blocks

No. points	Sold in lots of	Catalog number	Weight oz (g)
4	100	AB1RRNSC235U4	0.39 (11.0)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNAC245GR	0.14 (3.9)
7	Partition plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNAS245GR	0.17 (4.8)
8	Insulated jumper	2-pole	—	10	AB1RRAL22	0.04 (1.1)
		3-pole	—	10	AB1RRAL23	0.06 (1.7)
		4-pole	—	10	AB1RRAL24	0.08 (2.2)
		5-pole	—	10	AB1RRAL25	0.10 (2.8)
		10-pole	—	20	AB1RRAL210	0.20 (5.6)
9	Wire guide entry strip	0.13–0.2 mm ² White	—	100	AB1RRNGF01	0.03 (0.9)
		0.25–0.5 mm ² Gray	—	100	AB1RRNGF02	0.03 (0.9)
		0.75–1 mm ² Black	—	100	AB1RRNGF03	0.03 (0.9)
10	Modular test connector	Gray	—	10	AB1AT3	0.08 (2.4)
11	Modular test connector end plate		—	10	AB1AC3	0.01 (0.4)
12	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
13	Terminal cover		—	4	AB1RRNCS2	0.01 (0.3)
14	Marking accessories					

See pages 5/2 and 5/3.



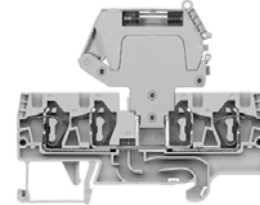
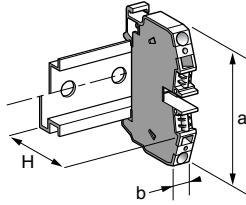
Terminal Blocks, Type AB1

Spring technology
Disconnect (removable carrier)
for diode or cylindrical fuse

Clip-on mounting on 35 mm $\frac{1}{4}$ rails

Nominal wire size

4 mm²



AB1RRNSF435UGR

Approximate dimensions, in. (mm)

1	Length (a)	3.24 (82.2)
	Width (b)	0.24 (6)
	Height (H) $\frac{1}{4}$ rail	1.80 (45.65)
	with $\frac{1}{4}$ rail	1.50 (38.15)

Wire size, mm²

Stranded without cable end	0.13–4
Stranded with cable end	0.5–4
Solid	0.13–6

Nominal electrical values (1), (2)

IEC/EN 60947-7-1	500 V / 6 kV
UL File E164359	Pending
CCN XCFR2	
CSA File 702070	Pending
Class 6228 01	
UTE, category C	—
VDE, group C	—

Certifications

See the tables beginning on page 1/10.

Terminal Blocks (3)

		No. points	Sold in lots of	Catalog number	Weight oz (g)
8	Removable carrier	4	100	AB1RRNSF435UGR	0.46 (13.1)
	Gray	—	100	AB1SV1	0.16 (4.5)
	For diode or resistor	—	100	AB1SV2	0.17 (4.7)
	With diode 1N4007.1	—	100	AB1SF520	0.16 (4.4)
	Removable carrier (for 5x20 fuse)	—	100	AB1SF520B	0.17 (4.7)
	For fuse only	—	100	AB1SF520M	0.17 (4.7)
	With 24 V red LED	—	100	AB1SF520D	0.21 (6.0)
	With 220 V red LED	—	100	AB1SF6332D	0.29 (8.2)
	Removable carrier and pivoting	—	100		
	For 5 x 20 fuse				
	For 6.3 x 32 fuse				

Accessories

2	End clamp + Plastic	—	100	AB1AB8P35	0.21 (5.9)		
3	screw (4) Metal	—	100	AB1AB8M35	0.52 (14.8)		
4	Clip-on plastic end clamp (4)	—	100	AB1AB8R35	0.21 (5.9)		
5	Marker tag holder for clip-on plastic end clamp	—	10	AB1SB4	0.11 (3.1)		
6	End plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNAC444GR	0.13 (3.8)	
7	Partition plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNAS444GR	0.17 (4.8)	
9	Insulated jumper (5)		—	—	AB1RRAL4•	—	
10	Wire guide	0.13–0.2 mm ²	White	—	100	AB1RRNGF11	0.03 (0.8)
	entry strip	0.25–0.5 mm ²	Gray	—	100	AB1RRNGF22	0.03 (0.8)
		0.75–1 mm ²	Black	—	100	AB1RRNGF33	0.03 (0.8)
11	Test plug	Red	—	50	AB1AT1	0.07 (1.9)	
12	Terminal cover		4	100	AB1RRCS4	0.01 (0.4)	
13	Marking accessories	See pages 5/2 and 5/3.					

Carrier characteristics	Nominal voltage (Power loss 1.5 W)	Position of terminal block	
		End	Juxtaposed
	250 V	6.3 A	4 A
Blown fuse indicator characteristics	Catalog number	Nominal voltage	Current consumption
	AB1SF520B	24 V	10.3 mA
	AB1SF520M	220–250 V	0.3 mA

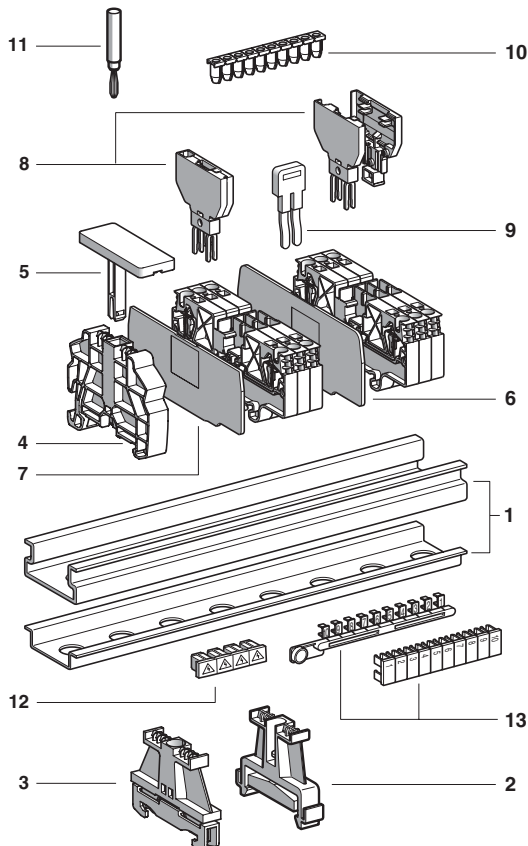


Table Footnotes:

- (1) The voltage/current carrying capacity is determined by the component (fuse and/or diode) used.
(2) Repetitive peak reverse voltage for diodes is 1000 V.
(3) Fuses and diodes not included, except for AB1SV2.
(4) Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$ rails.
(5) Replace the • symbol with the number of poles (2, 3, 4, 5, or 10), for example, AB1RRAL45 (5-pole).

Terminal Blocks, Type AB1

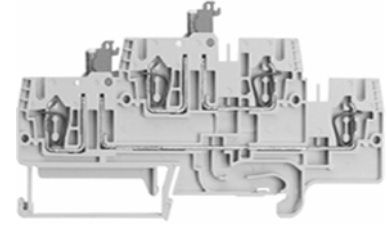
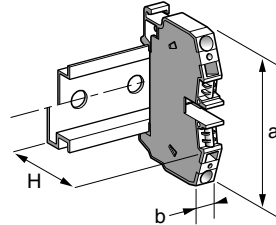
Spring technology

Double deck blade disconnect type

Clip-on mounting on 35 mm Σ rails

Nominal wire size

2.5 mm²



Approximate dimensions, in. (mm)

1	Length (a)	4.23 (107.5)
	Width (b)	0.20 (5)
	Height (H) Σ rail	2.20 (55.9) + 0.38 (9.6) for open switch
	with Σ rail	1.91 (48.5) + 0.38 (9.6) for open switch

Wire size, mm²

1	Stranded without cable end	0.5–2.5
	Stranded with cable end	0.5–2.5
	Solid	0.5–4

Nominal electrical values

1	IEC/EN 60947-7-1	500 V / 8 kV / 3–19 A
	UL File E164359	24–12 AWG, 300 V, 19 A
	CCN XCFR2	
	CSA File 702070	24–12 AWG, 300 V, 19 A
	Class 6228 01	
	UTE, category C	—
1	VDE, group C	500 V / 19 A

Certifications

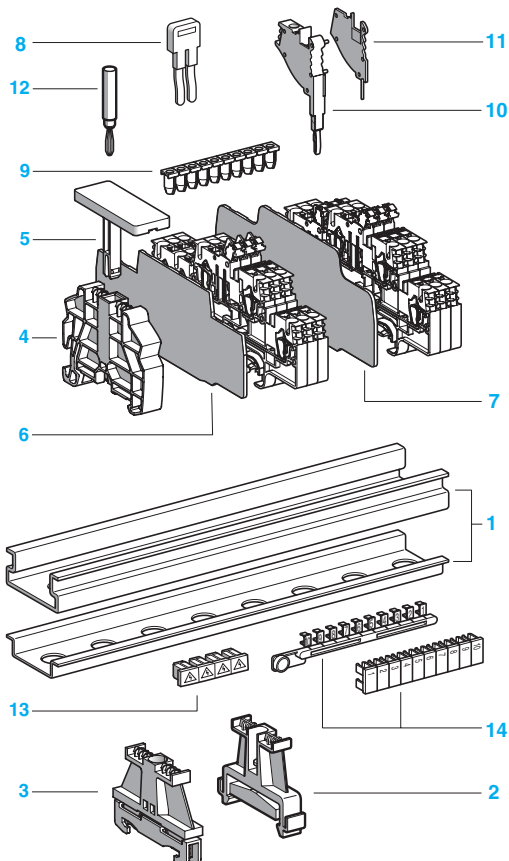
See the tables beginning on page 1/10.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2/2	50	AB1RRNSCE235U4	0.57 (16.2)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on Σ or Σ	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on Σ or Σ	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on Σ or Σ	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNACE246	0.20 (5.7)
7	Partition plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNASE246	0.35 (9.8)
8	Insulated jumper	2-pole	—	10	AB1RRAL22	0.04 (1.1)
		3-pole	—	10	AB1RRAL23	0.06 (1.7)
		4-pole	—	10	AB1RRAL24	0.08 (2.2)
		5-pole	—	10	AB1RRAL25	0.10 (2.8)
		10-pole	—	20	AB1RRAL210	0.20 (5.6)
9	Wire guide entry strip	0.13–0.2 mm ² White	—	100	AB1RRNGF01	0.03 (0.9)
		0.25–0.5 mm ² Gray	—	100	AB1RRNGF02	0.03 (0.9)
		0.75–1 mm ² Black	—	100	AB1RRNGF03	0.03 (0.9)
10	Modular test connector	Gray	—	10	AB1AT3	0.08 (2.4)
11	Modular test connector end plate		—	10	AB1AC3	0.01 (0.4)
12	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
13	Terminal cover		4	10	AB1RRNCS2	0.01 (0.3)
14	Marking accessories		See pages 5/2 and 5/3.			



Terminal Blocks, Type AB1

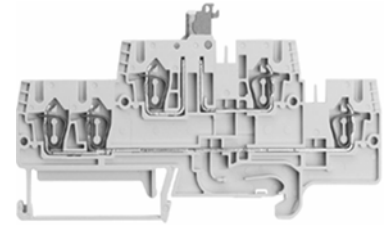
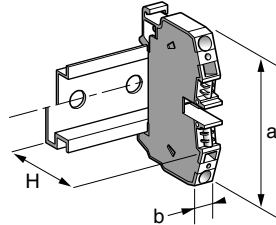
Spring technology

Double deck blade disconnect type

Clip-on mounting on 35 mm $\Sigma 5$ rails

Nominal wire size

2.5 mm²



AB1RRNSCE235U5

Approximate dimensions, in. (mm)

1	Length (a)	4.23 (107.5)
	Width (b)	0.20 (5)
	Height (H) $\Sigma 5$ rail	2.20 (55.9) + 0.38 (9.6) for open switch
	with $\Sigma 5$ rail	1.91 (48.5) + 0.38 (9.6) for open switch

Wire size, mm²

1	Stranded without cable end	0.5–2.5
	Stranded with cable end	0.5–2.5
	Solid	0.5–4

Nominal electrical values

1	IEC/EN 60947-7-1	800 V / 8 kV / 3–20 A
	UL File E164359	24–12 AWG, 300 V, 19 A
	CCN XCFR2	
	CSA File 702070	24–12 AWG, 300 V, 20 A
	Class 6228 01	
	UTE, category C	—
1	VDE, group C	500 V / 20 A

Certifications

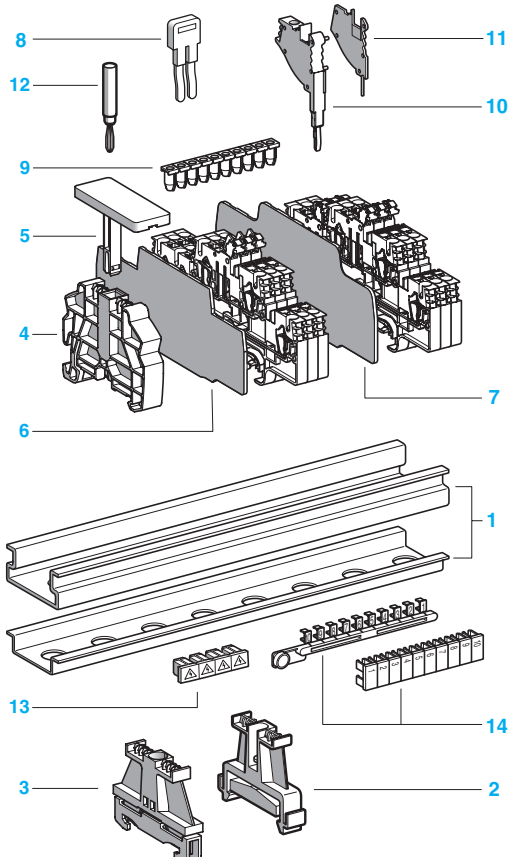
See the tables beginning on page 1/10.

Terminal blocks

No. points	Sold in lots of	Catalog number	Weight oz (g)
2/3	50	AB1RRNSCE235U5	0.56 (15.9)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\Sigma 5$ or $\Sigma 5$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\Sigma 5$ or $\Sigma 5$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\Sigma 5$ or $\Sigma 5$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNACE246	0.20 (5.7)
7	Partition plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNASE246	0.35 (9.8)
8	Insulated jumper	2-pole	—	10	AB1RRAL22	0.04 (1.1)
		3-pole	—	10	AB1RRAL23	0.06 (1.7)
		4-pole	—	10	AB1RRAL24	0.08 (2.2)
		5-pole	—	10	AB1RRAL25	0.10 (2.8)
		10-pole	—	20	AB1RRAL210	0.20 (5.6)
9	Wire guide entry strip	0.13–0.2 mm ² White	—	100	AB1RRNGF01	0.03 (0.9)
		0.25–0.5 mm ² Gray	—	100	AB1RRNGF02	0.03 (0.9)
		0.75–1 mm ² Black	—	100	AB1RRNGF03	0.03 (0.9)
10	Modular test connector	Gray	—	10	AB1AT3	0.08 (2.4)
11	Modular test connector end plate		—	10	AB1AC3	0.01 (0.4)
12	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
13	Terminal cover		4	10	AB1RRNCS2	0.01 (0.3)
14	Marking accessories		See pages 5/2 and 5/3.			



Terminal Blocks, Type AB1

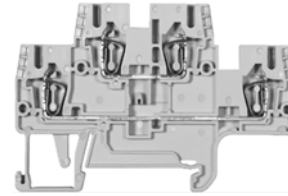
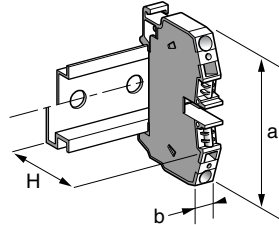
Spring technology

Double deck

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

2.5 mm²



AB1RRNET235U4

Approximate dimensions, in. (mm)

1	Length (a)	3.24 (82.2)
	Width (b)	0.20 (5)
	Height (H) $\frac{25}{8}$ rail	2.20 (55.9)
	with $\frac{1}{4}$ rail	1.91 (48.4)

Wire size, mm²

Stranded without cable end	0.13–2.5
Stranded with cable end	0.5–2.5
Solid	0.13–4

Nominal electrical values

IEC/EN 60947-7-1	500 V / 6 kV / 24 A
UL File E164359 CCN XCFR2	22–12 AWG, 300 V, 20 A
CSA File 702070 Class 6228 01	24–12 AWG, 300 V, 24 A
UTE, category C	—
VDE, group C	500 V / 24 A

Certifications

See the tables beginning on page 1/10.

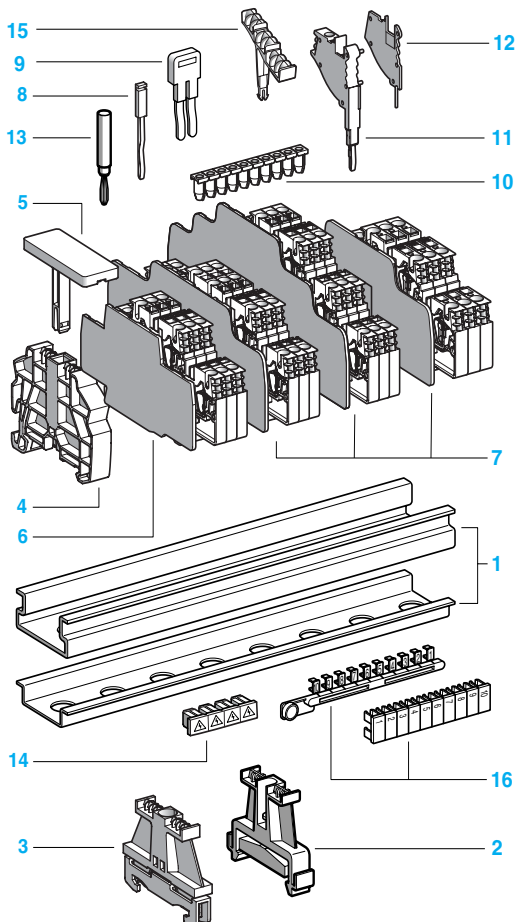
Terminal blocks

Gray

No. points	Sold in lots of	Catalog number	Weight oz (g)
2/2	100	AB1RRNET235U4	0.40 (11.4)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{1}{4}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{1}{4}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{1}{4}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNACE244	0.18 (4.6)
7	Partition plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNASE244	0.22 (5.5)
8	Vertical jumper	1-pole	—	20	AB1RRAL1	0.03 (0.7)
9	Insulated jumper	2-pole	—	10	AB1RRAL22	0.04 (1.1)
		3-pole	—	10	AB1RRAL23	0.06 (1.7)
		4-pole	—	10	AB1RRAL24	0.08 (2.2)
		5-pole	—	10	AB1RRAL25	0.10 (2.8)
		10-pole	—	20	AB1RRAL210	0.20 (5.6)
10	Wire guide entry strip	0.13–0.2 mm ² White	—	100	AB1RRNGF01	0.03 (0.9)
		0.25–0.5 mm ² Gray	—	100	AB1RRNGF02	0.03 (0.9)
		0.75–1 mm ² Black	—	100	AB1RRNGF03	0.03 (0.9)
11	Modular test connector		—	10	AB1AT3	0.08 (2.4)
12	Modular test connector end plate		—	10	AB1AC3	0.01 (0.4)
13	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
14	Terminal cover		4	10	AB1RRNCS2	0.01 (0.3)
15	Marker tag holder		—	100	AB1SB5	0.01 (0.4)
16	Marking accessories		See pages 5/2 and 5/3.			



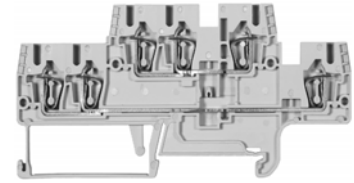
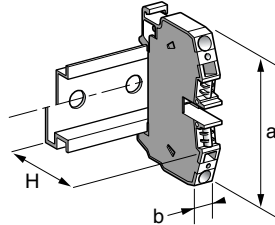
Terminal Blocks, Type AB1

Spring technology
Double deck

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

2.5 mm²



AB1RRNET235U6

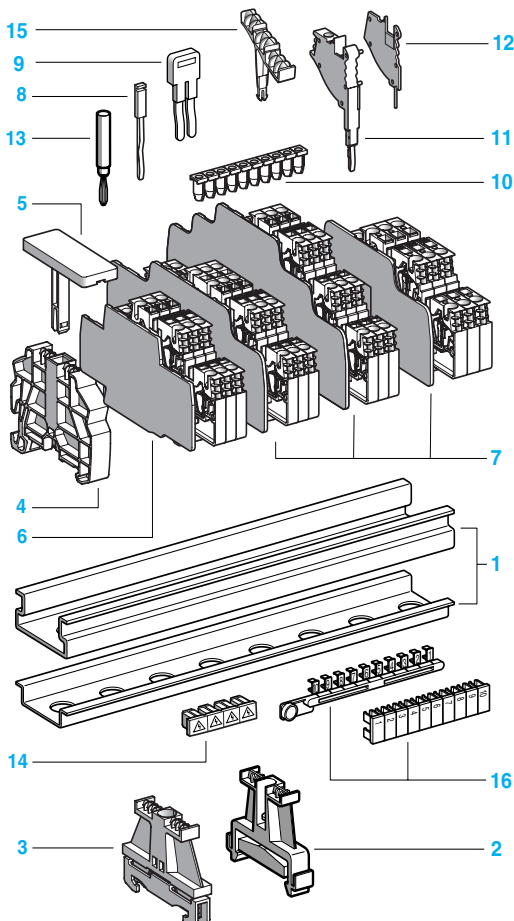
Approximate dimensions, in. (mm)		
1	Length (a)	4.23 (107.5)
	Width (b)	0.20 (5)
	Height (H) $\frac{25}{8}$ rail	2.20 (55.9)
	with $\frac{25}{8}$ rail	1.91 (48.4)
Wire size, mm ²		
Stranded without cable end		0.13–2.5
Stranded with cable end		0.5–2.5
Solid		0.13–4
Nominal electrical values		
IEC/EN 60947-7-1		500 V / 6 kV / 22 A
UL File E164359 CCN XCFR2		22–12 AWG, 300 V, 20 A
CSA File 702070 Class 6228 01		24–12 AWG, 300 V, 24 A
UTE, category C		—
VDE, group C		500 V / 22 A

Certifications

See the tables beginning on page 1/10.

Terminal blocks

		No. points	Sold in lots of	Catalog number	Weight oz (g)
	Gray	3/3	50	AB1RRNET235U6	0.69 (19.7)
Accessories					
2	Plastic end clamp with screw	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp	—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	—	10	AB1RRNACE246	0.20 (5.7)
7	Partition plate thickness 0.06 in. (1.5 mm)	—	10	AB1RRNASE246	0.35 (9.8)
8	Vertical jumper 1-pole	—	20	AB1RRAL1	0.03 (0.7)
9	Insulated jumper 2-pole	—	10	AB1RRAL22	0.04 (1.1)
	3-pole	—	10	AB1RRAL23	0.06 (1.7)
	4-pole	—	10	AB1RRAL24	0.08 (2.2)
	5-pole	—	10	AB1RRAL25	0.10 (2.8)
	10-pole	—	20	AB1RRAL210	0.20 (5.6)
10	Wire guide entry strip 0.13–0.2 mm ² White	—	100	AB1RRNGF01	0.03 (0.9)
	0.25–0.5 mm ² Gray	—	100	AB1RRNGF02	0.03 (0.9)
	0.75–1 mm ² Black	—	100	AB1RRNGF03	0.03 (0.9)
11	Modular test connector	—	10	AB1AT3	0.08 (2.4)
12	Modular test connector end plate	—	10	AB1AC3	0.01 (0.4)
13	Test plug Red	—	10	AB1AT1	0.07 (1.9)
14	Terminal cover	4	10	AB1RRNCS2	0.01 (0.3)
15	Marker tag holder	—	100	AB1SB5	0.01 (0.4)
16	Marking accessories	See pages 5/2 and 5/3.			



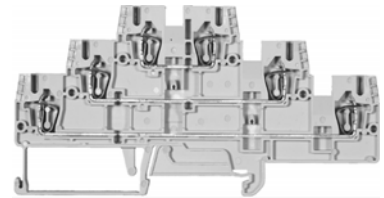
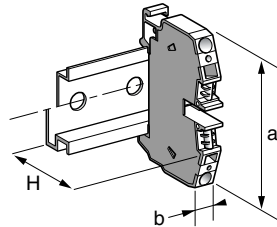
Terminal Blocks, Type AB1

Spring technology
Three Tier

Clip-on mounting on 35 mm $\frac{2.5}{10}$ rails

Nominal wire size

2.5 mm²



Approximate dimensions, in. (mm)

1	Length (a)	4.85 (123.1)
	Width (b)	0.20 (5)
	Height (H) $\frac{2.5}{10}$ rail	2.60 (66.2)
	with $\frac{2.5}{10}$ rail	2.31 (58.7)

Wire size, mm²

Stranded without cable end	0.13–2.5
Stranded with cable end	0.5–2.5
Solid	0.13–4

Nominal electrical values

IEC/EN 60947-7-1	500 V / 6 kV / 20 A
UL File E164359 CCN XCFR2	22–12 AWG, 300 V, 20 A
CSA File 702070 Class 6228 01	24–12 AWG, 300 V, 24 A
UTE, category C	—
VDE, group C	500 V / 20 A

Certifications

See the tables beginning on page 1/10.

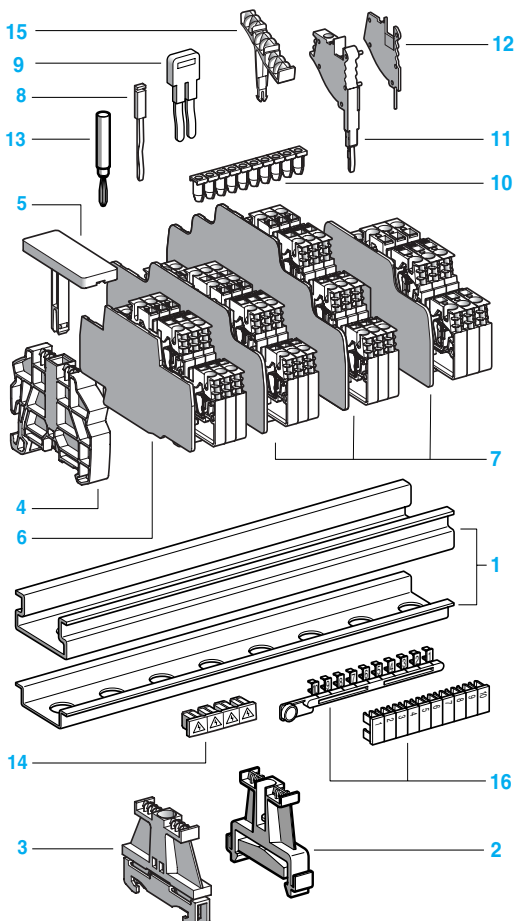
Terminal blocks

Gray

No. points	Sold in lots of	Catalog number	Weight oz (g)
2/2/2	50	AB1RRNET235T6	0.49 (14.0)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{2.5}{10}$ or $\frac{2.5}{10}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{2.5}{10}$ or $\frac{2.5}{10}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{2.5}{10}$ or $\frac{2.5}{10}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNACTE246	0.27 (7.6)
7	Partition plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNASTE246	0.30 (8.6)
8	Vertical jumper	1-pole	—	20	AB1RRAL1	0.03 (0.7)
9	Insulated jumper	2-pole	—	10	AB1RRAL22	0.04 (1.1)
		3-pole	—	10	AB1RRAL23	0.06 (1.7)
		4-pole	—	10	AB1RRAL24	0.08 (2.2)
		5-pole	—	10	AB1RRAL25	0.10 (2.8)
		10-pole	—	20	AB1RRAL210	0.20 (5.6)
10	Wire guide entry strip	0.13–0.2 mm ² White	—	100	AB1RRNGF01	0.03 (0.9)
		0.25–0.5 mm ² Gray	—	100	AB1RRNGF02	0.03 (0.9)
		0.75–1 mm ² Black	—	100	AB1RRNGF03	0.03 (0.9)
11	Modular test connector		—	10	AB1AT3	0.08 (2.4)
12	Modular test connector end plate		—	10	AB1AC3	0.01 (0.4)
13	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
14	Terminal cover		4	10	AB1RRNCS2	0.01 (0.3)
15	Marker tag holder		—	100	AB1SB6	0.01 (0.3)
16	Marking accessories		See pages 5/2 and 5/3.			



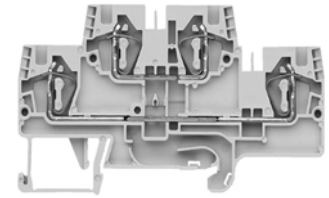
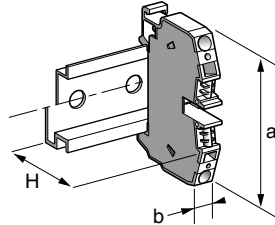
Terminal Blocks, Type AB1

Spring technology
Double deck

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

4 mm²



Approximate dimensions, in. (mm)

1	Length (a)	3.55 (90.1)
	Width (b)	0.24 (6)
	Height (H) $\frac{25}{8}$ rail	2.20 (55.95)
	with $\frac{25}{8}$ rail	1.91 (48.45)

Wire size, mm²

1	Stranded without cable end	0.13–4
	Stranded with cable end	0.5–4
	Solid	0.13–6

Nominal electrical values

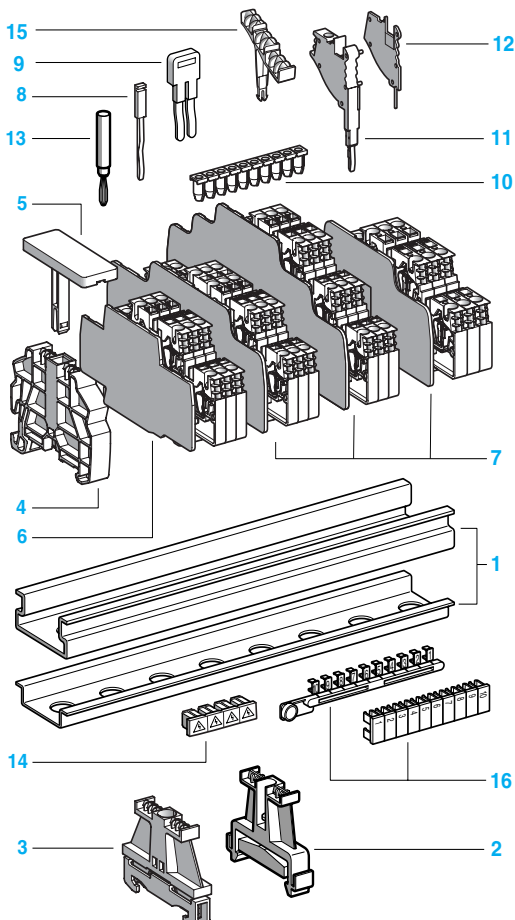
1	IEC/EN 60947-7-1	500 V / 6 kV / 32 A
	UL File E164359 CCN XCFR2	24–10 AWG, 300 V, 30 A
	CSA File 702070 Class 6228 01	24–10 AWG, 300 V, 32 A
	UTE, category C	—
	VDE, group C	500 V / 32 A

Certifications

See the tables beginning on page 1/10.

Terminal blocks

		No. points	Sold in lots of	Catalog number	Weight oz (g)	
Gray		2/2	100	AB1RRNET435U4	0.57 (16.1)	
Accessories						
2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on 25 or 25	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on 25 or 25	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on 25 or 25	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Gray	—	10	AB1RRNACE444	0.18 (5.2)
7	Partition plate	Gray	—	10	AB1RRNASE444	0.22 (6.2)
thickness 0.06 in. (1.5 mm)						
8	Vertical jumper	1-pole	—	20	AB1RRAL1	0.03 (0.7)
9	Insulated jumper	2-pole	—	10	AB1RRAL42	0.06 (1.7)
		3-pole	—	10	AB1RRAL43	0.09 (2.5)
		4-pole	—	10	AB1RRAL44	0.12 (3.3)
		5-pole	—	10	AB1RRAL45	0.14 (4.1)
		10-pole	—	20	AB1RRAL410	0.29 (8.3)
10	Wire guide entry strip	0.13–0.2 mm ² White	—	100	AB1RRNGF11	0.03 (0.8)
		0.25–0.5 mm ² Gray	—	100	AB1RRNGF22	0.03 (0.8)
		0.75–1 mm ² Black	—	100	AB1RRNGF33	0.03 (0.8)
11	Modular test connector		—	10	AB1AT3	0.08 (2.4)
12	Modular test connector end plate		—	10	AB1AC3	0.01 (0.4)
13	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
14	Terminal cover		4	100	AB1RRCS4	0.01 (0.4)
15	Marker tag holder		—	100	AB1SB5	0.01 (0.4)
16	Marking accessories		See pages 5/2 and 5/3.			



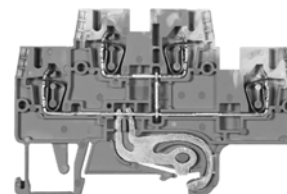
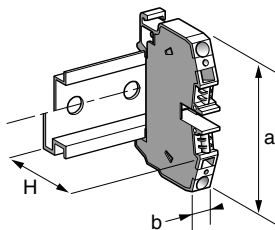
Terminal Blocks, Type AB1

Spring technology
Double deck—grounding block

Clip-on mounting on 35 mm $\frac{1}{2}$ rails

Nominal wire size

2.5 mm²



AB1RRNETP235U4

Approximate dimensions, in. (mm)

1	Length (a)	3.24 (82.2)
	Width (b)	0.20 (5)
	Height (H) $\frac{1}{2}$ rail	2.20 (55.9)
	with $\frac{1}{2}$ rail	1.91 (48.4)

Wire size, mm²

Stranded without cable end	0.13–2.5
Stranded with cable end	0.5–2.5
Solid	0.13–4

Nominal electrical values

IEC/EN 60947-7-1	500 V / 6 kV / 24 A
UL File E164359 CCN XCFR2	22–12 AWG, 600 V, 20 A
CSA File 702070 Class 6228 01	24–12 AWG, 600 V, 24 A
UTE, category C	—
VDE, group C	500 V / 24 A

Certifications

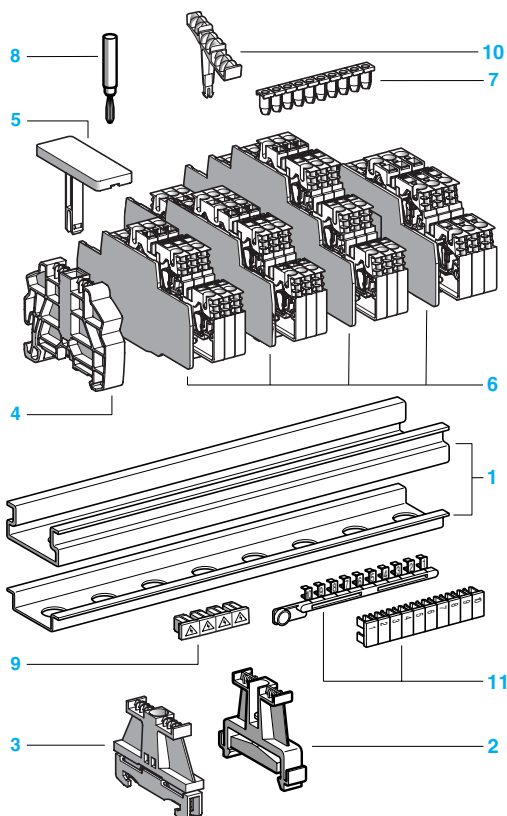
See the tables beginning on page 1/10.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	4	100	AB1RRNETP235U4	0.49 (14.0)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{2}$ or $\frac{1}{4}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{2}$ or $\frac{1}{4}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{1}{2}$ or $\frac{1}{4}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Gray thickness 0.06 in. (1.5 mm)	—	10	AB1RRNACETP244	0.16 (4.6)
7	Wire guide entry strip	0.13–0.2 mm ² White 0.25–0.5 mm ² Gray 0.75–1 mm ² Black	—	100	AB1RRNGF01	0.03 (0.9)
			—	100	AB1RRNGF02	0.03 (0.9)
			—	100	AB1RRNGF03	0.03 (0.9)
8	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
9	Terminal cover		4	10	AB1RRNCS2	0.01 (0.3)
10	Marker tag holder		—	100	AB1SB5	0.01 (0.4)
11	Marking accessories		See pages 5/2 and 5/3.			



Terminal Blocks, Type AB1

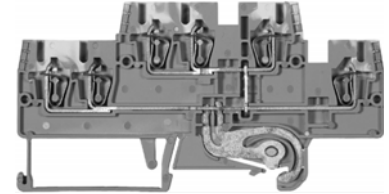
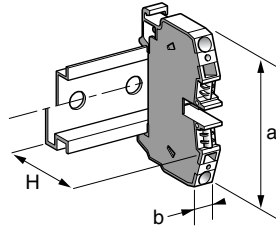
Spring technology

Double deck—grounding block

Clip-on mounting on 35 mm $\frac{1}{4}$ rails

Nominal wire size

2.5 mm²



AB1RRNETP235U6

Approximate dimensions, in. (mm)

1	Length (a)	4.23 (107.5)
	Width (b)	0.20 (5)
	Height (H) $\frac{1}{4}$ rail	2.20 (55.9)
	with $\frac{1}{4}$ rail	1.91 (48.4)

Wire size, mm²

Stranded without cable end	0.13–2.5
Stranded with cable end	0.5–2.5
Solid	0.13–4

Nominal electrical values

IEC/EN 60947-7-1	500 V / 6 kV / 22 A
UL File E164359 CCN XCFR2	22–12 AWG, 600 V, 20 A
CSA File 702070 Class 6228 01	24–12 AWG, 600 V, 24 A
UTE, category C	—
VDE, group C	500 V / 22 A

Certifications

See the tables beginning on page 1/10.

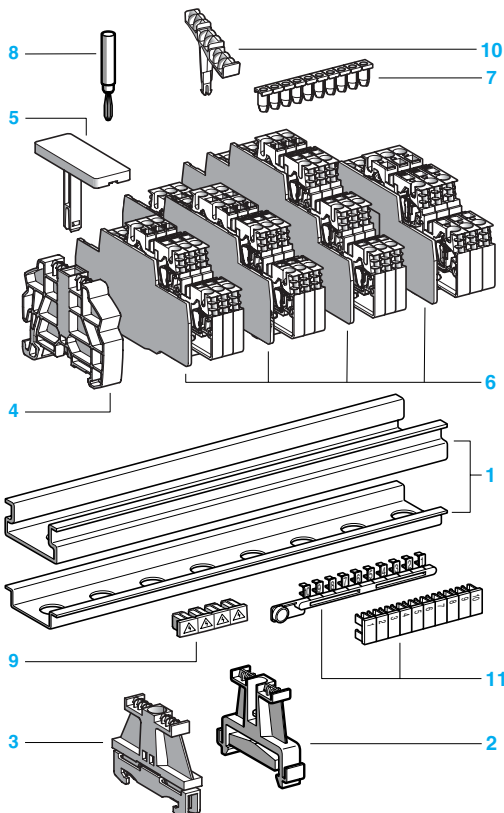
Terminal blocks

Gray

No. points	Sold in lots of	Catalog number	Weight oz (g)
6	50	AB1RRNETP235U6	0.69 (19.7)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNACETP246	0.20 (5.7)
7	Wire guide entry strip	0.13–0.2 mm ² White	—	100	AB1RRNGF01	0.03 (0.9)
		0.25–0.5 mm ² Gray	—	100	AB1RRNGF02	0.03 (0.9)
		0.75–1 mm ² Black	—	100	AB1RRNGF03	0.03 (0.9)
8	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
9	Terminal cover		4	10	AB1RRNCS2	0.01 (0.3)
10	Marker tag holder		—	100	AB1SB5	0.01 (0.4)
11	Marking accessories		See pages 5/2 and 5/3.			



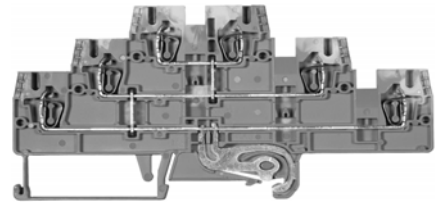
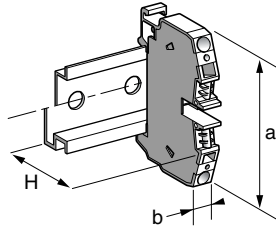
Terminal Blocks, Type AB1

Spring technology
Three tier—grounding block

Clip-on mounting on 35 mm $\frac{1}{2}$ rails

Nominal wire size

2.5 mm²



AB1RRNETP235T6

Approximate dimensions, in. (mm)

1	Length (a)	4.85 (123.1)
	Width (b)	0.20 (5)
	Height (H) $\frac{1}{2}$ rail	2.61 (66.2)
	with $\frac{1}{2}$ rail	2.31 (58.7)

Wire size, mm²

Stranded without cable end	0.13–2.5
Stranded with cable end	0.5–2.5
Solid	0.13–4

Nominal electrical values

IEC/EN 60947-7-1	500 V / 6 kV / 20 A
UL File E164359 CCN XCFR2	22–12 AWG, 600 V, 20 A
CSA File 702070 Class 6228 01	24–12 AWG, 600 V, 24 A
UTE, category C	—
VDE, group C	500 V / 20 A

Certifications

See the tables beginning on page 1/10.

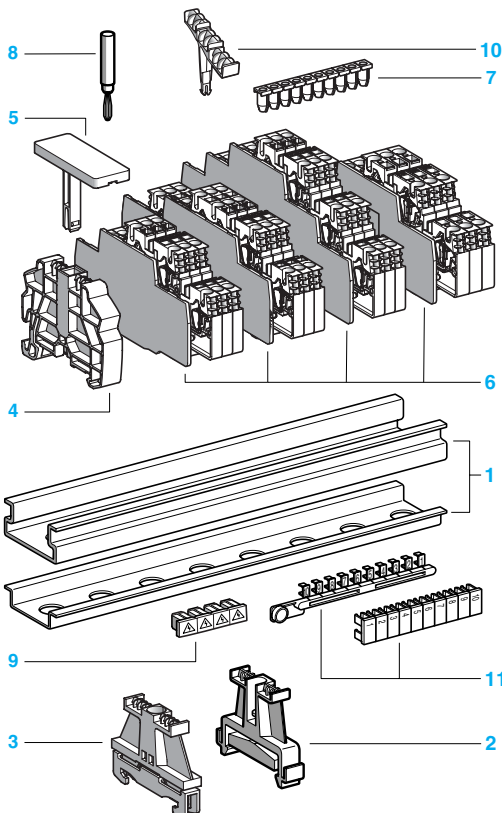
Terminal blocks

Gray

No. points	Sold in lots of	Catalog number	Weight oz (g)
6	50	AB1RRNETP235T6	0.78 (22.2)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{2}$ or $\frac{1}{4}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{2}$ or $\frac{1}{4}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{1}{2}$ or $\frac{1}{4}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNACTETP246	0.27 (7.6)
7	Wire guide entry strip	0.13–0.2 mm ² White	—	100	AB1RRNGF01	0.03 (0.9)
		0.25–0.5 mm ² Gray	—	100	AB1RRNGF02	0.03 (0.9)
		0.75–1 mm ² Black	—	100	AB1RRNGF03	0.03 (0.9)
8	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
9	Terminal cover		4	10	AB1RRNCS2	0.01 (0.3)
10	Marker tag holder		—	100	AB1SB6	0.01 (0.3)
11	Marking accessories		See pages 5/2 and 5/3.			



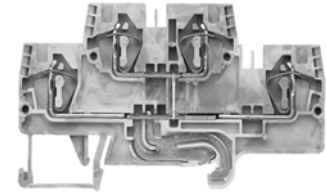
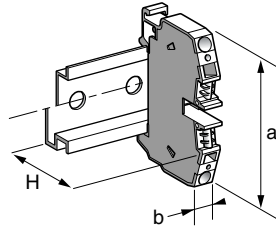
Terminal Blocks, Type AB1

Spring technology
Double deck

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

4 mm²



AB1RRNETP435U4

Approximate dimensions, in. (mm)

1	Length (a)	3.55 (90.1)
	Width (b)	0.24 (6)
	Height (H) $\frac{25}{8}$ rail	2.20 (55.95)
	with $\frac{16}{8}$ rail	1.91 (48.45)

Wire size, mm²

Stranded without cable end	0.13–4
Stranded with cable end	0.5–4
Solid	0.13–6

Nominal electrical values

IEC/EN 60947-7-1	500 V / 6 kV / 32 A
UL File E164359 CCN XCFR2	24–10 AWG, 600 V, 30 A
CSA File 702070 Class 6228 01	24–10 AWG, 600 V, 32 A
UTE, category C	—
VDE, group C	500 V / 32 A

Certifications

See the tables beginning on page 1/10.

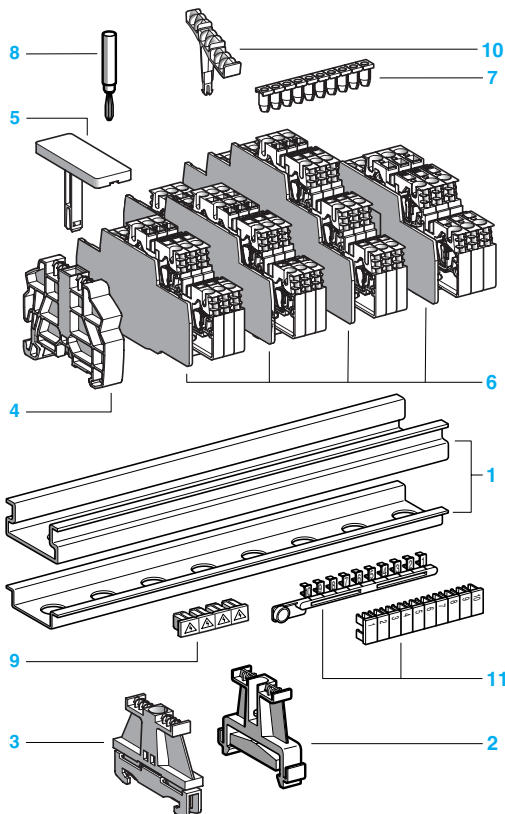
Terminal blocks

Gray

No. points	Sold in lots of	Catalog number	Weight oz (g)
4	100	AB1RRNETP435U4	0.66 (18.7)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{16}{8}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{16}{8}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{16}{8}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNACETP444	0.18 (5.2)
7	Wire guide entry strip	0.13–0.2 mm ² White 0.25–0.5 mm ² Gray 0.75–1 mm ² Black	—	100	AB1RRNGF11	0.03 (0.8)
			—	100	AB1RRNGF22	0.03 (0.8)
			—	100	AB1RRNGF33	0.03 (0.8)
8	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
9	Terminal cover		4	100	AB1RRCS4	0.01 (0.4)
10	Marker tag holder		—	100	AB1SB5	0.01 (0.4)
11	Marking accessories		See pages 5/2 and 5/3.			



Terminal Blocks, Type AB1

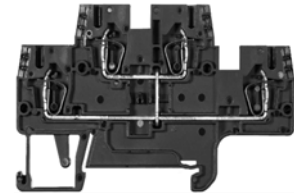
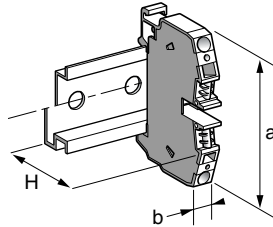
Spring technology

Double deck, with vertical connection

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

2.5 mm²



AB1RRNETV235U4

Approximate dimensions, in. (mm)

1	Length (a)	3.24 (82.2)
	Width (b)	0.20 (5)
	Height (H) $\frac{25}{8}$ rail	2.20 (55.9)
	with $\frac{25}{8}$ rail	1.91 (48.4)

Wire size, mm²

Stranded without cable end	0.13–2.5
Stranded with cable end	0.5–2.5
Solid	0.13–4

Nominal electrical values

IEC/EN 60947-7-1	500 V / 6 kV / 24 A
UL File E164359 CCN XCFR2	22–12 AWG, 600 V, 20 A
CSA File 702070 Class 6228 01	22–12 AWG, 600 V, 24 A
UTE, category C	—
VDE, group C	500 V / 24 A

Certifications

See the tables beginning on page 1/10.

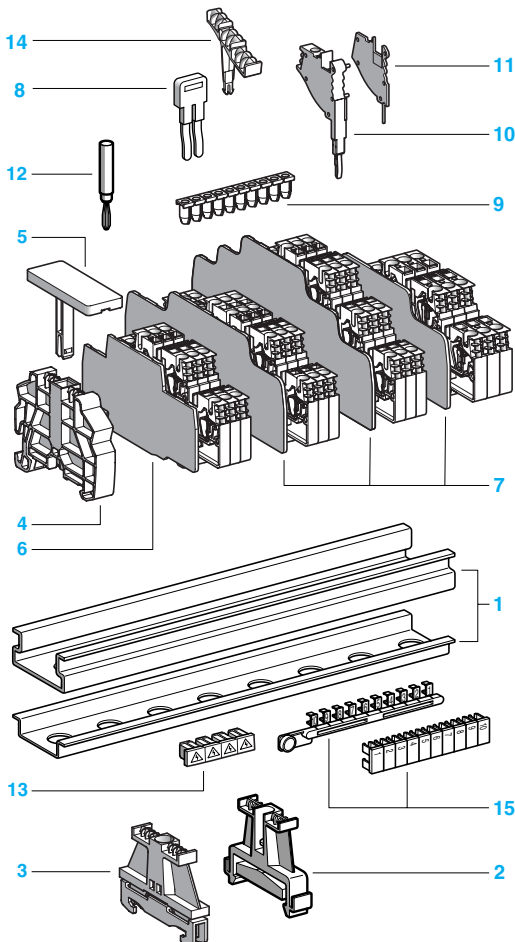
Terminal blocks

Gray

No. points	Sold in lots of	Catalog number	Weight oz (g)
4	100	AB1RRNETV235U4	0.41 (11.7)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Gray thickness 0.06 in. (1.5 mm)	—	10	AB1RRNACE244	0.16 (4.6)
7	Partition plate	Gray	—	10	AB1RRNASE244	0.19 (5.5)
8	Insulated jumper	2-pole	—	10	AB1RRAL22	0.04 (1.1)
		3-pole	—	10	AB1RRAL23	0.06 (1.7)
		4-pole	—	10	AB1RRAL24	0.08 (2.2)
		5-pole	—	10	AB1RRAL25	0.10 (2.8)
		10-pole	—	20	AB1RRAL210	0.20 (5.6)
9	Wire guide entry strip	0.13–0.2 mm ² White	—	100	AB1RRNGF01	0.03 (0.9)
		0.25–0.5 mm ² Gray	—	100	AB1RRNGF02	0.03 (0.9)
		0.75–1 mm ² Black	—	100	AB1RRNGF03	0.03 (0.9)
10	Modular test connector		—	10	AB1AT3	0.08 (2.4)
11	Modular test connector end plate		—	10	AB1AC3	0.01 (0.4)
12	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
13	Terminal cover		4	10	AB1RRNCS2	0.01 (0.3)
14	Marker tag holder		—	100	AB1SB5	0.01 (0.4)
15	Marking accessories		See pages 5/2 and 5/3.			



Terminal Blocks, Type AB1

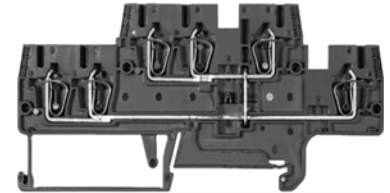
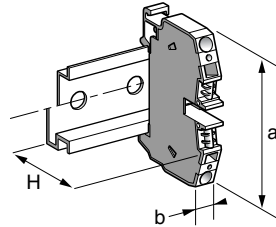
Spring technology

Double deck, with vertical connection

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

2.5 mm²



AB1RRNETV235U6

Approximate dimensions, in. (mm)

1	Length (a)	4.23 (107.5)
	Width (b)	0.20 (5)
	Height (H) $\frac{25}{8}$ rail	2.20 (55.9)
	with $\frac{25}{8}$ rail	1.91 (48.4)

Wire size, mm²

Stranded without cable end	0.13–2.5
Stranded with cable end	0.5–2.5
Solid	0.13–4

Nominal electrical values

IEC/EN 60947-7-1	500 V / 6 kV / 22 A
UL File E164359 CCN XCFR2	22–12 AWG, 600 V, 20 A
CSA File 702070 Class 6228 01	22–12 AWG, 600 V, 24 A
UTE, category C	—
VDE, group C	500 V / 22 A

Certifications

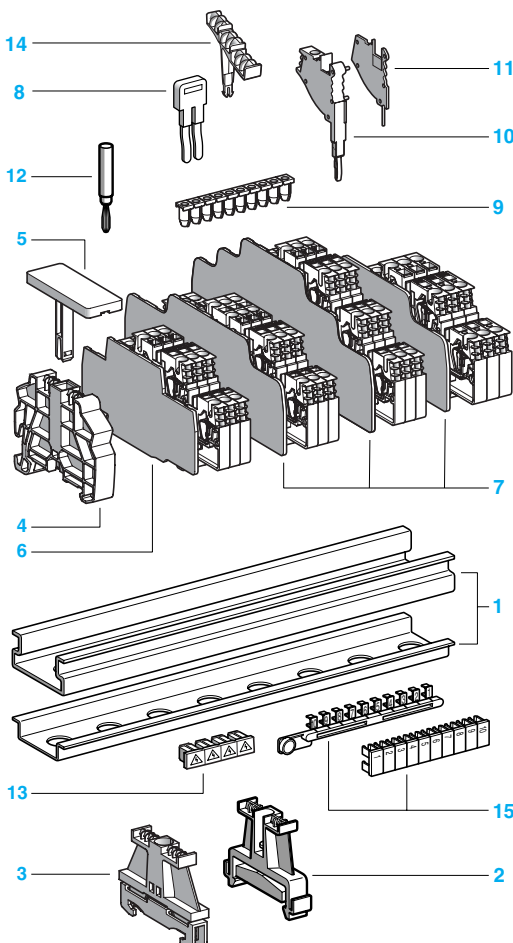
See the tables beginning on page 1/10.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	6	50	AB1RRNETV235U6	0.61 (17.2)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Gray thickness 0.06 in. (1.5 mm)	—	10	AB1RRNACE246	0.20 (5.7)
7	Partition plate	Gray	—	10	AB1RRNASE246	0.35 (9.8)
8	Insulated jumper	2-pole	—	10	AB1RRAL22	0.04 (1.1)
		3-pole	—	10	AB1RRAL23	0.06 (1.7)
		4-pole	—	10	AB1RRAL24	0.08 (2.2)
		5-pole	—	10	AB1RRAL25	0.10 (2.8)
		10-pole	—	20	AB1RRAL210	0.20 (5.6)
9	Wire guide entry strip	0.13–0.2 mm ² White	—	100	AB1RRNGF01	0.03 (0.9)
		0.25–0.5 mm ² Gray	—	100	AB1RRNGF02	0.03 (0.9)
		0.75–1 mm ² Black	—	100	AB1RRNGF03	0.03 (0.9)
10	Modular test connector		—	10	AB1AT3	0.08 (2.4)
11	Modular test connector end plate		—	10	AB1AC3	0.01 (0.4)
12	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
13	Terminal cover		—	10	AB1RRNCS2	0.01 (0.3)
14	Marker tag holder		—	100	AB1SB5	0.01 (0.4)
15	Marking accessories		See pages 5/2 and 5/3.			



Terminal Blocks, Type AB1

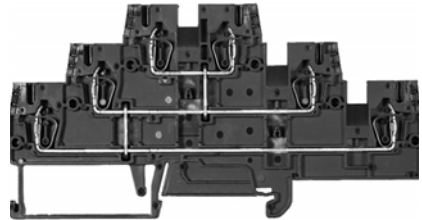
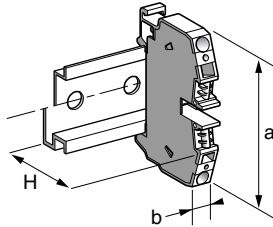
Spring technology

Double deck, with vertical connection

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

2.5 mm²



AB1RRNETV235T6

Approximate dimensions, in. (mm)

1	Length (a)	4.85 (123.1)
	Width (b)	0.20 (5)
	Height (H) $\frac{25}{8}$ rail	2.61 (66.2)
	with $\frac{25}{8}$ rail	2.31 (58.7)

Wire size, mm²

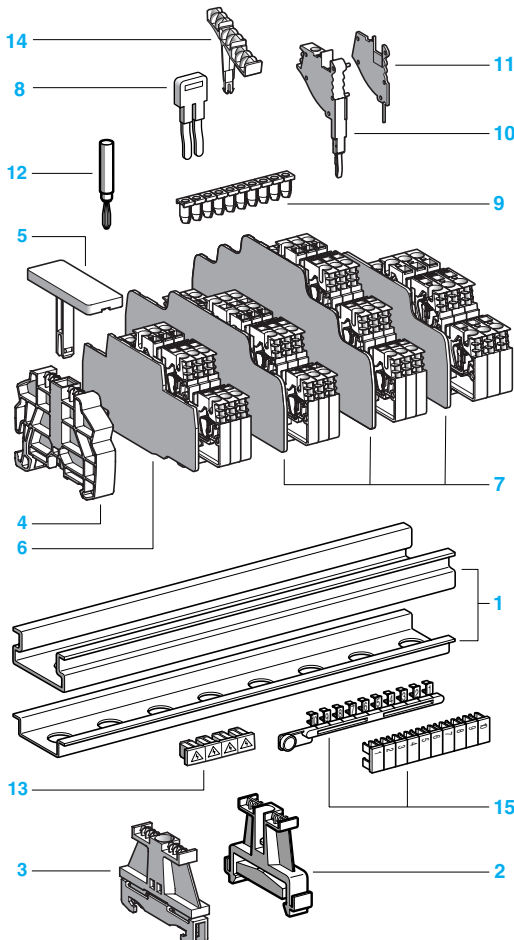
Stranded without cable end	0.13–2.5
Stranded with cable end	0.5–2.5
Solid	0.13–4

Nominal electrical values

IEC/EN 60947-7-1	500 V / 6 kV / 20 A
UL File E164359 CCN XCFR2	22–12 AWG, 600 V, 20 A
CSA File 702070 Class 6228 01	22–12 AWG, 600 V, 24 A
UTE, category C	—
VDE, group C	500 V / 20 A

Certifications

See the tables beginning on page 1/10.



Terminal blocks

Gray

No. points	Sold in lots of	Catalog number	Weight oz (g)
6	50	AB1RRNETV235T6	0.72 (20.3)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNACTE246	0.27 (7.6)
7	Partition plate	Gray	—	10	AB1RRNASTE246	0.30 (8.6)
8	Insulated jumper	2-pole	—	10	AB1RRAL22	0.04 (1.1)
		3-pole	—	10	AB1RRAL23	0.06 (1.7)
		4-pole	—	10	AB1RRAL24	0.08 (2.2)
		5-pole	—	10	AB1RRAL25	0.10 (2.8)
		10-pole	—	20	AB1RRAL210	0.20 (5.6)
9	Wire guide entry strip	0.13–0.2 mm ² White	—	100	AB1RRNGF01	0.03 (0.9)
		0.25–0.5 mm ² Gray	—	100	AB1RRNGF02	0.03 (0.9)
		0.75–1 mm ² Black	—	100	AB1RRNGF03	0.03 (0.9)
10	Modular test connector		—	10	AB1AT3	0.08 (2.4)
11	Modular test connector end plate		—	10	AB1AC3	0.01 (0.4)
12	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
13	Terminal cover		4	100	AB1RRNCS2	0.01 (0.3)
14	Marker tag holder		—	100	AB1SB6	0.01 (0.3)
15	Marking accessories		See pages 5/2 and 5/3.			

Terminal Blocks, Type AB1

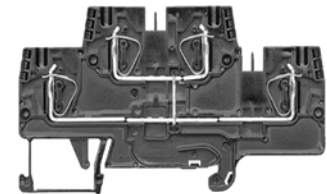
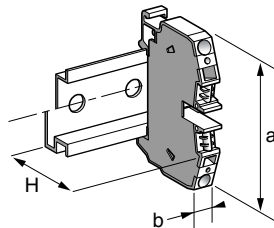
Spring technology

Double deck, with vertical connection

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

4 mm²



AB1RRNETV435U4

Approximate dimensions, in. (mm)

1	Length (a)	3.55 (90.1)
	Width (b)	0.24 (6)
	Height (H) $\frac{25}{8}$ rail	2.20 (55.95)
	with $\frac{25}{8}$ rail	1.91 (48.45)

Wire size, mm²

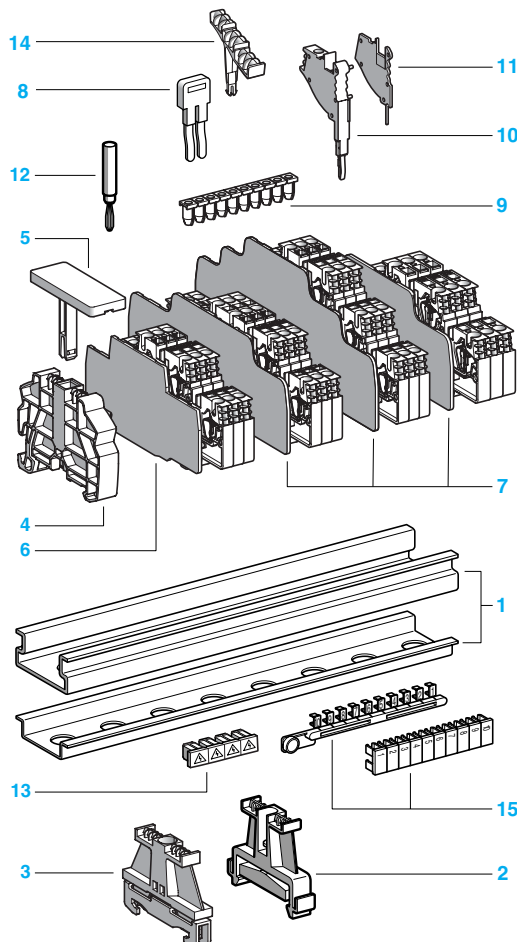
Stranded without cable end	0.13–4
Stranded with cable end	0.5–4
Solid	0.13–6

Nominal electrical values

IEC/EN 60947-7-1	500 V / 6 kV / 32 A
UL File E164359 CCN XCFR2	24–10 AWG, 600 V, 30 A
CSA File 702070 Class 6228 01	24–10 AWG, 300 V, 32 A
UTE, category C	—
VDE, group C	500 V / 32 A

Certifications

See the tables beginning on page 1/10.



Terminal blocks

	No.	Sold in	Catalog number	Weight
	points	lots of		oz (g)
Gray	4	100	AB1RRNETV435U4	0.59 (16.6)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1RRNACE444	0.18 (5.2)
7	Partition plate	Gray	—	10	AB1RRNASE444	0.22 (6.2)
8	Insulated jumper	2-pole	—	10	AB1RRAL42	0.06 (1.7)
		3-pole	—	10	AB1RRAL43	0.09 (2.5)
		4-pole	—	10	AB1RRAL44	0.12 (3.3)
		5-pole	—	10	AB1RRAL45	0.14 (4.1)
		10-pole	—	20	AB1RRAL410	0.29 (8.3)
9	Wire guide entry strip	0.13–0.2 mm ² White	—	100	AB1RRNGF11	0.03 (0.8)
		0.25–0.5 mm ² Gray	—	100	AB1RRNGF22	0.03 (0.8)
		0.75–1 mm ² Black	—	100	AB1RRNGF33	0.03 (0.8)
10	Modular test connector		—	10	AB1AT3	0.08 (2.4)
11	Modular test connector end plate		—	10	AB1AC3	0.01 (0.4)
12	Test plug	Red	—	10	AB1AT1	0.07 (1.9)
13	Terminal cover		4	100	AB1RRCS4	0.01 (0.4)
14	Marker tag holder		—	100	AB1SB5	0.01 (0.4)
15	Marking accessories		See pages 5/2 and 5/3.			

3 - Terminal Blocks, Type AB1

Screw Clamp Technology

	<i>Page</i>
<i>Selection guide</i>	<i>3/2</i>
Passthrough type terminal blocks	<i>3/4</i>
Grounding type terminal blocks	<i>3/12</i>
Disconnect type terminal blocks	<i>3/18</i>
Component type terminal blocks	<i>3/19</i>
Fuse blocks	<i>3/20</i>
Screw/slip-on type terminal blocks	<i>3/23</i>
Double deck terminal blocks	<i>3/24</i>
Terminal blocks for proximity sensors	<i>3/27</i>
Multifunction terminal blocks	<i>3/32</i>
Terminal blocks for neutral conductors	<i>3/36</i>
Lug-lug type terminal blocks	<i>3/39</i>
Lug-clamp type terminal blocks	<i>3/42</i>
Miniature terminal blocks	<i>3/45</i>

Applications (connection)		Passthrough				Grounding			Disconnect		
									Blade type	Fused	Remo- vable carrier
											
Nominal wire size	AWG (mm ²)	12 (2.5)	10 (4)	8 (6)	6–350 kcmil (10–150)	12 (2.5)	10 (4)	8–2 (6–35)	10 (4)	10 (4)	10 (4)
Number of poles	1 - 1 x 1	•	•	•	•	•	•	•	•	•	•
	2 - 1 x 1	—	—	—	—	—	—	—	—	—	—
	3 - 1 x 1	—	—	—	—	—	—	—	—	—	—
	5 - 1 x 1	—	—	—	—	—	—	—	—	—	—
	10 - 1 x 1	—	—	—	—	—	—	—	—	—	—
	1 - 1 x 2	—	—	—	—	—	—	—	—	—	—
	1 - 2 x 2	—	—	—	—	—	—	—	—	—	—
With grounding		—	—	—	—	—	—	—	—	—	—
Clip-on, mounting on:	35 mm 	•	•	•	•	•	•	•	•	•	•
	35 mm 	•	•	•	•	•	•	•	•	•	•
	35 mm 	•	•	•	•	•	•	•	•	•	•
	35 mm 	—	—	—	—	—	—	—	—	—	—
	15 mm 	•	•	—	—	—	•	—	—	—	—
Display		—	—	—	—	—	—	—	—	•	•
Colors	Gray	•	•	•	•	—	—	—	•	•	•
	Blue	•	•	•	•	—	—	—	•	—	—
	Green/yellow	—	—	—	—	•	•	•	—	—	—
	Orange	•	•	•	—	—	—	—	—	—	—
	Red	—	•	—	—	—	—	—	—	—	—
	Green	—	•	—	—	—	—	—	—	—	—
	White	—	•	—	—	—	—	—	—	—	—
	Black	—	•	—	—	—	—	—	—	—	—
Catalog numbers		AB1VV				AB1TP			AB1SC	AB1FUSE	AB1SF
Marking accessories		See pages 5/2 and 5/3									

Applications (connection)		Fixed component		Double deck		For proximity sensors	Multi-function	For neutral conductors	Lug-connector	Screw-clip	
		For diode	For fuse	Multi-pole	Double deck						
											
Nominal wire size	AWG (mm²)	12 (2.5)	6 (10)	10 (4)	10 (4)	12 (2.5)	10 (4)	10–4 (4–16)	350–500 kcmil (95/185/240)	350–500 kcmil (95/150/240)	10 (4)
Number of poles	1 - 1 x 1	—	●	—	—	● + 2 or 3 poles	—	●	●	●	●
	2 - 1 x 1	●	—	●	●		●	—	—	—	—
	3 - 1 x 1	—	—	—	—	●	—	—	—	—	
	5 - 1 x 1	—	—	—	—	—	—	—	—	—	
	10 - 1 x 1	—	—	—	—	—	—	—	—	—	
	1 - 1 x 2	—	—	●	—	—	—	—	—	—	
	1 - 2 x 2	—	—	●	●	—	●	—	—	—	
	With grounding	—	—	●	●	●	●	—	—	—	
Clip-on, mounting on:	35 mm 	●	●	●	●	●	●	●	●	●	
	35 mm 	●	●	●	●	●	●	●	●	●	
	35 mm 	●	●	●	●	●	—	●	—	●	
	35 mm 	—	—	—	—	—	—	—	—	—	
	15 mm 	—	—	—	—	—	—	—	—	—	
Display		—	●	●	●	●	●	—	—	—	
Colors	Gray	●	●	●	●	●	●	—	●	●	●
	Blue	—	—	—	—	—	—	●	—	—	—
	Green/yellow	—	—	●	●	—	—	—	—	—	—
	Orange	—	—	—	●	—	—	—	—	—	—
	Red	—	—	—	●	—	—	—	—	—	—
	Green	—	—	—	—	—	—	—	—	—	—
	White	—	—	—	—	—	—	—	—	—	—
	Black	—	—	—	●	—	—	—	—	—	—
Catalog numbers		AB1D11	AB1FU10	AB1ETN	AB1ET4	AB1DDP AB1ET3	AB1TR	AB1NEN	AB1BB	AB1BC	AB1FV AB1FC
Marking accessories		See pages 5/2 and 5/3.									

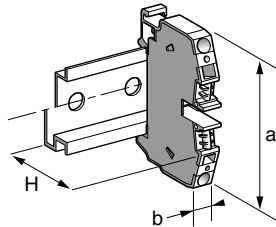
Terminal Blocks, Type AB1

Screw clamp technology
Passthrough

Clip-on mounting on 35 mm $\frac{1}{2}$ 5 rails

Nominal wire size

2.5 mm²



1

Approximate dimensions, in. (mm)	Length (a)	
	Width (b)	
	Height (H)	$\frac{1}{2}$ 5 rail
Wire size, mm ²	Stranded w/o cable end	
	Stranded + cable end	
	Solid	
Tightening torque	IEC	
	UL	
Nominal electrical values	IEC/EN 60947-7-1 (1)	
	UL (4)	
	CSA (5)	
	UTE, category C	
	VDE, group C	
	ATEX - EEx eII II 2GD	

AB1VV235U**

1.57 (40)
0.20 (5)
2.20 (56)
1.91 (48.5)
2.09 (53)
0.5–2.5
0.5–1.5
0.5–4
0.4–0.6 N•m
8.0 lbf-in
800 V / 8 kV / 3–24 A
22–12 AWG, 600 V, 20 A
24–12 AWG, 600 V, 25 A
500 Vac, 500 Vdc
750 Vac, 900 Vdc, 26 A
2.5 mm ² , 750 V, 23 A, KEMA 02 ATEX 2114 U
See the tables beginning on page 1/12.

Certifications

Terminal blocks

Gray
Blue
Orange
Red
Green
White
Black

No. points	Sold in lots of	Catalog number	Weight oz (g)
2	100	AB1VV235U	0.23 (6.5)
2	100	AB1VV235UBL	0.23 (6.5)
2	100	AB1VV235UGE	0.23 (6.5)
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

Accessories

2 Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on $\frac{1}{2}$	—	100	AB1AB7P32	0.15 (4.2)
	Width 0.3 in. (8 mm) on $\frac{1}{2}$ or $\frac{1}{4}$	—	100	AB1AB8P35	0.21 (5.9)
3 Metal end clamp with screw	Width 0.4 in. (10 mm) on $\frac{1}{2}$	—	100	AB1AB10M32	0.23 (6.5)
	Width 0.3 in. (8 mm) on $\frac{1}{2}$ or $\frac{1}{4}$	—	100	AB1AB8M35	0.52 (14.8)
4 Clip-on plastic end clamp (2)		—	100	AB1AB8R35	0.21 (5.9)
5 Marker holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6 End plate thickness 0.06 in. (1.5 mm)	Gray	—	50	AB1AC24	0.07 (1.9)
	Blue	—	50	AB1AC24BL	0.07 (1.9)
	Orange	—	50	AB1AC24GE	0.07 (1.9)
7 Partition plate thickness 0.06 in. (1.5 mm)	Gray	—	50	AB1AS24	0.09 (2.6)
	Blue	—	50	AB1AS24BL	0.09 (2.6)
	Red	—	—	—	—
	Black	—	—	—	—
8 Jumper with screws	Non-insulated	80	10	AB1AL2	3.7 (105.0)
	Insulated (3)	2	10	AB1ALN22	0.07 (2.0)
9 Jumper for 2 blocks (1)		10	10	AB1ALN210	0.35 (10.0)
10 Socket for test plug, $\varnothing$ 0.09 in. (2.3 mm)		2	50	AB1BL2	0.35 (10.0)
11 Test plug	Red	—	50	AB1A2	0.018 (0.5)
12 Terminal cover		—	50	AB1AT1	0.06 (1.7)
13/15 Marking accessories		4	100	AB1CS2	0.007 (0.2)
16 Yellow partition plate		1	100	AB1CJ2	0.011 (0.3)
17/18 Yellow protective cover	Single point	1	100	AB1CA2	0.004 (0.1)
	10 points	—	—	—	—

—	100	AB1AB7P32	0.15 (4.2)
—	100	AB1AB8P35	0.21 (5.9)
—	100	AB1AB10M32	0.23 (6.5)
—	100	AB1AB8M35	0.52 (14.8)
—	100	AB1AB8R35	0.21 (5.9)
—	10	AB1SB4	0.11 (3.1)
—	50	AB1AC24	0.07 (1.9)
—	50	AB1AC24BL	0.07 (1.9)
—	50	AB1AC24GE	0.07 (1.9)
—	50	AB1AS24	0.09 (2.6)
—	50	AB1AS24BL	0.09 (2.6)
—	—	—	—
—	—	—	—
80	10	AB1AL2	3.7 (105.0)
2	10	AB1ALN22	0.07 (2.0)
10	10	AB1ALN210	0.35 (10.0)
2	50	AB1BL2	0.35 (10.0)
—	50	AB1A2	0.018 (0.5)
—	50	AB1AT1	0.06 (1.7)
4	100	AB1CS2	0.007 (0.2)
See pages 5/2 and 5/3.			
1	100	AB1CJ2	0.011 (0.3)
1	100	AB1CA2	0.004 (0.1)
—	—	—	—

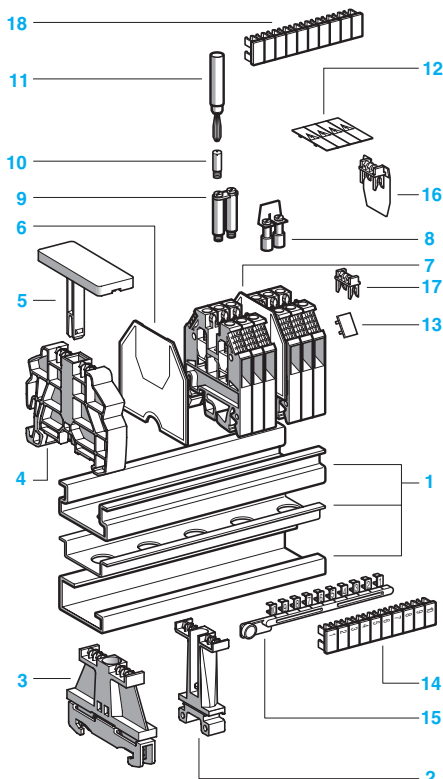


Table Footnotes:

- (1) When using jumpers, the rated voltage is reduced to 400 V/6 kV/3.
- (2) Width 0.3 in. (8 mm) on $\frac{1}{2}$ or $\frac{1}{4}$.
- (3) Depending on the size of the terminal block, other jumpers between 2 and 12 points may be available.
- (4) File E164359 CCN XCFR2.
- (5) File 702070 Class 6228 01.

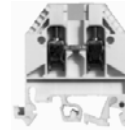
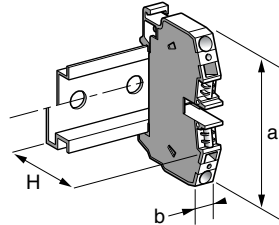
Terminal Blocks, Type AB1

Screw clamp technology
Passthrough

Clip-on mounting on 35 mm rails

Nominal wire size

4 mm²



AB1VV435U**

1	Approximate dimensions, in. (mm)	Length (a)	1.57 (40)
		Width (b)	0.24 (6)
		Height (H) with 	2.20 (56)
		 rail	1.91 (48.5)
Wire size, mm ²	Stranded w/o cable end	2.09 (53)	
	Stranded + cable end	0.5–4	
	Solid	0.5–2.5	
Tightening torque	IEC	0.5–6	
	UL	0.5–0.7 N•m	
Nominal electrical values	IEC/EN 60947-7-1 (1)	8.0 lbf-in	
	UL (4)	800 V / 8 kV / 3–32 A	
	CSA (5)	22–10 AWG, 600 V, 30 A	
	UTE, category C	24–10 AWG, 600 V, 40 A	
	VDE, group C	500 Vac, 500 Vdc	
	ATEX - EEx ell II 2GD	750 Vac, 900 Vdc, 34 A	
Certifications		4 mm ² , 750 V, 14/27 A, KEMA 02 ATEX 2114 U	
	See the tables beginning on page 1/12.		

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2	100	AB1VV435U	0.28 (7.8)
Blue	2	100	AB1VV435UBL	0.28 (7.8)
Orange	2	100	AB1VV435UGE	0.28 (7.8)
Red	2	100	AB1VV435URO	0.28 (7.8)
Green	2	100	AB1VV435UVE	0.28 (7.8)
White	2	100	AB1VV435UBLA	0.28 (7.8)
Black	2	100	AB1VV435UNO	0.28 (7.8)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on  Width 0.3 in. (8 mm) on  or 	—	100	AB1AB7P32	0.15 (4.2)
			—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.4 in. (10 mm) on  Width 0.3 in. (8 mm) on  or 	—	100	AB1AB10M32	0.23 (6.5)
			—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp (2)		—	100	AB1AB8R35	0.21 (5.9)
5	Marker holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Gray Blue Orange Red Black	—	50	AB1AC24	0.07 (1.9)
			—	50	AB1AC24BL	0.07 (1.9)
			—	50	AB1AC24GE	0.07 (1.9)
			—	50	AB1AC24RO	0.07 (1.9)
			—	50	AB1AC24NO	0.07 (1.9)
7	Partition plate thickness 0.06 in. (1.5 mm)	Gray Blue Red Black	—	50	AB1AS24	0.09 (2.6)
			—	50	AB1AS24BL	0.09 (2.6)
			—	50	AB1AS24RO	0.09 (2.6)
			—	50	AB1AS24NO	0.09 (2.6)
8	Jumper with screws	Non-insulated Insulated (3)	70	10	AB1AL4	5.10 (145.0)
			2	10	AB1ALN42	0.10 (2.9)
			10	10	AB1ALN410	0.63 (18.0)
9	Jumper for 2 blocks (1)		2	50	AB1BL4	0.42 (12.0)
10	Socket for test plug, Ø 0.09 in. (2.3 mm)		—	50	AB1A4	0.19 (5.4)
11	Test plug	Red	—	50	AB1AT1	0.06 (1.7)
12	Terminal cover		1	100	AB1CS4	0.028 (0.8)
13/15	Marking accessories		See pages 5/2 and 5/3.			
16	Yellow partition plate		1	100	AB1CJ4	0.032 (0.9)
17/18	Yellow protective cover	Single point 10 points	1	100	AB1CA4	0.004 (0.1)
			10	50	AB1CA410ET	0.035 (1.0)

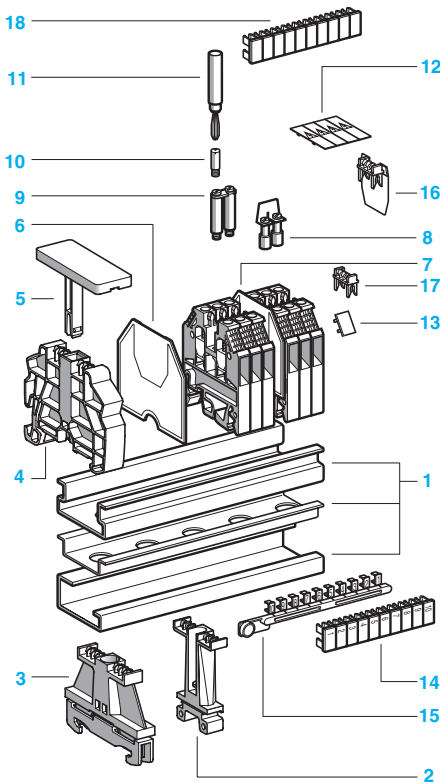


Table Footnotes:

- (1) When using jumpers, the rated voltage is reduced to 400 V/6 kV/3.
(2) Width 0.3 in. (8 mm) on  or .
(3) Depending on the size of the terminal block, other jumpers between 2 and 12 points may be available.
(4) File E164359 CCN XCFR2.
(5) File 702070 Class 6228 01.

Terminal Blocks, Type AB1

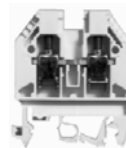
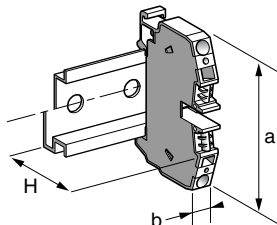
Screw clamp technology

Passthrough

Clip-on mounting on 35 mm ± 5 rails

Nominal wire size

6 mm²



Approximate dimensions in. (mm)	Length (a)	1.81 (46)
	Width (b)	0.31 (8)
	Height (H) on ± 5 rail	2.40 (61)
	with ± 5 rail	2.11 (53.5)
Wire size, mm ²	Stranded w/o cable end	0.5–6
	Stranded + cable end	0.5–6
	Solid	0.5–10
Tightening torque	IEC	1.2–1.6 N•m
	UL	20.0 lbf-in
Nominal electrical values	IEC/EN 60947-7-1 (1)	800 V / 8 kV / 3–41 A
	UL (4)	22–8 AWG, 600 V, 50 A
	CSA (5)	24–8 AWG, 600 V, 45 A
	UTE, category C	500 Vac, 500 Vdc
	VDE, group C	750 Vac, 900 Vdc, 44 A
	ATEX - EEx eII II 2GD	6 mm ² , 750 V, 35/38 A, KEMA 02 ATEX 2114 U
Certifications		See the tables beginning on page 1/12.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2	100	AB1VV635U	0.52 (14.8)
Blue	2	100	AB1VV635UBL	0.52 (14.8)
Orange	2	100	AB1VV635UGE	0.52 (14.8)
Red	—	—	—	—
Green	—	—	—	—
White	—	—	—	—
Black	—	—	—	—

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on ± 5	—	100	AB1AB7P32	0.15 (4.2)
		Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.4 in. (10 mm) on ± 5	—	100	AB1AB10M32	0.23 (6.5)
		Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp (2)		—	100	AB1AB8R35	0.21 (5.9)
5	Marker holder for clip-on plast. end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Gray	—	50	AB1AC6	0.09 (2.6)
		Blue	—	50	AB1AC6BL	0.09 (2.6)
		Orange	—	50	AB1AC6GE	0.09 (2.6)
7	Partition plate	Gray	—	50	AB1AS6	0.12 (3.3)
		Blue	—	50	AB1AS6BL	0.12 (3.3)
		Red	—	—	—	—
		Black	—	—	—	—
8	Jumper with screws	Non-insulated	80	10	AB1AL6	8.40 (237.0)
		Insulated (3)	2	10	AB1ALN62	0.22 (6.1)
			10	10	AB1ALN610	1.10 (30.5)
			2	50	AB1BL6	0.56 (16.0)
9	Jumper for 2 blocks (1)		—	50	AB1A6	0.035 (1.0)
10	Socket for test plug, $\varnothing$ 0.16 in. (4 mm)		—	50	AB1AT2	0.06 (1.7)
11	Test plug	Black	4	100	AB1CS6	0.05 (1.5)
12	Terminal cover					
13/15	Marking accessories					See pages 5/2 and 5/3.
16	Yellow partition plate		1	100	AB1CJ6	0.018 (0.5)
17/18	Yellow protective cover	Single point	1	100	AB1CA6	0.007 (0.2)
		10 points	—	—	—	—

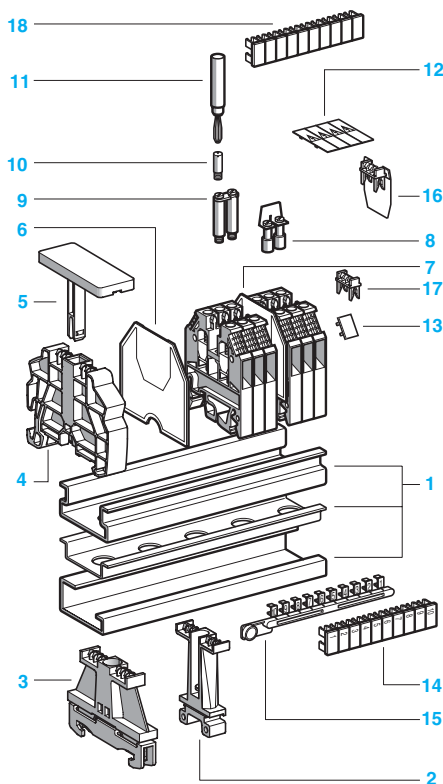


Table Footnotes:

- (1) When using jumpers, the rated voltage is reduced to 400 V/6 kV/3.
- (2) Width 0.3 in. (8 mm) on ± 5 or ± 5 .
- (3) Depending on the size of the terminal block, other jumpers between 2 and 12 points may be available.
- (4) File E164359 CCN XCFR2.
- (5) File 702070 Class 6228 01.

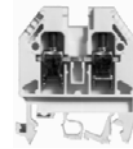
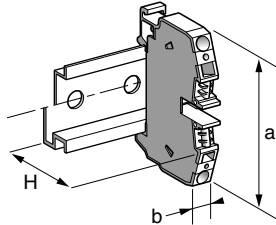
Terminal Blocks, Type AB1

Screw clamp technology
Passthrough

Clip-on mounting on 35 mm rails

Nominal wire size

10 mm²



AB1VVN1035U**

Approximate dimensions in. (mm)	Length (a)	2.01 (51)
	Width (b)	0.39 (10)
	Height (H) on  rail	2.46 (62.5)
	Height (H) on  rail	2.17 (55)
	Height (H) on  rail	2.34 (59.5)
Wire size, mm ²	Stranded w/o cable end	2.5–10
	Stranded + cable end	2.5–10
	Solid	6–16
Tightening torque	IEC	2.0–2.5 N•m
	UL	35.0 lbf-in
Nominal electrical values	IEC/EN 60947-7-1 (1)	800 V / 8 kV / 3–57 A
	UL (4)	16–6 AWG, 600 V, 65 A
	CSA (5)	16–6 AWG, 600 V, 70 A
	UTE, category C	500 Vac, 500 Vdc
	VDE, group C	750 Vac, 900 Vdc, 63 A
	ATEX - EEx ell II 2GD	10 mm ² , 750 V, 43 / 56 A, KEMA 02 ATEX 2114 U

Certifications

See the tables beginning on page 1/12.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2	50	AB1VVN1035U	0.92 (26.0)
Blue	2	50	AB1VVN1035UBL	0.92 (26.0)
Orange	—	—	—	—
Red	—	—	—	—
Green	—	—	—	—
White	—	—	—	—
Black	—	—	—	—

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on  Width 0.3 in (8 mm) on  or 	—	100	AB1AB7P32	0.15 (4.2)
			—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.4 in. (10 mm) on  Width 0.3 in. (8 mm) on  or 	—	100	AB1AB10M32	0.23 (6.5)
			—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp (2)		—	100	AB1AB8R35	0.23 (5.9)
5	Marker holder for clip-on plastic end clamp		—	10	AB1SB4	0.21 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Gray Blue	—	10	AB1ACN10	0.13 (3.7)
			—	10	AB1ACN10BL	0.13 (3.7)
7	Partition plate thickness 0.06 in. (1.5 mm)	Gray Blue Red Black	—	10	AB1ASN10	0.16 (4.5)
			—	—	—	—
			—	—	—	—
			—	—	—	—
8	Jumper with screws	Non-insulated Insulated (3)	40	10	AB1ALN10	6.30 (4.5)
			2	10	AB1ALN102	0.41 (11.6)
			10	10	AB1ALN1010	2.05 (58.0)
			2	50	AB1BL10	0.78 (22.0)
9	Jumper for 2 blocks (1)		—	50	AB1A10	0.035 (1.0)
10	Socket for test plug, Ø 0.16 (4 mm)		—	50	AB1AT2	0.06 (1.7)
11	Test plug	Black	—	50	AB1CSN10	0.05 (1.4)
12	Terminal cover		4	100	AB1CSN10	0.05 (1.4)
13/15	Marking accessories		See pages 5/2 and 5/3.			
16	Yellow partition plate		1	100	AB1CJN10	0.025 (0.7)
17/18	Yellow protective cover	Single point 10 points	1	100	AB1CA10	0.011 (0.3)
			—	—	—	—

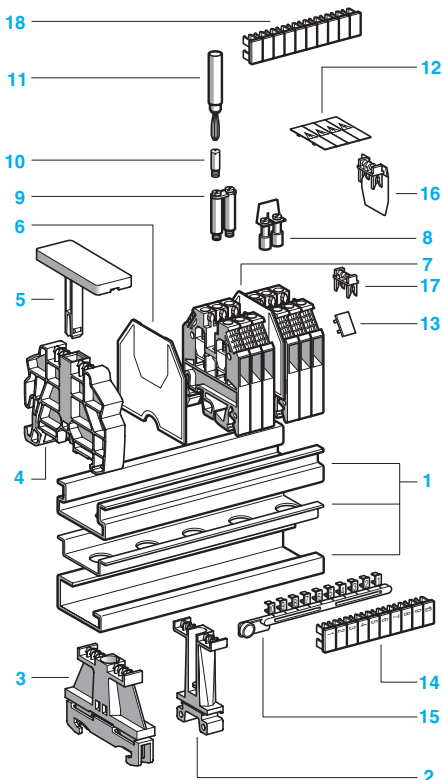


Table Footnotes:

- (1) When using jumpers, the rated voltage is reduced to 400 V/6 kV/3.
(2) Width 0.3 in. (8 mm) on  or .
(3) Depending on the size of the terminal block, other jumpers between 2 and 12 points may be available.
(4) File E164359 CCN XCFR2.
(5) File 702070 Class 6228 01.

Terminal Blocks, Type AB1

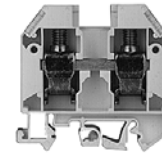
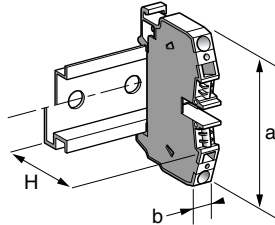
Screw clamp technology

Passthrough

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

16 mm²



AB1VVN1635U**

Approximate dimensions, in. (mm)

1	Length (a)	2.26 (57.5)
	Width (b)	0.47 (12)
	Height (H) $\frac{25}{8}$ rail	2.56 (65)
	with $\frac{25}{8}$ rail	2.26 (57.5)
Wire size, mm ²	Stranded without cable end	4–16
	Stranded with cable end	4–16
	Solid	10–25
Tightening torque	IEC	2.5–3.0 N•m
	UL	35.0 lbf-in
Nominal electrical values	IEC/EN 60947-7-1	800 V / 8 kV / 3–76 A
	UL File E164359 CCN XCFR2	12–4 AWG, 600 V, 85 A
	CSA File 702070 Class 6228 01	14–4 AWG, 600 V, 95 A
	UTE, category C	500 Vac, 500 Vdc
VDE, group C		750 Vac, 900 Vdc, 85 A
	ATEX - EEx ell II 2GD	16 mm ² , 750 V, 66 / 71 A, KEMA 02 ATEX 2114 U

Certifications

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2	50	AB1VVN1635U	1.41 (40.0)
Blue	2	50	AB1VVN1635UBL	1.41 (40.0)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on 	—	100	AB1AB7P32	0.15 (4.2)	
		Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8P35	0.21 (5.9)	
3	Metal end clamp with screw	Width 0.4 in. (10 mm) on 	—	100	AB1AB10M32	0.23 (6.5)	
		Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8M35	0.52 (14.8)	
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8R35	0.21 (5.9)	
5 Marker tag holder for clip-on plastic end clamp				10	AB1SB4	0.11 (3.1)	
	End plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1ACN16	0.19 (5.4)	
		Blue	—	10	AB1ACN16BL	0.19 (5.4)	
		Gray	—	10	AB1ASN16	0.23 (6.4)	
6	Partition plate thickness 0.06 in. (1.5 mm)	Width 0.08 in. (2.0 mm)	Gray	—	10	AB1ASN16	0.23 (6.4)
		Width 0.12 in. (3.0 mm)	Gray	—	—	—	—
7	Jumper with screws	Non-insulated	30	10	AB1ALN16	11.29 (320.0)	
		Insulated (1)	2	10	AB1ALN162	0.88 (25.0)	
			10	10	AB1ALN1610	4.41 (125.0)	
			—	50	AB1A16	0.035 (1.0)	
8	Socket for test plug, Ø 0.16 (4 mm)		—	50	AB1AT2	0.06 (1.7)	
9	Test plug	Black	4	10	AB1CSN16	0.05 (1.4)	
10 Terminal cover							
11/12 Marking accessories			See pages 5/2 and 5/3.				
	Yellow partition plate		1	10	AB1CJN16	0.011 (0.3)	
			1	100	AB1CA16	0.018 (0.5)	
	Yellow protective cover						

See pages 5/2 and 5/3.

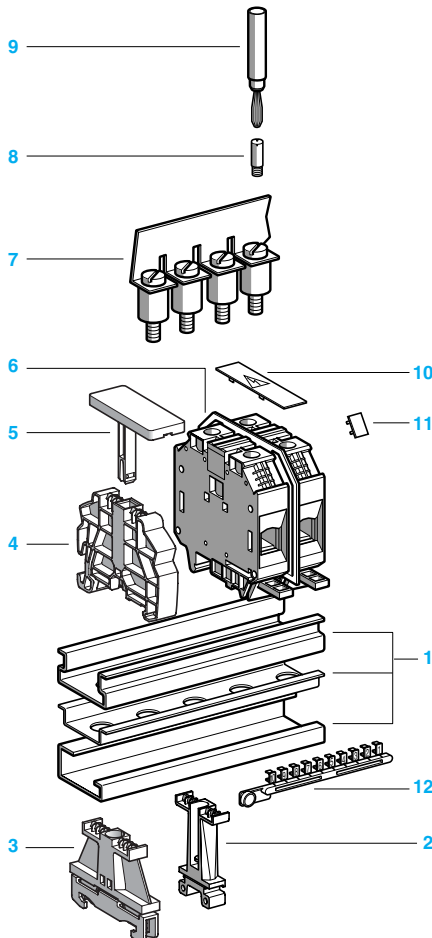


Table Footnote:

(1) Depending on the size of the terminal block, other jumpers between 2 and 12 points may be available.

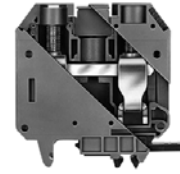
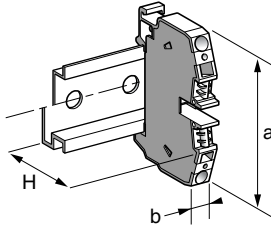
Terminal Blocks, Type AB1

Screw clamp technology
Passthrough

Clip-on mounting on 35 mm rails

Nominal wire size

35 mm²



AB1VVN3535U**

Approximate dimensions, in. (mm)

1	Length (a)	2.48 (63)
	Width (b)	0.63 (16)
	Height (H) on  rail	2.96 (75.1)
	with  rail	2.66 (67.6)
	with  rail	2.72 (69)

Wire size, mm²

Stranded without cable end	10–35
Stranded with cable end	10–35
Solid	10–50

Tightening torque

IEC	2.5–3.0 N•m
UL	50 lbf-in

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–125 A
UL File E164359 CCN XCFR2	10–2 AWG, 600 V, 95 A
CSA File 702070 Class 6228 01	12–2 AWG, 600 V, 110 A
UTE, category C	500 Vac, 500 Vdc
VDE, group C	750 Vac, 900 Vdc, 138 A
ATEX - EEx ell II 2GD	35 mm ² , 750 V, 86 / 124 A, KEMA 02 ATEX 2114 U

Certifications

See the tables beginning on page 1/12.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2	20	AB1VVN3535U	2.50 (71.0)
Blue	2	20	AB1VVN3535UBL	2.50 (71.0)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on  Width 0.3 in. (8 mm) on  or 	—	100	AB1AB7P32	0.15 (4.2)
			—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.4 in. (10 mm) on  Width 0.3 in. (8 mm) on  or 	—	100	AB1AB10M32	0.23 (6.5)
			—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
	End plate thickness 0.06 in. (1.5 mm)	Gray	—	—	—	—
		Blue	—	—	—	—
6	Partition plate thickness 0.06 in. (1.5 mm)	Gray, width .08 in. (2.0 mm)	—	10	AB1ASN35	0.25 (7.0)
		Gray, width 1.9 in. (3.0 mm)	—	—	—	—
7	Jumper with screws	Non-insulated Insulated (1)	—	—	—	—
			2	10	AB1ALN352	0.99 (28.0)
			20	10	AB1ALN35	10.02 (284.0)
8	Socket for test plug Ø 0.16 in. (4 mm)		—	50	AB1A35	0.10 (2.7)
9	Test plug	Black	—	50	AB1AT2	0.06 (1.7)
10	Terminal cover		4	10	AB1CSN35	0.05 (1.4)
11/12	Marking accessories		See pages 5/2 and 5/3.			
	Yellow partition plate		—	—	—	—
	Yellow protective cover		1	50	AB1CA35	0.025 (0.7)

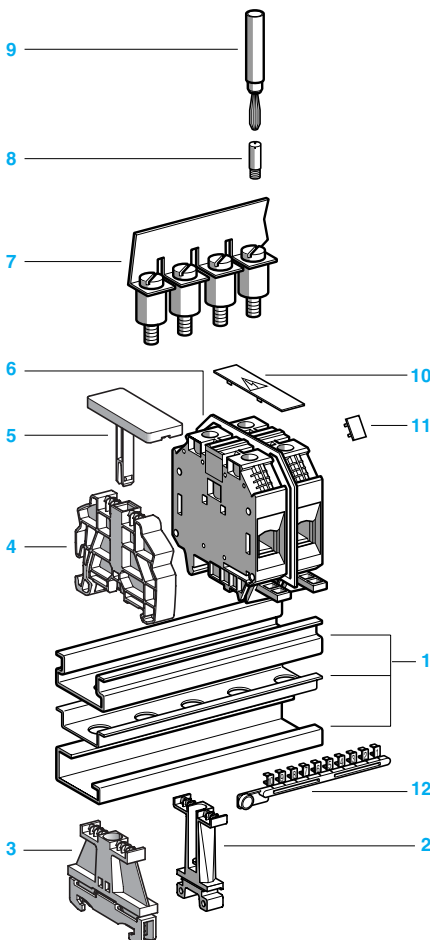


Table Footnote:

(1) Depending on the size of the terminal block, other jumpers between 2 and 12 points may be available.

Terminal Blocks, Type AB1

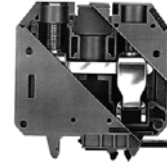
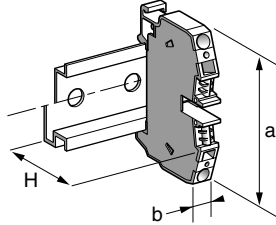
Screw clamp technology

Passthrough

Clip-on mounting on 35 mm rails

Nominal wire size

70 mm²



AB1VVN7035U**

Approximate dimensions, in. (mm)

1	Length (a)	2.96 (75.2)
	Width (b)	0.94 (24)
	Height (H) on  rail	3.49 (88.7)
	with  rail	3.20 (81.2)
	with  rail	3.26 (82.7)
	Wire size, mm ²	10–70
	Stranded without cable end	10–70
	Stranded with cable end	16–95
	Solid	6–10 N•m
	Tightening torque	150 lbf-in
	IEC	800 V / 8 kV / 3–192 A
	Nominal electrical values	6–2/0 AWG, 600 V, 175 A
	UL File E164359 CCN XCFR2	6–2/0 AWG, 600 V, 170 A
	CSA File 702070 Class 6228 01	500 Vac, 500 Vdc
	UTE, category C	750 Vac, 900 Vdc, 213 A
	VDE, group C	70 mm ² , 750 V, 179 A, KEMA 02 ATEX 2114 U
	ATEX - EEx eII II 2GD	See the tables beginning on page 1/12.

Certifications

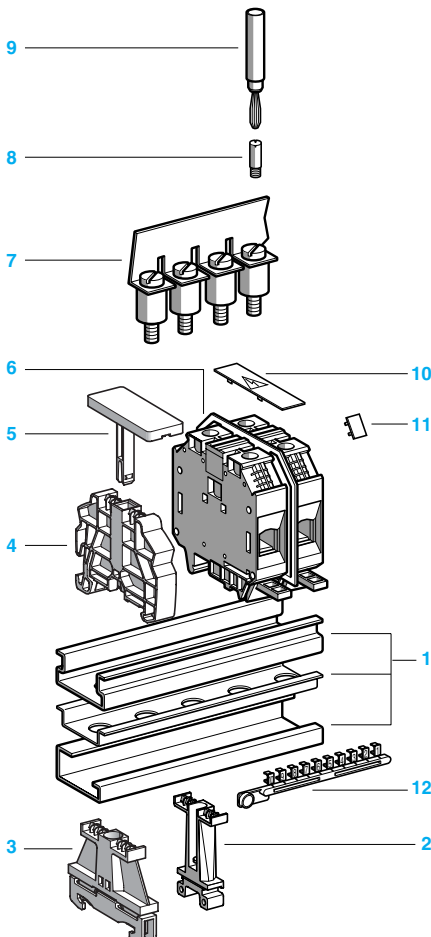
Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2	20	AB1VVN7035U	6.10 (173.0)
Blue	2	20	AB1VVN7035UBL	6.10 (173.0)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on  Width 0.3 in. (8 mm) on  or 	—	100	AB1AB7P32	0.15 (4.2)
3	Metal end clamp with screw	Width 0.4 in. (10 mm) on  Width 0.3 in. (8 mm) on  or 	—	100	AB1AB10M32	0.23 (6.5)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
	End plate thickness	Gray	—	—	—	—
		Blue	—	—	—	—
6	Partition plate	Gray, width .08 in (2.0 mm) thickness 0.06 in. (1.5 mm)	—	—	—	—
		Gray, width 0.12 in. (3.0 mm) thickness 0.06 in. (1.5 mm)	—	10	AB1ASN70	0.78 (22.0)
7	Jumper with screws	Non-insulated Insulated (1)	2	10	AB1ALN702	0.79 (22.3)
8	Socket for test plug, Ø 0.16 (4 mm)		—	—	—	—
9	Test plug	Black	—	—	—	—
10	Terminal cover		4	10	AB1CSN10	0.05 (1.4)
11/12	Marking accessories		See pages 5/2 and 5/3.			
	Yellow partition plate		—	—	—	—
	Yellow protective cover		—	—	—	—

(1) Depending on the size of the terminal block, other jumpers between 2 and 12 points may be available.



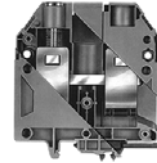
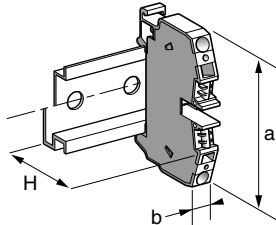
Terminal Blocks, Type AB1

Screw clamp technology
Passthrough

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

150 mm²



AB1VVN15035U••

1	Approximate dimensions, in. (mm)	Length (a)		3.61 (91.7)
		Width (b)		1.10 (28)
		Height (H) with	 rail	4.18 (106.1)
			 rail	3.88 (98.6)
			 rail	100.1 (3.94)
Wire size, mm ²	Stranded without cable end		35–150	
	Stranded with cable end		35–150	
	Solid		35–185	
Tightening torque	IEC		10–15 N•m	
	UL		150 lbf-in	
Nominal electrical values	IEC/EN 60947-7-1		1000 V / 8 kV / 3–309 A	
	UL	File E164359 CCN XCFR2	2/0 AWG – 350 kcmil, 600 V, 335 A	
	CSA	File 702070 Class 6228 01	2/0 AWG – 300 kcmil, 600 V, 300 A	
	UTE, category C		500 Vac, 500 Vdc	
	VDE, group C		750 Vac, 900 Vdc, 344 A	
	ATEX - EEx ell II 2GD		150 mm ² , 750 V, 290 / 309 A, KEMA 02 ATEX 2114 U	

Certifications

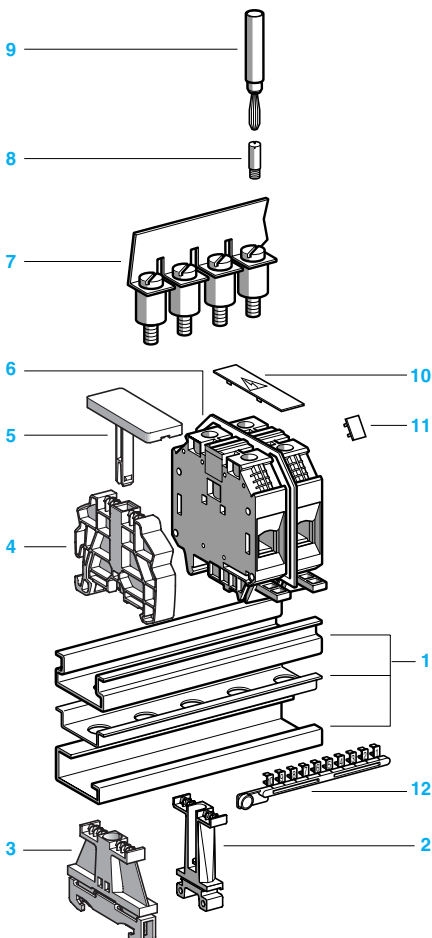
Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2	10	AB1VVN15035U	9.43 (267.2)
Blue	2	10	AB1VVN15035UBL	9.43 (267.2)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on $\frac{25}{8}$	—	100	AB1AB7P32	1.5 (4.2)
		Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.4 in. (10 mm) on $\frac{25}{8}$	—	100	AB1AB10M32	0.23 (6.5)
		Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
	End plate	Gray	—	—	—	—
	thickness	Blue	—	—	—	—
	0.06 in. (1.5 mm)		—	—	—	—
6	Partition plate	Gray, width 0.08 in (2.0 mm)	—	—	—	—
	thickness 0.06 in. (1.5 mm)	Gray, width 0.12 in. (3.0 mm)	—	—	—	—
7	Jumper with screws	Non-insulated	2	10	AB1ALN1502	5.15 (146.0)
		Insulated (1)	—	—	—	—
8	Socket for test plug	Ø 0.16 in. (4 mm)	—	—	—	—
9	Test plug	Black	—	—	—	—
10	Terminal cover		4	10	AB1CSN150	0.11 (3.2)
11/12	Marking accessories		See pages 5/2 and 5/3.			
	Yellow partition plate		—	—	—	—
	Yellow protective cover		—	—	—	—

(1) Depending on the size of the terminal block, other jumpers between 2 and 12 points may be available.



Terminal Blocks, Type AB1

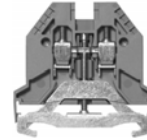
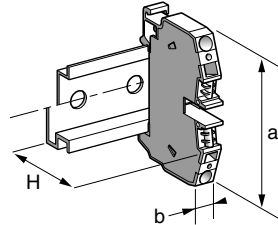
Screw clamp technology

Grounding type

Clip-on mounting on 35 mm rails

Nominal wire size

2.5 mm²



AB1TP 235U

Approximate dimensions, in. (mm)

1	Length (a)	1.91 (48.6)
	Width (b)	0.20 (5.1)
	Height (H) on  rail	1.91 (48.5)
	with  rail	2.20 (56)
	with  rail	2.39 (60.5)

Wire size, mm²

Stranded without cable end	0.5–2.5
Stranded with cable end	0.5–2.5
Solid	0.5–4

Tightening torque

IEC	0.4–0.6 N•m
UL	8.0 lbf-in

Nominal electrical values

IEC/EN 60947-7-1	500 V / 6kV / 3
UL File E164359 CCN XCFR2	22–12 AWG
CSA File 702070 Class 6228 01	24–12 AWG
VDE, group C	—
ATEX - EEx ell  II 2GD	—

Certifications

See the tables beginning on page 1/12.

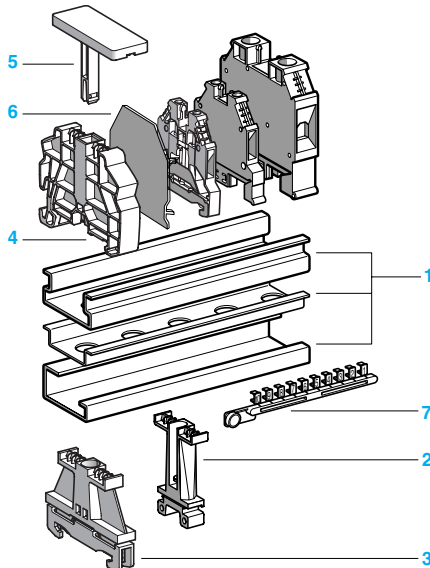
Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Green/yellow	2	100	AB1TP235U	0.46 (12.9)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on 	—	100	AB1AB7P32	0.15 (4.2)
		Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (7.5 mm) on 	—	100	AB1AB10M32	0.23 (6.5)
		Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate		—	10	AB1AC25	0.07 (1.9)
7	Marking accessories		See pages 5/2 and 5/3			

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Terminal Blocks, Type AB1

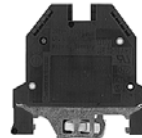
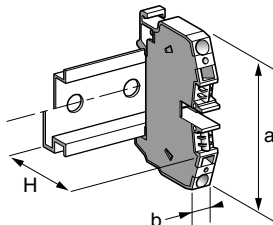
Screw clamp technology

Grounding type

Clip-on mounting on 35 mm rails

Nominal wire size

4 mm²



AB1TP435U

Approximate dimensions, in. (mm)

1	Length (a)	2.01 (51)
	Width (b)	0.24 (6)
	Height (H) on 	2.20 (56)
	with 	1.91 (48.5)
	with 	2.09 (53)

Wire size, mm²

Stranded without cable end	0.5–4
Stranded with cable end	0.5–2.5
Solid	0.5–6

Tightening torque

IEC	0.5–0.7 N•m
UL	8.0 lbf-in

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–32 A
UL File E164359	22–10 AWG, 600 V
CCN XCFR2	
CSA File 702070	20–10 AWG, 600 V
Class 6228 01	
VDE, group C	750 Vac, 900 Vdc, 35 A
ATEX - EEx ell  II 2GD	4 mm ² , KEMA 02 ATEX 2114 U

Certifications

See the tables beginning on page 1/12.

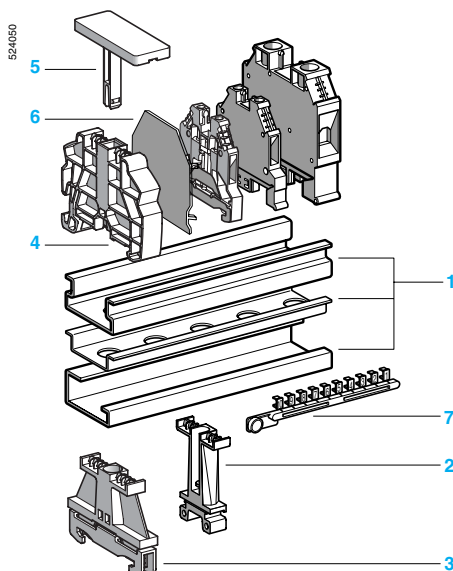
Terminal blocks

Green/yellow

No. points	Sold in lots of	Catalog number	Weight oz (g)
2	100	AB1TP435U	0.88 (25.0)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on 	—	100	AB1AB7P32	0.15 (4.2)
		Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (7.5 mm) on 	—	100	AB1AB10M32	0.23 (6.5)
		Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate		—	—	—	—
7	Marking accessories		See pages 5/2 and 5/3			



Terminal Blocks, Type AB1

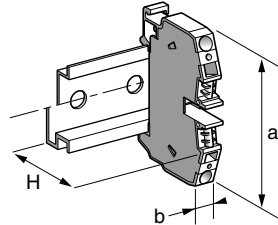
Screw clamp technology

Grounding type

Clip-on mounting on 35 mm rails

Nominal wire size

6 mm²



AB1TP635U

Approximate dimensions, in. (mm)

1	Length (a)	2.13 (54)
	Width (b)	0.31 (8)
	Height (H) on  rail	2.40 (61)
	with  rail	2.11 (53.5)
	on  rail	2.28 (58)

Wire size, mm²

Stranded without cable end	0.5–6
Stranded with cable end	0.5–6
Solid	0.5–10

Tightening torque

IEC	1.2–1.6 N•m
UL	20 lbf-in

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–41 A
UL File E164359 CCN XCFR2	22–8 AWG, 600 V
CSA File 702070 Class 6228 01	24–8 AWG, 600 V
VDE, group C	750 Vac, 900 Vdc, 46 A
ATEX - EEx ell  II 2GD	6 mm ² , KEMA 02 ATEX 2114 U

Certifications

See the tables beginning on page 1/12.

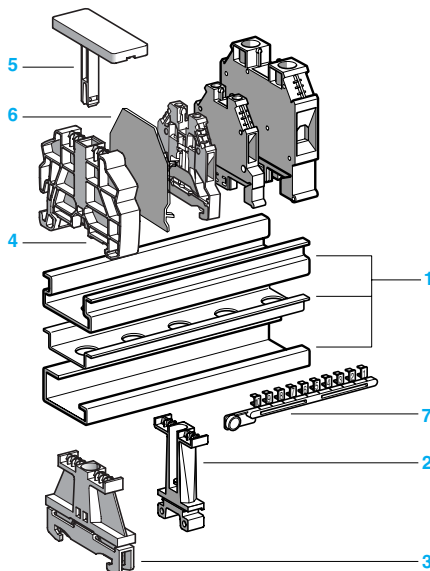
Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Green/yellow	2	50	AB1TP635U	2.68 (76.0)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on 	—	100	AB1AB7P32	0.15 (4.2)
		Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (7.5 mm) on 	—	100	AB1AB10M32	0.23 (6.5)
		Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate		—	—	—	—
7	Marking accessories		See pages 5/2 and 5/3			

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Terminal Blocks, Type AB1

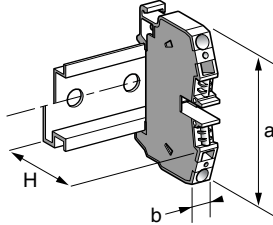
Screw clamp technology

Grounding type

Clip-on mounting on 35 mm rails

Nominal wire size

10 mm²



AB1TP1035U

Approximate dimensions, in. (mm)

1	Length (a)	2.13 (54)
	Width (b)	0.39 (10)
	Height (H)  rail	2.46 (62.5)
	with  rail	2.17 (55)
	with  rail	2.34 (59.5)

Wire size, mm²

Stranded without cable end	2.5–10
Stranded with cable end	2.5–10
Solid	6–16

Tightening torque

IEC	2.0–2.5 N•m
UL	35 lbf-in

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–57 A
UL File E164359 CCN XCFR2	16–6 AWG, 600 V
CSA File 702070 Class 6228 01	16–6 AWG, 600 V
VDE, group C	750 Vac, 900 Vdc, 63 A
ATEX Exe II  II 2 GD	10 mm ² , KEMA 02 ATEX 2114 U

Certifications

See the tables beginning on page 1/12.

Terminal blocks

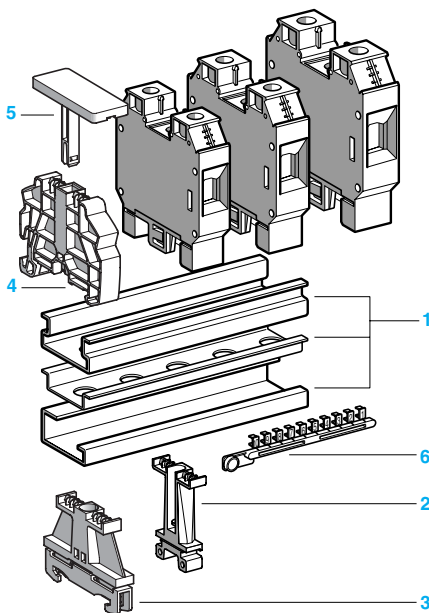
Green/yellow

No. points	Sold in lots of	Catalog number	Weight oz (g)
2	50	AB1TP1035U	2.01 (57.0)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on 	—	100	AB1AB7P32	0.15 (4.2)
		Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (7.5 mm) on 	—	100	AB1AB10M32	0.23 (6.5)
		Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on end clamp		—	10	AB1SB4	0.11 (3.1)
6	Marking accessories		See pages 5/2 and 5/3			

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Terminal Blocks, Type AB1

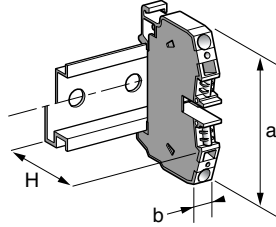
Screw clamp technology

Grounding type

Clip-on mounting on 35 mm rails

Nominal wire size

16 mm²



AB1TP1635U

Approximate dimensions, in. (mm)

1	Length (a)	2.26 (57.5)
	Width (b)	0.47 (12)
	Height (H)  rail	2.56 (65)
	with  rail	2.26 (57.5)
	with  rail	2.44 (62)

Wire size, mm²

Stranded without cable end	4–16
Stranded with cable end	4–16
Solid	10–25

Tightening torque

IEC	2.5–3.0 N•m
UL	35 lbf-in

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–76 A
UL File E164359 CCN XCFR2	12–4 AWG, 600 V
CSA File 702070 Class 6228 01	14–4 AWG, 600 V
VDE, group C	750 Vac, 900 Vdc, 85 A
ATEX Exe II  II 2 GD	16 mm ² , KEMA 02 ATEX 2114 U

Certifications

See the tables beginning on page 1/12.

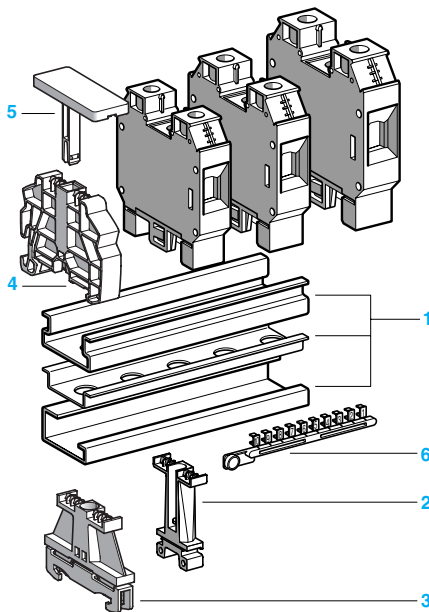
Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Green/yellow	2	50	AB1TP1635U	2.68 (76.0)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on 	—	100	AB1AB7P32	0.15 (4.2)
		Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (7.5 mm) on 	—	100	AB1AB10M32	0.23 (6.5)
		Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on end clamp		—	10	AB1SB4	0.11 (3.1)
6	Marking accessories		See pages 5/2 and 5/3			

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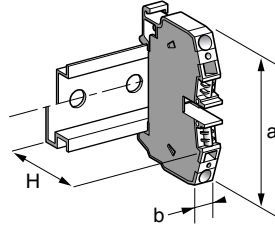
Terminal Blocks, Type AB1

Screw clamp technology
Grounding type

Clip-on mounting on 35 mm Σ Σ Σ rails

Nominal wire size

35 mm²



AB1TP3535U

Approximate dimensions, in. (mm)

1	Length (a)	2.48 (63)
	Width (b)	0.63 (16)
	Height (H) Σ rail	2.96 (75.1)
	with Σ rail	2.66 (67.6)
		2.72 (69)

Wire size, mm²

Stranded without cable end	10–35
Stranded with cable end	10–35
Solid	10–50

Tightening torque

IEC	2.5–3.0 N•m
UL	50 lbf-in

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–125 A
UL File E164359 CCN XCFR2	10–2 AWG, 600 V
CSA File 702070 Class 6228 01	10–2 AWG, 600 V
VDE, group C	750 Vac, 900 Vdc, 138 A
ATEX Exe II II 2 GD	35 mm ² , KEMA 02 ATEX 2114 U

Certifications

See the tables beginning on page 1/12.

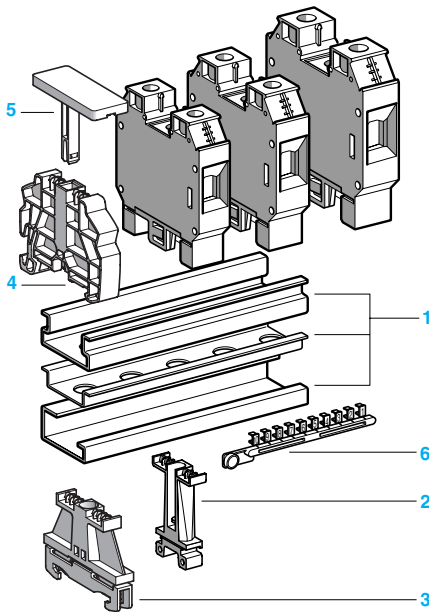
Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Green/yellow	2	20	AB1TP3535U	4.48 (127.0)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on Σ	—	100	AB1AB7P32	0.15 (4.2)
		Width 0.3 in. (8 mm) on Σ or Σ	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (7.5 mm) on Σ	—	100	AB1AB10M32	0.23 (6.5)
		Width 0.3 in. (8 mm) on Σ or Σ	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on Σ or Σ	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on end clamp		—	10	AB1SB4	0.11 (3.1)
6	Marking accessories		See pages 5/2 and 5/3			

524050



Terminal Blocks, Type AB1

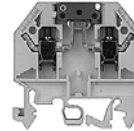
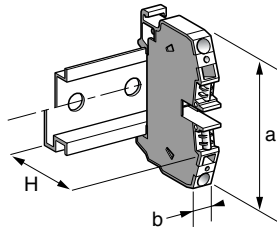
Screw clamp technology

Blade disconnect type

Clip-on mounting on 35 mm rails

Nominal wire size

4 mm²



1	Approximate dimensions, in. (mm)	Length (a)	
		Width (b)	
		Height (H)	35 rail
			with 35 rail
Wire size, mm ²		Stranded without cable end	
		Stranded with cable end	
		Solid	
Tightening torque		IEC	
		UL	
Nominal electrical values		IEC/EN 60947-7-1	
		UL	File E164359 CCN XCFR2
		CSA	File 702070 Class 6228 01
		UTE, category C	
		VDE, group C	

AB1SC435U****

1.89 + 0.44 (48 + 11.2) for open switch
0.24 (6)
2.24 (57)
1.95 (49.5)
2.13 (54)
0.5–4
0.5–2.5
0.5–6
0.5–0.7 N•m
8.0 lbf-in
800 V / 8 kV / 3–20 A
22–10 AWG, 600 V, 20 A
22–10 AWG, 600 V, 20 A
500 Vac
750 Vac, 900 Vdc, 20 A

Certifications

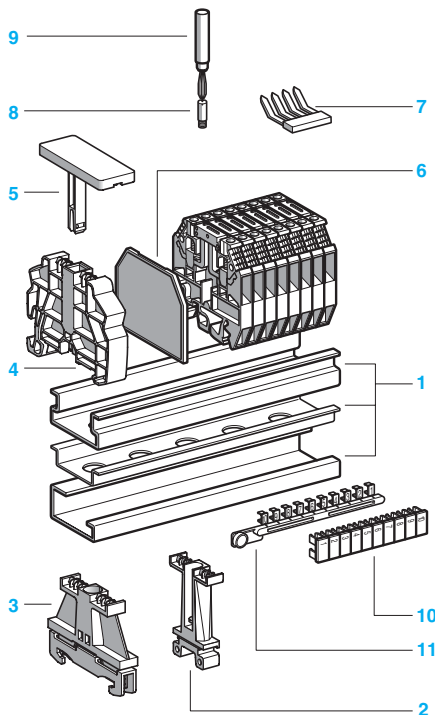
See the tables beginning on page 1/12.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2	100	AB1SC435U	0.42 (12.0)
Blue	2	100	AB1SC435UBL	0.42 (12.0)
With 2 test sockets	2	100	AB1SC435U2PT	0.42 (12.0)
Blue	2	100	AB1SC435U2PTBL	0.42 (12.0)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on 35	—	100	AB1AB7P32	0.15 (4.2)
		Width 0.3 in. (8 mm) on 35 or 35	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.4 in. (10 mm) on 35	—	100	AB1AB10M32	0.23 (6.5)
		Width 0.3 in. (8 mm) on 35 or 35	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on 35 or 35	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Gray, thickness 0.06 in. (1.5 mm)	—	10	AB1PS4	0.05 (1.5)
7	Jumpers	2-pole	2	100	AB1CC42SC	0.032 (0.9)
		3-pole	3	100	AB1CC43SC	0.05 (1.4)
		4-pole	4	100	AB1CC44SC	0.07 (1.9)
		10-pole	10	10	AB1CC410SC	0.17 (4.8)
8	Socket for test plug, Ø 0.09 in. (2.3 mm)		—	50	AB1A4	0.018 (0.5)
9	Test plug	Red	—	50	AB1AT1	0.06 (1.7)
10/11	Marking accessories		See pages 5/2 and 5/3.			



Terminal Blocks, Type AB1

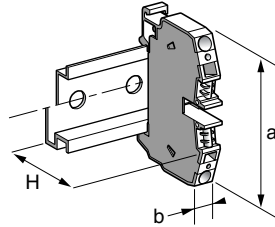
Screw clamp technology

Component, for diode or resistor

Clip-on mounting on 35 mm rails

Nominal wire size

2.5 mm²



AB1D11435

Approximate dimensions, in. (mm)

1	Length (a)	1.92 (49)
	Width (b)	0.47 (12)
	Height (H) on 35mm rail	2.58 (65.5)
	Height (H) with 35mm rail	2.28 (58)
Wire size, mm ²	Stranded without cable end	0.5–2.5
	Stranded with cable end	0.5–1.5
	Solid	0.5–2.5
Tightening torque	IEC	0.5–0.7 N•m
	UL	8.0 lbf-in
Nominal electrical values	IEC/EN 60947-7-2	800 V / 8 kV / 3 -26 A
	UL File E164359	22–14 AWG, 300 V, 6 A
	CCN XCFR2	
	UTE, category C	125 Vac, 125 Vdc
	VDE, group C	750 Vac, 900 Vdc, 24A

Certifications

See the tables beginning on page 1/12.

Terminal blocks, fixed carrier

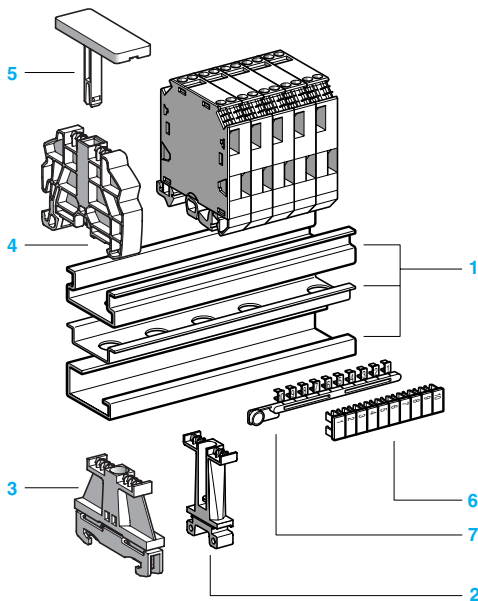
	No. points	Sold in lots of	Catalog number	Weight oz (g)
2 I, 2 O Gray	2/2	50	AB1D11435U	0.88 (25.0)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on 	—	100	AB1AB7P32	0.15 (4.2)
		Width 0.3 in. (8 mm) on 2.5 or 	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.4 in. (10 mm) on 	—	100	AB1AB10M32	0.23 (6.5)
		Width 0.3 in. (8 mm) on 2.5 or 	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on 2.5 or 	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)

6/7 Marking accessories

See pages 5/2 and 5/3.



Terminal Blocks, Type AB1

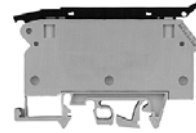
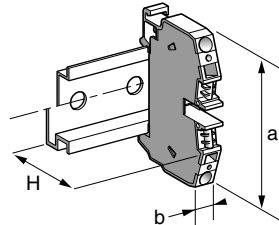
Screw clamp technology

Fused disconnect

Clip-on mounting on 35 mm $\frac{1}{4}$ rails

Nominal wire size

4 mm²



Approximate dimensions, in. (mm)

1

Length (a)	
Width (b)	
Height (H)	$\frac{1}{4}$ rail
	with $\frac{1}{4}$ rail
	$\frac{1}{4}$ rail
Wire size, mm ²	Stranded without cable end
	Stranded with cable end
	Solid
Tightening torque	IEC
	UL
Nominal electrical values	IEC/EN 60947-7-1
	UL File E164359 CCN XCFR2
	CSA File 702070 Class 6228 01
	UTE, category C
	VDE, group C

AB1FUSE435U***

	...U5X	...U6X
3.04 (77.2)		
	0.31 (8)	0.39 (10)
2.44 (62)		
2.15 (54.5)		
2.32 (59)		
0.5–4		
0.5–2.5		
0.5–6		
0.5–0.7 N•m		
7.0 lbf-in		
800 V / 8 kV / 3 A	6.3 A	10 A
22–10 AWG, 600 V	15 A	15 A
20–10 AWG, 600 V	6.3 A	10 A
500 Vac		
750 Vac, 900 Vdc	6.3 A	10 A

Certifications

See the tables beginning on page 1/12.

Terminal blocks

5 x 20 or 5 x 25 fuse (gray)

With 5-12 V LED (red)
(2.3–7 mA)

With 12-24 V LED (red)
(2.8–6.2 mA)

With 110-250 V neon
(0.13–0.55 mA)

6.3 x 32 fuse (gray)

With 5-12 V LED (red)
(2.3–7 mA)

With 12-24 V LED (red)
(2.8–6.2 mA)

With 110-250 V neon
(0.13–0.55 mA)

No. points	Sold in lots of	Catalog number	Weight oz (g)
—	50	AB1FUSE435U5X	0.56 (16.0)
—	50	AB1FUSE435U5XJ	0.56 (16.0)
—	50	AB1FUSE435U5XB	0.56 (16.0)
—	50	AB1FUSE435U5XM	0.56 (16.0)
—	50	AB1FUSE435U6X	0.88 (25.0)
—	50	AB1FUSE435U6XJ	0.88 (25.0)
—	50	AB1FUSE435U6XB	0.88 (25.0)
—	50	AB1FUSE435U6XM	0.88 (25.0)

Accessories

2 Plastic end clamp with screw

Width 0.3 in. (7.5 mm)
on $\frac{1}{4}$

Width 0.3 in. (8 mm)
on $\frac{1}{4}$ or $\frac{1}{2}$

3 Metal end clamp with screw

Width 0.4 in. (10 mm)
on $\frac{1}{4}$

Width 0.3 in. (8 mm)
on $\frac{1}{4}$ or $\frac{1}{2}$

4 Clip-on plastic end clamp

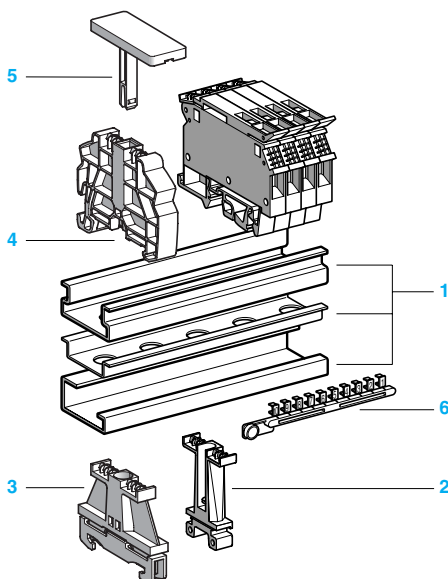
Width 0.3 in. (8 mm)
on $\frac{1}{4}$ or $\frac{1}{2}$

5 Marker tag holder for clip-on plastic end clamp

6 Marking accessories

—	100	AB1AB7P32	0.15 (4.2)
—	100	AB1AB8P35	0.21 (5.9)
—	100	AB1AB10M32	0.23 (6.5)
—	100	AB1AB8M35	0.52 (14.8)
—	100	AB1AB8R35	0.21 (5.9)
—	10	AB1SB4	0.11 (3.1)

See pages 5/2 and 5/3.



Terminal Blocks, Type AB1

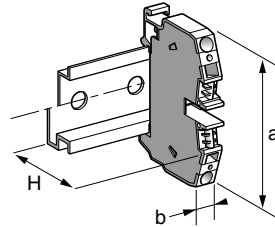
Screw clamp technology

Disconnect (removable carrier), for diode, resistor, or cylindrical fuse

Clip-on mounting on 35 mm rails

Nominal wire size

4 mm²



AB1SF435U

Approximate dimensions, in. (mm)

1	Length (a)	1.89 (48)
	Width (b)	0.24 (6)
	Height (H)  rail	2.24 (57) + 0.75 (19) for carrier
	with  rail	1.95 (49.5) + 0.75 (19) for carrier
Wire size, mm ²	Stranded w/o cable end	0.5–4
	Stranded + cable end	0.5–2.5
	Solid	0.5–6
Tightening torque	IEC	0.5–0.7 N•m
	UL	8.0 lbf-in
Nominal electrical values (1) (2)	IEC/EN 60947-7-2	800 V / 8 kV / 3 -6.3 A
	UL File E164359	22–10 AWG, 300 V, 10 A
	CCN XCFR2	
	CSA File 702070	22–10 AWG, 250 V, 6.3 A
	Class 6228 01	
Certifications	UTE, category C	500 Vac, 500 Vdc
	VDE, group C	750 Vac, 900 Vdc, 10 A
		See the tables beginning on page 1/12.

Terminal blocks, removable carrier (3)

		No. points	Sold in lots of	Catalog number	Weight oz (g)
10	Gray	2	100	AB1SF435U	0.32 (9.0)
	Removable carrier	—	100	AB1SV1	0.16 (4.5)
	For diode or resistor	—	100	AB1SV2	0.16 (4.5)
	With diode 1N4007.1	—	100	AB1SF520	0.16 (4.5)
	Removable carrier (for 5 x 20 fuse)	—	100	AB1SF520B	0.16 (4.5)
	Fuse only	—	100	AB1SF520M	0.16 (4.5)
	With 24 V red LED	—	100	AB1SF520D	0.21 (6.0)
	With 220 V red LED	—	100	AB1SF6332D	0.29 (8.2)
	Removable and pivoting carrier	—	100		
	For 5 x 20 fuse	—	100		
	For 6.3 x 32 fuse	—	100		

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on 	—	100	AB1AB7P32	0.15 (4.20)
		Width 0.3 in. (8 mm) on 	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.4 in. (10 mm) on 	—	100	AB1AB10M32	0.23 (6.5)
		Width 0.3 in. (8 mm) on 	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp (4)		—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Gray, thickness 0.06 in. (1.5 mm)	—	50	AB1PS4	0.05 (1.5)
7	Test plug	Red	—	50	AB1AT1	0.07 (1.9)
8/9	Marking accessories		See pages 5/2 and 5/3.			

Carrier characteristics

Nominal voltage (Power loss 1.5 W)	Position of terminal block	
	end	juxtaposed
250 V	6.3 A	4 A

Blown fuse indicator characteristics

Catalog number	Nominal voltage	Current consumption
AB1SF520B	24 V	10.3 mA
AB1SF520M	220–250 V	0.3 mA

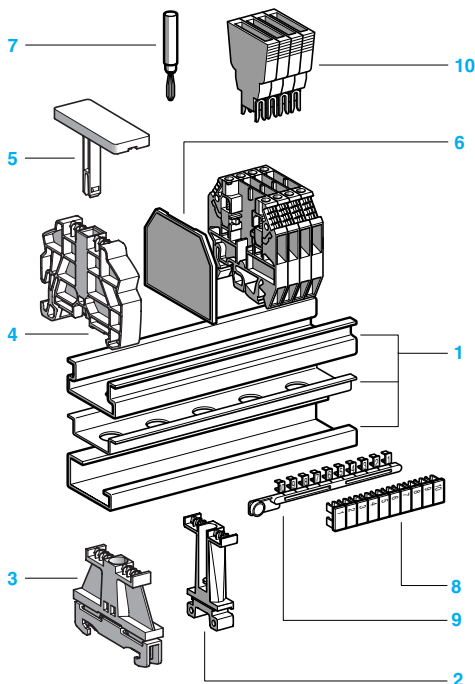


Table Footnotes:

- (1) The voltage/current carrying capacity is determined by the component (fuse and/or diode) used.
- (2) Repetitive peak reverse voltage for diodes is 1000 V.
- (3) Fuses and diodes not included, except for AB1SV2.
- (4) Width 0.3 in. (8 mm) on  or .

Terminal Blocks, Type AB1

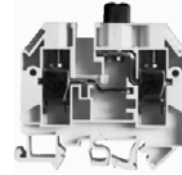
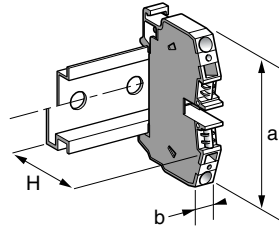
Screw clamp technology

Fixed carrier, for cylindrical fuse

Clip-on mounting on 35 mm $\frac{1}{4}$ rails

Nominal wire size

10 mm²



AB1FU10•35U**

Approximate dimensions, in. (mm)

1	Length (a)	2.56 (65)
	Width (b)	0.47 (12)
	Height (H)	2.60 (66) + 0.43 (10.8) for fuse cap
	with	2.30 (58.5) + 0.43 (10.8) for fuse cap
Wire size, mm ²	2.5 rail	2.48 (63) + 0.43 (10.8) for fuse cap
	with	
	1/4 rail	
Wire size, mm ²	Stranded w/o cable end	1–10
	Stranded + cable end	1–10
	Solid	10–16
Tightening torque	IEC	2.0–2.5 N•m
	UL	35 lbf-in
Nominal electrical values (1)	IEC/EN 60947-7-1	500 V / 6 kV / 3 A
	UL (2)	File E164359 CCN XCFR2
	CSA (2)	File 702070 Class 6228 01
	UTE, category C	400 Vac, 250 Vdc, 10 A
VDE, group C (2)		500 Vac, 600 Vdc, 15 A

Certifications

See the tables beginning on page 1/12.

Terminal blocks (3)



	No. points	Sold in lots of	Catalog Number	Weight oz (g)
5 x 20 fuse gray	—	50	Without indicator lamp	AB1FU10135U 1.38 (39.0)
			With 28 V yellow LED	AB1FU10135UB 1.38 (39.0)
			With 250 V red LED	AB1FU10135UU 1.38 (39.0)
5 x 25 fuse, gray, without indicator lamp	—	50	AB1FU10235U	1.38 (39.0)
5 x 30 fuse, gray, without indicator lamp	—	50	AB1FU10335U	1.38 (39.0)
6.3 x 32 fuse gray	—	50	Without indicator lamp	AB1FU10435U 1.38 (39.0)
			With 28 V yellow LED	AB1FU10435UB 1.38 (39.0)
			With 250 V red Neon	AB1FU10435UFS 1.38 (39.0)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on 1/4	—	100	AB1AB7P32	0.15 (4.2)
		Width 0.3 in. (8 mm) on 2.5 or 1/4	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.4 in. (10 mm) on 1/4	—	100	AB1AB10M32	0.23 (6.5)
		Width 0.3 in. (8 mm) on 2.5 or 1/4	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on 2.5 or 1/4	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate gray, thickness 0.08 in. (2 mm)			50	AB1TF	0.17 (4.8)
7	Jumpers with screws	2 poles (non-insulated)	2	50	AB1BF2	0.17 (4.7)
		30 poles (non-insulated)	30	10	AB1BF	0.44 (12.5)

8/9 Marking accessories

See pages 5/2 and 5/3.

(1) Voltage and current are determined by the fuse used.

(2) Nominal electrical values according to the type of fuse used:

Nominal electrical values	UL	VDE	CSA
Current consumption:	28 V	28 V	28 V
24 mA	AB1FU10435UB		
	AB1FU10135UB		
Current consumption:	150 V	110 -500 V	500 V
0.16 -0.8 mA	AB1FU10435UFS		
	AB1FU10135UU		

(3) Fuses not included.

Terminal Blocks, Type AB1

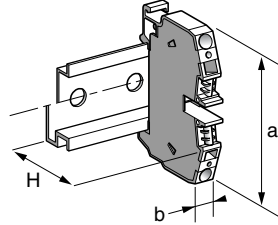
Screw clamp technology

Screw-clip type

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

4 mm²



AB1F**35U

Approximate dimensions, in. (mm)

1	Length (a)	
	Width (b)	
	Height (H)	$\frac{25}{8}$ rail
	with	$\frac{25}{8}$ rail

Wire size, mm²

Stranded without cable end

Solid

Tightening torque

IEC
UL

Nominal electrical values

IEC/EN 60947-7-1
UL File E164359
CCN XCFR2

CSA File 702070
Class 6228 01

UTE, category C

VDE, group C

AB1FV AB1FC

1.89 (48) 2.68 (68)

0.24 (6)

2.30 (58.5) 2.62 (66.5)

1.93 (49)

2.13 (54)

0.5–4 (screw)

0.5–2.5 [3 clips, 0.25 x 0.03 (6.3 x 0.8)]

0.5–1.5 [6 clips, 0.11 x 0.03 (2.8 x 0.8)]

0.5–6

0.5–0.7 N•m

4.0 lbf-in

800 V / 8 kV / 3–20 A

22–12 AWG, 300 V, 10 A

22–12 AWG, 300 V, 10 A

400 Vac, 250 Vdc

750 Vac, 900 Vdc, 20 A

See the tables beginning on page 1/12.

Certifications

Terminal blocks

Screw-clip, top and side access, gray

Screw-clip, top access, gray

Clip-clip, top access, gray

No. points	Sold in lots of	Catalog number	Weight oz (g)
—	100	AB1FV135U	0.41 (11.5)
—	100	AB1FC335U	0.41 (11.5)
—	100	AB1FF235U	0.41 (11.5)

Accessories

2 Plastic end clamp with screw

Width 0.3 in. (7.5 mm) on $\frac{25}{8}$

Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$

3 Clip-on plastic end clamp

Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$

4 Marker tag holder for clip-on plastic end clamp

5 End plate thickness 0.06 in. (1.5 mm)

AB1FV
AB1FC
AB1FF

6 Jumpers

Non-insulated

Insulated

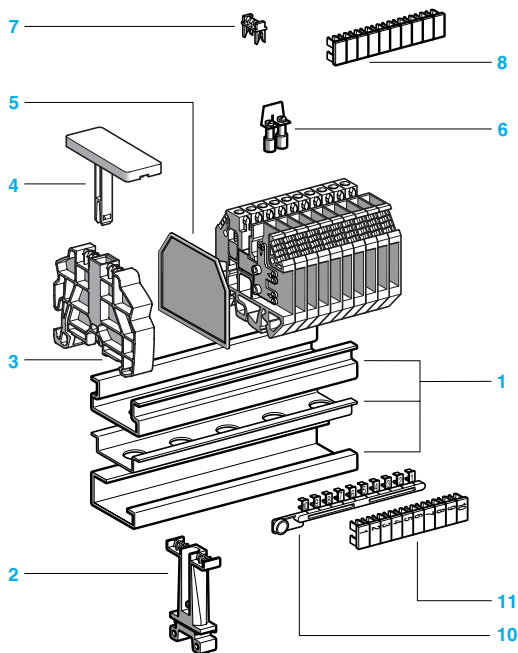
7 Protective cover (single-pole link)

8 Protective cover (10-pole link)

10/11 Marking accessories

—	100	AB1AB7P32	0.15 (4.2)
—	100	AB1AB8P35	0.21 (5.9)
—	100	AB1AB8R35	0.21 (5.9)
—	10	AB1SB4	0.11 (3.1)
—	50	AB1TC01	0.09 (2.5)
—	50	AB1TC3	0.09 (2.6)
—	50	AB1TC02	0.09 (2.6)
—	10	AB1AL4	5.11 (145.0)
2	10	AB1ALN42	0.06 (1.7)
—	100	AB1CA4	0.004 (0.1)
—	50	AB1CA410ET	0.04 (1.0)

See pages 5/2 and 5/3.



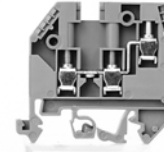
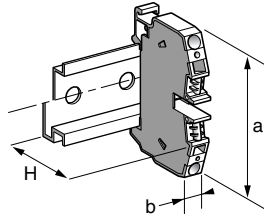
Terminal Blocks, Type AB1

Screw clamp technology
Double deck, multi-pole

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

4 mm²



AB1ETN•35U

Approximate dimensions, in. (mm)

1	Length (a)		2.19 (55.6)	1.88 (47.8)
	Width (b)		0.24 (6)	
	Height (H) with	2.5 rail	2.20 (56)	
		1.5 rail	1.91 (48.5)	
		1.5 rail	2.09 (53)	
Wire size, mm ²	Stranded without cable end		0.5–4	
	Stranded with cable end		0.5–2.5	
	Solid		0.5–6	
Tightening torque	IEC		0.5–0.7 N•m	
	UL		6.0 lbf-in	
Nominal electrical values	IEC/EN 60947-7-1		800 V / 8 kV / 3–32 A	
	UL	File E164359	22–10 AWG, 300 V, 30 A	
		CCN XCFR2		
	CSA	File 702070	20–10 AWG, 300 V, 10 A	
		Class 6228 01		
	UTE, category C		400 Vac, 250 Vdc	
	VDE, group C		380 Vac, 450 Vdc, 34 A	
	ATEX Exe II II 2 GD:			
4 mm ²	AB1ETN235U		275 V, 22 A, KEMA 02 ATEX 2114 U	
	AB1ETN335U		420 V, 30 A, KEMA 02 ATEX 2114 U	
	AB1ETN435U		420 V, 29 / 30 A, KEMA 02 ATEX 2114 U	
	AB1ETNTP43U		KEMA 02 ATEX 2114 U	

Certifications

See the tables beginning on page 1/12.

Terminal blocks

		No. points	Sold in lots of	Catalog Number	Weight oz (g)
2 I, 2 O	Gray	2/2	100	AB1ETN235U	0.53 (15.1)
3I/O	Gray	3	100	AB1ETN335U	0.53 (15.1)
4I/O	Gray	4	100	AB1ETN435U	0.53 (15.1)
With grounding	Green/Yellow	4	100	AB1ETNTP435U	0.56 (16.0)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on $\frac{25}{8}$	—	100	AB1AB7P32	0.15 (4.2)
		Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{10}{4}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.4 in. (10 mm) on $\frac{25}{8}$	—	100	AB1AB10M32	0.23 (6.5)
		Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{10}{4}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{10}{4}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate, thickness 0.06 in. (1.5 mm)	ETN235 / 435	—	10	AB1TEN4	0.021 (0.6)
		ETN335	—	10	AB1TEN3	0.021 (0.6)
7	Jumper with screws	Non-insulated	ETN235	70	AB1BE	5.11 (145.0)
		Insulated (1)	ETN235	2	AB1BE2	0.032 (0.9)
		ETN335 / 435	12	AB1ALN412	0.63 (18.0)	
8	Insulated jumper		6	50	AB1CC42RO	0.56 (16.0)
			10	100	AB1CC410RO	0.56 (16.0)
9	Partition plate (yellow)		1	100	AB1CJ3	0.011 (0.3)
11	Marking accessories		See pages 5/2 and 5/3.			

(1) Depending on the size of the terminal block, other jumpers between 2 and 12 points may be available.

Terminal Blocks, Type AB1

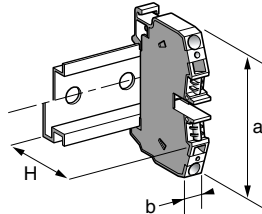
Screw clamp technology

Double deck

Clip-on mounting on 35 mm rails

Nominal wire size

4 mm²



1	Approximate dimensions, in. (mm)	Length (a)	
		Width (b)	
		Height (H)	35 rail
			with 35 rail
Wire size (mm ²)		Stranded	
		Solid	
Tightening torque		IEC	
		UL	
Nominal electrical values		IEC/EN 60947-7-1	
		UL	File E164359 CCN XCFR2
		CSA	File 702070 Class 6228 01
		UTE, category C	
ATEX Exe II  II 2 GD		VDE, group C	
Certifications		AB1ET435U	
		AB1ET435UTP	

AB1ET435U***

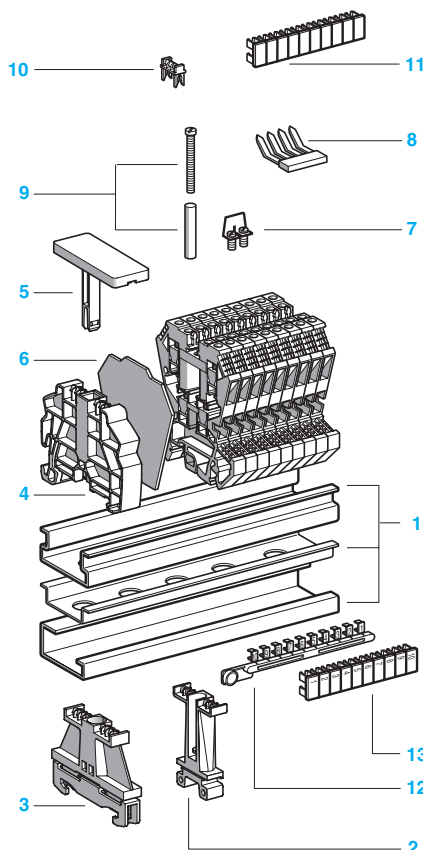
2.43 (61.6)
0.24 (6)
2.78 (70.5)
2.48 (63)
2.66 (67.5)
0.5–4 (no cable end), 0.5–2.5 (with cable end)
0.5–4
0.5–0.7 N•m
6.0 lbf-in
400 V / 6 kV / 3–32 A
22–10 AWG, 300 V, 20 A
20–12 AWG, 300 V, 10 A
400 Vac, 250 Vdc
380 Vac, 450 Vdc, 34 A
4 mm ² , 275 V, 24 A, KEMA 02 ATEX 2114 U
4 mm ² , KEMA 02 ATEX 2114 U
See the tables beginning on page 1/12.

Terminal blocks

	No.	Sold in lots of	Catalog number	Weight oz (g)
2 I, 2 O 	2/2	100	AB1ET435U	0.53 (15.1)
4 I/O 	4	100	AB1ET435U2	0.53 (15.1)
Grounding type	4	100	AB1ET435UTP	0.53 (15.1)
24 V red LED	4	100	AB1ET435UBRO	0.56 (16.0)
24 V green LED	4	100	AB1ET435UBVE	0.53 (15.1)
24 V red LED	4	100	AB1ET435UBGE	0.53 (15.1)
Diode, uppr-lowr.	4	100	AB1ET435UHBRO	0.53 (15.1)
Diode, lowr-uppr.	4	100	AB1ET435UBHGE	0.56 (16.0)
2 diodes	4	100	AB1ET435U2DRO	0.53 (15.1)

Accessories

2 Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on 	—	100	AB1AB7P32	0.15 (4.2)
	Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8P35	0.21 (5.9)
3 Metal end clamp with screw	Width 0.4 in. (10 mm) on 	—	100	AB1AB10M32	0.23 (6.5)
	Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8M35	0.52 (14.8)
4 Clip-on plastic end clamp	Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8R35	0.21 (5.9)
5 Marker tag holder for clip-on end clamp		—	10	AB1SB4	0.11 (3.1)
6 End plate	Gray, thickness 0.06 in. (1.5 mm)	—	50	AB1TE	0.12 (3.5)
Partition plate	Gray, thickness 0.06 in. (1.5 mm)	—	50	AB1AS4ET	0.12 (3.3)
7 Jumper, non-isolated with screw	2-pole	2	10	AB1BE2	0.032 (0.9)
	70-pole	70	10	AB1BE	5.11 (145.0)
8 Jumper	Lower, 2 poles	2	100	AB1CC42INFRO	0.032 (0.9)
	Lower, 6 poles	6	100	AB1CC46INFRO	0.11 (3.0)
	Upper, 2 poles	2	100	AB1CC42SUPRO	0.032 (0.9)
	Upper, 6 poles	6	100	AB1CC46SUPRO	0.11 (3.0)
9 Jumper between 2 decks		—	50	AB1L2ET	0.09 (2.5)
10 Protective cover (single-pole link)		1	100	AB1CA4	0.004 (0.1)
11 Protective cover (10-pole link)		10	50	AB1CA410ET	0.035 (1.0)
12/13 Marking accessories		See pages 5/2 and 5/3.			



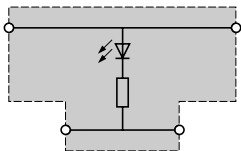
Terminal Blocks, Type AB1

Screw clamp technology
Double deck

Wiring Diagrams

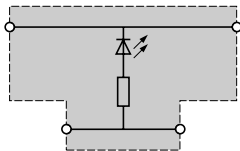
AB1ET435UBRO/BVE

(Resistance = 2.2 kΩ, 0.35 W)



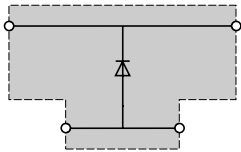
AB1ET435UBGE

(Resistance = 2.2 kΩ, 0.35 W)



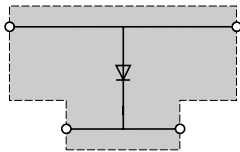
AB1ET435UHBRO

(1 A / 1000 V)



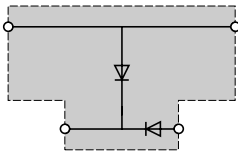
AB1ET435UBHGE

(1 A / 1000 V)



AB1ET435U2DRO

(1 A / 1000 V)



Terminal Blocks, Type AB1

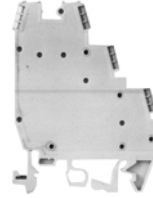
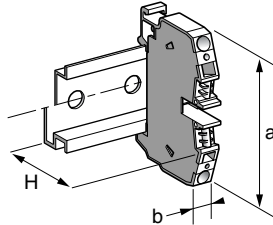
Screw clamp technology

For 3-wire proximity sensors

Clip-on mounting on 35 mm $\frac{2.5}{\text{mm}}$ rails

Nominal wire size

2.5 mm²



AB1DDP235U**

Approximate dimensions, in. (mm)

1	Length (a)	2.10 (53.4)
	Width (b)	0.24 (6)
	Height (H) on $\frac{2.5}{\text{mm}}$ rail	3.00 (76.1)
	with $\frac{1.5}{\text{mm}}$ rail	2.70 (68.6)
	with $\frac{1.0}{\text{mm}}$ rail	2.88 (73.1)

Wire size, mm ²	Stranded without cable end	0.5–2.5
	Stranded with cable end	0.5–1.5
	Solid	0.5–4

Tightening torque	IEC	0.4–0.6 N•m
	UL	8.0 lbf-in

Nominal electrical values (1)	IEC/EN 60947-7-1	250 V / 4 kV / 3–24 A
	UL File E164359	22–12 AWG, 300 V, 25 A
	CCN XCFR2	
	CSA File 702070	20–12 AWG, 300 V, 25 A

	Class 6228 01	
VDE, group C		250 Vac, 300 Vdc, 26 A
		See the tables beginning on page 1/12.

Certifications

Terminal blocks (2)

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Without LED	1	100	AB1DDP235U	0.35 (10.0)
NPN 24 V LED (+) (green)	1	100	AB1DDP235ULP	0.35 (10.0)
PNP 24V LED (-) (green)	1	100	AB1DDP235ULM	0.35 (10.0)

Accessories

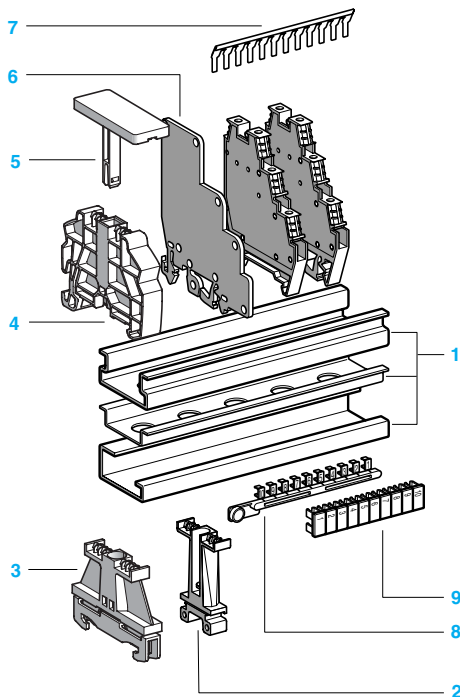
2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on $\frac{1.0}{\text{mm}}$	—	100	AB1AB7P32	0.15 (4.2)
		Width 0.3 in. (8 mm) on $\frac{2.5}{\text{mm}}$ or $\frac{1.5}{\text{mm}}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.4 in. (10 mm) on $\frac{1.0}{\text{mm}}$	—	100	AB1AB10M32	0.23 (6.5)
		Width 0.3 in. (8 mm) on $\frac{2.5}{\text{mm}}$ or $\frac{1.5}{\text{mm}}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{2.5}{\text{mm}}$ or $\frac{1.5}{\text{mm}}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	Partition, thickness 0.08 in. (2 mm)	Gray	—	10	AB1ACD2	0.18 (5.0)
7	Insulated jumper	Red	12	10	AB1ALD12R	0.19 (5.5)
		Blue	12	10	AB1ALD12B	0.18 (5.0)
		Red	70	10	AB1ALD100R	6.00 (170.0)
		Blue	70	10	AB1ALD100B	6.00 (170.0)

8/9 Marking accessories

See pages 5/2 and 5/3.

(1) 24 Vdc with LED.

(2) For recommended operating and connection diagrams, see page 3/31.



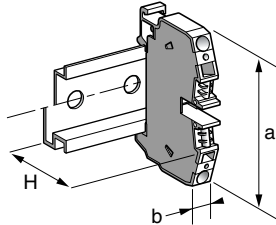
Terminal Blocks, Type AB1

Screw clamp technology
For 3-wire proximity sensors

Clip-on mounting on 35 mm rails

Nominal wire size

2.5 mm²



AB1DDP235T**

Approximate dimensions, in. (mm)

1	Length (a)	2.52 (64)
	Width (b)	0.24 (6)
	Height (H)  rail	3.00 (76.1)
	with  rail	2.70 (68.6)
Wire size, mm ²	Stranded without cable end	0.5–2.5
	Stranded with cable end	0.5–1.5
	Solid	0.5–4
	Tightening torque IEC	0.4–0.6 N•m
Tightening torque	UL	8.0 lbf-in
	Nominal electrical values (1)	250 V / 4 kV / 3–24 A
	UL File E164359 CCN XCFR2	22–12 AWG, 300 V, 25 A
	CSA File 702070 Class 6228 01	22–12 AWG, 300 V, 25 A
Certifications	VDE, group C	250 Vac, 300 Vdc, 26 A
	See the tables beginning on page 1/12.	

Certifications

Terminal blocks (2)

		No. points	Sold in lots of	Catalog number	Weight oz (g)
Without LED	Gray	1	100	AB1DDP235T	0.53 (15.0)
NPN 24 V LED (+) (green)	Gray	1	100	AB1DDP235TLP	0.53 (15.0)
PNP 24V LED (-) (green)	Gray	1	100	AB1DDP235TLM	0.53 (15.0)

Accessories

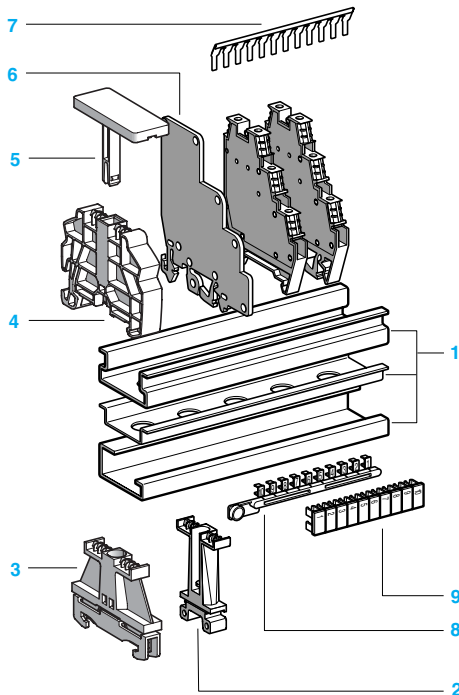
2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on 	—	—	—	—
		Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.4 in. (10 mm) on 	—	—	—	—
		Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	Partition, thickness 0.08 in. (2 mm)	Gray	—	10	AB1ACD2	0.18 (5.0)
7	Insulated jumper	Red	12	10	AB1ALD12R	0.18 (5.0)
		Blue	12	10	AB1ALD12B	0.18 (5.0)
		Red	70	10	AB1ALD100R	6.00 (170.0)
		Blue	70	10	AB1ALD100B	6.00 (170.0)

8/9 Marking accessories

See pages 5/2 and 5/3.

(1) 24 Vdc with LED.

(2) For recommended operating and connection diagrams, see page 3/31.



Terminal Blocks, Type AB1

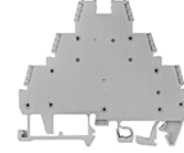
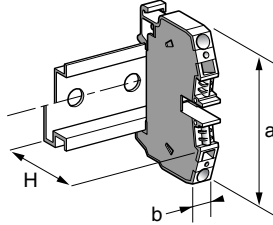
Screw clamp technology

For 3-wire proximity sensors

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

2.5 mm²



Approximate dimensions, in. (mm)

1	Length (a)	3.13 (79.4)
	Width (b)	0.24 (6)
	Height (H) $\frac{25}{8}$ rail	3.00 (76.1)
	with $\frac{25}{8}$ rail	2.70 (68.6)
	with $\frac{25}{8}$ rail	2.88 (73.1)

Wire size, mm ²	Stranded without cable end	0.5–2.5
	Stranded with cable end	0.5–1.5
	Solid	0.5–4

Tightening torque	IEC	0.4–0.6 N·m
	UL	8.0 lbf-in

Nominal electrical values (1)	IEC/EN 60947-7-1	400 V / 6 kV / 3–24 A
	UL File E164359 CCN XCFR2	22–12 AWG, 300 V, 25 A
	CSA File 702070 Class 6228 01	22–12 AWG, 300 V, 25 A
	VDE, group C	250 Vac, 300 Vdc, 26 A
		See the tables beginning on page 1/12.

Certifications

Terminal blocks (2)

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Without LED	1	100	AB1ET3235U	0.39 (11.0)
NPN 24 V LED (+) (green)	—	—	—	—
PNP 24 V LED (-) (green)	—	—	—	—

Accessories

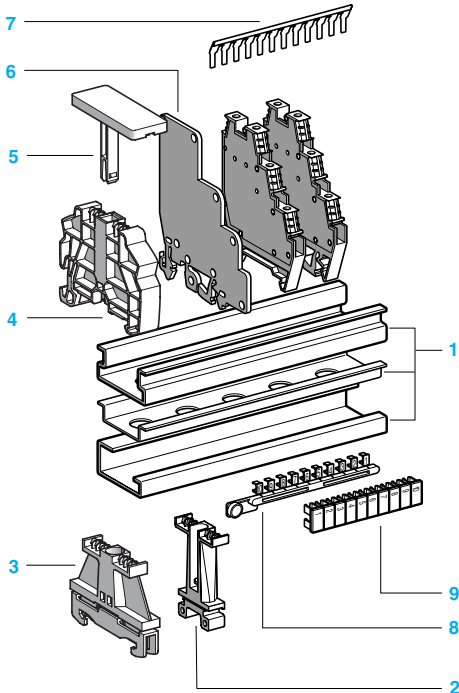
2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on $\frac{25}{8}$	—	100	AB1AB7P32	0.15 (4.2)
		Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.4 in. (10 mm) on $\frac{25}{8}$	—	100	AB1AB10M32	0.23 (6.5)
		Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	Partition, thickness 0.08 in. (2 mm)	Gray	—	—	—	—
7	Insulated jumper	Red	12	10	AB1ALD12R	0.18 (5.0)
		Blue	12	10	AB1ALD12B	0.18 (5.0)
		Red	70	10	AB1ALD100R	6.00 (170.0)
		Blue	70	10	AB1ALD100B	6.00 (170.0)

8/9 Marking accessories

(1) 24 Vdc with LED.

(2) For recommended operating and connection diagrams, see page 3/31.

See pages 5/2 and 5/3.



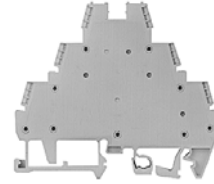
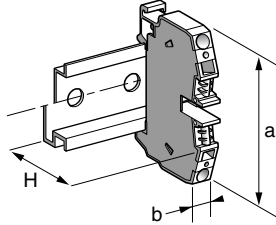
Terminal Blocks, Type AB1

Screw clamp technology
For 3-wire proximity sensors

Clip-on mounting on 35 mm rails

Nominal wire size

2.5 mm²



AB1ET3235UT**

Approximate dimensions, in. (mm)

1	Length (a)	3.13 (79.4)
	Width (b)	0.24 (6)
	Height (H) on  rail	3.00 (76.1)
	with  rail	2.70 (68.6)
Wire size, mm ²	Stranded without cable end	2.88 (73.1)
	Stranded with cable end	0.5–2.5
	Solid	0.5–1.5
Tightening torque	IEC	0.5–4
	UL	0.4–0.6 N•m
Nominal electrical values (1)	IEC/EN 60947-7-1	8.0 lbf-in
	UL File E164359	400 V / 6 kV / 3–24 A
	CCN XCFR2	22–12 AWG, 300 V, 25 A
	CSA File 702070	22–12 AWG, 300 V, 25 A
	Class 6228 01	250 Vac, 300 Vdc, 26 A
VDE, group C		See the tables beginning on page 1/12.

Certifications

Terminal blocks (2)

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Without LED	1	100	AB1ET3235UT	0.56 (16.0)
NPN 24 V LED (+) (green)	1	100	AB1ET3235UTLP	0.56 (16.0)
PNP 24V LED (-) (green)	1	100	AB1ET3235UTLM	0.56 (16.0)

Accessories

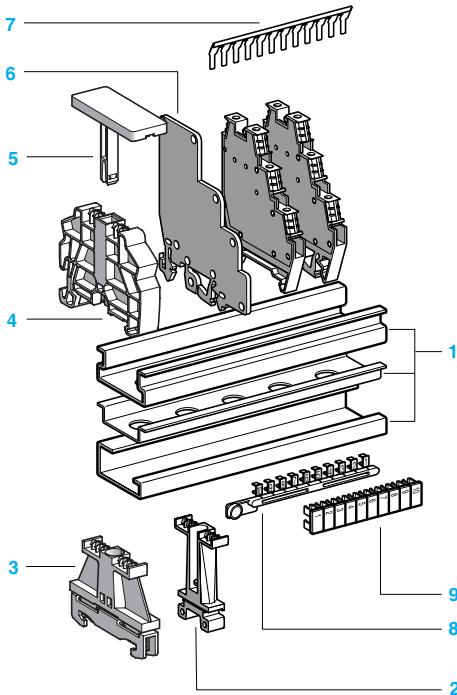
2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on  rail	—	—	—	—
		Width 0.3 in. (8 mm) on  rail	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.4 in. (10 mm) on  rail	—	—	—	—
		Width 0.3 in. (8 mm) on  rail	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on  rail	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	Partition, thickness 0.08 in. (2 mm)	Gray	—	—	—	—
7	Insulated jumper	Red	12	10	AB1ALD12R	0.18 (5.0)
		Blue	12	10	AB1ALD12B	0.18 (5.0)
		Red	70	10	AB1ALD100R	6.00 (170.0)
		Blue	70	10	AB1ALD100B	6.00 (170.0)

8/9 Marking accessories

See pages 5/2 and 5/3.

(1) 24 Vdc with LED.

(2) For recommended operating and connection diagrams, see page 3/31.

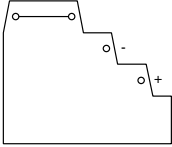


Terminal Blocks, Type AB1

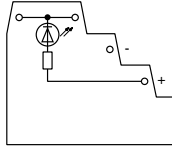
Screw clamp technology
For 3-wire proximity sensors

Wiring diagrams

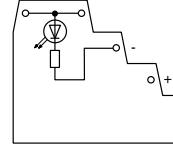
AB1DDP235U



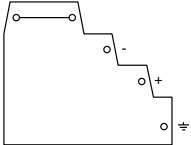
AB1DDP235ULP (Resistance = 2.2 kΩ, 0.35 W)



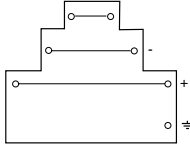
AB1DDP235ULM (Resistance = 2.2 kΩ, 0.35 W)



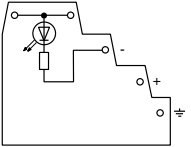
AB1DDP235T



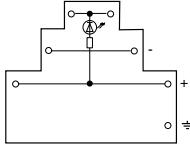
AB1DDP235TPL (Resistance = 2.2 kΩ, 0.35 W)



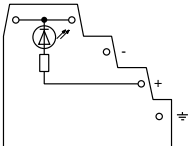
AB1DDP235TLM (Resistance = 2.2 kΩ, 0.35 W)



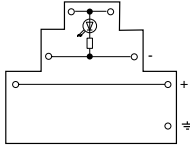
AB1ET3235U (2), AB1ET3235UT



AB1ET3235UTLP (Resistance = 2.2 kΩ, 0.35 W)



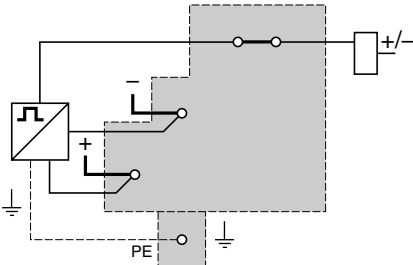
AB1ET3235UTLM (Resistance = 2.2 kΩ, 0.35 W)



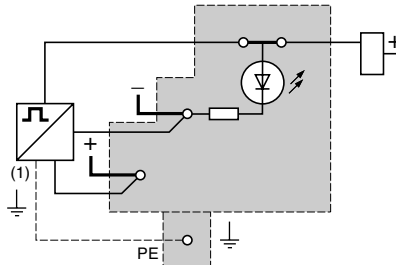
(1) Grounding connection with AB1ET322UT only.

Connections

AB1DDP235U, AB1DDP235T

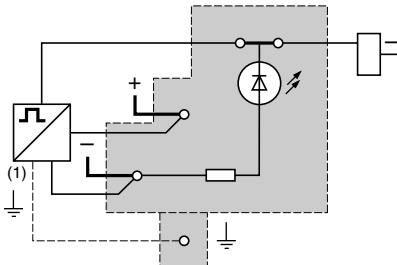


AB1DDP235ULM, AB1DDP235TLM

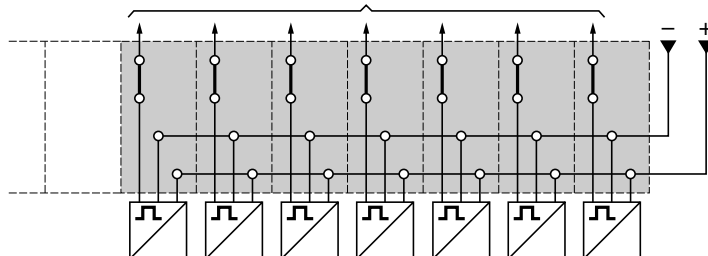


(1) PNP type sensor.

AB1DDP235ULP, AB1DDP235TLP



(1) NPN type sensor.



Terminal Blocks, Type AB1

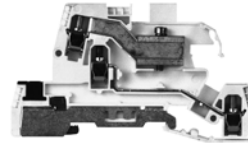
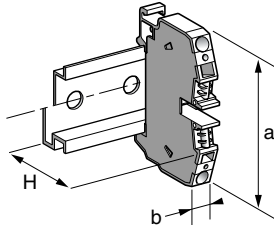
Screw clamp technology

Multifunction

Clip-on mounting on 35 mm ± 5 rails

Nominal wire size

4 mm²



AB1TRSN435

Approximate dimensions, in. (mm)

1	Length (a)	3.19 (90.3)
	Width (b)	0.21 (6)
	Height (H) ± 5 rail	2.08 (59)
	with ± 5 rail	1.82 (51.5)
Wire size, mm ²	Stranded without cable end	0.5–4
	Stranded with cable end	0.5–2.5
	Solid	0.5–6
Tightening torque	IEC	0.5–0.7 N•m
	UL	6.0 lbf-in
Nominal electrical values	IEC/EN 60947-7-1	400 V / 6 kV / 3–24 A
	UL File E164359	22–10 AWG, 300 V, 20 A
	CCN XCFR2	
	UTE, category C	250 Vac, 250 Vdc
	VDE, group C	380 Vac, 450 Vdc, 26 A

Certifications

See the tables beginning on page 1/12.

Terminal blocks

Gray
Characteristics

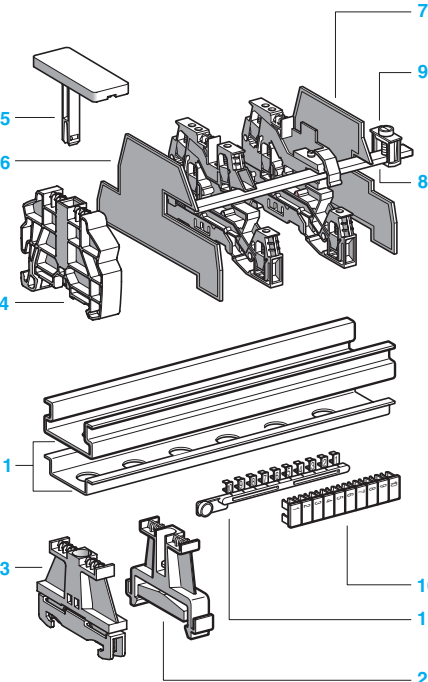
No. points	Sold in lots of	Catalog number	Weight oz (g)
—	50	AB1TRSN435	0.99 (28.0)
Disconnectable neutral (blue). Grounding (green/yellow) and screw bar clamp			

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Gray, thickness 0.08 in. (2 mm)	—	25	AB1TM1N	0.13 (3.7)
7	Partition plate	Gray, thickness 0.06 in. (1.5 mm)	—	25	AB1SM1N	0.11 (3.1)
8	Copper neutral bar	length 39.37 in. (1000 mm)	—	10	AB1PC3	10.51 (298.0)
9	Terminal clamp for bar 0.39 x 0.12 (10 x 3)	16 mm ² , pitch 0.33 (8.4)	—	10	AB1EBN16	0.31 (8.9)
		35 mm ² , pitch 0.67 (17) [dimensions = in. (mm)]	—	10	AB1EBN35	0.69 (19.5)

10/11 Marking accessories

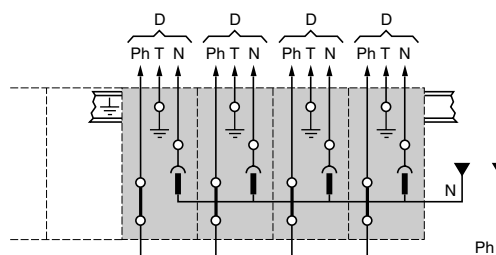
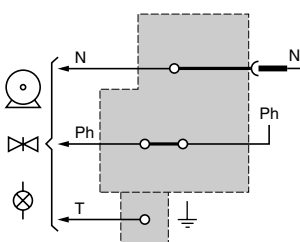
See pages 5/2 and 5/3.



Connections

AB1TRSN435

Example: wiring several AB1TRSN435 terminal blocks



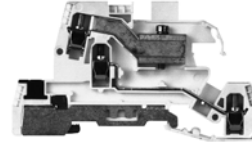
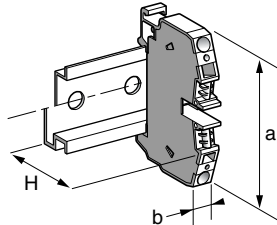
Terminal Blocks, Type AB1

Screw clamp technology
Multifunction

Clip-on mounting on 35 mm ± 0.5 rails

Nominal wire size

4 mm²



AB1TRPN435

Approximate dimensions, in. (mm)		
1	Length (a)	3.19 (90.3)
	Width (b)	0.21 (6)
	Height (H) ± 0.5 rail with ± 0.5 rail	2.08 (59)
Wire size, mm ²	Stranded without cable end	1.82 (51.5)
	Stranded with cable end	0.5–4
	Solid	0.5–2.5
Tightening torque	IEC	0.5–0.7 N·m
	UL	6.0 lbf·in
Nominal electrical values	IEC/EN 60947-7-1	400 V / 6 kV / 3–26 A
	UL File E164359 CCN XCFR2	22–10 AWG, 300 V, 20 A
	UTE, category C	250 Vac, 250 Vdc
	VDE, group C	380 Vac, 450 Vdc, 26 A
Certifications		See the tables beginning on page 1/12.

Terminal blocks

Gray

Characteristics

No. points	Sold in lots of	Catalog number	Weight oz (g)
—	50	AB1TRPN435	0.99 (28.0)
Two phases + grounding terminal (green/yellow) and screw bar clamp			

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on ± 0.5 or ± 0.5	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on ± 0.5 or ± 0.5	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on ± 0.5 or ± 0.5	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Gray, thickness 0.08 in. (2 mm)	—	25	AB1TM1N	0.13 (3.7)
7	Partition plate	Gray, thickness 0.06 in. (1.5 mm)	—	25	AB1SM1N	0.11 (3.1)
8	Copper neutral bar	length 39.37 in. (1000 mm)	—	10	AB1PC3	10.51 (298.0)
9	Terminal clamp for bar 0.39 x 0.12 (10 x 3)	16 mm ² , pitch 0.33 (8.4)	—	10	AB1EBN16	0.31 (8.9)
		35 mm ² , pitch 0.67 (17) [dimensions = in. (mm)]	—	10	AB1EBN35	0.69 (19.5)

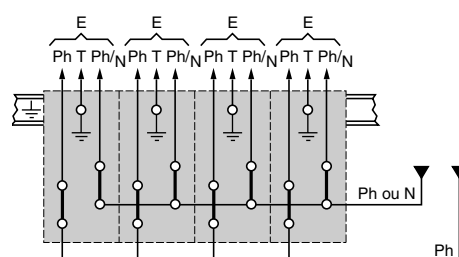
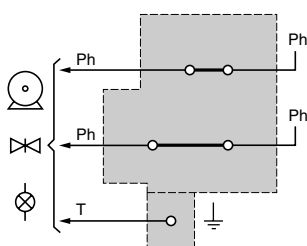
10/11 Marking accessories

See pages 5/2 and 5/3.

Connections

AB1TRPN435

Example: wiring several terminal blocks, AB1TRNN435 or AB1TRPN435



Terminal Blocks, Type AB1

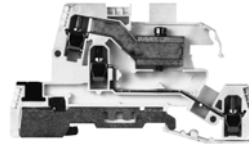
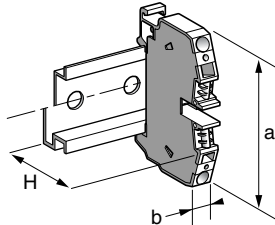
Screw clamp technology

Multifunction

Clip-on mounting on 35 mm ± 5 rails

Nominal wire size

4 mm²



AB1TRNN435

Approximate dimensions, in. (mm)

1	Length (a)	3.19 (90.3)
	Width (b)	0.21 (6)
	Height (H) ± 5 rail	2.08 (59)
	with ± 5 rail	1.82 (51.5)
Wire size, mm ²	Stranded without cable end	0.5–4
	Stranded with cable end	0.5–2.5
	Solid	0.5–6
Tightening torque	IEC	0.5–0.7 N•m
	UL	6.0 lbf-in
Nominal electrical values	IEC/EN 60947-7-1	400 V / 6 kV / 3–24 A
	UL File E164359	22–10 AWG, 300 V, 20 A
	CCN XCPR2	
	UTE, category C	250 Vac, 250 Vdc
	VDE, group C	380 Vac, 450 Vdc, 26 A

Certifications

See the tables beginning on page 1/12.

Terminal blocks

Gray

Characteristics

No. points	Sold in lots of	Catalog number	Weight oz (g)
—	50	AB1TRNN435	0.99 (28.0)
Neutral (blue), phase, grounding (green/ yellow) and screw bar clamp			

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Gray, thickness 0.08 in. (2 mm)	—	25	AB1TM1N	0.13 (3.7)
7	Partition plate	Gray, thickness 0.06 in. (1.5 mm)	—	25	AB1SM1N	0.11 (3.1)
8	Copper neutral bar	length 39.37 in. (1000 mm)	—	10	AB1PC3	10.51 (298.0)
9	Terminal clamp for bar 0.39 x 0.12 (10 x 3)	16 mm ² , pitch 0.33 (8.4)	—	10	AB1EBN16	0.31 (8.9)
		35 mm ² , pitch 0.67 (17) [dimensions = in. (mm)]	—	10	AB1EBN35	0.69 (19.5)

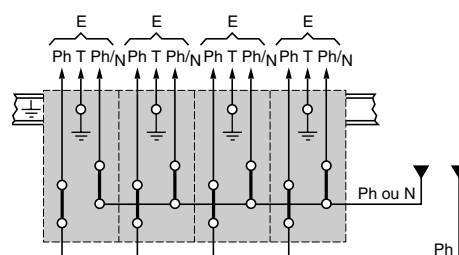
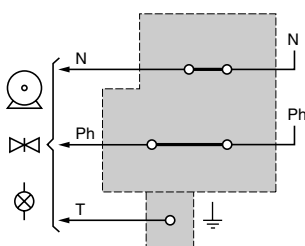
10/11 Marking accessories

See pages 5/2 and 5/3.

Wiring diagrams

AB1TRNN435

Example: wiring several terminal blocks, AB1TRNN435 or AB1TRPN435



Terminal Blocks, Type AB1

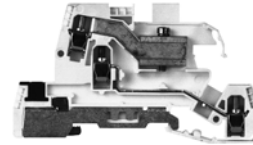
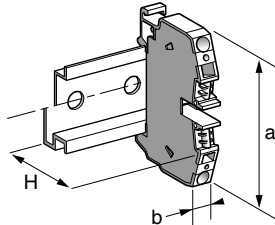
Screw clamp technology

Multifunction

Clip-on mounting on 35 mm ± 5 rails

Nominal wire size

4 mm²



AB1TRPN435UFM

Approximate dimensions, in. (mm)

1	Length (a)	3.19 (90.3)
	Width (b)	0.21 (6)
	Height (H) ± 5 rail	2.08 (59)
	with ± 5 rail	1.82 (51.5)

Wire size, mm²

Stranded without cable end	0.5–4
Stranded with cable end	0.5–2.5
Solid	0.5–6

Tightening torque

IEC	0.4–0.6 N•m
UL	8.0 lbf-in

Nominal electrical values

IEC/EN 60947-7-1	400 V / 6 kV / 3–24 A
UL File E164359 CCN XCFR2	22–10 AWG
UTE, category C	250 Vac, 250 Vdc
VDE, group C	380 Vac, 450 Vdc, 26 A

Certifications

See the tables beginning on page 1/12.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	—	50	AB1TRPN435UFM	0.99 (28.0)
Characteristics	Neutral (blue), phase, grounding (green/ yellow) and screw bar clamp with phase/neutral Fault indicator diode (1)			

Accessories

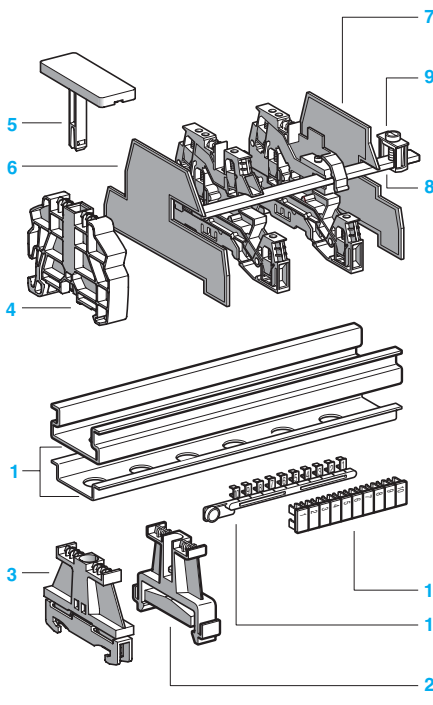
2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Gray, thickness 0.08 in. (2 mm)	—	25	AB1TM1N	0.13 (3.7)
7	Partition plate	Gray, thickness 0.06 in. (1.5 mm)	—	25	AB1SM1N	0.11 (3.1)
8	Copper neutral bar	length 39.37 in. (1000 mm)	—	10	AB1PC3	10.51 (298.0)
9	Terminal clamp	16 mm ² , pitch 0.33 (8.4) for bar 0.39 x 35 mm ² , pitch 0.67 (17) 0.12 (10 x 3) [dimensions = in. (mm)]	—	10	AB1EBN16	0.31 (8.9)
			—	10	AB1EBN35	0.69 (19.5)

10/11 Marking accessories

See pages 5/2 and 5/3.

(1) Neon lamp voltage indicator, 110–220 V.

536380



Terminal Blocks, Type AB1

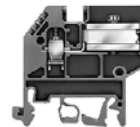
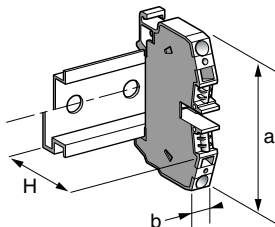
Screw clamp technology

For neutral conductors

Clip-on mounting on 35 mm rails

Nominal wire size

4 mm²



Approximate dimensions, in. (mm)

1

Length (a)

1.92 (48.75)

Width (b)

0.24 (6)

Height (H)  rail

2.20 (56)

with  rail

1.91 (48.5)

 rail

2.09 (53)

Wire size, mm²

Stranded without cable end

0.5–4

Stranded with cable end

0.5–2.5

Solid

0.5–6

Tightening torque IEC

0.5–0.7 N•m

Nominal electrical values

IEC/EN 60947-7-1

800 V / 8 kV / 3–32 A

UTE, category C

250 Vac, 250 Vdc

VDE, group C

380 Vac, 450 Vdc 25 A 30 A

Certifications

See the tables beginning on page 1/12.

Terminal blocks

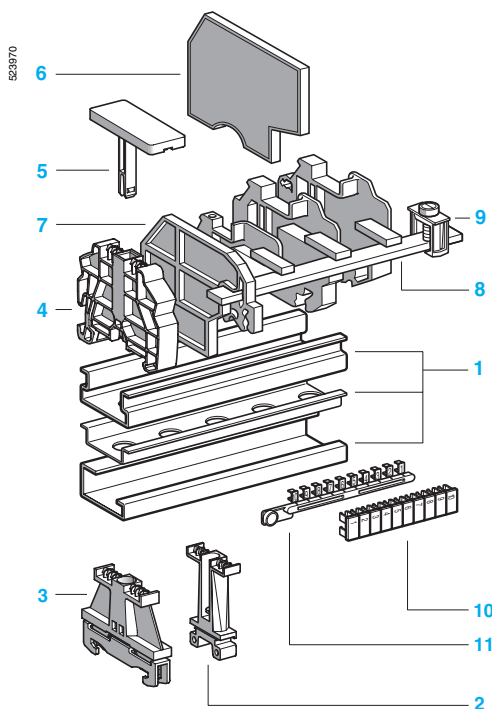
No. points	Sold in lots of	Catalog number	Weight oz (g)
—	100	AB1NEN435U	0.52 (14.7)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on  Width 0.3 in. (8 mm) on  or 	—	100	AB1AB7P32	0.15 (4.2)
3	Metal end clamp with screw	Width 0.4 in. (10 mm) on  Width 0.3 in. (8 mm) on  or 	—	100	AB1AB10M32	0.23 (6.5)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Blue, thickness 0.06 in. (1.5 mm) Blue, thickness 0.08 in. (2 mm)	—	10	AB1TNN4	0.09 (2.5)
7	Terminal clamp for bar		—	10	AB1SBN	0.18 (5.2)
8	Copper neutral bar	length 39.37 in. (1000 mm)	—	10	AB1PC3	10.51 (298.0)
9	Terminal clamp for bar	16 mm ² , pitch 0.33 (8.5) 35 mm ² , pitch 0.56 (14.3) [dimensions = in. (mm)]	—	10	AB1EBN16	0.31 (8.9)
			—	10	AB1EBN35	0.69 (19.5)

10/11 Marking accessories

See pages 5/2 and 5/3.



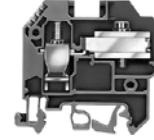
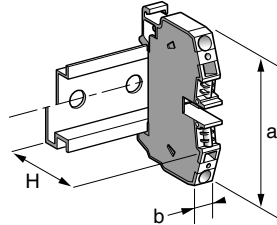
Terminal Blocks, Type AB1

Screw clamp technology
For neutral conductors

Clip-on mounting on 35 mm Σ rails

Nominal wire size

10 mm²



AB1NEN1035U

Approximate dimensions, in. (mm)

1	Length (a)	2.14 (54.25)
	Width (b)	0.39 (10)
	Height (H) Σ rail	2.46 (62.5)
	with Σ rail	2.17 (55)
		2.34 (59.5)

Wire size, mm²

Stranded without cable end	1–10
Stranded with cable end	1–10
Solid	10–16

Tightening torque IEC

2.0–2.5 N•m

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–41 A
UTE, category C	250 Vac, 250 Vdc
VDE, group C	380 Vac, 450 Vdc 45 A 50 A

Certifications

See the tables beginning on page 1/12.

Terminal blocks

No. points	Sold in lots of	Catalog number	Weight oz (g)
—	50	AB1NEN1035U	1.12 (31.7)

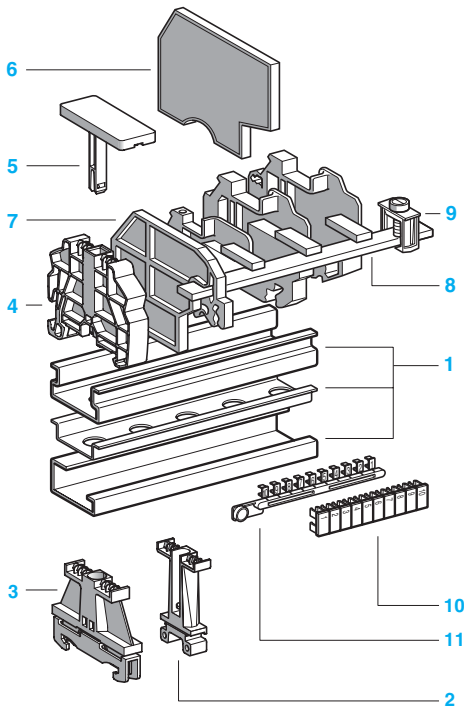
Accessories

Blue			
2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on Σ	— 100 AB1AB7P32 0.15 (4.2)
		Width 0.3 in. (8 mm) on Σ or Σ	— 100 AB1AB8P35 0.21 (5.9)
3	Metal end clamp with screw	Width 0.4 in. (10 mm) on Σ	— 100 AB1AB10M32 0.23 (6.5)
		Width 0.3 in. (8 mm) on Σ or Σ	— 100 AB1AB8M35 0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on Σ or Σ	— 100 AB1AB8R35 0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		— 10 AB1SB4 0.11 (3.1)
6	End plate	Blue, thickness 0.06 in. (1.5 mm)	— 10 AB1TNN10 0.09 (2.5)
		Blue, thickness 0.08 in. (2 mm)	— — —
7	Terminal clamp for bar		— 10 AB1SBN 0.18 (5.2)
8	Copper neutral bar	length 39.37 in. (1000 mm)	— 10 AB1PC3 10.51 (298.0)
9	Terminal clamp	16 mm ² , pitch 0.33 (8.5) for bar 0.39 x 35 mm ² , pitch 0.56 (14.3) 0.12 (10 x 3) [dimensions = in. (mm)]	— 10 AB1EBN16 0.31 (8.9)
			— 10 AB1EBN35 0.69 (19.5)

10/11 Marking accessories

See pages 5/2 and 5/3

523970



Terminal Blocks, Type AB1

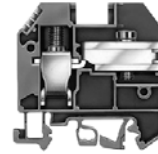
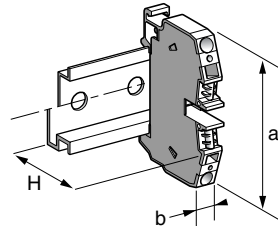
Screw clamp technology

For neutral conductors

Clip-on mounting on 35 mm Σ Σ Σ rails

Nominal wire size

16 mm²



AB1NEN1635U

Approximate dimensions, in. (mm)

1	Length (a)	2.26 (57.5)
	Width (b)	0.47 (12)
	Height (H) Σ rail	2.56 (65)
	with Σ rail	2.26 (57.5)
	with Σ rail	2.44 (62)

Wire size, mm²

Stranded without cable end	1–16
Stranded with cable end	1–16
Solid	10–25

Tightening torque IEC

2.5–3.0 N•m

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3
UTE, category C	250 Vac, 250 Vdc
VDE, group C	380 Vac, 450 Vdc

16 mm² 25 mm²

62 A 67 A

Certifications

See the tables beginning on page 1/12.

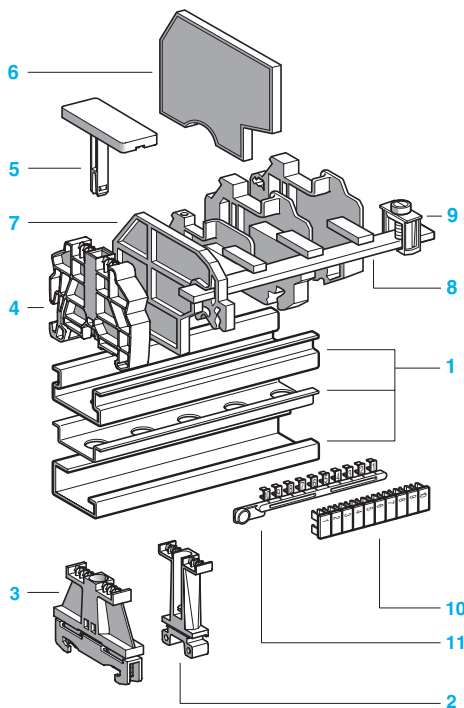
Terminal blocks

		No. points	Sold in lots of	Catalog number	Weight oz (g)	
	Blue	—	50	AB1NEN1635U	1.59 (45.2)	
Accessories						
2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm) on 	—	100	AB1AB7P32	0.15 (4.2)
		Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.4 in. (10 mm) on 	—	100	AB1AB10M32	0.23 (6.5)
		Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Blue, thickness 0.06 in. (1.5 mm)	—	—	—	—
		Blue, thickness 0.08 in. (2 mm)	—	10	AB1TNN16	0.12 (3.4)
7	Terminal clamp for bar		—	10	AB1SBN	0.18 (5.2)
8	Copper neutral bar length 39.37 in. (1000 mm)		—	10	AB1PC3	10.51 (298.0)
9	Terminal clamp for bar 0.39 x 0.12 (10 x 3)	16 mm ² , pitch 0.33 (8.5)	—	10	AB1EBN16	0.31 (8.9)
		35 mm ² , pitch 0.56 (14.3) [dimensions = in. (mm)]	—	10	AB1EBN35	0.69 (19.5)

10/11 Marking accessories

See pages 5/2 and 5/3

523870



Terminal Blocks, Type AB1

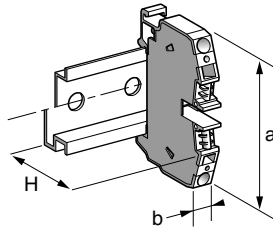
Screw clamp technology

Lug-lug type

Clip-on mounting on 35 mm $\frac{1}{4}$ rails

Nominal wire size

95 mm²



AB1BB9535

Approximate dimensions, in. (mm)

1	Length (a)	3.62 (92)
	Width (b)	1.26 (32)
	Height (H) $\frac{1}{4}$ rail	2.76 (70); with protective cover: 3.41 (86.5)
	with $\frac{1}{4}$ rail	2.46 (62.5); with protective cover: 3.11 (79)

Wire size, mm²

	Stranded	Up to 95
	Solid	Up to 95
	Fixing bolt	M10
	Bar	0.20 x 0.71 in. (5 x 18 mm)
Tightening torque	IEC	10 N•m
	UL	250 lbf-in

Nominal electrical values

IEC/EN 60947-7-1	1000 V / 8 kV / 3–225 A
	0 AWG – 350 kcmil, 600 V, 230 A
UL File E164359 CCN XCFR2	0 AWG – 350 kcmil, 600 V, 230 A
	500 Vac, 500 Vdc
CSA File 702070 Class 6228 01	1000 Vac, 1200 Vdc, 250 A
	See the tables beginning on page 1/12.
UTE, category C	
VDE, group C	

Certifications

Terminal blocks

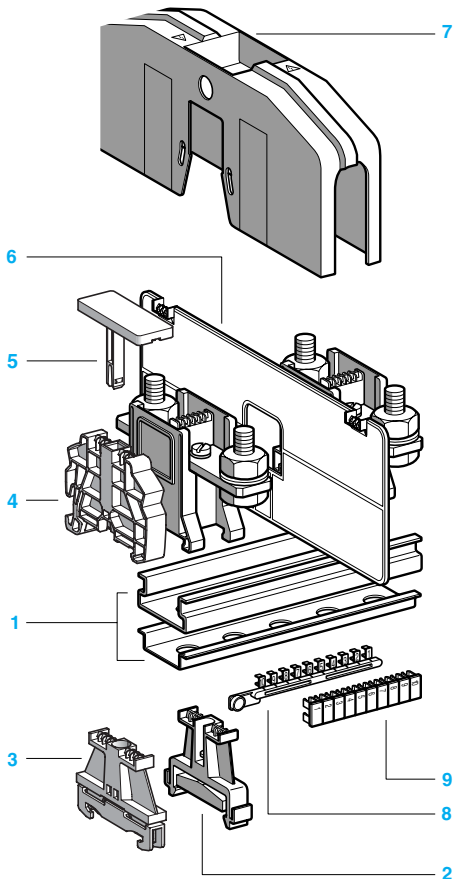
	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2	10	AB1BB9535	5.96 (169.0)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	2.76 x 6.85 x 1.26 in. (70 x 180 x 4.5 mm) gray, thickness 0.11 in. (2.8 mm)	—	50	AB1CT1	1.20 (34.0)
7	Terminal cover yellow	2.72 x 6.85 x 1.26 in. (69 x 174 x 32 mm)	—	10	AB1CP1	1.94 (55.0)
		3.66 x 7.64 x 1.65 in. (93 x 194 x 42 mm)	—	—	—	—

8/9 Marking accessories

See pages 5/2 and 5/3.



Terminal Blocks, Type AB1

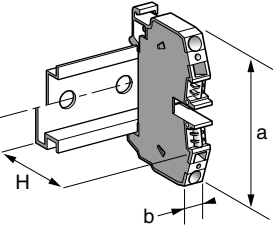
Screw clamp technology

Lug-lug type

Clip-on mounting on 35 mm rails

Nominal wire size

185 mm²



AB1BB18535

Approximate dimensions, in. (mm)

1	Length (a)	3.62 (92)
	Width (b)	1.65 (42)
	Height (H)  rail	2.83 (72); with protective cover: 4.35 (110.5)
	with  rail	2.54 (64.5); with protective cover: 4.06 (103)

Wire size, mm²

	Stranded	Up to 185
	Solid	Up to 185
	Fixing bolt	M12
	Bar	0.24 x 1.02 in. (6 x 26 mm)
Tightening torque	IEC	14 N•m
	UL	325 lbf-in

Nominal electrical values

IEC/EN 60947-7-1	1000 V / 8 kV / 3–353 A
	0 AWG – 400 kcmil, 600 V, 375 A
UL File E164359 CCN XCFR2	0 AWG – 400 kcmil, 600 V, 375 A
CSA File 702070 Class 6228 01	500 Vac, 500 Vdc
UTE, category C	1000 Vac, 1200 Vdc, 392 A
VDE, group C	See the tables beginning on page 1/12.

Certifications

Terminal blocks

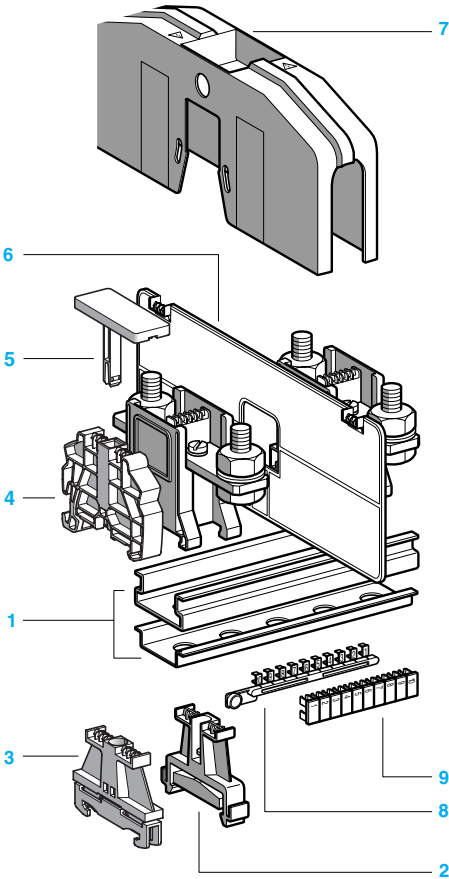
	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2	10	AB1BB18535	8.82 (250.0)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on  or 	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate gray, thickness 0.11 in. (2.8 mm)	2.76 x 6.85 x 1.26 in. (70 x 180 x 4.5 mm)	—	—	—	—
		2.76 x 7.87 x 1.26 in. (70 x 200 x 4.5 mm)	—	50	AB1CT2	1.31 (37.0)
7	Terminal cover yellow	2.72 x 6.85 x 1.26 in. (69 x 174 x 32 mm)	—	—	—	—
		3.66 x 7.64 x 1.65 in. (93 x 194 x 42 mm)	—	10	AB1CP2	3.17 (90.0)

8/9 Marking accessories

See pages 5/2 and 5/3.



Terminal Blocks, Type AB1

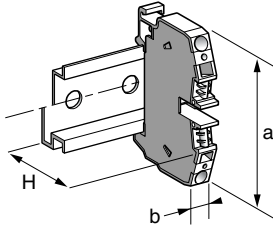
Screw clamp technology

Lug-lug type

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

240 mm²



AB1BB24035

Approximate dimensions, in. (mm)

1

Length (a)	3.62 (92)
Width (b)	1.65 (42)
Height (H) $\frac{25}{8}$ rail	3.07 (78); with protective cover: 4.35 (110.5)
with $\frac{25}{8}$ rail	2.78 (70.5); with protective cover: 4.06 (103)

Wire size, mm²

Stranded	Up to 240
Solid	Up to 240
Fixing bolt	M12
Bar	0.31 x 1.02 in. (8 x 26 mm)

Tightening torque

IEC	14 N•m
UL	375 lbf-in

Nominal electrical values

IEC/EN 60947-7-1	1000 V / 8 kV / 3–415 A
UL File E164359 CCN XCFR2	0 AWG – 500 kcmil, 600 V, 375 A
CSA File 702070 Class 6228 01	3/0 AWG – 500 kcmil, 600 V, 425 A
UTE, category C	500 Vac, 500 Vdc
VDE, group C	1000 Vac, 1200 Vdc, 461 A

Certifications

See the tables beginning on page 1/12.

Terminal blocks

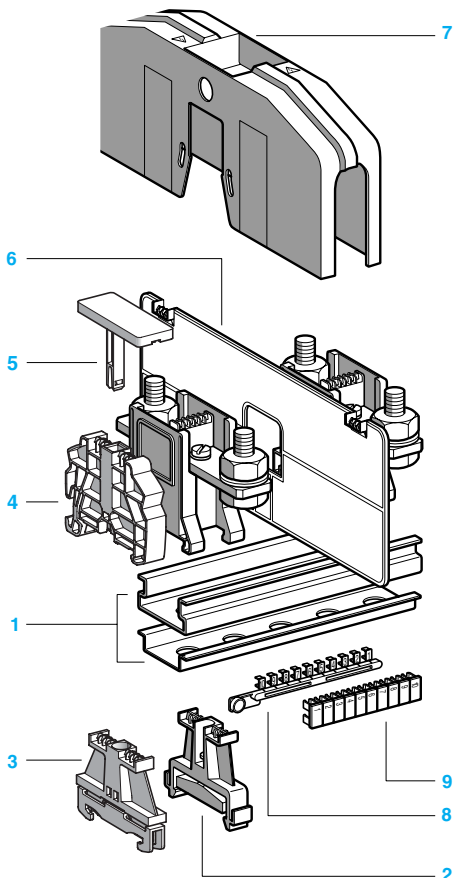
	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2	10	AB1BB24035	9.35 (265.0)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate gray, thickness 0.11 in. (2.8 mm)	2.76 x 6.85 x 1.26 in. (70 x 180 x 4.5 mm)	—	—	—	—
		2.76 x 7.87 x 1.26 in. (70 x 200 x 4.5 mm)	—	50	AB1CT2	1.31 (37.0)
7	Terminal cover yellow	2.72 x 6.85 x 1.26 in. (69 x 174 x 32 mm)	—	—	—	—
		3.66 x 7.64 x 1.65 in. (93 x 194 x 42 mm)	—	10	AB1CP2	3.17 (90.0)

8/9 Marking accessories

See pages 5/2 and 5/3.



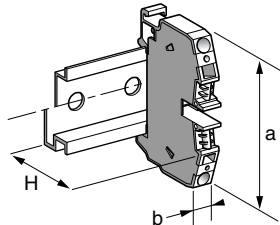
Terminal Blocks, Type AB1

Screw clamp technology
Lug-clamp type

Clip-on mounting on 35 mm $\frac{1}{4}$ rails

Nominal wire size

95 mm²



AB1BC9535

Approximate dimensions, in. (mm)

1	Length (a)	3.62 (92)
	Width (b)	1.26 (32)
	Height (H) $\frac{1}{4}$ rail with $\frac{1}{4}$ rail	3.11 (79); with protective cover: 3.41 (86.5) 2.81 (71.5); with protective cover: 3.11 (79)

Wire size, mm²

Stranded	16–95
Solid	16–95
Fixing bolt	M10
Bar	0.20 x 0.71 in. (5 x 18 mm)

Tightening torque

IEC	10 N•m
UL	250 lbf-in

Nominal electrical values

IEC/EN 60947-7-1	1000 V / 8 kV / 3–225 A
UL File E164359 CCN XCFR2	0 AWG – 350 kcmil, 600 V, 230 A
CSA File 702070 Class 6228 01	0 AWG – 350 kcmil, 600 V, 200 A
UTE, category C	500 Vac, 500 Vdc
VDE, group C	1000 Vac, 1200 Vdc, 250 A

Certifications

See the tables beginning on page 1/12.

Terminal blocks

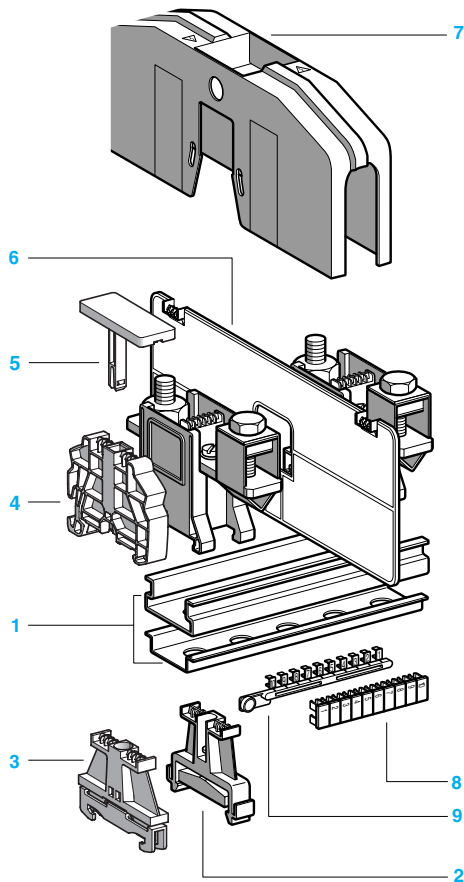
	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2	10	AB1BC9535	8.32 (236.0)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate gray, thickness 0.11 in. (2.8 mm)	2.76 x 7.09 x 0.18 in. (70 x 180 x 4.5 mm) 2.76 x 7.87 x 0.18 in. (70 x 200 x 4.5 mm)	—	50	AB1CT1	1.20 (34.0)
7	Terminal cover yellow	2.72 x 6.85 x 1.26 in. (69 x 174 x 32 mm) 3.66 x 7.64 x 1.65 in. (93 x 194 x 42 mm)	—	10	AB1CP1	1.94 (55.0)

8/9 Marking accessories

See pages 5/2 and 5/3.



Terminal Blocks, Type AB1

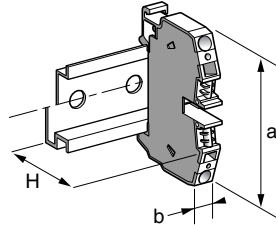
Screw clamp technology

Lug-clamp type

Clip-on mounting on 35 mm ± 5 rails

Nominal wire size

150 mm²



AB1BC15035

Approximate dimensions, in. (mm)

1	Length (a)	3.62 (92)
	Width (b)	1.65 (42)
	Height (H) ± 5 rail	3.27 (83); with protective cover: 4.35 (110.5)
	with rail	2.97 (75.5); with protective cover: 4.06 (103)

Wire size, mm²

Stranded	25–150
Solid	25–150
Fixing bolt	M12
Bar	0.24 x 1.02 in. (6 x 26 mm)

Tightening torque

IEC	14 N•m
UL	250 lbf-in

Nominal electrical values

IEC/EN 60947-7-1	1000 V / 8 kV / 3–300 A
UL File E164359	0 AWG – 400 kcmil, 600 V, 325 A
CCN XCFR2	
CSA File 702070	0 AWG – 400 kcmil, 600 V, 325 A
Class 6228 01	
UTE, category C	500 Vac, 500 Vdc
VDE, group C	1000 Vac, 1200 Vdc, 335 A

Certifications

See the tables beginning on page 1/12.

Terminal blocks

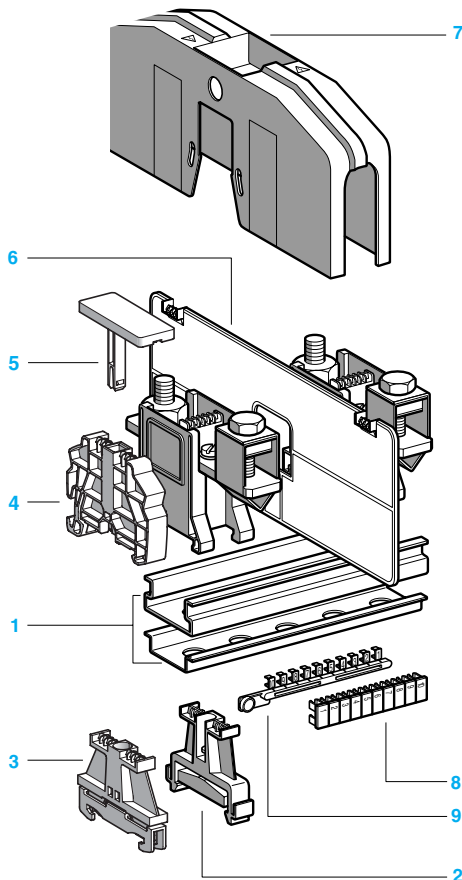
	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2	10	AB1BC15035	9.77 (277.0)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on ± 5 or rail	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on ± 5 or rail	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on ± 5 or rail	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate gray, thickness 0.11 in. (2.8 mm)	2.76 x 7.09 x 0.18 in. (70 x 180 x 4.5 mm)	—	—	—	—
		2.76 x 7.87 x 1.26 in. (70 x 200 x 4.5 mm)	—	50	AB1CT2	1.31 (37.0)
7	Terminal cover yellow	2.72 x 6.85 x 1.26 in. (69 x 174 x 32 mm)	—	—	—	—
		3.66 x 7.64 x 1.65 in. (93 x 194 x 42 mm)	—	10	AB1CP2	3.17 (90.0)

8/9 Marking accessories

See pages 5/2 and 5/3.



Terminal Blocks, Type AB1

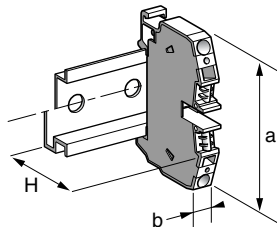
Screw clamp technology

Lug-clamp type

Clip-on mounting on 35 mm ± 5 rails

Nominal wire size

240 mm²



AB1BC24035

Approximate dimensions, in. (mm)

1	Length (a)	4.02 (102)
	Width (b)	1.65 (42)
	Height (H) ± 5 rail	3.94 (100); with protective cover: 4.35 (110.5)
	with ± 5 rail	3.64 (92.5); with protective cover: 4.06 (103)

Wire size, mm²

Stranded	35–240
Solid	35–240
Fixing bolt	M12
Bar	0.31 x 1.02 in. (8 x 26 mm)

Tightening torque

IEC	14 N•m
UL	375 lbf-in

Nominal electrical values

IEC/EN 60947-7-1	1000 V / 8 kV / 3–415 A
UL File E164359 CCN XCFR2	0 AWG – 500 kcmil, 600 V, 375 A
CSA File 702070 Class 6228 01	3/0 AWG – 500 kcmil, 600 V, 425 A
UTE, category C	500 Vac, 500 Vdc
VDE, group C	1000 Vac, 1200 Vdc, 453 A

Certifications

See the tables beginning on page 1/12.

Terminal blocks

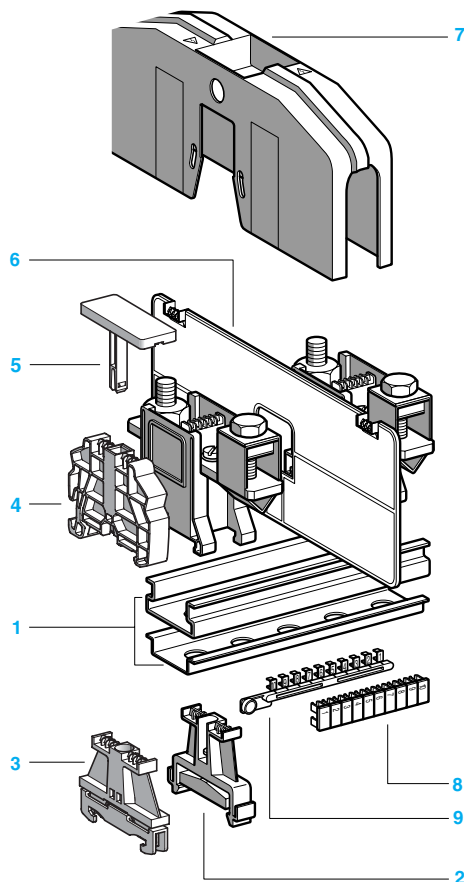
	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2	10	AB1BC24035	10.10 (287.0)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	2.76 x 7.09 x 0.18 in. gray, thickness (70 x 180 x 4.5 mm) 0.11 in. (2.8 mm)	—	—	—	—
		2.76 x 7.87 x 1.26 in. (70 x 200 x 4.5 mm)	—	50	AB1CT2	1.31 (37.0)
7	Terminal cover	2.72 x 6.85 x 1.26 in. (69 x 174 x 32 mm)	—	—	—	—
	yellow	3.66 x 7.64 x 1.65 in. (93 x 194 x 42 mm)	—	10	AB1CP2	3.17 (90.0)

8/9 Marking accessories

See pages 5/2 and 5/3.



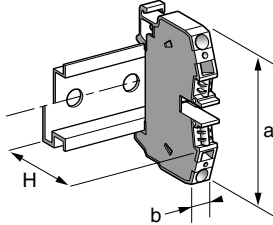
Terminal Blocks, Type AB1

Screw clamp technology
Miniature passthrough

Clip-on mounting on 15 mm rail

Nominal wire size

2.5 mm²



AB1VV215**

Approximate dimensions, in. (mm)

Length (a)	1.12 (28.5)
Width (b)	0.20 (5)
Height (H) with rail	1.26 (32)

Wire size, mm²

Stranded without cable end	0.5–2.5
Stranded with cable end	0.5–1.5
Solid	0.5–4

Tightening torque

IEC	0.4–0.6 N•m
UL	6.0 lbf-in

Nominal electrical values

IEC/EN 60947-7-1	500 V / 6 kV / 3–24 A
UL File E164359 CCN XCFR2	22–14 AWG, 150 V, 10 A
CSA File 702070 Class 6228 01	22–12 AWG, 600 V, 25 A
UTE, category C	500 Vac, 500 Vdc
VDE, group C	500 Vac, 600 Vdc, 26 A
ATEX Exe II II 2 GD	2.5 mm ² , 275 V, 20 A, KEMA 02 ATEX 2114 U

Certifications

See the tables beginning on page 1/12.

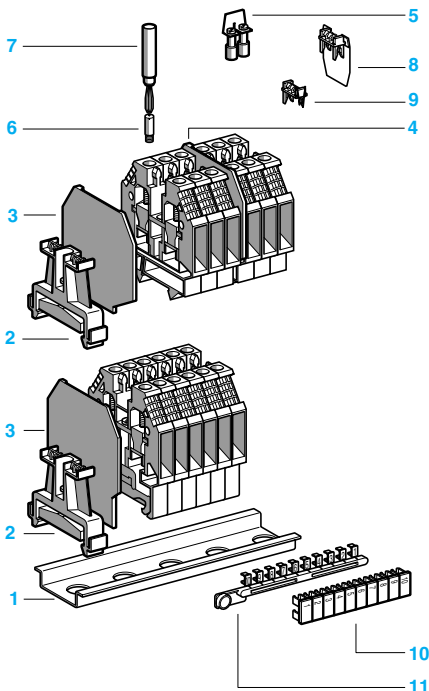
Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2	10	AB1VV215	0.15 (4.2)
Blue	2	100	AB1VV215BL	0.15 (4.2)
Green/Yellow	2	—	—	—

Grounding type

Accessories

1	Rail, 15 x 5, length 1000		—	10	AB1PC15	4.94 (140.0)
2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm)	—	100	AB1AB715	0.08 (2.2)
3	End plate	Gray, thickness 0.06 in. (1.5 mm)	—	50	AB1AC2	0.05 (1.3)
4	Partition plate	Gray, thickness 0.06 in. (1.5 mm)	—	50	AB1AS2	0.06 (1.7)
5	Jumper with screws	2-pole (Non-insulated)	2	50	AB1B22	0.06 (1.6)
		60-pole (Non-insulated)	60	10	AB1B15	3.70 (105.0)
6	Socket for test plug	Ø 0.09 in.(2.3 mm)	—	50	AB1A2	0.018 (0.5)
7	Test plug	Red	—	50	AB1AT1	0.06 (1.7)
8	Yellow partition plate		1	100	AB1CJ215	0.021 (0.6)
9	Yellow protective cover		1	100	AB1CA215	0.014 (0.4)
10/11	Marking accessories		See pages 5/2 and 5/3.			



Terminal Blocks, Type AB1

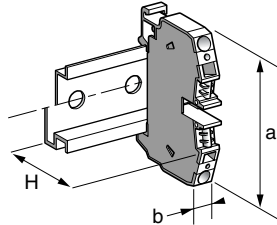
Screw clamp technology

Miniature passthrough

Clip-on mounting on 15 mm rail

Nominal wire size

4 mm²



AB1VV415

Approximate dimensions, in. (mm)

Length (a)	1.12 (28.5)
Width (b)	0.24 (6)
Height (H) with 15 mm rail	1.26 (32)

Wire size, mm²

Stranded without cable end	0.5–4
Stranded with cable end	0.5–2.5
Solid	0.5–6

Tightening torque

IEC	0.5–0.7 N•m
UL	8.0 lbf-in

Nominal electrical values

IEC/EN 60947-7-1	500 V / 6 kV / 3–34 A
UL File E164359 CCN XCFR2	22–14 AWG, 150 V, 10 A
CSA File 702070 Class 6228 01	22–12 AWG
UTE, category C	500 Vac, 500 Vdc
VDE, group C	500 Vac, 600 Vdc, 34 A
ATEX Exe II II 2 GD	4 mm ² , 275 V, 21 / 27 A, KEMA 02 ATEX 2114 U

Certifications

See the tables beginning on page 1/12.

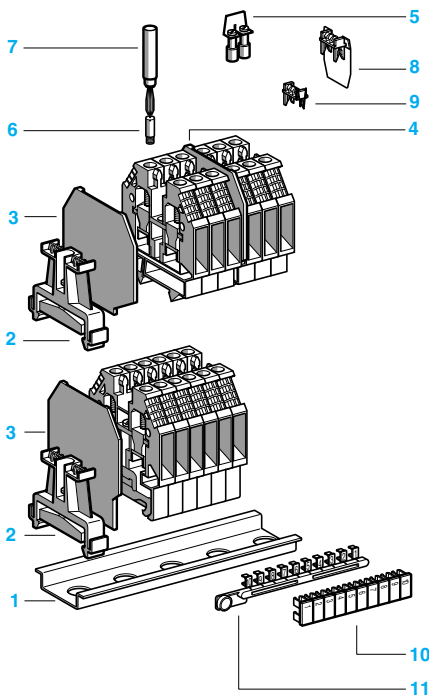
Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2	100	AB1VV415	0.19 (5.5)
Blue	—	—	—	—
Green/Yellow	—	—	—	—

Grounding type

Accessories

1	Rail, 15 x 5, length 1000		—	10	AB1PC15	4.94 (140.0)
2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm)	—	100	AB1AB715	0.08 (2.2)
3	End plate	Gray, thickness 0.06 in. (1.5 mm)	—	50	AB1AC2	0.05 (1.3)
4	Partition plate	Gray, thickness 0.06 in. (1.5 mm)	—	50	AB1AS2	0.06 (1.7)
5	Jumper with screws	2-pole (Non-insulated)	2	50	AB1B22	0.06 (1.6)
		60-pole (Non-insulated)	60	10	AB1B15	3.70 (105.0)
6	Socket for test plug	Ø 0.09 in.(2.3 mm)	—	50	AB1A2	0.018 (0.5)
7	Test plug	Red	—	50	AB1AT1	0.06 (1.7)
8	Yellow partition plate		1	100	AB1CJ3	0.021 (0.6)
9	Yellow protective cover		1	100	AB1CA3	0.014 (0.4)
10/11	Marking accessories		See pages 5/2 and 5/3.			



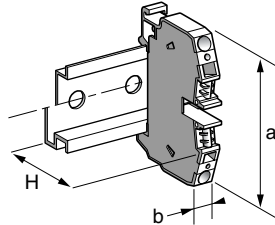
Terminal Blocks, Type AB1

Screw clamp technology
Miniature grounding

Clip-on mounting on 15 mm rail

Nominal wire size

2.5–4 mm²



AB1TP215

Approximate dimensions, in. (mm)

Length (a)	1.12 (28.5)
Width (b)	0.24 (6)
Height (H) with rail	1.26 (32)

Wire size, mm²

Stranded without cable end	0.5–4
Stranded with cable end	0.5–2.5
Solid	0.5–6

Tightening torque

IEC	0.5–0.7 N•m
UL	6.0 lbf-in

Nominal electrical values

IEC/EN 60947-7-1	500 V / 6 kV / 3–34 A
UL File E164359 CCN XCFR2	22–14 AWG, 150 V, 10 A
CSA File 702070 Class 6228 01	22–12 AWG
UTE, category C	500 Vac, 500 Vdc
VDE, group C	500 Vac, 600 Vdc, 34 A
ATEX Exe II II 2 GD	4 mm ² , KEMA 02 ATEX 2114 U

Certifications

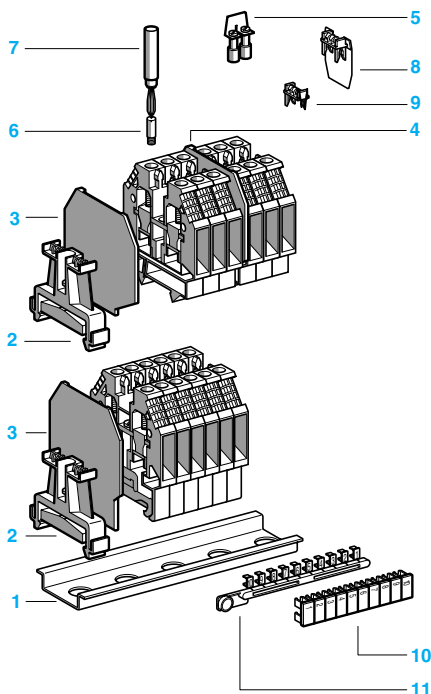
See the tables beginning on page 1/12.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	—	—	—	—
Blue	—	—	—	—
Grounding Green/Yellow	2	100	AB1TP215	0.41 (11.7)

Accessories

1	Rail, 15 x 5, length 1000		—	10	AB1PC15	4.94 (140.0)
2	Plastic end clamp with screw	Width 0.3 in. (7.5 mm)	—	100	AB1AB715	0.08 (2.2)
3	End plate	Gray, thickness 0.06 in. (1.5 mm)	—	50	AB1CT215	0.07 (2.0)
4	Partition plate	Gray, thickness 0.06 in. (1.5 mm)	—	—	—	—
5	Jumper with screws	2-pole (Non-insulated) 60-pole (Non-insulated)	—	—	—	—
6	Socket for test plug	Ø 0.09 in.(2.3 mm)	—	—	—	—
7	Test plug	Red	—	—	—	—
8	Yellow partition plate		—	—	—	—
9	Yellow protective cover		—	—	—	—
10/11	Marking accessories		See pages 5/2 and 5/3.			



4 - Terminal Blocks, Type AB1

Insulation displacement technology

	<i>Page</i>
<i>Selection guide</i>	4/2
Passthrough type terminal blocks	4/4
Terminal blocks for grounding	4/10
Disconnect type terminal blocks	4/16
Double deck terminal blocks	4/20

Terminal Blocks, Type AB1

Insulation displacement technology

Applications (connection)		Passthrough		Grounding	
					
Nominal wire size	AWG (mm ²)	18 (1)	12 (2.5)	18 (1)	12 (2.5)
Number of poles	1 - 1 x 1	•	•	•	•
	2 - 1 x 1	—	—	—	—
	1 - 1 x 2	•	•	•	•
	1 - 2 x 2	•	•	•	•
Clip-on mounting on	35 mm 	•	•	•	•
	35 mm 	•	•	•	•
Colors	Gray	•	•	—	—
	Blue	•	•	—	—
	Green/yellow	—	—	•	•
	Orange	—	—	—	—
	Red	—	—	—	—
Catalog numbers		AB1AA***		AB1AATP***	

Terminal Blocks, Type AB1

Insulation displacement technology

Applications (connection)		Disconnect		Removable carrier, for diode or cylindrical fuse		Double deck	
		Blade type					
							
Nominal wire size	AWG (mm ²)	18 (1)	14 (2.5)	18 (1)	14 (2.5)	18 (1)	14 (2.5)
Number of poles	1 - 1 x 1	•	•	•	•	—	—
	2 - 1 x 1	—	—	—	—	•	•
	1 - 1 x 2	—	—	—	—	—	—
	1 - 2 x 2	—	—	—	—	—	—
Clip-on mounting on	35 mm 	•	•	•	•	•	•
	35 mm 	•	•	•	•	•	•
Colors	Gray	•	•	•	•	•	•
	Blue	•	•	—	—	—	—
	Green/yellow	—	—	—	—	—	—
	Orange	—	—	—	—	—	•
	Red	—	—	—	—	—	•
Catalog numbers		AB1AASC...		AB1AASF...		AB1AAET...	

Terminal Blocks, Type AB1

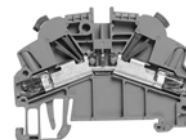
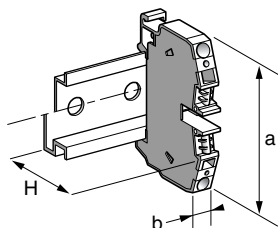
Insulation displacement technology

Passthrough

Clip-on mounting on 35 mm ± 5 rails

Nominal wire size

1 mm²



AB1AA135U2**

Approximate dimensions, in. (mm)

1	Length (a)	2.64 (67)
	Width (b)	0.20 (5)
	Height (H) ± 5 rail	2.26 (57.5)
	with ± 5 rail	1.97 (50)

Wire size, mm²

Stranded without cable end	0.2–1
Stranded with cable end	—
Solid	0.2–1

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–13.5 A
UL File E164359 CCN XCFR2	30–18 AWG Cu, 600 V, 13 A
CSA File 702070 Class 6228 01	24–18 AWG Cu, 600 V, 7 A
ATEX Exe II II 2 GD	1 mm ² , 750 V, 13.5 A, KEMA 02 ATEX 2113 U

Certifications

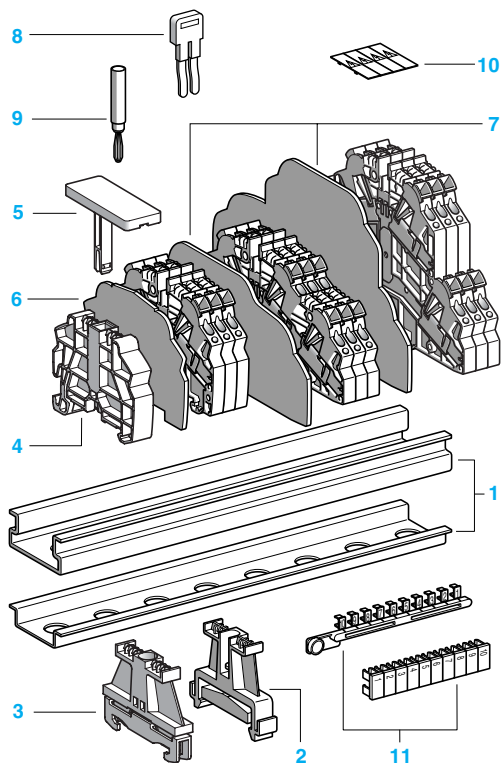
See the table on page 1/13.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2	100	AB1AA135U2GR	0.44 (12.6)
Blue	2	100	AB1AA135U2BL	0.44 (12.6)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Gray	—	10	AB1AAAC122GR	0.16 (4.4)
	thickness	Blue	—	10	AB1AAAC122BL	0.16 (4.4)
	0.06 in. (1.5 mm)					
7	Partition plate	Gray	—	10	AB1AAAS122GR	0.19 (5.3)
	thickness	Blue	—	10	AB1AAAS122BL	0.19 (5.3)
	0.06 in. (1.5 mm)					
8	Insulated jumper	2-pole	—	10	AB1RRAL22	0.04 (1.1)
		3-pole	—	10	AB1RRAL23	0.06 (1.7)
		4-pole	—	10	AB1RRAL24	0.08 (2.2)
		5-pole	—	10	AB1RRAL25	0.10 (2.8)
		10-pole	—	20	AB1RRAL210	0.20 (5.6)
9	Test plug	Red	—	50	AB1AT1	0.07 (1.9)
10	Terminal cover		4	10	AB1AACS1JA	0.014 (0.4)
11	Marking accessories		See pages 5/2 and 5/3.			



Terminal Blocks, Type AB1

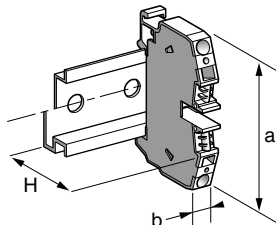
Insulation displacement technology

Passthrough

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

1 mm²



AB1AA135U3**

Approximate dimensions, in. (mm)

1	Length (a)	3.63 (92.1)
	Width (b)	0.20 (5)
	Height (H) $\frac{25}{8}$ rail with $\frac{25}{8}$ rail	2.26 (57.5)
		1.97 (50)

Wire size, mm²

Stranded without cable end	0.2–1
Stranded with cable end	—
Solid	0.2–1

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–13.5 A
UL File E164359 CCN XCFR2	30–18 AWG Cu, 600 V, 10 A
CSA File 702070 Class 6228 01	24–18 AWG Cu, 600 V, 7 A
ATEX Exe II II 2 GD	1 mm ² , 750 V, 13.5 A, KEMA 02 ATEX 2113 U

Certifications

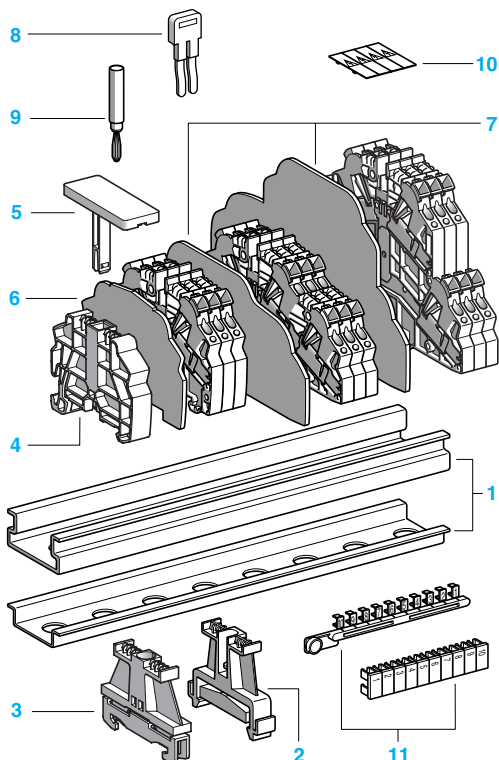
See the table on 1/13.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	3	50	AB1AA135U3GR	0.62 (17.5)
Blue	3	50	AB1AA135U3BL	0.62 (17.5)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Gray thickness 0.06 in. (1.5 mm)	—	10	AB1AAAC123GR	0.20 (5.7)
		Blue	—	10	AB1AAAC123BL	0.20 (5.7)
7	Partition plate	Gray thickness 0.06 in. (1.5 mm)	—	10	AB1AAAS123GR	0.25 (7.1)
		Blue	—	10	AB1AAAS123BL	0.25 (7.1)
8	Insulated jumper	2-pole	—	10	AB1RRAL22	0.04 (1.1)
		3-pole	—	10	AB1RRAL23	0.08 (2.2)
		4-pole	—	10	AB1RRAL24	0.10 (2.8)
		5-pole	—	10	AB1RRAL25	0.20 (5.6)
		10-pole	—	20	AB1RRAL210	0.07 (1.9)
9	Test plug	Red	—	50	AB1AT1	0.06 (1.7)
10	Terminal cover		4	10	AB1AACS1JA	0.014 (0.4)
11	Marking accessories		See pages 5/2 and 5/3.			



Terminal Blocks, Type AB1

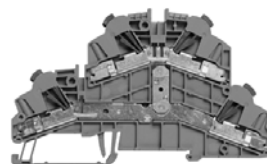
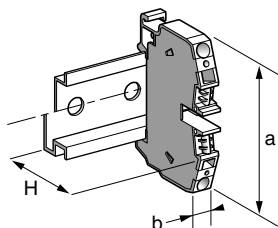
Insulation displacement technology

Passthrough

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

1 mm²



AB1AA135U4**

Approximate dimensions, in. (mm)

1	Length (a)	4.71 (119.7)
	Width (b)	0.20 (5)
	Height (H) $\frac{25}{8}$ rail	3.13 (79.5)
	with $\frac{25}{8}$ rail	2.83 (72)

Wire size, mm²

Stranded without cable end	0.2–1
Stranded with cable end	—
Solid	0.2–1

Nominal electrical values

IEC/EN 60947-7-1	500 V / 6 kV / 3–13.5 A
UL File E164359 CCN XCFR2	30–18 AWG Cu, 600 V, 10 A
CSA File 702070 Class 6228 01	24–18 AWG Cu, 600 V, 7 A
ATEX Exe II II 2 GD	1 mm ² , 550 V, 13.5 A, KEMA 02 ATEX 2113 U

Certifications

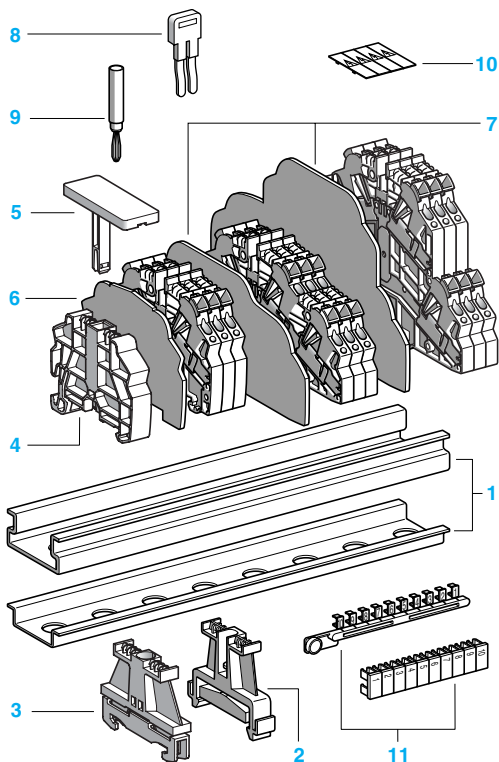
See the table on 1/13.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	4	50	AB1AA135U4GR	1.08 (30.7)
Blue	4	50	AB1AA135U4BL	1.08 (30.7)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{15}{8}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{15}{8}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{15}{8}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Gray	—	10	AB1AAAC124GR	0.36 (10.3)
	thickness	Blue	—	10	AB1AAAC124BL	0.36 (10.3)
	0.06 in. (1.5 mm)					
7	Partition plate	Gray	—	10	AB1AAAS124GR	0.41 (11.5)
	thickness	Blue	—	10	AB1AAAS124BL	0.41 (11.5)
	0.06 in. (1.5 mm)					
8	Insulated jumper	2-pole	—	10	AB1RRAL22	0.04 (1.1)
		3-pole	—	10	AB1RRAL23	0.08 (2.2)
		4-pole	—	10	AB1RRAL24	0.10 (2.8)
		5-pole	—	10	AB1RRAL25	0.20 (5.6)
		10-pole	—	20	AB1RRAL210	0.07 (1.9)
9	Test plug	Red	—	50	AB1AT1	0.06 (1.7)
10	Terminal cover		4	10	AB1AACS1JA	0.014 (0.4)
11	Marking accessories		See pages 5/2 and 5/3.			



Terminal Blocks, Type AB1

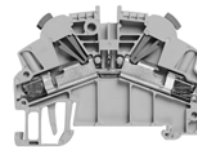
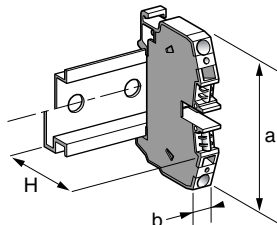
Insulation displacement technology

Passthrough

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

2.5 mm²



Approximate dimensions, in. (mm)

1	Length (a)	2.64 (67)
	Width (b)	0.24 (6)
	Height (H) $\frac{25}{8}$ rail	2.26 (57.5)
	with $\frac{25}{8}$ rail	1.97 (50)

Wire size, mm²

Stranded without cable end	1–2.5
Stranded with cable end	—
Solid	1–2.5

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–24 A
UL File E164359 CCN XCFR2	18–14 AWG Cu, 600 V, 13 A
CSA File 702070 Class 6228 01	16–14 AWG Cu, 600 V, 20 A
ATEX Exe II II 2 GD	2.5 mm ² , 750 V, 24 A, KEMA 02 ATEX 2113 U

Certifications

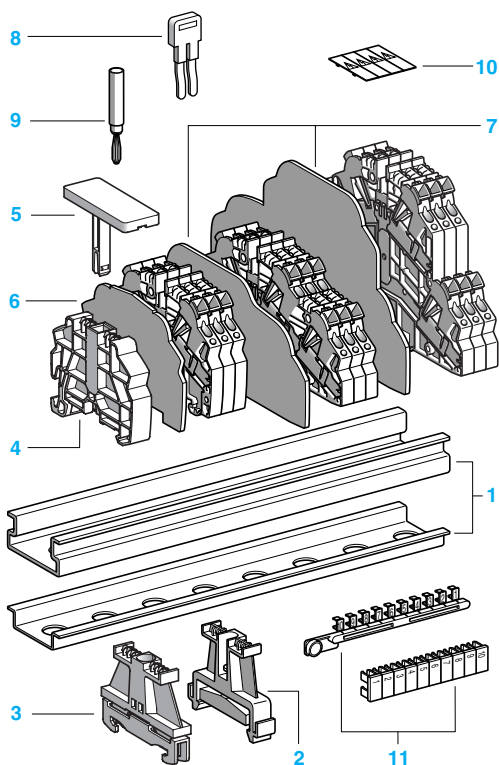
See the table on 1/13.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2	100	AB1AA235U2GR	0.50 (14.1)
Blue	2	100	AB1AA235U2BL	0.50 (14.1)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1AAAC122GR	0.16 (4.4)
		Blue	—	10	AB1AAAC122BL	0.16 (4.4)
7	Partition plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1AAAS122GR	0.19 (5.3)
		Blue	—	10	AB1AAAS122BL	0.19 (5.3)
8	Insulated jumper	2-pole	—	10	AB1RRAL42	0.06 (1.6)
		3-pole	—	10	AB1RRAL43	0.06 (1.7)
		4-pole	—	10	AB1RRAL44	0.10 (2.8)
		5-pole	—	10	AB1RRAL45	0.20 (5.6)
		10-pole	—	20	AB1RRAL410	0.07 (1.9)
9	Test plug	Red	—	50	AB1AT1	0.06 (1.7)
10	Terminal cover		4	10	AB1AACS1JA	0.014 (0.4)
11	Marking accessories		See pages 5/2 and 5/3.			



Terminal Blocks, Type AB1

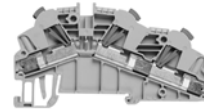
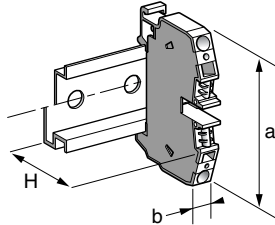
Insulation displacement technology

Passthrough

Clip-on mounting on 35 mm $\frac{1}{2}$ rails

Nominal wire size

2.5 mm²



AB1AA235U3**

Approximate dimensions, in. (mm)

1	Length (a)	3.63 (92.1)
	Width (b)	0.24 (6)
	Height (H) $\frac{1}{2}$ rail	2.26 (57.5)
	with $\frac{1}{2}$ rail	1.97 (50)

Wire size, mm²

Stranded without cable end	1–2.5
Stranded with cable end	—
Solid	1–2.5

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–24 A
UL File E164359 CCN XCFR2	18–14 AWG Cu, 600 V, 10 A
CSA File 702070 Class 6228 01	16–14 AWG Cu, 600 V, 20 A
ATEX Exe II II 2 GD	2.5 mm ² , 750 V, 24 A, KEMA 02 ATEX 2113 U

Certifications

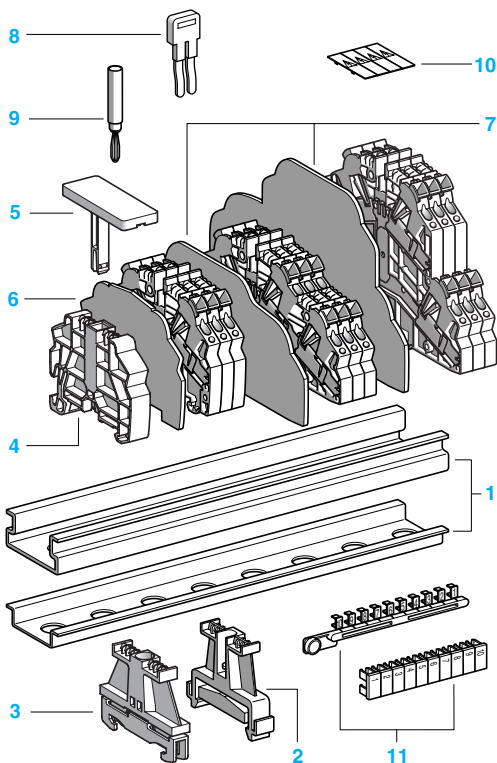
See the table on 1/13.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	3	50	AB1AA235U3GR	0.69 (19.5)
Blue	3	50	AB1AA235U3BL	0.69 (19.5)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{2}$ or $\frac{1}{4}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{2}$ or $\frac{1}{4}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{1}{2}$ or $\frac{1}{4}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Gray	—	10	AB1AAAC123GR	0.20 (5.7)
	thickness	Blue	—	10	AB1AAAC123BL	0.20 (5.7)
	0.06 in. (1.5 mm)					
7	Partition plate	Gray	—	10	AB1AAAS123GR	0.25 (7.1)
	thickness	Blue	—	10	AB1AAAS123BL	0.25 (7.1)
	0.06 in. (1.5 mm)					
8	Insulated jumper	2-pole	—	10	AB1RRAL42	0.06 (1.6)
		3-pole	—	10	AB1RRAL43	0.08 (2.4)
		4-pole	—	10	AB1RRAL44	0.11 (3.2)
		5-pole	—	10	AB1RRAL45	0.14 (4.0)
		10-pole	—	20	AB1RRAL410	0.28 (8.0)
9	Test plug	Red	—	50	AB1AT1	0.06 (1.7)
10	Terminal cover		4	10	AB1AACS1JA	0.014 (0.4)
11	Marking accessories		See pages 5/2 and 5/3.			



Terminal Blocks, Type AB1

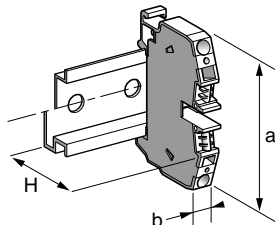
Insulation displacement technology

Passthrough

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

2.5 mm²



AB1AA235U4**

Approximate dimensions, in. (mm)

1	Length (a)	4.71 (119.7)
	Width (b)	0.24 (6)
	Height (H) $\frac{25}{8}$ rail	3.13 (79.5)
	with $\frac{25}{8}$ rail	2.83 (72)

Wire size, mm²

Stranded without cable end	1–2.5
Stranded with cable end	—
Solid	1–2.5

Nominal electrical values

IEC/EN 60947-7-1	500 V / 6 kV / 3–24 A
UL File E164359 CCN XCFR2	18–14 AWG Cu, 600 V, 10 A
CSA File 702070 Class 6228 01	16–14 AWG Cu, 600 V, 20 A
ATEX Exe II II 2 GD	2.5 mm ² , 550 V, 24 A, KEMA 02 ATEX 2113 U

Certifications

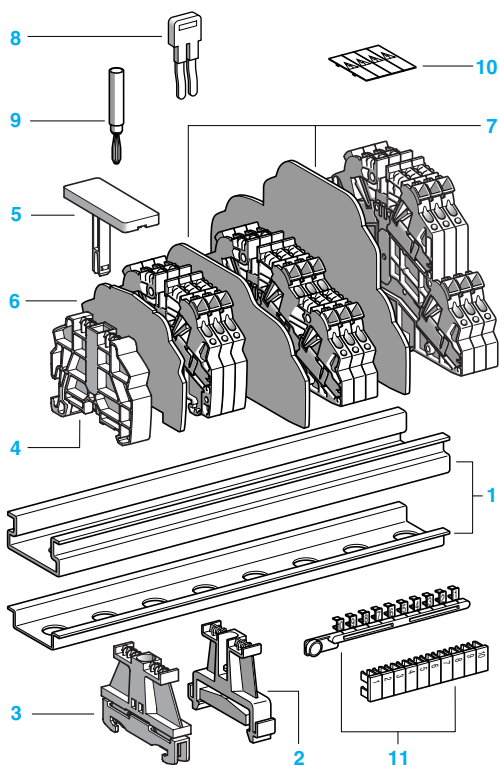
See the table on 1/13.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	4	50	AB1AA235U4GR	1.20 (34.1)
Blue	4	50	AB1AA235U4BL	1.20 (34.1)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Gray	—	10	AB1AAAC124GR	0.36 (10.3)
	thickness	Blue	—	10	AB1AAAC124BL	0.36 (10.3)
		0.06 in. (1.5 mm)				
7	Partition plate	Gray	—	10	AB1AAAS124GR	0.41 (11.5)
	thickness	Blue	—	10	AB1AAAS124BL	0.41 (11.5)
		0.06 in. (1.5 mm)				
8	Insulated jumper	2-pole	—	10	AB1RRAL42	0.06 (1.6)
		3-pole	—	10	AB1RRAL43	0.08 (2.4)
		4-pole	—	10	AB1RRAL44	0.11 (3.2)
		5-pole	—	10	AB1RRAL45	0.14 (4.0)
		10-pole	—	20	AB1RRAL410	0.28 (8.0)
9	Test plug	Red	—	50	AB1AT1	0.06 (1.7)
10	Terminal cover		4	10	AB1AACS1JA	0.014 (0.4)
11	Marking accessories		See pages 5/2 and 5/3.			



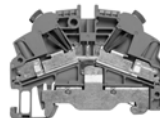
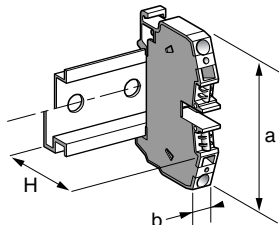
Terminal Blocks, Type AB1

Insulation displacement technology
Grounding type

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

1 mm²



AB1AATP135U2**

Approximate dimensions, in. (mm)

1	Length (a)	2.64 (67)
	Width (b)	0.20 (5)
	Height (H) $\frac{25}{8}$ rail	2.26 (57.5)
	with $\frac{25}{8}$ rail	1.97 (50)

Wire size, mm²

Stranded without cable end	0.2–1
Stranded with cable end	—
Solid	0.2–1

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–13.5 A
UL File E164359 CCN XCFR2	30–18 AWG Cu, 600 V, 13 A
CSA File 702070 Class 6228 01	24–18 AWG Cu, 600 V, 120 A
ATEX - EEx eII II 2 GD	1 mm ² , KEMA 02 ATEX 2113 U

Certifications

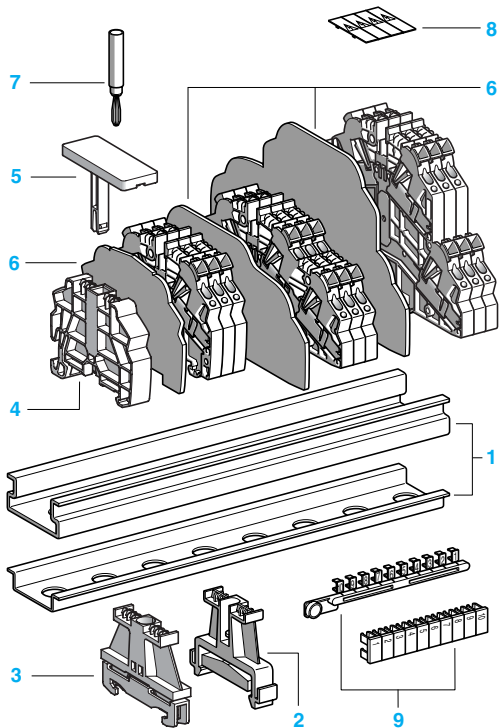
See the table on page 1/13.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Green/yellow	2	100	AB1AATP135U2	0.64 (18.1)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Green, thickness 0.06 in. (1.5 mm)	—	10	AB1AAAC122VE	0.11 (3.2)
7	Test plug	Red	—	50	AB1AT1	0.06 (1.7)
8	Terminal cover		4	10	AB1AACS1JA	0.014 (0.4)
9	Marking accessories		See pages 5/2 and 5/3.			



Terminal Blocks, Type AB1

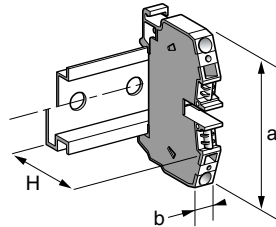
Insulation displacement technology

Grounding type

Clip-on mounting on 35 mm ± 5 rails

Nominal wire size

1 mm²



AB1AATP135U3

Approximate dimensions, in. (mm)

1	Length (a)	3.63 (92.1)
	Width (b)	0.20 (5)
	Height (H) ± 5 rail with ± 5 rail	2.26 (57.5)
		1.97 (50)

Wire size, mm²

Stranded without cable end	0.2–1
Stranded with cable end	—
Solid	0.2–1

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–13.5 A
UL File E164359 CCN XCFR2	30–18 AWG Cu, 600 V, 10 A
CSA File 702070 Class 6228 01	24–18 AWG Cu, 120 A
ATEX - EEx ell II 2 GD	1 mm ² , KEMA 02 ATEX 2113 U

Certifications

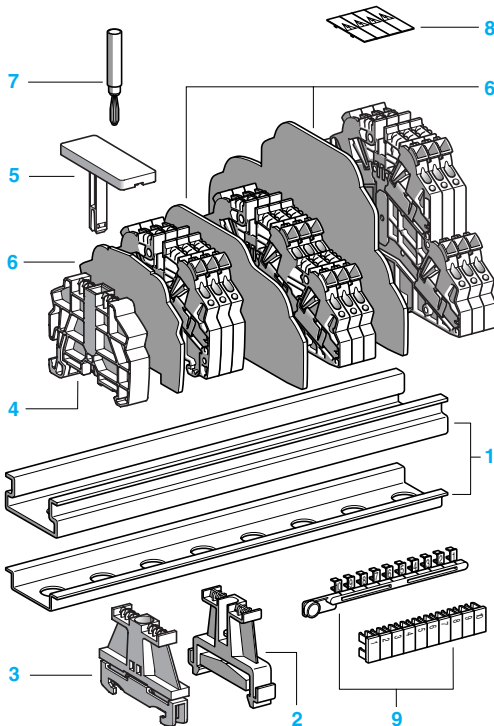
See the table on page 1/13.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Green/yellow	3	50	AB1AATP135U3	0.82 (23.2)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on ± 5 or ± 5	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Green, thickness 0.06 in. (1.5 mm)	—	10	AB1AAAC123VE	0.20 (5.7)
7	Test plug	Red	—	50	AB1AT1	0.06 (1.7)
8	Terminal cover		4	10	AB1AACS1JA	0.014 (0.4)
9	Marking accessories		See pages 5/2 and 5/3.			



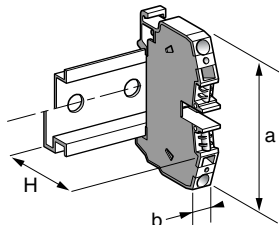
Terminal Blocks, Type AB1

Insulation displacement technology
Grounding type

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

1 mm²



AB1AATP135U4

Approximate dimensions, in. (mm)

1	Length (a)	4.71 (119.7)
	Width (b)	0.20 (5)
	Height (H) $\frac{25}{8}$ rail	3.13 (79.5)
	with $\frac{25}{8}$ rail	2.83 (72)

Wire size, mm²

Stranded without cable end	0.2–1
Stranded with cable end	—
Solid	0.2–1

Nominal electrical values

IEC/EN 60947-7-1	500 V / 6 kV / 3–13.5 A
UL File E164359 CCN XCFR2	30–18 AWG Cu, 600 V, 10 A
CSA File 702070 Class 6228 01	24–18 AWG Cu, 120 A
ATEX - EEx eII II 2 GD	1 mm ² , KEMA 02 ATEX 2113 U

Certifications

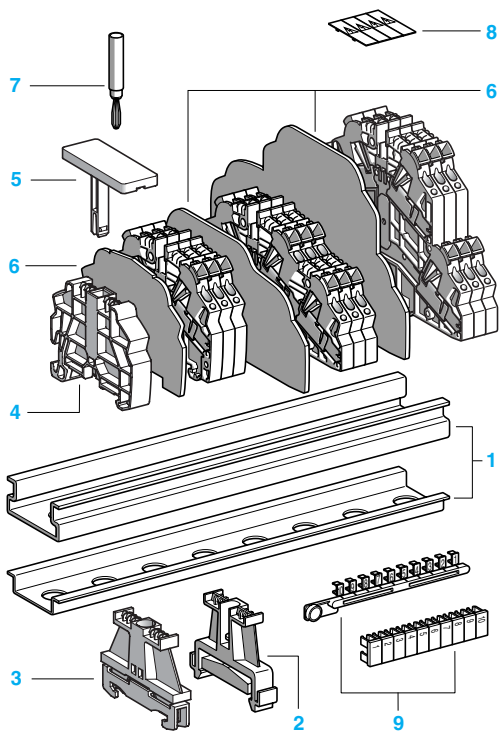
See the table on page 1/13.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Green/yellow	4	50	AB1AATP135U4	1.28 (36.2)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Green, thickness 0.06 in. (1.5 mm)	—	10	AB1AAAC124VE	0.36 (10.3)
7	Test plug	Red	—	50	AB1AT1	0.06 (1.7)
8	Terminal cover		4	10	AB1AACS1JA	0.014 (0.4)
9	Marking accessories		See pages 5/2 and 5/3.			



Terminal Blocks, Type AB1

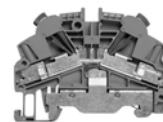
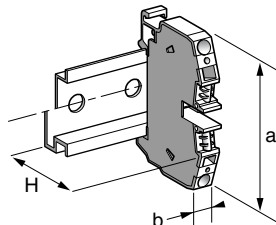
Insulation displacement technology

Grounding type

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

2.5 mm²



AB1AATP235U2

Approximate dimensions, in. (mm)

1	Length (a)	2.64 (67)
	Width (b)	0.24 (6)
	Height (H) $\frac{25}{8}$ rail	2.26 (57.5)
	with $\frac{25}{8}$ rail	1.97 (50)

Wire size, mm²

Stranded without cable end	1–2.5
Stranded with cable end	—
Solid	1–2.5

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–24 A
UL File E164359 CCN XCFR2	18–14 AWG Cu, 600 V, 13 A
CSA File 702070 Class 6228 01	16–14 AWG Cu, 300 A
ATEX - EEx ell II 2 GD	2.5 mm ² , KEMA 02 ATEX 2113 U

Certifications

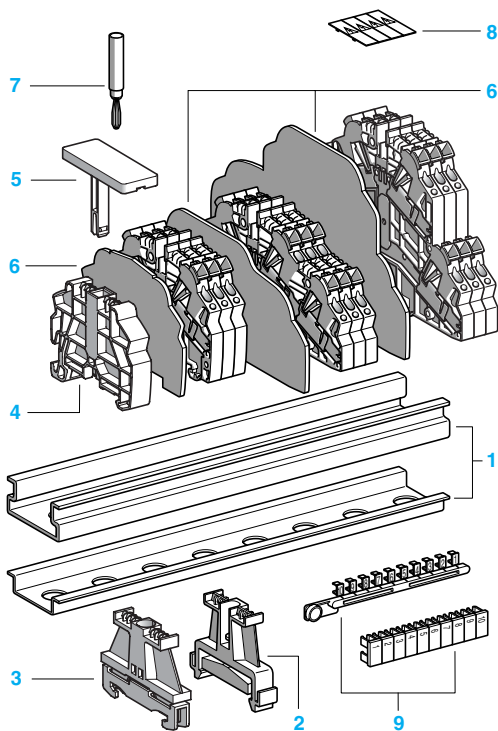
See the table on page 1/13.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Green/Yellow	2	100	AB1AATP235U2	0.71 (20.0)

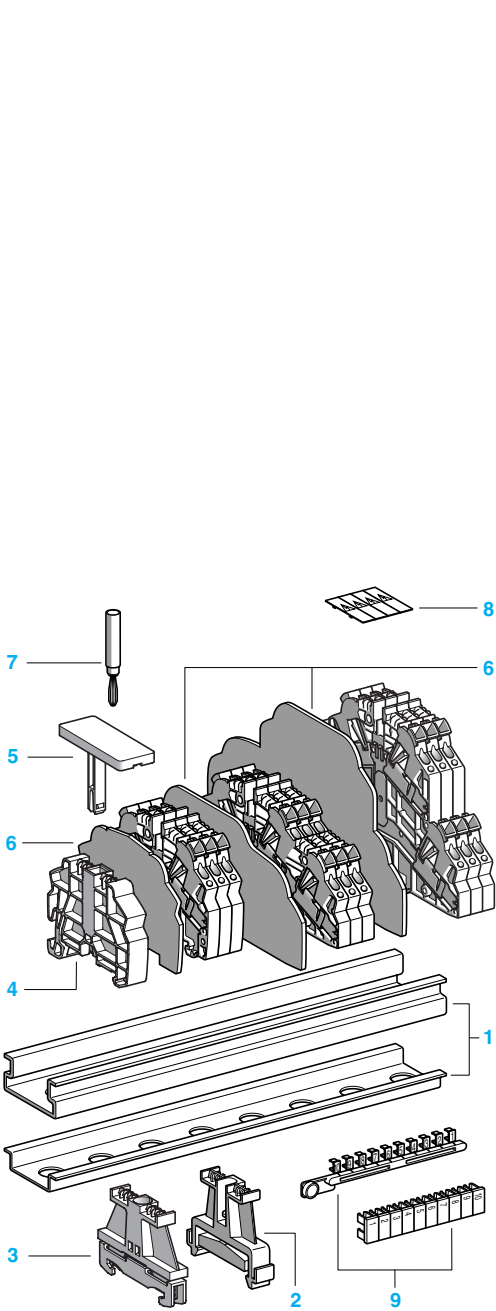
Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Green, thickness 0.06 in. (1.5 mm)	—	10	AB1AAAC122VE	0.16 (4.4)
7	Test plug	Red	—	50	AB1AT1	0.06 (1.7)
8	Terminal cover		4	10	AB1AACS1JA	0.014 (0.4)
9	Marking accessories		See pages 5/2 and 5/3.			

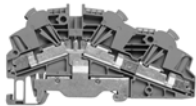
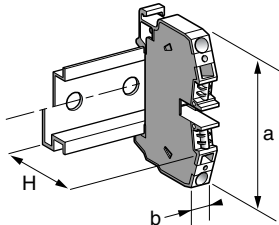


Terminal Blocks, Type AB1

Insulation displacement technology
Grounding type



Clip-on mounting on 35 mm $\frac{25}{8}$ rails	
Nominal wire size	2.5 mm ²



Approximate dimensions, in. (mm)		AB1AATP235U3	
1	Length (a)	3.63 (92.1)	
	Width (b)	0.24 (6)	
	Height (H) $\frac{25}{8}$ rail	2.26 (57.5)	
	with $\frac{1}{2}$ rail	1.97 (50)	
Wire size, mm ²			
Stranded without cable end		1–2.5	
Stranded with cable end		—	
Solid		1–2.5	
Nominal electrical values			
IEC/EN 60947-7-1		800 V / 8 kV / 3–24 A	
UL File E164359 CCN XCFR2		18–14 AWG Cu, 600V, 10 A	
CSA File 702070 Class 6228 01		16–14 AWG Cu, 300 A	
ATEX - EEx ell II 2 GD		2.5 mm ² , KEMA 02 ATEX 2113 U	
Certifications		See the table on page 1/13.	

Terminal blocks		No. points	Sold in lots of	Catalog number	Weight oz (g)
Green/Yellow		3	50	AB1AATP235U3	0.87 (24.8)
Accessories					
Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{1}{2}$	—	100	AB1AB8P35	0.21 (5.9)
Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{1}{2}$	—	100	AB1AB8M35	0.52 (14.8)
Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{1}{2}$	—	100	AB1AB8R35	0.21 (5.9)
Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
End plate	Green, thickness 0.06 in. (1.5 mm)	—	10	AB1AAAC123VE	0.20 (5.7)
Test plug	Red	—	50	AB1AT1	0.06 (1.7)
Terminal cover		4	10	AB1AACS1JA	0.014 (0.4)
Marking accessories		See pages 5/2 and 5/3.			

Terminal Blocks, Type AB1

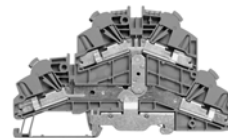
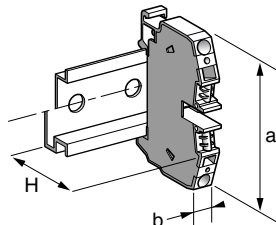
Insulation displacement technology

Grounding type

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

2.5 mm²



AB1AATP235U4

Approximate dimensions, in. (mm)

1	Length (a)	4.71 (119.7)
	Width (b)	0.24 (6)
	Height (H) $\frac{25}{8}$ rail	3.13 (79.5)
	with $\frac{25}{8}$ rail	2.83 (72)

Wire size, mm²

Stranded without cable end	1–2.5
Stranded with cable end	—
Solid	1–2.5

Nominal electrical values

IEC/EN 60947-7-1	500 V / 6 kV / 3–24 A
UL File E164359 CCN XCFR2	18–14 AWG Cu, 600 V, 10 A
CSA File 702070 Class 6228 01	16–14 AWG Cu, 300 A
ATEX - EEx ell II 2 GD	2.5 mm ² , KEMA 02 ATEX 2113 U

Certifications

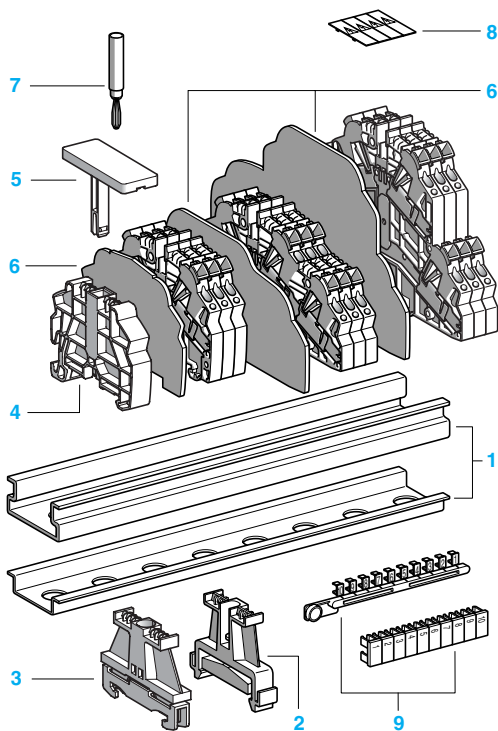
See the table on page 1/13.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Green/Yellow	4	50	AB1AATP235U4	1.40 (39.7)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Green, thickness 0.06 in. (1.5 mm)	—	10	AB1AAAC124VE	0.36 (10.3)
7	Test plug	Red	—	50	AB1AT1	0.06 (1.7)
8	Terminal cover		4	10	AB1AACS1JA	0.014 (0.4)
9	Marking accessories		See pages 5/2 and 5/3.			



Terminal Blocks, Type AB1

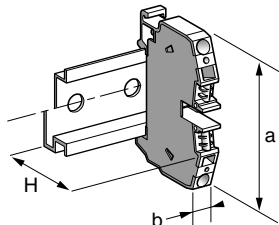
Insulation displacement technology

Blade disconnect type

Clip-on mounting on 35 mm $\frac{1}{4}$ rails

Nominal wire size

1 mm²



AB1AASC135U**

Approximate dimensions, in. (mm)

1	Length (a)	3.63 (92.1)
	Width (b)	0.24 (6)
	Height (H) $\frac{1}{4}$ rail	2.26 (57.5)
	with $\frac{1}{4}$ rail	1.97 (50)

Wire size, mm²

Stranded without cable end	0.2–1
Stranded with cable end	—
Solid	0.2–1

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–13.5 A
UL File E164359 CCN XCFR2	30–18 AWG Cu, 600 V, 10 A
CSA File 702070 Class 6228 01	24–18 AWG Cu, 300V, 7A

Certifications

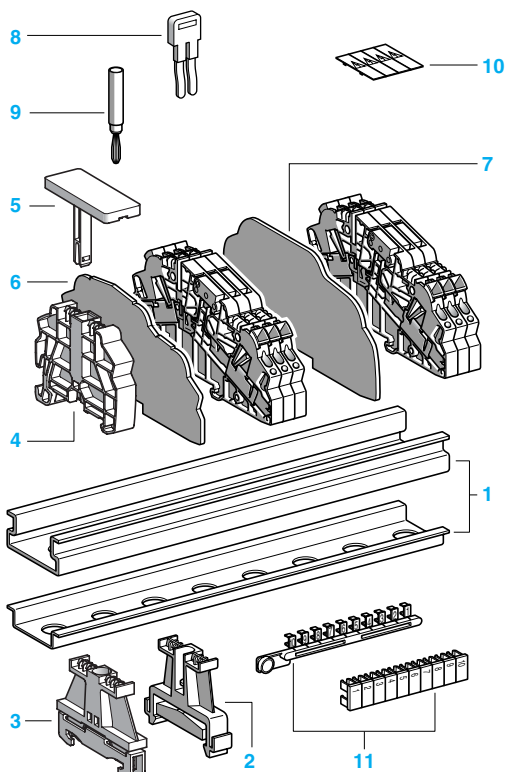
See the table on page 1/13.

Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2	50	AB1AASC135UGR	0.67 (19.1)
Blue	2	50	AB1AASC135UBL	0.67 (19.1)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Gray	—	10	AB1AAAC123GR	0.20 (5.7)
		Blue	—	10	AB1AAAC123BL	0.20 (5.7)
7	Partition plate	Gray	—	10	AB1AAAS123GR	0.25 (7.1)
		Blue	—	10	AB1AAAS123BL	0.25 (7.1)
8	Insulated jumper	2-pole	—	10	AB1RRAL42	0.06 (1.7)
		3-pole	—	10	AB1RRAL43	0.09 (2.5)
		4-pole	—	10	AB1RRAL44	0.12 (3.3)
		5-pole	—	10	AB1RRAL45	0.14 (4.1)
		10-pole	—	20	AB1RRAL410	0.29 (8.3)
9	Test plug	Red	—	50	AB1AT1	0.07 (1.9)
10	Terminal cover		4	10	AB1AACS1JA	0.014 (0.4)
11	Marking accessories		See pages 5/2 and 5/3.			



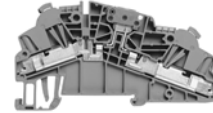
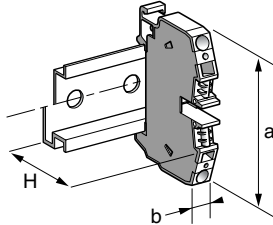
Terminal Blocks, Type AB1

Insulation displacement technology
Blade disconnect type

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

2.5 mm²



AB1AASC235U**

Approximate dimensions, in. (mm)

1	Length (a)	3.63 (92.1)
	Width (b)	0.24 (6)
	Height (H) $\frac{25}{8}$ rail	2.26 (57.5)
	with $\frac{25}{8}$ rail	1.97 (50)

Wire size, mm²

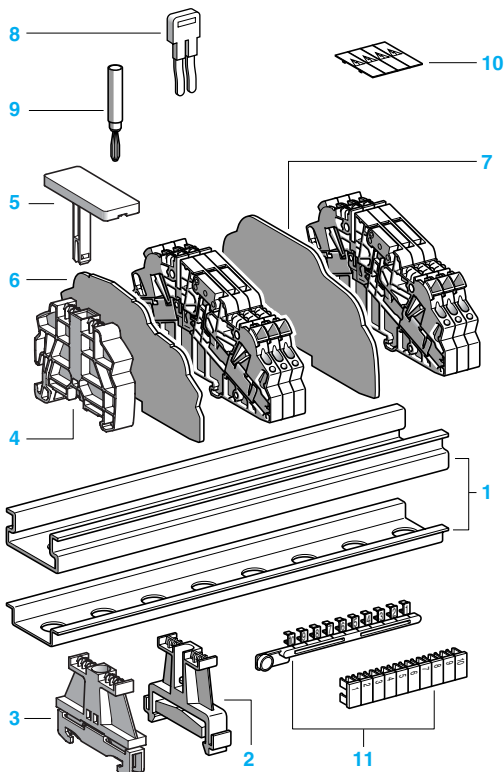
Stranded without cable end	1–2.5
Stranded with cable end	—
Solid	1–2.5

Nominal electrical values

IEC/EN 60947-7-1	800 V / 8 kV / 3–20 A
UL File E164359 CCN XCFR2	18–14 AWG Cu, 600 V, 10 A
CSA File 702070 Class 6228 01	16–14 AWG Cu, 300 V, 17 A

Certifications

See the table on page 1/13.



Terminal blocks

	No. points	Sold in lots of	Catalog number	Weight oz (g)
Gray	2	50	AB1AASC235UGR	0.69 (19.7)
Blue	2	50	AB1AASC235UBL	0.69 (19.7)

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{16}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1AAAC123GR	0.20 (5.7)
		Blue	—	10	AB1AAAC123BL	0.20 (5.7)
7	Partition plate thickness 0.06 in. (1.5 mm)	Gray	—	10	AB1AAAS123GR	0.25 (7.1)
		Blue	—	10	AB1AAAS123BL	0.25 (7.1)
		2-pole	—	10	AB1RRAL42	0.06 (1.6)
		3-pole	—	10	AB1RRAL43	0.08 (2.4)
		4-pole	—	10	AB1RRAL44	0.11 (3.2)
8	Insulated jumper	5-pole	—	10	AB1RRAL45	0.14 (4.0)
		10-pole	—	20	AB1RRAL410	0.28 (8.0)
9	Test plug	Red	—	50	AB1AT1	0.06 (1.7)
10	Terminal cover		4	10	AB1AACS1JA	0.014 (0.4)
11	Marking accessories		See pages 5/2 and 5/3.			

Terminal Blocks, Type AB1

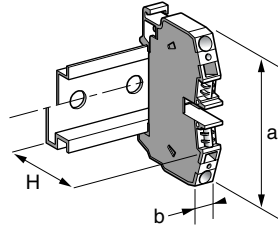
Insulation displacement technology

Disconnect (removable carrier) for diode or cylindrical fuse

Clip-on mounting on 35 mm $\frac{1}{4}$ rails

Nominal wire size

1 mm²



AB1AASF135UGR

Approximate dimensions, in. (mm)	Length (a)	3.63 (92.1)
	Width (b)	0.24 (6)
	Height (H) $\frac{1}{4}$ rail with $\frac{1}{4}$ rail	2.26 (57.5) + 0.75 (19) for carrier 1.97 (50) + 0.75 (19) for carrier
Wire size, mm ²	Stranded w/o cable end	0.2–1
	Stranded + cable end	—
	Solid	0.2–1

Nominal electrical values (1), (2)

IEC/EN 60947-7-1	800 V / 8 kV / 3–13.5 A
UL File E164359 CCN XCFR2	30–18 AWG Cu, 600 V, 6.3 A
CSA File 702070 Class 6228 01	24–18 AWG Cu, 600V, 10 A

Certifications

See the table on page 1/13.

Terminal blocks (3)

		No. points	Sold in lots of	Catalog number	Weight oz (g)
10 Removable carrier	Gray	2	50	AB1AASF135UGR	0.62 (17.6)
	For diode or resistor	—	100	AB1SV1	0.16 (4.5)
	With diode 1N4007.1	—	100	AB1SV2	0.17 (4.7)
Removable carrier (for 5x20 fuse)	With fuse only	—	100	AB1SF520	0.16 (4.4)
	With 24 V red LED	—	100	AB1SF520B	0.17 (4.7)
	With 220 V red LED	—	100	AB1SF520M	0.17 (4.7)
Carrier, removable & pivoting	For 5 x 20 fuse	—	10	AB1SF520D	0.21 (6.0)
	For 6.3 x 32 fuse	—	10	AB1SF6332D	0.29 (8.2)

Accessories

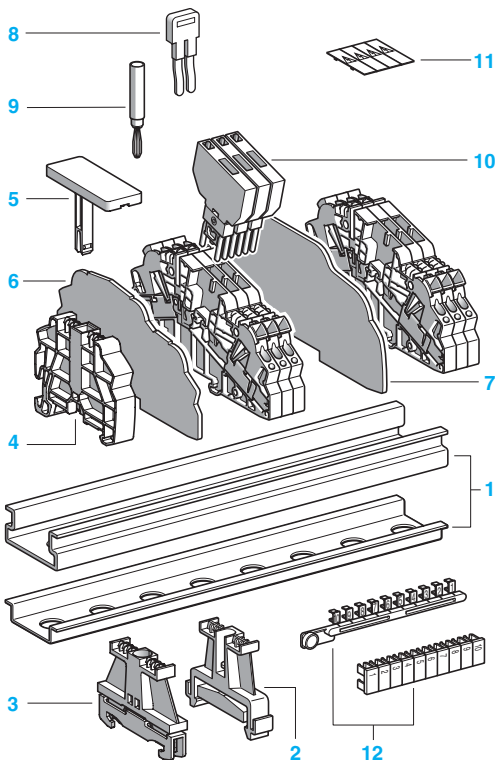
2 End clamp	Plastic	—	100	AB1AB8P35	0.21 (5.9)
3 with screw (4)	Metal	—	100	AB1AB8M35	0.52 (14.8)
4 Clip-on plastic end clamp (4)		—	100	AB1AB8R35	0.21 (5.9)
5 Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6 End plate	Gray	—	10	AB1AAAC123GR	0.20 (5.7)
	thickness 0.06 in. (1.5 mm) Blue	—	10	AB1AAAC123BL	0.20 (5.7)
7 Partition plate	Gray	—	10	AB1AAAS123GR	0.25 (7.1)
	thickness 0.06 in. (1.5 mm) Blue	—	10	AB1AAAS123BL	0.25 (7.1)
8 Insulated jumper (5)		—	—	AB1RRAL4*	—
9 Test plug	Red	—	50	AB1AT1	0.07 (1.9)
11 Terminal cover		4	10	AB1AACS1JA	0.014 (0.4)
12 Marking accessories		See pages 5/2 and 5/3.			

Carrier characteristics

Nominal voltage (Power loss 1.5 W)	Position of terminal block	
	end	juxtaposed
250 V	6.3 A	4 A

Blown fuse indicator characteristics

Catalog number	Nominal voltage	Current consumption
AB1SF520B	24 V	10.3 mA
AB1SF520M	220–250 V	0.3 mA



(1) The voltage/current carrying capacity is determined by the component (fuse and/or diode) used.

(2) Repetitive peak reverse voltage for diodes is 1000 V.

(3) Fuses and diodes not included, except for AB1SV2.

(4) Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$ rails.

(5) Replace the * symbol with the number of poles (2, 3, 4, 5, or 10), for example, AB1RRAL45 (5-pole).

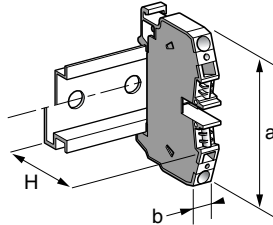
Terminal Blocks, Type AB1

Insulation displacement technology
Disconnect (removable carrier) for diode or
cylindrical fuse

Clip-on mounting on 35 mm $\frac{1}{4}$ rails

Nominal wire size

2.5 mm²



AB1AASF235UGR

1	Approximate dimensions, in. (mm)	Length (a)	3.63 (92.1)
		Width (b)	0.24 (6)
		Height (H) $\frac{1}{4}$ rail	2.26 (57.5) + 0.75 (19) for carrier
		with $\frac{1}{4}$ rail	1.97 (50) + 0.75 (19) for carrier
	Wire size, mm ²	Stranded w/o cable end	1–2.5
		Stranded + cable end	—
		Solid	1–2.5

Nominal electrical values (1), (2)		
IEC/EN 60947-7-1	800 V / 8 kV / 3–20 A	
UL File E164359 CCN XCFR2	18–14 AWG Cu, 600 V, 6.3 A	
CSA File 702070 Class 6228 01	16–14 AWG Cu, 600 V, 10 A	

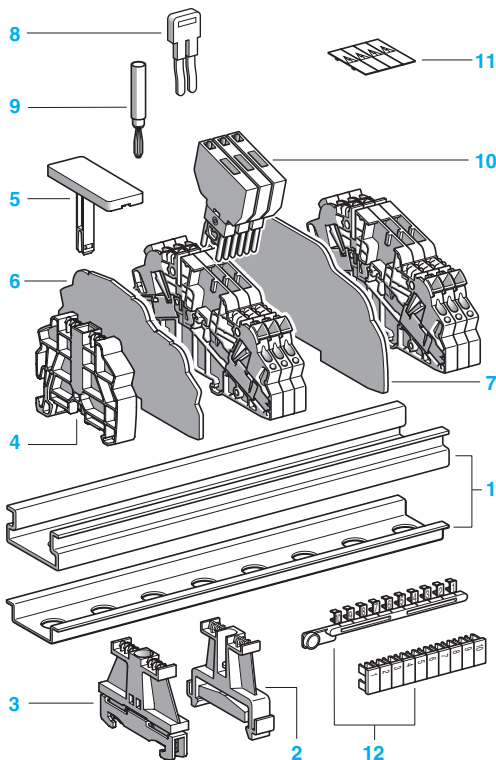
Certifications See the table on page 1/13.

Terminal blocks (3)

		No. points	Sold in lots of	Catalog number	Weight oz (g)
10	Gray	2	50	AB1AASF235UGR	0.61 (17.2)
	Removable carrier	—	100	AB1SV1	0.16 (4.5)
	For diode or resistor	—	100	AB1SV2	0.17 (4.7)
	With diode 1N4007.1	—	100	AB1SF520	0.16 (4.4)
Removable carrier (for 5x20 fuse)	With fuse only	—	100	AB1SF520B	0.17 (4.7)
	With 24 V red LED	—	100	AB1SF520M	0.17 (4.7)
	With 220 V red LED	—	100	AB1SF520D	0.21 (6.0)
Carrier, removable & pivoting	For 5 x 20 fuse	—	10	AB1SF6332D	0.29 (8.2)
	For 6.3 x 32 fuse	—	10		

Accessories

2	End clamp	Plastic	—	100	AB1AB8P35	0.21 (5.9)
3	with screw (4)	Metal	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp(4)		—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Gray	—	10	AB1AAAC123GR	0.20 (5.7)
		Blue	—	10	AB1AAAC123BL	0.20 (5.7)
7	Partition plate	Gray	—	10	AB1AAAS123GR	0.25 (7.1)
		Blue	—	10	AB1AAAS123BL	0.25 (7.1)
8	Insulated jumper (5)		—	—	AB1RRAL4•	—
9	Test plug	Red	—	50	AB1AT1	0.07 (1.9)
11	Terminal cover		4	10	AB1AACS1JA	0.014 (0.4)
12	Marking accessories		See pages 5/2 and 5/3.			



(1) The voltage/current carrying capacity is determined by the component (fuse and/or diode) used.

(2) Repetitive peak reverse voltage for diodes is 1000 V.

(3) Fuses and diodes not included, except for AB1SV2.

(4) Width 0.3 in. (8 mm) on $\frac{1}{4}$ or $\frac{1}{2}$ rails.

(5) Replace the • symbol with the number of poles (2, 3, 4, 5, or 10), for example, AB1RRAL45 (5-pole).

Terminal Blocks, Type AB1

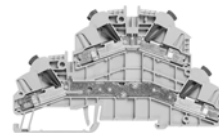
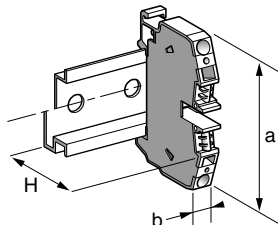
Insulation displacement technology

Double deck

Clip-on mounting on 35 mm $\frac{25}{8}$ rails

Nominal wire size

1 mm²



AB1AAET135UGR

Approximate dimensions, in. (mm)

1	Length (a)	4.71 (119.7)
	Width (b)	0.20 (5)
	Height (H) $\frac{25}{8}$ rail	3.13 (79.5)
	with $\frac{25}{8}$ rail	2.83 (72)

Wire size, mm²

Stranded without cable end	0.2–1
Stranded with cable end	—
Solid	0.2–1

Nominal electrical values (1)

IEC/EN 60947-7-1	500 V / 6 kV / 3–13.5 A
UL File E164359 CCN XCFR2	30–18 AWG Cu, 600 V, 13 A
CSA File 702070 Class 6228 01	24–18 AWG Cu, 600 V, 7 A
ATEX Exe II $\frac{25}{8}$ II 2 GD	1 mm ² , 550 / 420 V, 13.5 A, KEMA 02 ATEX 2113 U

Certifications

See the table on page 1/13.

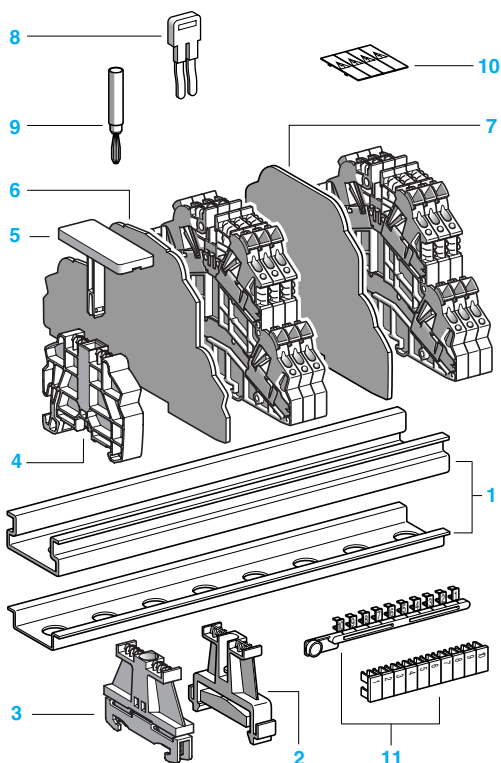
Terminal blocks

		No. points	Sold in lots of	Catalog number	Weight oz (g)
2 I, 2 O	Gray	2/2	50	AB1AAET135UGR	1.01 (28.6)
	Red	—	—	—	—
	Orange	—	—	—	—
24 V red LED	Red	—	—	—	—
	Orange	—	—	—	—

Accessories

2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{25}{8}$ or $\frac{25}{8}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Gray, thickness 0.06 in. (1.5 mm)	—	10	AB1AAAC124GR	0.36 (10.3)
7	Partition plate	Gray, thickness 0.06 in. (1.5 mm)	—	10	AB1AAAS124GR	0.41 (11.5)
8	Insulated jumper	2-pole	—	10	AB1RRAL22	0.04 (1.1)
		3-pole	—	10	AB1RRAL23	0.06 (1.6)
		4-pole	—	10	AB1RRAL24	0.07 (2.1)
		5-pole	—	10	AB1RRAL25	0.10 (2.7)
		10-pole	—	20	AB1RRAL210	0.19 (5.4)
9	Test plug	Red	—	50	AB1AT1	0.06 (1.7)
10	Terminal cover		4	10	AB1AACS1JA	0.014 (0.4)
11	Marking accessories		See pages 5/2 and 5/3.			

(1) The voltage/current carrying capacity is determined by the component (fuse and/or diode) used.



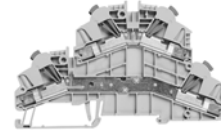
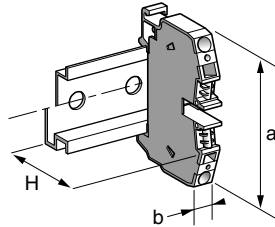
Terminal Blocks, Type AB1

Insulation displacement technology
Double deck

Clip-on mounting on 35 mm $\frac{2.5}{1}$ rails

Nominal wire size

2.5 mm²



1	Approximate dimensions, in. (mm)	Length (a)	4.71 (119.7)
		Width (b)	0.24 (6)
		Height (H)  rail	3.13 (79.5)
		with  rail	2.83 (72)
Wire size, mm²	Stranded without cable end	1–2.5	
	Stranded with cable end	—	
	Solid	1–2.5	
Nominal electrical values (1)	IEC/EN 60947-7-1	500 V / 6 kV / 3–24 A	
	UL File E164359	18–14 AWG Cu, 600 V, 22 A	
	CCN XCFR2		
	CSA File 702070	16–14 AWG Cu, 600 V, 20 A	
	Class 6228 01		
	ATEX Exe II  II 2 GD	2.5 mm ² , 550 / 420 V, 21.5 A, KEMA 02 ATEX 2113 U	
Certifications		See the table on page 1/13.	

Terminal blocks

		No. points	Sold in lots of	Catalog number	Weight oz (g)
2 I, 2 O	Gray	2/2	50	AB1AAET235UGR	1.15 (32.5)
	Red	2/2	50	AB1AAET235URO	1.15 (32.5)
	Orange	2/2	50	AB1AAET235UGE	1.15 (32.5)
24 V red LED	Red	4	50	AB1AAET235UBRO	1.11 (31.5)
	Orange	4	50	AB1AAET235UBGE	1.11 (31.5)

Accessories

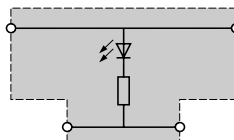
2	Plastic end clamp with screw	Width 0.3 in. (8 mm) on $\frac{2.5}{1}$ or $\frac{1}{1}$	—	100	AB1AB8P35	0.21 (5.9)
3	Metal end clamp with screw	Width 0.3 in. (8 mm) on $\frac{2.5}{1}$ or $\frac{1}{1}$	—	100	AB1AB8M35	0.52 (14.8)
4	Clip-on plastic end clamp	Width 0.3 in. (8 mm) on $\frac{2.5}{1}$ or $\frac{1}{1}$	—	100	AB1AB8R35	0.21 (5.9)
5	Marker tag holder for clip-on plastic end clamp		—	10	AB1SB4	0.11 (3.1)
6	End plate	Gray, thickness 0.06 in. (1.5 mm)	—	10	AB1AAAC124GR	0.36 (10.3)
7	Partition plate	Gray, thickness 0.06 in. (1.5 mm)	—	10	AB1AAAS124GR	0.41 (11.5)
8	Insulated jumper	2-pole	—	10	AB1RRAL42	0.06 (1.6)
		3-pole	—	10	AB1RRAL43	0.08 (2.4)
		4-pole	—	10	AB1RRAL44	0.11 (3.2)
		5-pole	—	10	AB1RRAL45	0.14 (4.0)
		10-pole	—	20	AB1RRAL410	0.28 (8.0)
9	Test plug	Red	—	50	AB1AT1	0.06 (1.7)
10	Terminal cover		4	10	AB1AACS1JA	0.014 (0.4)
11	Marking accessories		See pages 5/2 and 5/3.			

(1) The voltage/current carrying capacity is determined by the component (fuse and/or diode) used.

Wiring diagrams

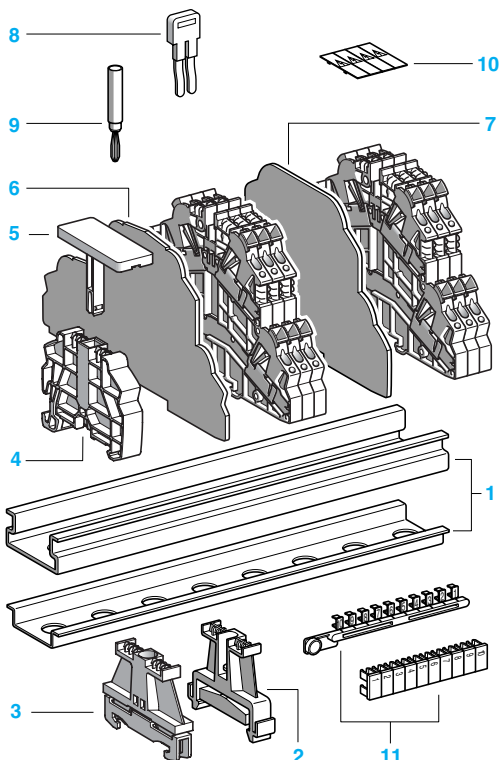
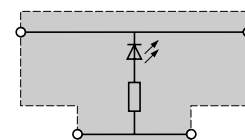
AB1AAET235UBRO

Resistance = 2.2 k Ω , 0.35 W, 24 Vdc)



AB1AAET235UBGE

Resistance = 2.2 k Ω , 0.35 W, 24 Vdc)



5 - Terminal Blocks, Type AB1
Marking and Mounting Accessories

	<i>Page</i>
Marking accessories for insulated cable ends . . .	5/2
Mounting track and end clamps	5/4

Applications

These marking accessories are for terminal block types AB1 or DB6, but they can also be used with other Telemecanique brand products such as thermal-magnetic protectors, modular contactors, and model D or F contactors.

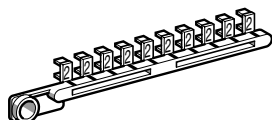
Strips of clip-in markers

10 identical numbers or symbols

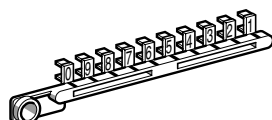
10 numbers 0 to 9

10 identical capital letters

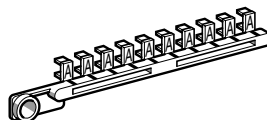
AB1R••



AB1R11



AB1G•



Sold in lots of
25 identical strips

Unit weight: 2 g

Marking	Catalog number of 10-number tag strip
Blank	AB1RV
1	AB1R1
2	AB1R2
3	AB1R3
4	AB1R4
5	AB1R5
6	AB1R6
7	AB1R7
8	AB1R8
9	AB1R9
0	AB1R0
+	AB1R12
–	AB1R13

Sold in lots of
25 identical strips

Unit weight: 2 g

Marking	Catalog number of 10-number tag strip
0...9	AB1R11

Sold in lots of
25 identical strips

Unit weight: 2 g

Marking	Catalog number of 10-letter tag strip	Marking	Catalog number of 10-letter tag strip
A	AB1GA	N	AB1GN
B	AB1GB	O	AB1GO
C	AB1GC	P	AB1GP
D	AB1GD	Q	AB1GQ
E	AB1GE	R	AB1GR
F	AB1GF	S	AB1GS
G	AB1GG	T	AB1GT
H	AB1GH	U	AB1GU
I	AB1GI	V	AB1GV
J	AB1GJ	W	AB1GW
K	AB1GK	X	AB1GX
L	AB1GL	Y	AB1GY
M	AB1GM	Z	AB1GZ

Note:

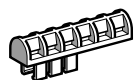
■ **Dimensions:** The dimensions of the clip-in markers on the strips are 0.18 x 0.11 in. (4.5 x 2.7 mm).

■ **Mounting options:** Each side of the terminal block can be fitted with 4 markers (each 1 number or letter) or, alternatively, 6 AB1R or AB1G markers (see above), by using holder AB1SR6.

Marking components

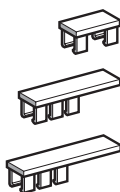
Holder for 6 markers

AB1SR6



Blank clip-on marker

AB1SA•



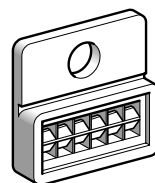
Clip-on marker with
ground symbol ↓
(black on white background)

AB1RT



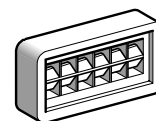
Marker holder for
screw fixing to
any type of support

AR1SB2



Adhesive marker holder
for fixing to any type
of support

AR1SB3



Sold in lots of 200

Unit weight: 0.6 g

Sold in lots of 500

Unit weight:
0.3 g (AB1SA1, AB1SA2)
0.4 g (AB1SA3)

Sold in lots of 500

Unit weight: 0.3 g

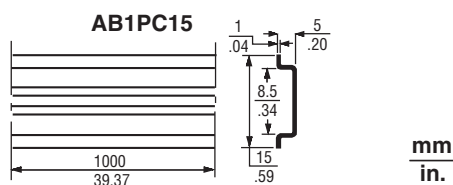
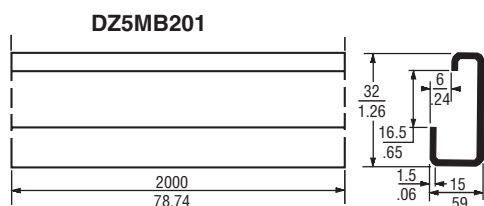
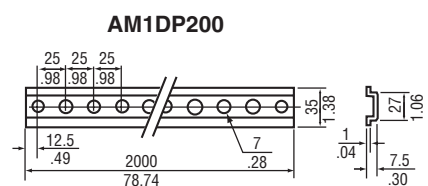
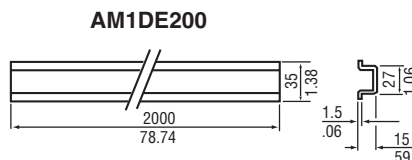
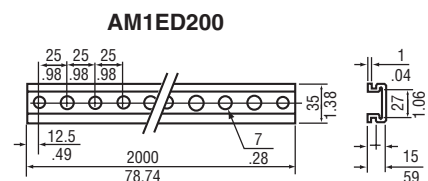
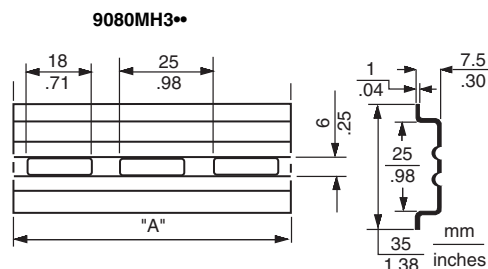
Sold in lots of 100

Unit weight: 1 g

Sold in lots of 50

Unit weight: 1 g

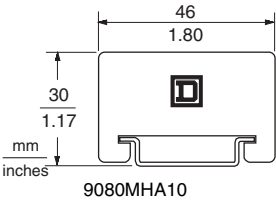
Holder for up to 6 markers	Size in. (mm)	Catalog number	Size in. (mm)	Catalog number	Size in. (mm)	Catalog number	Size in. (mm)	Catalog number
AB1R or AB1G	0.18 x 0.33 (4.5 x 8.3)	AB1SA1	0.18 x 0.33 (4.5 x 8.3)	AB1RT	0.79 x 0.79 (20 x 20)	AR1SB2	0.79 x 0.39 20 x 10	AR1SB3
	0.18 x 0.55 (4.5 x 14)	AB1SA2	—	—	—	—	—	—
	0.18 x 0.75 (4.5 x 19)	AB1SA3	—	—	—	—	—	—



Mounting Track

Description		Length in. (m)	Catalog Number	Std. ● Pack	Weight lb (kg)
Class 9080 Type MH Symmetrical rail 1.38 x 0.30 in. (35 x 7.5 mm) in compliance with EN50022 standard (DIN 46277-3)	Galvanized steel (no mounting holes)	3 (0.08) 4 (0.10) 5 (0.13) 6 (0.15) 7 (0.18) 8 (0.20) 9 (0.23) 10 (0.25) 11 (0.28) 12 (0.30) 13 (0.33) 14 (0.36) 15 (0.38) 16 (0.41) 17 (0.43) 18 (0.46) 19.68 (0.50) 39.37 (1) 78.74 (2)	9080MH203 9080MH204 9080MH205 9080MH206 9080MH207 9080MH208 9080MH209 9080MH210 9080MH211 9080MH212 9080MH213 9080MH214 9080MH215 9080MH216 9080MH217 9080MH218 9080MH220 9080MH239 9080MH279	10	—
	Galvanized steel, prepunched	3 (0.08) 4 (0.10) 5 (0.13) 6 (0.15) 7 (0.18) 8 (0.20) 9 (0.23) 10 (0.25) 11 (0.28) 12 (0.30) 13 (0.33) 14 (0.36) 15 (0.38) 16 (0.41) 17 (0.43) 18 (0.46) 19.68 (0.50) 39.37 (1) 78.74 (2)	9080MH303 9080MH304 9080MH305 9080MH306 9080MH307 9080MH308 9080MH309 9080MH310 9080MH311 9080MH312 9080MH313 9080MH314 9080MH315 9080MH316 9080MH317 9080MH318 9080MH320 9080MH339 9080MH379	10	—
High rise track	Aluminum	39.37 (1)	9080MH439	2	—
DIN3  15 mm depth, 1 mm steel, zinc chromated		78.74 (2)	AM1ED200	10	2.9 (1.31)
 15 mm depth, 1.5 mm steel, zinc chromated		78.74 (2)	AM1DE200	10	2.0 (0.90)
 7.5 mm depth, 1 mm steel, zinc chromated EN50022 & NF C63-015		78.74 (2)	AM1DP200	10	1.4 (0.65)
DIN1  Asymmetrical 32 mm track 1.5 mm steel, zinc chromated EN50035 & NF C63-018		78.74 (2)	DZ5MB201	10	3.3 (1.50)
DIN2  Symmetrical 15 mm track EN50045		39.37 (1)	AB1PC15	10	0.3 (0.14)

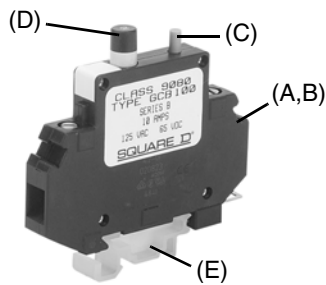
● Orders must specify standard packages or multiples of that quantity.



Angle bracket kit		Catalog number	Sold in lots of
For mounting 9080GH or 9080MH track to a panel at 45° angle. Includes 2 brackets and hardware for mounting the track to the brackets.		9080MH82	1
End clamps			
Plastic end clamp for 35 mm DIN 3 track, 8 mm (0.31 in.) wide		AB1AB8P35	100
Metal end clamp for 35 mm DIN 3 track, 8 mm (0.31 in.) wide		AB1AB8M35	100
Polycarbonate end clamp for 35 mm DIN 3 track, 8 mm (0.31 in.) wide		9080MHA10	50
Plastic end clamp for 32 mm DIN 1 track, 7.5 mm (0.30 in.) wide		AB1AB7P32	100
Metal end clamp for 32 mm DIN 1 track, 7.5 mm (0.30 in.) wide		AB1AB10M32	100
Plastic end clamp for 15 mm DIN 2 track, 7.5 mm (0.30 in.) wide		AB1AB715	100

6 - Terminal Blocks, Type AB1
Circuit Protectors

	<i>Page</i>
Thermal-magnetic control circuit protectors	
■ 9080GCB	6/2
■ GB2	6/3



- A. Thermal-magnetic circuit protector
 B. 14 stocked current ratings, from 0.1 to 15 A
 C. On-Off switch
 D. Visible trip indication
 E. Mounts on Class 9080 Type GH track and on 35 mm DIN3 mounting track.

- These maximum current values assume the use of insulated copper conductors with 75 °C temperature rating, and are calculated based on NEC Article 310, Table 310-16. In most cases this value is the maximum ampacity of that wire or combination of wires (as listed in the table to the right) which has the greatest current carrying capacity. The actual allowable current for a particular application depends on the number, size, insulation class, and other characteristics of the wires used.

9080GCB... circuit protectors:

- Have solderless box lugs.
- Accept one #10–16 AWG Cu wire.
- Come with track adapter 9080GH64 for mounting on 9080GH track. Remove this adapter for mounting on 9080MH2..., MH3..., and AM1 track. Use mounting adapter 9080MH62 for the DZ5MB201 DIN1 track.

Technical data

Maximum interrupting rating	200 A, but not exceeding 10,000% (100 x) rated current		
Dielectric strength	1500 Vac		
Insulation resistance	100 MΩ		
Weight	2.2 oz (62.4 g)		
Terminals	Box lug type		
Tightening torque	8–10 lb-in (0.91–1.1 N•m)		
Approvals	File E152841 CCN QVNU2, File LR25490		
Fingersafe per DIN 57470	Yes		
Maximum Current (A) •	Internal Resistance (Ω)	Maximum voltage	Catalog Number
0.1	1.33	250 Vac 65 Vdc	9080GCB01
0.5	6.6		9080GCB05
0.8	2.55		9080GCB08
1.0	1.97		9080GCB10
1.2	1.22		9080GCB12
1.5	0.86		9080GCB15
2.0	0.49		9080GCB20
2.5	0.31		9080GCB25
3.0	0.20		9080GCB30
4.0	0.10		9080GCB40
5.0	0.08	125 Vac 65 Vdc	9080GCB50
7.0	0.03		9080GCB70
10.0	< 0.02		9080GCB100
15.0			9080GCB150

Selection

To properly select a Class 9080 Type GCB circuit protector:

- Determine the inrush correction factor from Table A.
- Determine the temperature correction factor from Table B.
- Determine the sealed current of the load that is being protected.
- Multiply the sealed current by the two correction factors and choose the closest circuit protector.

Example: Solenoid with a sealed current of 0.75 A, with an inrush ratio of 1:6, and in an ambient temperature of 85 °F (29.4 °C).

$$0.75 \times 1.5 \times 1.05 = 1.18$$

Choose the **1.2 A** protector

Note: Choosing a circuit protector with a value lower than the calculated value might result in nuisance tripping, while choosing the larger might provide a protector that will not properly protect the load.

Table A: Inrush ratio correction

Note: For resistive loads, use an inrush correction factor of 1.0.

Inrush ratio	1:1 to 1:4	1:5	1:6	1:7	1:8
Correction factor	1.3	1.4	1.5	1.6	1.7

Table B: Ambient temperature correction

Ambient temperature	°F	70	100	120	140	160	180	200
temperature	°C	21.1	37.8	48.9	60	71.1	82.2	93.3
Correction factor		1.0	1.1	1.2	1.3	1.4	1.5	1.6

Tripping time of the circuit protector is determined from Table C below. Divide the circuit protector value by the temperature correction factor from Table B above to determine actual rated current referenced in Table C.

Table C: Tripping times in seconds @ 70 °F (21.1 °C)

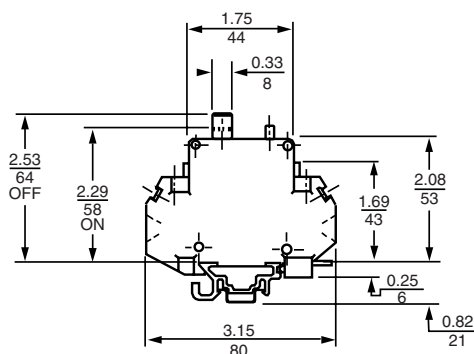
Percent of rated current	100%	200%	300%	400%	500%	600%	1000%	2000% & greater
Trip time (seconds)	no trip	10-40	38	1.5-9	0.8-6	0.003-4	0.003-2	0.02 max.

Note: When several protectors are channel mounted adjacent to each other, the No Trip current will be 80% of rated current at 70 °F (21.1 °C).

Track Adapter

Description	Catalog Number
For mounting 9080GCB circuit protectors on DZ5MB201 track or DIN1 track	9080MH62

Dimensions



Terminal Blocks, Type AB1

Circuit protectors, GB2

One-pole and two-pole, thermal-magnetic control



GB2CB06

Specifications

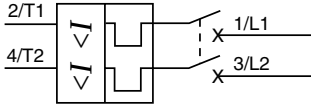
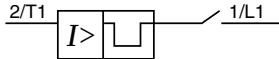
Conformity to standards	UL File # E164873 CCN QVNU2 tested per UL standard 1077 supplemental protectors CSA Class 3215 01 IEC 157-1 VDE 0660									
Protective treatment	Tropical climate finish									
Enclosure rating	IP201 conforming to IEC 144 finger safe terminals									
Ambient temperature	−4 to 140 °F (−20 to 60 °C) mounted in open air									
Operating position	±30° from the vertical plane									
Technical characteristics										
Rated insulation voltage	300 Vac max									
Thermal ratings	0.5A, 1A, 2A, 3A, 4A, 5A, 6A, 8A, 10A, 12A, 16A, 20A									
	Rating selection according to average ambient temperature									
Average ambient temperature	°C	−20	−10	0	+10	+20	+30	+40	+50	+60
	°F	−4	+14	+32	+50	+68	+86	+104	+122	+140
Correction factor		1.20	1.15	1.10	1.05	1.00	0.95	0.90	0.85	0.80
Breaking capacity	1.5 kA/220V conforming to IEC 157-1 (P1)									
Operating current of magnetic trips	GB2CB 12 to 16 times thermal rating GB2CD 12 to 16 times thermal rating GB2DB 12 to 16 times thermal rating GB2CS 5 to 7 times thermal rating									
Mechanical life	8,000 operations									
Maximum wire sizes	Number of conductors (flexible)	1 4 mm² (12 AWG)				2 1 to 2.5 mm² (16 AWG)				
Recommended tightening torque	11 lb-in (1.2 N•m)									
Mounting	35 mm DIN 3 or DIN 1									
Markings	Use AB1R and AB1G markers (see pages 5/2 and 5/3)									

Selection

One-Pole Thermal Magnetic Control Circuit Protectors	Thermal Rating (A)	Catalog Number	Standard Pack ■
	0.5	GB2CB05	6
	1	GB2CB06	
	2	GB2CB07	
	3	GB2CB08	
	4	GB2CB09	
	5	GB2CB10	
	6	GB2CB12	
	8	GB2CB14	
	10	GB2CB16	
	12	GB2CB20	
	16	GB2CB21	
	20	GB2CB22	
Two-Pole Thermal Magnetic Control Circuit Protectors	Thermal Rating (A)	Catalog Number	Standard Pack ■
	0.5	GB2CD05	6
	1	GB2CD06	
	2	GB2CD07	
	3	GB2CD08	
	4	GB2CD09	
	5	GB2CD10	
	6	GB2CD12	
	8	GB2CD14	
	10	GB2CD16	
	12	GB2CD20	
	16	GB2CD21	
	20	GB2CD22	

■ Must order in multiples of the standard pack.
For markers, see pages 5/2 and 5/3.

Terminal Blocks, Type AB1
Circuit protectors, GB2
One-pole and two-pole, thermal-magnetic control

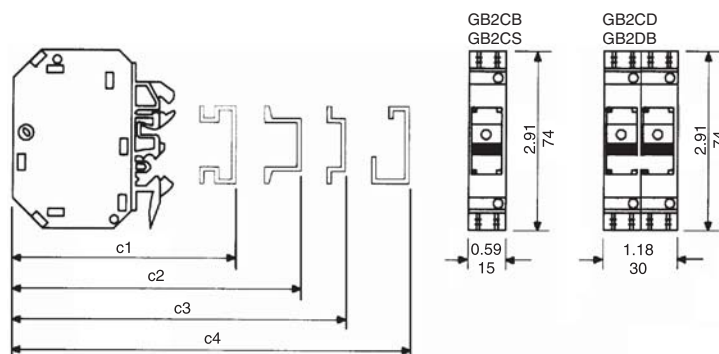
Selection			
Two-pole, thermal-magnetic control circuit protectors	Thermal rating (A)	Catalog number	Standard pack ■
	0.5	GB2DB05	3
	1	GB2DB06	
	2	GB2DB07	
	3	GB2DB08	
	4	GB2DB09	
	5	GB2DB10	
	6	GB2DB12	
	8	GB2DB14	
	10	GB2DB16	
	12	GB2DB20	
	16	GB2DB21	
	20	GB2DB22	
One-pole, thermal-magnetic control circuit protectors	Thermal rating (A)	Catalog number	Standard pack ■
	0.5	GB2CS05	6
	1	GB2CS06	

Terminal Blocks, Type AB1

Circuit protectors, GB2

One-pole and two-pole, thermal-magnetic control

Approximate Dimensions, in. (mm)



Catalog number	c1	c2	c3	c4
GB2CB	3.23 (82)	3.23 (82)	2.95 (75)	3.11 (79)
GB2CD	3.23 (82)	3.23 (82)	2.95 (75)	3.11 (79)
GB2CS	3.23 (82)	3.23 (82)	2.95 (75)	3.11 (79)
GB2DB	3.35 (85)	3.35 (85)	3.07 (78)	3.23 (82)

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Terminal Blocks, Type AB1

Product catalog number index

9080GCB	6/2	AB1BB	3/39	AB1RRNAC2	2/4
9080MH	5/4	AB1BC	3/42	AB1RRNAC4	2/8
AB1A10	3/7	AB1BE	3/24	AB1RRNAC6	2/12
AB1A16	3/8	AB1BF	3/22	AB1RRNACE, AB1RRNACTE	2/36
AB1A2	3/4	AB1BL10	3/7	AB1RRNAL	2/12
AB1A35	3/9	AB1BL2	3/4	AB1RRNAS1	2/14
AB1A4	3/5	AB1BL4	3/5	AB1RRNAS2	2/4
AB1A6	3/6	AB1BL6	3/6	AB1RRNAS4	2/8
AB1AA	1/5	AB1BV5	5/2	AB1RRNAS6	2/12
AB1AA135U	4/4	AB1BV6	5/2	AB1RRNASE, AB1RRNASTE	2/36
AB1AA235U	4/7	AB1BV8	5/2	AB1RRNCS2	2/4
AB1AAAC122BL	4/4	AB1CA1	3/7	AB1RRNET	2/38
AB1AAAC122GR	4/4	AB1CA2	3/4	AB1RRNGF0	2/4
AB1AAAC122VE	4/10	AB1CA3	3/9	AB1RRNGF11, AB1RRNGF22,	
AB1AAAC123BL	4/5	AB1CA4	3/5	AB1RRNGF33	2/8
AB1AAAC123GR	4/5	AB1CA6	3/6	AB1RRNP235UNO	2/7
AB1AAAC123VE	4/11	AB1CC	3/18	AB1RRNR1635UGR	2/11
AB1AAAC124BL	4/6	AB1CJ2	3/4	AB1RRNSC235U2	2/32
AB1AAAC124GR	4/6	AB1CJ215	3/45	AB1RRNSC235U3	2/33
AB1AAAC124VE	4/12	AB1CJ3	3/24	AB1RRNSC235U4	2/34
AB1AAAS122BL	4/4	AB1CJ4	3/5	AB1RRNSCE235U4	2/36
AB1AAAS122GR	4/4	AB1CJ6	3/6	AB1RRNSCE235U5	2/37
AB1AAAS123BL	4/5	AB1CJN10	3/7	AB1RRNSF435UGR	2/35
AB1AAAS123GR	4/5	AB1CJN16	3/8	AB1RRNTP1035U2	2/27
AB1AAAS124BL	4/6	AB1CP1	3/39	AB1RRNTP1035U3	2/28
AB1AAAS124GR	4/6	AB1CP2	3/40	AB1RRNTP1635U2	2/29
AB1AACS1JA	4/4	AB1CS2	3/4	AB1RRNTP1635U3	2/30
AB1AAET	4/20	AB1CS4	3/5	AB1RRNTP235U2	2/19
AB1AASC	4/16	AB1CS6	3/6	AB1RRNTP235U3	2/20
AB1AASF	4/18	AB1CSN10	3/7	AB1RRNTP235U4	2/21
AB1AATP	4/10	AB1CSN150	3/11	AB1RRNTP3535U2	2/31
AB1AB10M32	3/4	AB1CSN16	3/8	AB1RRNTP435U2	2/22
AB1AB715	5/5	AB1CSN35	3/9	AB1RRNTP435U3	2/23
AB1AB7P32	5/5	AB1CT1	3/39	AB1RRNTP435U4	2/24
AB1AB8	5/5	AB1CT2	3/40	AB1RRNTP635U2	2/25
AB1AC2	3/45	AB1CT215	3/47	AB1RRNTP635U3	2/26
AB1AC24	3/4	AB1D11435U	3/19	AB1RRNTPAC1042	2/27
AB1AC25	3/12	AB1DDP	3/27	AB1RRNTPAC1043	2/28
AB1AC3	2/4	AB1EBN	3/32	AB1RRNTPAC1642	2/29
AB1AC6	3/6	AB1ET3235	3/30	AB1RRNTPAC1643	2/30
AB1ACD2	3/27	AB1ET3235U	3/29	AB1RRNTPAC242	2/19
AB1ACN	3/7	AB1ET435	3/25	AB1RRNTPAC243	2/20
AB1AL2	3/4	AB1ETN	3/24	AB1RRNTPAC244	2/21
AB1AL4	3/5	AB1FC	3/23	AB1RRNTPAC442	2/22
AB1AL6	3/6	AB1FF	3/23	AB1RRNTPAC443	2/23
AB1ALD	3/27	AB1FU1	3/22	AB1RRNTPAC444	2/24
AB1ALN10	3/7	AB1FUSE	3/20	AB1RRNTPAC642	2/25
AB1ALN15	3/11	AB1FV	3/23	AB1RRNTPAC643	2/26
AB1ALN16	3/8	AB1GA-AB1GZ	5/3	AB1RV	5/3
AB1ALN2	3/4	AB1L2ET	3/25	AB1SB4	2/4
AB1ALN3	3/9	AB1NEN	3/36	AB1SB5	2/38
AB1ALN4	3/5	AB1PC15	5/4	AB1SB6	2/40
AB1ALN6	3/6	AB1PC3	3/32	AB1SBN	3/36
AB1ALN7	3/10	AB1PS4	3/18	AB1SC	3/18
AB1AS2	3/45	AB1R0-AB1R13	5/3	AB1SF435U	3/21
AB1AS24	3/4	AB1RRAL1	2/14	AB1SF520	2/35
AB1AS4ET	3/25	AB1RRAL2	2/4	AB1SF6332D	2/35
AB1AS6	3/6	AB1RRAL3	2/18	AB1SM1N	3/32
AB1ASN10	3/7	AB1RRAL4	2/8	AB1SR6	5/3
AB1ASN16	3/8	AB1RRCS10	2/14	AB1SV	2/35
AB1ASN35	3/9	AB1RRCS16	2/11	AB1TC	3/23
AB1ASN70	3/10	AB1RRCS35	2/18	AB1TE	3/25
AB1AT1	2/4	AB1RRCS4	2/8	AB1TEN4	3/24
AB1AT2	3/6	AB1RRCS6	2/12	AB1TF	3/22
AB1AT3	2/4	AB1RRN1	2/14	AB1TM1N	3/32
AB1B15	3/45	AB1RRN2	2/4	AB1TNN10	3/37
AB1B22	3/45	AB1RRN3	2/18	AB1TNN16	3/38
AB1B5	5/2	AB1RRN4	2/8	AB1TNN4	3/36
AB1B6	5/2	AB1RRN6	2/12	AB1TP1035U	3/15
AB1B8	5/2	AB1RRNAC1	2/14	AB1TP1635U	3/16

Terminal Blocks, Type AB1

Product catalog number index

(continued)

AB1TP215	3/47	AB1VV215	3/45	AB1VVN7035	3/10
AB1TP235U	3/12	AB1VV235	3/4	AM1DE200	5/4
AB1TP3535U	3/17	AB1VV415	3/46	AM1DP200	5/4
AB1TP435U	3/13	AB1VV435	3/5	AM1ED200	5/4
AB1TP635U	3/14	AB1VV635	3/6	DZ5MB201	5/4
AB1TRNN435	3/33	AB1VVN1035	3/7	GB2CB	6/3
AB1TRPN435	3/33	AB1VVN15035	3/11	GB2CD	6/3
AB1TRPN435UFM	3/35	AB1VVN1635	3/8	GB2CS	6/4
AB1TRSN435	3/32	AB1VVN3535	3/9	GB2DB	6/4

Note: This index lists the page number of the first or most significant occurrence of the product catalog number in the document. It does not list all occurrences of that catalog number.

Terminal Blocks, Type AB1

Technical information

Protective treatment of equipment according to climate

Protective treatment according to climate

Depending on the climatic and environmental conditions in which the equipment is placed, Schneider Electric can offer specially adapted products to meet your requirements.

To make the correct choice of protective finish, remember the following two points:

- The prevailing climate of the country is never the only criterion.
- Only the atmosphere in the immediate vicinity of the equipment needs to be considered.

All climates treatment "TC"

This is the standard treatment for Telemecanique brand equipment and is suitable for the vast majority of applications. It is the equivalent of treatments described as "Klimafest," or "Climateproof."

In particular, it meets the requirements specified in the following publications:

- Publication UTE C 63-100 (method I), successive cycles of humid heat at: +40 °C and 95% relative humidity.
- DIN 50016 - Variations of ambient conditions within a climatic chamber: +23 °C and 83% relative humidity, +40 °C and 92% relative humidity.

It also meets the requirements of the following marine classification societies: BV-LR-GL-DNV-RINA.

Characteristics

- Steel components are usually treated with zinc. When they have a mechanical function, they may also be painted.
- Insulating materials are selected for their high electrical, dielectric, and mechanical characteristics.
- Metal enclosures have a heat-treated paint finish applied over a primary phosphate protective coat, or are galvanized (e.g., some prefabricated busbar trunking components).

Limits for use of "TC" (All climates) treatment

- "TC" treatment is suitable for the following temperatures and humidity:

Temperature	Relative humidity
68 °F (20 °C)	95%
104 °F (40 °C)	80%
122 °F (50 °C)	50%

"TC" treatment is therefore suitable for all latitudes, including tropical and equatorial regions, when the equipment is mounted in normally ventilated industrial premises. Being sheltered from external climatic conditions, temperature variations are small, the risk of condensation is minimized, and the risk of dripping water is virtually non-existent.

Extension of use of "TC" (All climates) treatment

In cases where the humidity around the equipment exceeds the conditions described above, or in equatorial regions if the equipment is mounted outdoors, or if it is placed in a very humid location (laundries, sugar refineries, steam rooms, etc.), "TC" treatment can still be used if the following precautions are taken:

- The enclosure in which the equipment is mounted must be protected with a "TH" finish (see next page) and must be well ventilated to avoid condensation and dripping water (e.g. enclosure base plate mounted on spacers).
- Components mounted inside the enclosure must have a "TC" finish.
- If the equipment is to be switched off for long periods, a heater must be provided (0.2 to 0.5 kW per square decimeter of enclosure), that switches on automatically when the equipment is turned off. This heater keeps the inside of the enclosure at a temperature slightly higher than the outside surrounding temperature, thereby avoiding any risk of condensation and dripping water (the heat produced by the equipment itself during normal running is sufficient to provide this temperature difference).
- Special considerations for Operator Dialog and Detection products: for certain pilot devices, the use of "TC" treatment can be extended to outdoor use provided their enclosure is made of light alloys, zinc alloys, or plastic material. In this case, it is also essential to ensure that the degree of protection against penetration of liquids and solid objects is suitable for the applications involved.

Terminal Blocks, Type AB1

Technical information

Protective treatment of equipment according to climate

“TH” treatment for hot and humid environments

This treatment is suitable for hot and humid atmospheres where installations are regularly subject to condensation, dripping water, and the risk of fungi.

In addition, the plastic insulating components are resistant to attacks from insects such as termites and cockroaches. These properties have often led to this treatment being described as “Tropical Finish,” but this does not mean that all equipment installed in tropical and equatorial regions must systematically have undergone “TH” treatment. Conversely, certain operating conditions in temperate climates may require the use of “TH” treated equipment (see limitations for use of “TC” treatment).

Special characteristics of “TH” treatment

- All insulating components are made of materials which are either resistant to fungi or treated with a fungicide, and which have increased resistance to creepage (Standards IEC60112, NF C 26-220, DIN5348).
- Metal enclosures receive a top-coat of heat-treated, fungicidal paint, applied over a rust inhibiting undercoat. Components with a “TH” treatment may be subject to a surcharge; please consult your local sales office. (A large number of the Telemecanique brand products are “TH” treated as standard, so they are not subject to a surcharge.)

Protective treatment selection guide

Surrounding environment	Duty cycle	Internal heating of enclosure when not in use	Type of climate	Protective treatment of:	
				equip-ment	enclo-sure
Indoors					
No dripping water or condensation	Unimportant	Not necessary	Unimportant	“TC”	“TC”
Presence of dripping water or condensation	Frequent switching off for periods of more than 1 day	No	Temperate	“TC”	“TH”
			Equatorial	“TH”	“TH”
		Yes	Unimportant	“TC”	“TH”
	Continuous	Not necessary	Unimportant	“TC”	“TH”
Outdoors (sheltered)					
No dripping water or dew	Unimportant	Not necessary	Temperate	“TC”	“TC”
			Equatorial	“TH”	“TH”
Exposed outdoors or near the sea					
Frequent and regular presence of dripping water or dew	Frequent switching off for periods of more than 1 day	No	Temperate	“TC”	“TH”
			Equatorial	“TH”	“TH”
		Yes	Unimportant	“TC”	“TH”
	Continuous	Not necessary	Unimportant	“TC”	“TH”

These treatments cover, in particular, the applications defined by methods I and II of guide UTE C 63-100.

Special precautions for electronic equipment

Electronic products always meet the requirements of “TC” treatment. A number of them are “TH” treated as standard.

Some electronic products (for example, programmable controllers, flush-mountable type CCX controllers, and flush-mountable type XBT operator terminals) require the use of an enclosure providing a degree of protection to at least IP54, as defined by standards IEC 60664 and NF C 20 040, for use in industrial applications or in environmental conditions requiring “TH” treatment.

These electronic products, including flush-mountable products, must have a degree of protection to at least IP20 (provided either by their own enclosure or by their installation method) for restricted access locations where the degree of pollution does not exceed 2 (for example, a test booth not containing machinery or other dust-producing activities).

Special treatments

For particularly harsh industrial environments, Schneider Electric is able to offer special protective treatments. Please consult your local sales office.

Terminal Blocks, Type AB1

Technical information

Product standards and certifications

Standardization

Note: For further details on a specific product, please refer to the selection page for that product.

Conformity to standards

Telemecanique brand products satisfy, in the majority of cases, the following types of standards:

- national (for example, BS in Great Britain, NF in France, DIN in Germany)
- European (for example, CENELEC)
- international (IEC)

These product standards precisely define the performance of the designated products (such as IEC 60947 for low voltage equipment).

When used correctly, as designated by the manufacturer and in accordance with regulations and correct practices, these products will allow users to build equipment, machine systems, or installations that conform to their appropriate standards (for example: IEC60204-1, relating to electrical equipment used on industrial machines).

Schneider Electric is able to provide proof of conformity of its production to the standards it has chosen to comply with, through its quality assurance system.

On request, and depending on the situation, Schneider Electric can provide the following:

- A declaration of conformity
- A certificate of conformity (ASEFA/LOVAG)
- A homologation certificate or approval, in the countries where this procedure is required or for particular specifications, such as those existing in the merchant navy

Code	Certification authority		Country
	Name	Abbreviation	
ANSI	American National Standards Institute	ANSI	USA
BS	British Standards Institution	BSI	Great Britain
CEI	Comitato Elettrotecnico Italiano	CEI	Italy
DIN/VDE	Verband Deutscher Elektrotechniker	VDE	Germany
EN	Comité Européen de Normalisation Electrotechnique	CENELEC	Europe
GOST	Gosudarstvennoy Komitet Standartov	GOST	Russia
IEC	International Electrotechnical Commission	IEC	Worldwide
JIS	Japanese Industrial Standard	JISC	Japan
NBN	Institut Belge de Normalisation	IBN	Belgium
NEN	Nederlands Normalisatie Instituut	NNI	Netherlands
NF	Union Technique de l'Electricité	UTE	France
SAA	Standards Association of Australia	SAA	Australia
UNE	Asociacion Española de Normalizacion y Certificacion	AENOR	Spain

European EN standards

These are technical specifications established in conjunction with, and with approval of, the relative bodies within the various CENELEC member countries (European Union, European Free Trade Association, and many central and eastern European countries having Member or Affiliated status). Prepared in accordance with the principle of consensus, the European standards are the result of a weighted majority vote. Such adopted standards are then integrated into the national collection of standards, and contradictory national standards are withdrawn. European standards incorporated within the French collection of standards carry the prefix NFEN. At the *Union Technique de l'Electricité* (UTE, or Technical Union of Electricity), the French version of a corresponding European standard carries a dual number: European reference (NFEN ...) and classification index (C ...).

Therefore, standard NF EN 60947-4-1, relating to motor contactors and starters, effectively constitutes the French version of European standard EN 60947-4-1 and carries the UTE classification C 63-110.

This standard is identical to the British standard BS EN 60947-4-1 or the German standard DIN EN 60947-4-1.

Whenever reasonably practical, European standards reflect international standards (IEC).

With regard to automation system components and distribution equipment, in addition to complying with the requirements of French NF standards, Telemecanique brand components conform to the standards of all other major industrial countries.

Regulations

European Directives

Opening up of European markets assumes harmonization of the regulations pertaining to each of the member countries of the European Union.

The purpose of the European Directive is to eliminate obstacles hindering the free circulation of goods within the European Union, and it must be applied in all member countries. Member countries are obliged to transcribe each Directive into their national legislation and to simultaneously withdraw any contradictory regulations. The Directives, in particular those of a technical nature which concern us, only establish the objectives to be achieved, referred to as "essential requirements."

The manufacturer must take all the necessary measures to ensure that its products conform to the requirements of each Directive applicable to its production.

As a general rule, the manufacturer certifies conformity to the essential requirements of the Directive(s) for the product by affixing the CE mark.

The CE mark is affixed to the Telemecanique brand products concerned, to comply with French and European regulations.

Significance of the CE mark

- The CE mark affixed to a product signifies that the manufacturer certifies that the product conforms to the relevant European Directive(s) which concern it; this condition must be met to allow free distribution and circulation within the countries of the European Union of any product subject to one or more of the E.U. Directives.
- The CE mark is intended solely for national market control authorities.
- The CE mark must not be confused with a conformity marking.

Terminal Blocks, Type AB1

Technical information

Product standards and certifications

European Directives (continued)

For electrical equipment, only conformity to standards signifies that the product is suitable for its designated function, and only the guarantee of an established manufacturer can provide a high level of quality assurance.

For Telemecanique brand products, one or several Directives are likely to be applicable, depending on the product, and in particular:

- The Low Voltage Directive 73/23/EEC amended by Directive 93/68/EEC: the CE mark relating to this Directive has been compulsory since January 1, 1997
- The Electromagnetic Compatibility Directive 89/336/EEC, amended by Directives 92/31/EEC and 93/68/EEC: the CE mark on products covered by this Directive has been compulsory since January 1, 1996

RoHS Compliance

RoHS, European Union Directive 2002/95/EC, restricts the use of certain hazardous substances in electrical equipment sold in Europe on or after July 1, 2006. The scope of this directive is primarily for consumable electrical and electronic products. In general, industrial control products are not within this scope; however, in some applications, terminal blocks can fall within this scope. The AB1 terminal blocks comply with the RoHS Directive.

To learn more, visit our RoHS website at www.rohs.Schneider-Electric.com, or enter through the RoHS icon at www.us.Schneider-Electric.com. If you have a question about a specific catalog number, use the Check a Product link to determine the current status of any product. If you have additional questions, contact your nearest Schneider Electric sales office for assistance.

ASEFA-LOVAG certification

The function of ASEFA (*Association des Stations d'Essais Française d'Appareils électriques*, or Association of French Testing Stations for Low Voltage Industrial Electrical Equipment) is to carry out tests of conformity to standards and to issue certificates of conformity and test reports.

ASEFA laboratories are authorized by the French authorization committee (COFRAC).

ASEFA is now a member of the European agreement group LOVAG (Low Voltage Agreement Group). This means that any certificates issued by LOVAG/ASEFA are recognized by all the authorities which are members of the group and carry the same validity as those issued by any of the member authorities.

Quality labels

When components can be used in domestic and similar applications, it is sometimes recommended that a "Quality label" be obtained, which is a form of certification of conformity.

Code	Quality label	Country
CEBEC	Comité Electrotechnique Belge	Belgium
KEMA-KEUR	Keuring van Electrotechnische Materialen	Netherlands
NF	Union Technique de l'Electricité	France
ÖVE	Österreichischer Verband für Electrotechnik	Austria
SEMKO	Svenska Elektriska Materiel Kontrollnatanalen	Sweden

Product certifications

In some countries, the certification of certain electrical components is a legal requirement. In this case, a certificate of conformity to the standard is issued by the official test authority. Each certified device must bear the relevant certification symbols when these are mandatory:

Code	Certification authority	Country
CSA	Canadian Standards Association	Canada
UL	Underwriters Laboratories	USA
CCC	China Compulsory Certification	China

On certifications issued by the Underwriters Laboratories (UL), there are two levels of approval:

"Recognized" (UL)	The component is fully approved for inclusion in equipment built in a workshop, where the operating limits are known by the equipment manufacturer and where its use within such limits is acceptable by the Underwriters Laboratories. The component is not approved as a "Product for general use" because its manufacturing characteristics are incomplete or its application possibilities are limited. A "Recognized" component does not necessarily carry the certification symbol.
"Listed" (UL)	The component conforms to all the requirements of the classification applicable to it and may therefore be used both as a "Product for general use" and as a component in assembled equipment. A "Listed" component must carry the certification symbol.

Marine classification societies

Prior approval (= certification) by certain marine classification societies is generally required for electrical equipment which is intended for use on board merchant vessels.

Code	Classification authority	Country
BV	Bureau Veritas	France
DNV	Det Norske Veritas	Norway
GL	Germanischer Lloyd	Germany
LR	Lloyd's Register	Great Britain
NKK	Nippon Kaiji Kyokai	Japan
RINA	Registro Italiano Navale	Italy
RRS	Register of Shipping	Russia

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