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

Applications (connection) **Passthrough**



Nominal c.s.a (mm ²)	1	2.5	4	6 to 16	35 to 150	4	6	16	35
Technology									
IDC	●	●	–	–	–	–	–	–	–
Spring	–	●	●	●	–	–	–	–	–
Screw	–	●	●	●	●	●	●	●	●
Clip-on mounting on									
35 mm	●	●	●	●	●	●	●	●	●
35 mm	●	●	●	●	●	●	●	●	●
35 mm	–	VV	VV	VV	●	●	●	●	●
35 mm	–	–	–	–	–	●	●	●	●
15 mm	–	VV (1)	VV (1)	–	–	–	–	–	–
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	●	RR AA	RR	–	–	–	–	–	–
1 - 2 x 2	●	RR AA	RR	–	–	–	–	–	–
Colors									
Grey	●	●	●	●	●	●	●	●	●
Blue	●	●	●	●	●	–	–	–	–
Green/yellow	–	–	–	–	–	–	–	–	–
Orange	–	VV	VV	VV635	–	–	–	–	–
Red	–	–	VV	–	–	–	–	–	–
Green	–	–	VV	–	–	–	–	–	–
White	–	–	VV	–	–	–	–	–	–
Black	–	–	VV	–	–	–	–	–	–
References									
IDC technology (AA)	AB1-AA●●●●					–			
Spring technology (RR)	AB1-RR●●●●					–			
Screw technology (VV)	AB1-VV●●●●					DB6- CD●●	DB6- DD●●	DB6- ED●●	DB6- FD●●
Pages									
IDC technology	6/10 and 6/11					–			
Spring technology	6/24 to 6/27					–			
Screw technology	6/36 to 6/39					6/40 and 6/41			
Marking accessories AB1-	6/70 and 6/71					–			

(1) See pages 6/48 and 6/49.

Protective earth					Screw lug		Neutral conductor	Plug-in		Front connecting fixed
1	2.5	4	6 to 16	35	Screw lug-screw lug	Screw lug-clamp type		Side entry	Front connecting	
										
•	•	–	–	–	–	–	–	–	–	–
–	•	•	•	–	–	–	–	–	–	–
–	–	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•	•
–	–	W	VV	•	–	–	•	•	•	•
–	–	–	–	–	–	–	–	–	–	–
–	–	W(1)	–	–	–	–	–	–	–	–
•	•	•	•	•	•	•	•	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	•	–	–
–	–	–	–	–	–	–	–	–	•	•
•	AA	RR	–	–	–	–	–	–	–	–
•	•	–	–	–	–	–	–	–	–	–
–	–	–	–	–	•	•	–	•	•	•
–	–	–	–	–	–	–	•	–	–	–
•	•	•	•	•	–	–	–	–	–	–
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–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–
AB1-AATP●●●●					–	–	–	–	–	–
AB1-RRTP●●●●					–	–	–	–	–	–
AB1-TP●●●●					AB1-BB●●●●	AB1-BC●●●●	AB1-NEN●●●●	AB1-BD	AB1-DV/BCP	AB1-BV
6/14 to 6/17					–	–	–	–	–	–
6/28 to 6/31					–	–	–	–	–	–
6/42 and 6/43					6/44 and 6/45	6/46 and 6/47	6/50 and 6/51	6/52	6/54	6/53

Applications (connection)	Deck				For proximity sensors	Tri function	
	Multi-pole	Double deck					
							
Nominal c.s.a (mm²)	4	1	1.5	2.5	4	2.5	4
Technology							
IDC	–	●	–	●	–	–	–
Spring	–	–	●	●	–	–	–
Screw	●	–	–	–	●	●	●
Clip-on mounting on							
35 mm 	●	●	●	●	●	●	●
35 mm 	●	●	●	●	●	●	●
35 mm 	●	–	–	–	●	●	–
Number of poles							
1 - 1 x 1	–	–	–	–	–	● + 2 or 3 poles	–
2 - 1 x 1	●	●	●	●	●	–	●
3 - 1 x 1	–	–	–	–	–	●	–
1 - 1 x 2	●	–	–	–	–	–	–
1 - 2 x 2	●	–	–	–	●	–	–
With protective earth	●	–	–	–	●	–	●
Visualisation	●	–	–	AA	●	●	●
Colors							
Grey	●	●	●	AA	●	●	●
Blue	–	–	–	–	–	–	–
Green/yellow	●	–	–	–	●	–	–
Orange	–	–	–	AA	●	–	–
Red	–	–	–	AA	●	–	–
Black	–	–	–	RR	●	–	–
References							
IDC technology (AA)	–	AB1-AAET	–	AB1-AAET	–	–	–
Spring technology (RR)	–	–	AB1-AAET	–	–	–	–
Screw technology (VV)	AB1-ETN	–	–	–	AB1-ET4	AB1-DDP AB1-ET3	AB1-TR
Pages							
IDC technology	–	6/18 and 6/19				–	–
Spring technology	–	6/32 and 6/33				–	–
Screw technology	6/56	6/57			6/58 and 6/59	6/60 and 6/61	
Marking accessories AB1-	6/70 and 6/71						

Disconnect Blade type	Carrier						Fixed carrier		Screw-clip
	Fused	With removable carrier			For diode	For fuse			



1	2.5	4	4	1	2.5	4	2.5	10	4
•	•	-	-	•	•	-	-	-	-
-	-	•	-	-	-	•	-	-	-
-	-	•	•	-	-	•	•	•	•
•	•	•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•	•	•
-	-	W	•	-	-	W	•	•	•
•	•	•	•	•	•	•	-	•	•
-	-	-	-	-	-	-	•	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
•	•	•	•	•	•	•	-	•	-
•	•	W	-	-	-	-	•	•	•
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
AB1-AASC●●●●			-	AB1-AASF●●●●			-	-	-
AB1-RRSC●●●●			-	AB1-RRSF●●●●			-	-	-
AB1-SC●●●●			AB1-FUSE●●●●	AB1-SF●●●●			AB1-D11●●●●	AB1-FU1●●●●	AB1-FV●●●● AB1-FC●●●●
6/20 and 6/21			-	6/22 and 6/23			-	-	-
6/34			-	6/35			-	-	-
6/62			6/63	6/64			6/65	6/66	6/68

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Terminal blocks

IDC technology

Presentation



AB1 AA

New technology : Insulation Displacement Connector (IDC)

- Terminal blocks **AB1 AA** complete the existing screw and spring terminal connection range with a new technology - Insulation Displacement Connector (IDC): no need to strip wires prior to installation
- Terminal blocks **AB1 AA** are made of the same material as screw and spring terminal blocks : polyamide 6.6.
- Two widths are available:
 - 5 mm for cable c.s.a. of 1 mm²,
 - 6 mm for cable c.s.a. of 2 mm².
- Various colours are available: red, blue, black, yellow/green, grey, ... depending on the type of terminal to be used.

Advantages of insulation displacement technology

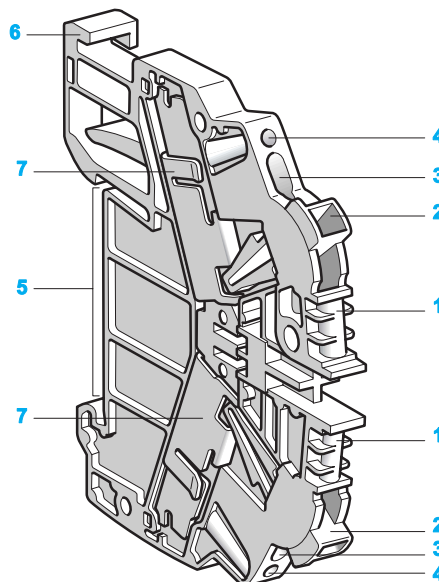
- Fast installation : 60 % time saving
- Installation possible without having to strip or crimp wires.
- No special tools required.
- Terminal resistant to vibrations due to the special feature of the technology : no screws to tighten.

Connection applications

- Passthrough.
- For protective conductors.
- Double deck type.
- Blade disconnect type
- Plug-in disconnect type.

Description

Terminal blocks **AB1 AA** comprise :

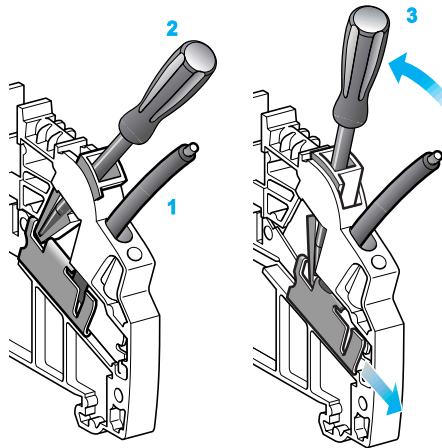


- 1 Referenced connector.
- 2 Hole for inserting a screwdriver and colour code (red for 1 mm² cable c.s.a., blue for 2.5 mm² cable c.s.a.).
- 3 Wire guide hole.
- 4 Test point.
- 5 Footprint for clip-on mounting on 35 mm DIN rail.
- 6 Plastic case : width 5 mm or 6 mm.
- 7 Cutting device.

Installation

Installation of AB1 AA terminal blocks

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



- 1 Cut the wire to the required length and, without stripping it, insert it into the wire guide.
- 2 Insert a screwdriver into the hole provided.
- 3 Lift the screwdriver towards the centre of the terminal block. The test point checks that contact has been made.

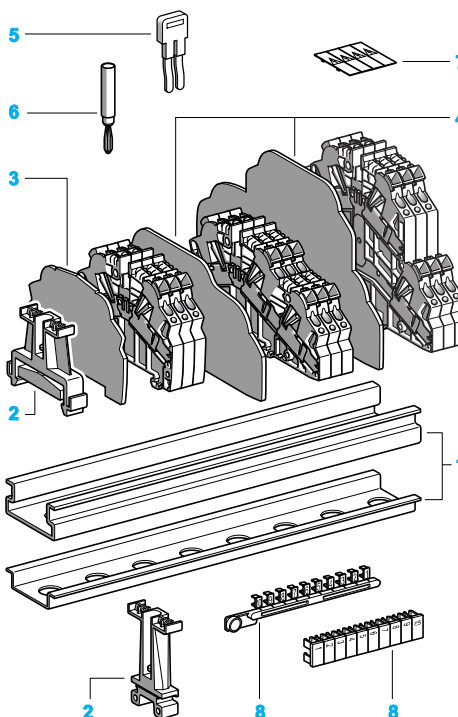
Recommendations for installation :

- Use a 3 to 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.
- The UL standard specifies that AB1 AA terminal blocks may be reused 7 times.

Accessories

Mounting accessories for AB1 AA terminal blocks

These new AB1 AA insulation displacement terminal blocks use the same accessories as spring terminal blocks, except for the end covers 3 and partitions 4 which are accessories specific to AB1 AA terminal blocks.



- 1 Rail
- 2 Plastic or metal end stops
- 3 End cover (thickness 1.5)
- 4 Partition (thickness 1.5)
- 5 Insulated connecting plug
- 6 Test plug (red)
- 7 "Danger" live terminals cover
- 8 Marking accessories

Terminal blocks

IDC, spring and screw technologies







Terminal blocks	Technology	Insulation displacement	Spring	Screw
	Type			
		AB1 AA ^{eee}	AB1 RR ^{eee}	AB1 V ^{eee}
Component materials	Insulating case	Polyamide 6.6.		
	Connector and screw	Zinc chromated steel		
	Commoning link	Copper or brass		

Electrical and thermal characteristics of insulating case (polyamide 6.6)

Dielectric strength	Conforming to VDE 0303-T21 and IEC 243-1	kV/mm	80/65
Dielectric loss Tan coefficient at 1 MHz	Conforming to VDE0303-T4 and IEC 250		0.01
Dielectric constant at 1 MHz			3.7
Resistivity	Conforming to VDE 0303-T30 and IEC 93	Ω.cm	10 ¹²
Surface resistance	Conforming to VDE 0303-T30 and IEC 93	Ω	10 ¹⁰
Creep resistance	Conforming to VDE 0303-T30 and IEC 93	CTI (kB)	500 (> 400)
Ambient air temperature around the device	Conforming to VDE 0304-T21 and IEC 216-1	°C	Operation : - 40...+ 130
Inflammability class	Conforming to IEC 94	Class/mm thickness	V-0 / 0.8

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Mounting rail characteristics

Mounting rail type		AM1 DP200	AM1 DE200	AM1 ED200	AM1 ED021	DZ5 MB201	AM1 EA200	
Shape								
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	35 x 16 x 1.8
Material			Steel	Steel	Steel	Steel	Aluminium	
Equivalent c.s.a. in copper		mm ²	16	25	25	35	35	70
Short-circuit current withstand		kA	1.92	3	3	4.2	4.2	8.4

Terminal blocks

IDC, spring and screw technologies

For insulation displacement, spring and screw terminal blocks

Nominal c.s.a. and maximum currents of copper conductors (1)

ISO metric size	Size	Size	Diameter	Current
mm ²	AWG	kcmil	mm	A
0.5	20	–	1.02	–
0.75	18	–	1.28	–
1	–	–	–	15
1.5	16	–	1.6	19.5
2.5	14	–	2.08	26
4	12	–	2.7	35
6	10	–	3.09	46
10	8	–	3.36	63
16	6	–	4.32	85
25	4	–	5.73	112
35	2	–	7.26	138
50	(1/0) 0	–	12.08	168
70	(2/0) 00	–	13.54	213
95	(3/0) 000	–	15.33	258
–	(4/0) 0000	–	17.22	–
120	–	250	19.01	299
150	–	300	20.48	344
185	–	350	22.05	392
240	–	500	26.57	461
300	–	600	30.03	500

(1) Conforming to DIN VDE 0611 part 1/11.77.

For screw terminal blocks

Tightening torques (1)

Terminal block type	C.s.a. mm ²	Capacity mm ²	Screw		Torque N.m
			Ø	Type	
AB1 VV235●●●	2.5	0.5...2.5	M2.5	⊘	0.4
AB1 VV435●●●	4	0.5...4	M3	⊘	0.5
AB1 VV635●●●	6	0.5...6	M3.5	⊘	1.2
AB1 VVN1035●●●	10	1...10	M3.5	⊘	2
AB1 VVN1635●●●	16	2.5...16	M6	⊘	2.5
AB1 VVN3535●●●	35	6...35	M6	⊙	3
AB1 VVN7035●●●	70	16...70	M8	⊙	6
AB1 VVN15035●●●	150	35...150	M10	⊙	10
AB1 Be9535	95	95 (5 x 18)	M12	⬡	10
AB1 Be15035	150	150 (6 x 26)	M12	⬡	14
AB1 Be18535	185	185 (6 x 26)	M12	⬡	14
AB1 Be24035	240	240 (8 x 26)	M12	⬡	14

(1) Conforming to IEC 974-1 and EN 60-999.

Terminal blocks

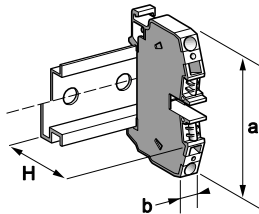
IDC technology

Passthrough

Clip-on mounting on 25 or 35 mm rails

Nominal c.s.a.

1 mm²



AB1 AA135U2●●

Dimensions in mm

Length	a
Width	b
Height with AM1 ED● 25	57.5
Height with AM1 D●● 35	50

Cabling c.s.a. in mm²

Flexible cable without cable end	0.2 - 1
Flexible cable with cable end	-
Solid core cable	0.2 - 1

Nominal Electrical Values

IEC 947-7-1	800 V / 8 kV / 3 - 13.5 A
UL-Data (gauge, V, A)	30 - 18 AWG, 600 V, 13 A
CSA-Data (gauge, V, A)	24 - 18 AWG, 600 V, 7 A

Approvals

Obtained under the marking type WKC x35

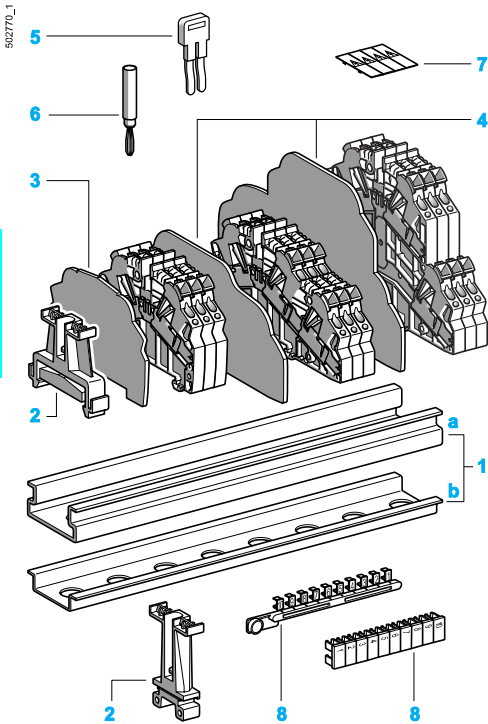
UL, CSA, KEMA

Terminal blocks

	No. points	Sold in lots of	Unit Reference	Weight g
Grey	2	100	AB1 AA135U2GR	12.6
Blue	2	100	AB1 AA135U2BL	12.6

Accessories (Dimensions in mm)

2 Plastic end stop	Width 8 on 25 or 35	-	100	AB1 AB8P35	5.9
2 Metal end stop	Width 8 on 25 or 35	-	100	AB1 AB8M35	7.0
3 End plate (thickness 1.5)	Grey	-	10	AB1 AAAC122GR	4.4
	Blue	-	10	AB1 AAAC122BL	4.4
4 Partition plate (thickness 1.5)	Grey	-	10	AB1 AAAS122GR	3.2
	Blue	-	10	AB1 AAAS122BL	3.2
5 Insulated common connector comb	2 pole	-	10	AB1 RRAL22	1.1
	3 pole	-	10	AB1 RRAL23	1.6
	4 pole	-	10	AB1 RRAL24	2.1
	5 pole	-	10	AB1 RRAL25	2.7
	10 pole	-	20	AB1 RRAL210	5.4
6 Test plug (red)		-	50	AB1 AT1	1.7
7 "Danger" live terminal covers		4	10	AB1 AACS1JA	0.4
8 Marking Accessories		See pages 6/70 and 6/71			



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Terminal blocks

IDC technology

Passthrough

Clip-on mounting on 2.5 35 mm rails

1 mm²



AB1 AA135U3

92.1
5
57.5
50
0.2 - 1
-
0.2 - 1
800 V / 8 kV / 3 - 13.5 A
30 - 18 AWG, 600 V, 10 A
24 - 18 AWG, 600 V, 7 A

UL, CSA, KEMA

1 mm²



AB1 AA135U4

119.7
5
79.5
72
0.2 - 1
-
0.2 - 1
500 V / 6 kV / 3 - 13.5 A
30 - 18 AWG, 600 V, 10 A
24 - 18 AWG, 600 V, 7 A

UL, CSA, KEMA

Terminal Blocks

No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g
3	50	AB1 AA135U3GR	17.5	4	50	AB1 AA135U4GR	30.7
3	50	AB1 AA135U3BL	17.5	4	50	AB1 AA135U4BL	30.7

Accessories (Dimensions in mm)

-	100	AB1 AB8P35	5.9	-	100	AB1 AB8P35	5.9
-	100	AB1 AB8M35	7.0	-	100	AB1 AB8M35	7.0
-	10	AB1 AAAC123GR	5.7	-	10	AB1 AAAC124GR	10.3
-	10	AB1 AAAC123BL	5.7	-	10	AB1 AAAC124BL	10.3
-	10	AB1 AAAS123GR	7.1	-	10	AB1 AAAS124GR	11.5
-	10	AB1 AAAS123BL	7.1	-	10	AB1 AAAS124BL	11.5
-	10	AB1 RRAL22	1.1	-	10	AB1 RRAL22	1.1
-	10	AB1 RRAL23	1.6	-	10	AB1 RRAL23	1.6
-	10	AB1 RRAL24	2.1	-	10	AB1 RRAL24	2.1
-	10	AB1 RRAL25	2.7	-	10	AB1 RRAL25	2.7
-	20	AB1 RRAL210	5.4	-	20	AB1 RRAL210	5.4
-	50	AB1 AT1	1.7	-	50	AB1 AT1	1.7
4	10	AB1 AACS1JA	0.4	4	10	AB1 AACS1JA	0.4

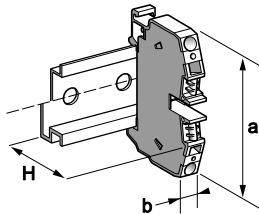
Terminal blocks

IDC technology
Passthrough

Clip-on mounting on 2.5 or 3.5 mm rails

Nominal c.s.a.

2.5 mm²



AB1 AA235U2●●

Dimensions in mm

Length	a	67
Width	b	6
Height with AM1 ED● 2.5		57.5
Height with AM1 D●● 3.5		50

Cabling c.s.a. in mm²

Flexible cable without cable end	1 - 2.5
Flexible cable with cable end	0.5 - 1.5
Solid core cable	1 - 2.5

Nominal Electrical Values

IEC 947-7-1	800 V / 8 kV / 3 - 24 A
UL-Data (gauge, V, A)	18 - 14 AWG, 600 V, 13 A
CSA-Data (gauge, V, A)	16 - 14 AWG, 600 V, 20 A

Approvals

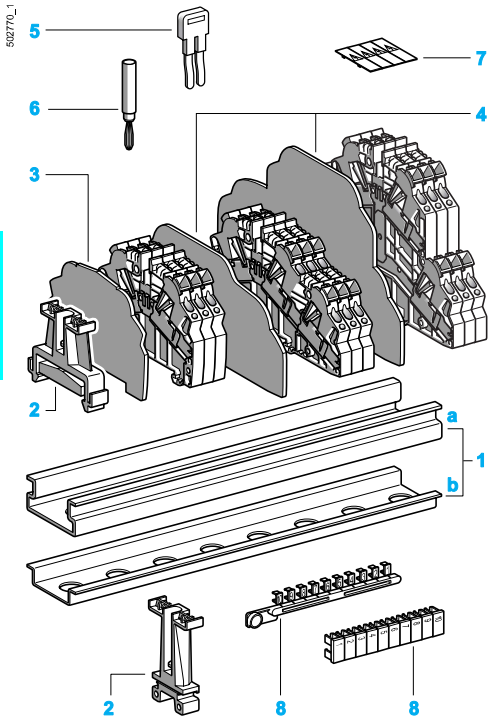
Obtained under the marking type WKC x/35	UL, CSA, KEMA
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Terminal blocks

	No. points	Sold in lots of	Unit Reference	Weight g
Grey	2	100	AB1 AA235U2GR	14.1
Blue	2	100	AB1 AA235U2BL	14.1

Accessories (Dimensions in mm)

2 Plastic end stop	Width 8 on 2.5 or 3.5	—	100	AB1 AB8P35	5.9
2 Metal end stop	Width 8 on 2.5 or 3.5	—	100	AB1 AB8M35	7.0
3 End plate (thickness 1.5)	Grey	—	10	AB1 AAAC122GR	4.4
	Blue	—	10	AB1 AAAC122BL	4.4
4 Partition plate (thickness 1.5)	Grey	—	10	AB1 AAAS122GR	5.3
	Blue	—	10	AB1 AAAS122BL	5.3
5 Insulated common connector comb	2 pole	—	10	AB1 RRAL22	1.1
	3 pole	—	10	AB1 RRAL23	1.6
	4 pole	—	10	AB1 RRAL24	2.1
	5 pole	—	10	AB1 RRAL25	2.7
	10 pole	—	20	AB1 RRAL210	5.4
6 Test plug (red)		—	50	AB1 AT1	1.7
7 "Danger" live terminal covers		4	10	AB1 AACS1JA	0.4
8 Marking Accessories		See pages 6/70 and 6/71			



6

Terminal blocks

IDC technology

Passthrough

Clip-on mounting on 2.5 35 mm rails

2.5 mm²



AB1 AA235U3

92.1

6

57.5

50

1 - 2.5

0.5 - 1.5

1 - 2.5

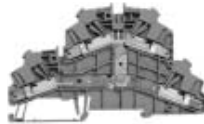
800 V / 8 kV / 3 - 24 A

18 - 14 AWG, 600 V, 10 A

16 - 14 AWG, 600 V, 20 A

UL, CSA, KEMA

2.5 mm²



AB1 AA235U4

119.7

6

79.5

72

1 - 2.5

0.5 - 1.5

1 - 2.5

500 V / 6 kV / 3 - 24 A

18 - 14 AWG, 600 V, 10 A

16 - 14 AWG, 600 V, 20 A

UL, CSA, KEMA

Terminal Blocks

No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g
3	50	AB1 AA235U3GR	19.5	4	50	AB1 AA235U4GR	34.1
3	50	AB1 AA235U3BL	19.5	4	50	AB1 AA235U4BL	34.1

Accessories (Dimensions in mm)

-	100	AB1 AB8P35	5.9	-	100	AB1 AB8P35	5.9
-	100	AB1 AB8M35	7.0	-	100	AB1 AB8M35	7.0
-	10	AB1 AAAC123GR	5.7	-	10	AB1 AAAC124GR	10.3
-	10	AB1 AAAC123BL	5.7	-	10	AB1 AAAC124BL	10.3
-	10	AB1 AAAS123GR	7.1	-	10	AB1 AAAS124GR	11.5
-	10	AB1 AAAS123BL	7.1	-	10	AB1 AAAS124BL	11.5
-	10	AB1 RRAL22	1.1	-	10	AB1 RRAL22	1.1
-	10	AB1 RRAL23	1.6	-	10	AB1 RRAL23	1.6
-	10	AB1 RRAL24	2.1	-	10	AB1 RRAL24	2.1
-	10	AB1 RRAL25	2.7	-	10	AB1 RRAL25	2.7
-	20	AB1 RRAL210	5.4	-	20	AB1 RRAL210	5.4
-	50	AB1 AT1	1.7	-	50	AB1 AT1	1.7
4	10	AB1 AACS1JA	0.4	4	10	AB1 AACS1JA	0.4

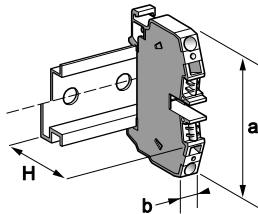
Terminal blocks

IDC technology
Protective earth

Clip-on mounting on 25 or 35 mm rails

Nominal c.s.a.

1 mm²



AB1 AATP135U2

Dimensions in mm

Length	a	67
Width	b	5
Height with AM1 ED	25	57.5
Height with AM1 DE	35	50

Cabling c.s.a. in mm²

Flexible cable without cable end	0.2 - 1
Flexible cable with cable end	-
Solid core cable	0.2 - 1

Nominal Electrical Values

IEC 947-7-1	800 V / 8 kV / 3 - 13.5 A
UL-Data (gauge, V, A)	30 - 18 AWG, 600 V, 13 A
CSA-Data (gauge, A short duration)	24 - 18 AWG, 120 A/45 s

Approvals

Obtained under the marking type WKC x/35	UL, CSA, KEMA
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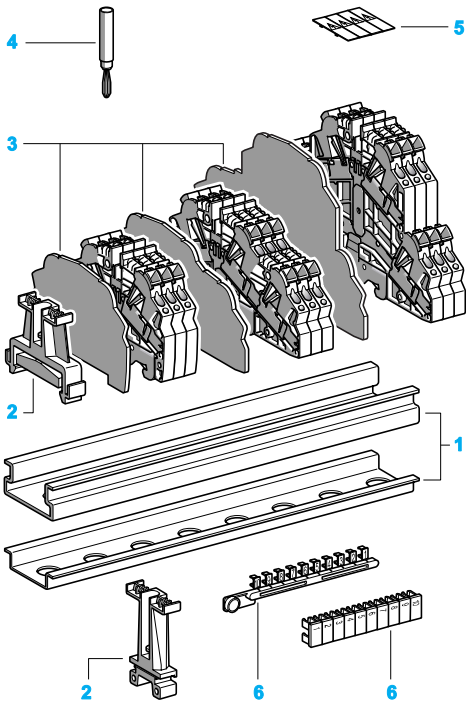
Terminal Blocks

	No. points	Sold in lots of	Unit Reference	Weight g
Green/Yellow	2	100	AB1 AATP135U2	18.1

Accessories (Dimensions in mm)

2 Plastic end stop	Width 8 on 25 or 35	-	100	AB1 AB8P35	5.9
2 Metal end stop	Width 8 on 25 or 35	-	100	AB1 AB8M35	7.0
3 End plate	Green (thickness 1.5)	-	10	AB1 AAAC122VE	3.2
4 Test plug (red)		-	50	AB1 AT1	1.7
5 "Danger" live terminal covers		4	10	AB1 AACS1JA	0.4
6 Marking Accessories		See pages 6/70 and 6/71			

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6

Terminal blocks

IDC technology

Protective earth

Clip-on mounting on 25 35 mm rails

1 mm²



AB1 AATP135U3

92.1

5

57.5

50

0.2 - 1

-

0.2 - 1

800 V / 8 kV / 3 - 13.5 A

30 - 18 AWG, 600 V, 10 A

24 - 18 AWG, 120 A/45 s

UL, CSA, KEMA

1 mm²



AB1 AATP135U4

119.7

5

79.5

72

0.2 - 1

-

0.2 - 1

500 V / 6 kV / 3 - 13.5 A

30 - 18 AWG, 600 V, 10 A

24 - 18 AWG, 120 A/45 s

UL, CSA, KEMA

Terminal Blocks

No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g
3	50	AB1 AATP135U3	23.2	4	50	AB1 AATP135U4	36.2

Accessories (Dimensions in mm)

-	100	AB1 AB8P35	5.9	-	100	AB1 AB8P35	5.9
-	100	AB1 AB8M35	7.0	-	100	AB1 AB8M35	7.0
-	10	AB1 AAAC123VE	5.7	-	10	AB1 AAAC124VE	10.3
-	50	AB1 AT1	1.7	-	50	AB1 AT1	1.7
4	10	AB1 AACS1JA	0.4	4	10	AB1 AACS1JA	0.4

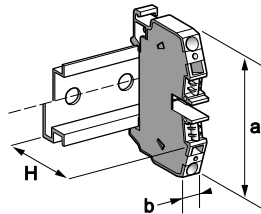
Terminal blocks

IDC technology
Protective earth

Clip-on mounting on 25 or 35 mm rails

Nominal c.s.a.

2.5 mm²



AB1 AATP235U2

Dimensions in mm

Length	a	67
Width	b	6
Height with AM1 ED	25	57.5
Height with AM1 DE	35	50

Cabling c.s.a. in mm²

Flexible cable without cable end	1 - 2.5
Flexible cable with cable end	0.5 - 1.5
Solid core cable	1 - 2.5

Nominal Electrical Values

IEC 947-7-1	800 V / 8 kV / 3 - 24 A
UL-Data (gauge, V, A)	18 - 14 AWG, 600 V, 13 A
CSA-Data (gauge, A short duration)	16 - 14 AWG, 300 A/45 s

Approvals

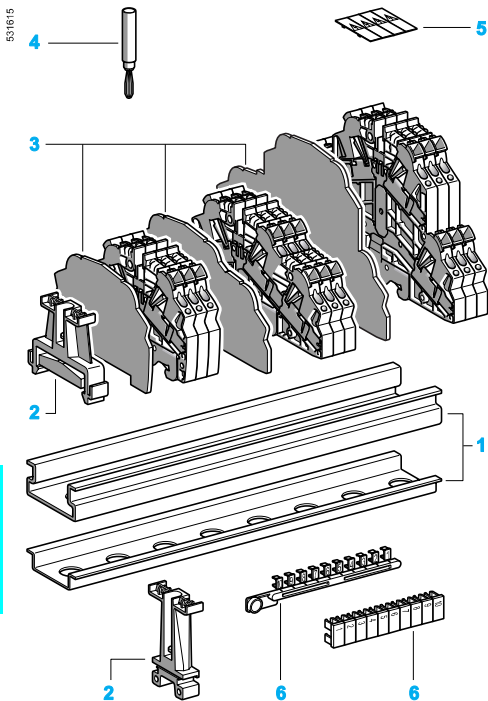
Obtained under the marking type WKC x/35	UL, CSA, KEMA
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Terminal blocks

	No. points	Sold in lots of	Unit Reference	Weight g
Green/Yellow	2	100	AB1 AATP235U2	20.0

Accessories (Dimensions in mm)

2 Plastic end stop	Width 8 on 25 or 35	—	100	AB1 AB8P35	5.9
2 Metal end stop	Width 8 on 25 or 35	—	100	AB1 AB8M35	7.0
3 End plate	Green (thickness 1.5)	—	10	AB1 AAAC122VE	4.4
4 Test plug (red)		—	50	AB1 AT1	1.7
5 "Danger" live terminal covers		4	10	AB1 AACS1JA	0.4
6 Marking Accessories		See pages 6/70 and 6/71			



Terminal blocks

IDC technology

Protective earth

Clip-on mounting on 2.5 35 mm rails

2.5 mm²



AB1 AATP235U3

92.1

6

57.5

50

1 - 2.5

0.5 - 1.5

1 - 2.5

800 V / 8 kV / 3 - 24 A

18 - 14 AWG, 600 V, 10 A

16 - 14 AWG, 300 A/45 s

UL, CSA, KEMA

2.5 mm²



AB1 AATP235U4

119.7

6

79.5

72

1 - 2.5

0.5 - 1.5

1 - 2.5

500 V / 6 kV / 3 - 24 A

18 - 14 AWG, 600 V, 10 A

16 - 14 AWG, 300 A/45 s

UL, CSA, KEMA

Terminal Blocks

No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g
3	50	AB1 AATP235U3	24.8	4	50	AB1 AATP235U4	39.7

Accessories (Dimensions in mm)

-	100	AB1 AB8P35	5.9	-	100	AB1 AB8P35	5.9
-	100	AB1 AB8M35	7.0	-	100	AB1 AB8M35	7.0
-	10	AB1 AAAC123VE	5.7	-	10	AB1 AAAC124VE	10.3
-	50	AB1 AT1	1.7	-	50	AB1 AT1	1.7
4	10	AB1 AACS1JA	0.4	4	10	AB1 AACS1JA	0.4

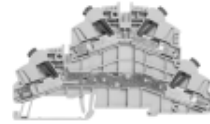
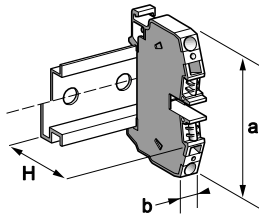
Terminal blocks

IDC technology
Double deck

Clip-on mounting on 25 or 35 mm rails

Nominal c.s.a.

1 mm²



AB1 AAET135UGR

Dimensions in mm

Length	a	119.7
Width	b	5
Height with AM1 ED	25	79.5
Height with AM1 D	35	72

Cabling c.s.a. in mm²

Flexible cable without cable end	0.2 - 1
Flexible cable with cable end	-
Solid core cable	0.2 - 1

Nominal Electrical Values (1)

IEC 947-7-1	500 V / 6 kV / 3 - 13.5 A
UL-Data (gauge, V, A)	30 - 18 AWG, 600 V, 10 A
CSA-Data (gauge, V, A)	24 - 18 AWG, 600 V, 7 A

Approvals

Obtained under the marking type WKC x35	UL, CSA, KEMA
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Terminal Blocks

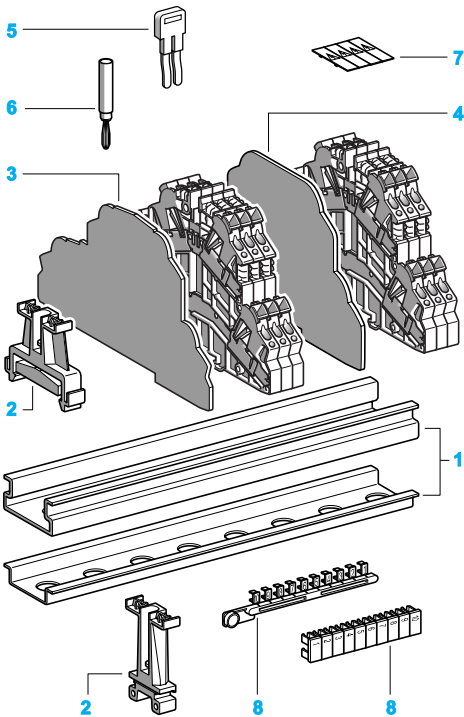
	No. points	Sold in lots of	Unit Reference	Weight g
2 In, 2 Out	2/2	50	AB1 AAET135UGR	28.6
Red	-	-	-	-
Orange	-	-	-	-
24 V Red LED	Red	-	-	-
Red LED	Orange	-	-	-

Accessories (Dimensions in mm)

2	Plastic end stop	Width 8 on 25 or 35	-	100	AB1 AB8P35	5.9
2	Metal end stop	Width 8 on 25 or 35	-	100	AB1 AB8M35	7.0
3	End plates	Grey (thickness 1.5)	-	10	AB1 AAAC124GR	10.3
4	Partition plate	Grey (thickness 1.5)	-	10	AB1 AAAS124GR	11.5
5	Insulated common connector comb	2 pole	-	10	AB1 RRAL22	1.1
		3 pole	-	10	AB1 RRAL23	1.6
		4 pole	-	10	AB1 RRAL24	2.1
		5 pole	-	10	AB1 RRAL25	2.7
		10 pole	-	20	AB1 RRAL210	5.4
6	Test plug (red)		-	50	AB1 AT1	1.7
7	"Danger" live terminal covers		4	10	AB1 AAC1JA	0.4
8	Marking Accessories		See pages 6/70 and 6/71			

(1) The voltage/current carrying capacity is determined by the component LED used (if any).

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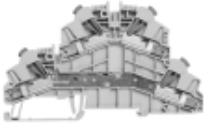


6

Terminal blocks

IDC technology
Double deck

Clip-on mounting on 2.5 35 mm
2.5 mm²



AB1 AAET235

119.7

6

79.5

72

1 - 2.5

0.5 - 1.5

1 - 2.5

500 V / 6 kV / 3 - 24 A

18 - 14 AWG, 600 V, 10 A (2)

16 - 14 AWG, 600 V, 20 A (2)

UL, CSA (pending), KEMA

Terminal Blocks

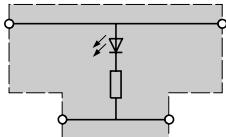
No. points	Sold in lots of	Unit Reference	Weight g
2/2	50	AB1 AAET235UGR	32.5
2/2	50	AB1 AAET235URO	32.5
2/2	50	AB1 AAET235UGE	32.5
4	50	AB1 AAET235UBRO	31.5
4	50	AB1 AAET235UBGE	31.5

Accessories (Dimensions in mm)

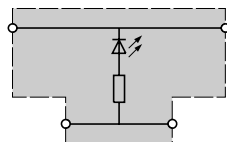
-	100	AB1 AB8P35	5.9
-	100	AB1 AB8M35	7.0
-	10	AB1 AAAC124GR	10.3
-	10	AB1 AAAS124BL	11.5
-	10	AB1 RRAL22	1.1
-	10	AB1 RRAL23	1.6
-	10	AB1 RRAL24	2.1
-	10	AB1 RRAL25	2.7
-	20	AB1 RRAL210	5.4
-	50	AB1 AT1	1.7
4	10	AB1 AACS1JA	0.4

Schemes

AB1 ET235UBRO
(R= 2,2 k Ω , 0,35 W, 24 V d.c.)



AB1 ET235UBGE
(R= 2,2 k Ω , 0,35 W, 24 V d.c.)



(2) UL/CSA pending for terminal blocks AB1AAET235UBRO and AB1AAET235UBGE.

Terminal blocks

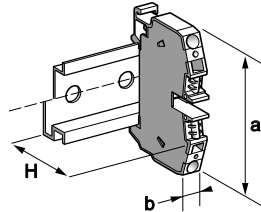
IDC technology

Disconnect

Clip-on mounting 2.5 or 3.5 mm rails

Nominal c.s.a.

1 mm²



AB1 AASC135U●●

Dimensions in mm

Length	a	92.1
Width	b	6
Height with AM1 ED● 2.5		57.5
Height with AM1 D●● 3.5		50

Cabling c.s.a. in mm²

Flexible cable without cable end	0.2 - 1
Flexible cable with cable end	-
Solid core cable	0.2 - 1

Nominal Electrical Values

IEC 947-7-1	800 V / 8 kV / 3 - 13.5 A
UL-Data (gauge, V, A)	30 - 18 AWG, 600 V, 10 A
CSA-Data (gauge, V, A)	24 - 18 AWG, 300 V, 7 A

Approvals

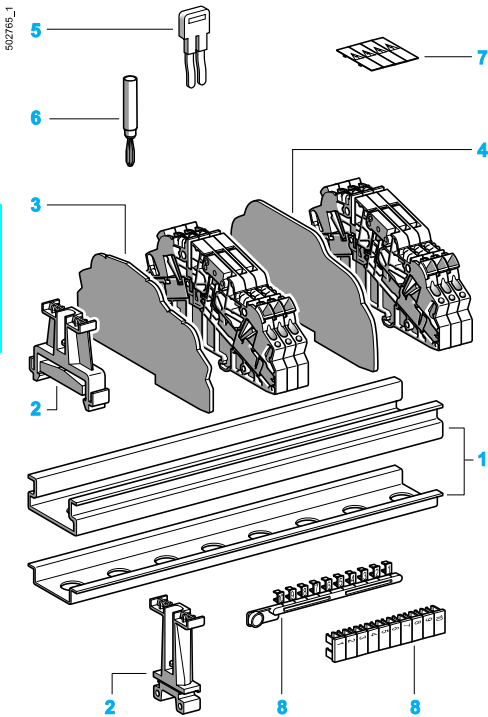
Obtained under the marking type WKC x/35	UL, CSA, KEMA
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Terminal Blocks

	No. points	Sold in lots of	Unit Reference	Weight g
Grey	2	50	AB1 AASC135UGR	19.1
Blue	2	50	AB1 AASC135UBL	19.1

Accessories (Dimensions in mm)

2 Plastic end stop	Width 8 on 2.5 or 3.5	-	100	AB1 AB8P35	5.9
2 Metal end stop	Width 8 on 2.5 or 3.5	-	100	AB1 AB8M35	7.0
3 End plates (thickness 1.5)	Grey	-	10	AB1 AAAC123GR	5.7
	Blue	-	10	AB1 AAAC123BL	5.7
4 Partition plate (thickness 1.5)	Grey	-	10	AB1 AAAS123GR	7.1
	Blue	-	10	AB1 AAAS123BL	7.1
5 Insulated common connector comb	2 pole	-	10	AB1 RRAL22	1.1
	3 pole	-	10	AB1 RRAL23	1.6
	4 pole	-	10	AB1 RRAL24	2.1
	5 pole	-	10	AB1 RRAL25	2.7
	10 pole	-	20	AB1 RRAL210	5.4
6 Test plug (red)		-	50	AB1 AT1	1.7
7 "Danger" live terminal covers		4	10	AB1 AACS1JA	0.4
8 Marking Accessories		See pages 6/70 and 6/71			



6

Terminal blocks

IDC technology
Disconnect

Clip-on mounting 2.5 35 mm
2.5 mm²



AB1 AASC235U●●

92.1

6

57.5

50

1 - 2.5

0.5 - 1.5

1 - 2.5

800 V / 8 kV / 3 - 20 A

18 - 14 AWG, 600 V, 10 A

16 - 14 AWG, 300 V, 17 A

UL, CSA, KEMA

Terminal Blocks

No. points	Sold in lots of	Unit Reference	Weight g
2	50	AB1 AASC235UGR	19.7
2	50	AB1 AASC235UBL	19.7

Accessories (Dimensions in mm)

-	100	AB1 AB8P35	5.9
-	100	AB1 AB8M35	7.0
-	10	AB1 AAAC123GR	5.7
-	10	AB1 AAAC123BL	5.7
-	10	AB1 AAAS123GR	7.1
-	10	AB1 AAAS123BL	7.1
-	10	AB1 RRAL22	1.1
-	10	AB1 RRAL23	1.6
-	10	AB1 RRAL24	2.1
-	10	AB1 RRAL25	2.7
-	20	AB1 RRAL210	5.4
-	50	AB1 AT1	1.7
4	10	AB1 AAC1JA	0.4

Terminal blocks

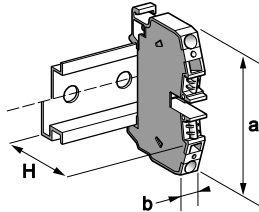
IDC technology

Disconnect (removable carrier) for diode or cylindrical fuse

Clip-on mounting on 2.5 or 3.5 mm rails

Nominal c.s.a.

1 mm²



AB1 AASF135Ue

Dimensions	Length	92.1
	In mm	6
	Width	b
	Height with AM1 ED	57.5 + carrier 19
Cabling	Flexible cable without cable end	0.2 - 1
	Flexible cable with cable end	—
	Solid core cable	0.2 - 1
Nominal Electrical Values (1), (2)	IEC 947-7-1	800 V / 8 kV / 3 - 13.5 A
	UL-Data (gauge, V, A)	30 - 18 AWG, 600 V, 6.3 A
	CSA-Data (gauge, V, A)	24 - 18 AWG, 600 V, 10 A
Approvals	Obtained under the marking type WKC x/35	UL, CSA, KEMA

Terminal Blocks (3)

	No. points	Sold in lots of	Unit Reference	Weight g
Grey	2	50	AB1 AASF135UGR	17.6
Removable carrier	—	100	AB1 SV1	4.5
For diode or resistor (4)	—	100	AB1 SV2	4.5
With diode 1N4007.1	—	100	AB1 SF520	4.5
Removable carrier	—	100	AB1 SF520B	4.5
For fuse with 24 V red LED	—	100	AB1 SF520M	4.5
For fuse with 220 V red LED	—	100	AB1 SF520M	4.5

Accessories (Dimensions in mm)

Plastic end stop	Width 8 on 2.5 or 3.5	—	100	AB1 AB8P35	5.9
Metal end stop	Width 8 on 2.5 or 3.5	—	100	AB1 AB8M35	7.0
End plate (thickness 1.5)	Grey	—	10	AB1 AAAC123GR	5.7
	Blue	—	10	AB1 AAAC123BL	5.7
Partition plate (thickness 1.5)	Grey	—	10	AB1 AAAS123GR	7.1
	Blue	—	10	AB1 AAAS123BL	7.1
Insulated common connector comb	2 pole	—	10	AB1 RRAL22	1.1
	3 pole	—	10	AB1 RRAL23	1.6
	4 pole	—	10	AB1 RRAL24	2.1
	5 pole	—	10	AB1 RRAL25	2.7
	10 pole	—	20	AB1 RRAL210	5.4
Test plug (red)		—	50	AB1 AT1	1.7
"Danger" live terminal covers		4	10	AB1 AAC1JA	0.4
Quick acting fuse, 250 V-UL, 5 x 20	0.5 A	—	10	ABE 7FU050	0.1
	1 A	—	10	ABE 7FU100	0.1
	2 A	—	10	ABE 7FU200	0.1
	6.3 A	—	10	ABE 7FU630	0.1

8 **Marking Accessories** See pages 6/70 and 6/71

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

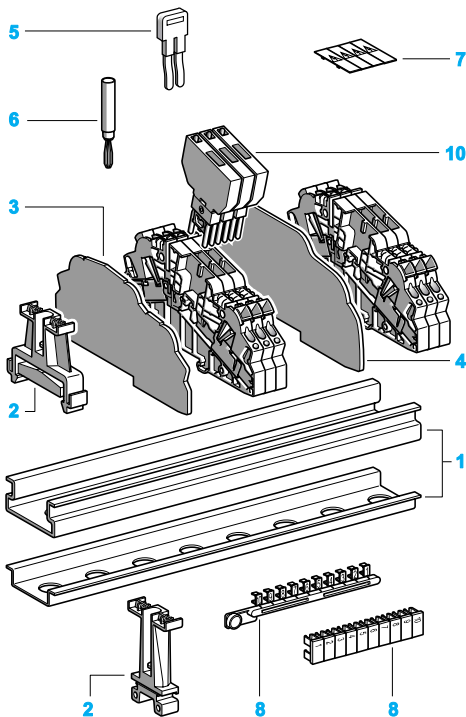
(2) Repetitive peak reverse voltage for diodes is 1000 V.

(3) Fuses and diodes not included, except for AB1 SV2.

(4) See page 6/64 for carrier characteristics.

502764_1

6



Terminal blocks

IDC technology

Disconnect (removable carrier) for diode or cylindrical fuse

Clip-on mounting on 2.5 35 mm rails

2.5 mm²



AB1 AASF235U●●

92.1
6
57.5 + carrier 19
50 + carrier 19
1 - 2.5
0.5 - 1.5
1 - 2.5
800 V / 8 kV / 3 - 20 A
18 - 14 AWG, 600 V, 6.3 A
16 - 14 AWG, 600 V, 10 A

UL, CSA, KEMA

Terminal Blocks

No. points	Sold in lots of	Unit Reference	Weight g
2	50	AB1 AASF235UGR	17.2
-	100	AB1 SV1	4.5
-	100	AB1 SV2	4.5
-	100	AB1 SF520	4.5
-	100	AB1 SF520B	4.5
-	100	AB1 SF520M	4.5

Accessories (Dimensions in mm)

-	100	AB1 AB8P35	5.9
-	100	AB1 AB8M35	7.0
-	10	AB1 AAAC123GR	5.7
-	10	AB1 AAAC123BL	5.7
-	10	AB1 AAAS123GR	7.1
-	10	AB1 AAAS123BL	7.1
-	10	AB1 RRAL22	1.1
-	10	AB1 RRAL23	1.6
-	10	AB1 RRAL24	2.1
-	10	AB1 RRAL25	2.7
-	20	AB1 RRAL210	5.4
-	50	AB1 AT1	1.7
4	10	AB1 AACS1JA	0.4
-	10	ABE 7FU050	0.1
-	10	ABE 7FU100	0.1
-	10	ABE 7FU200	0.1
-	10	ABE 7FU630	0.1

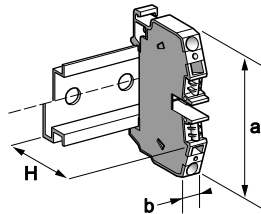
Terminal blocks

Spring technology
Passthrough

Clip-on mounting on 25 or 35 mm rails

Nominal c.s.a.

2.5 mm²



AB1 RR235U2

Dimensions in mm

Length	a	57
Width	b	5
Height with AM1 ED		49.8
Height with AM1 D		42.3

Cabling c.s.a. in mm²

Flexible cable without cable end	0.5 - 2.5
Flexible cable with cable end	0.5 - 1.5
Solid core cable	0.5 - 4

Nominal Electrical Values

IEC 947-7-1	800 V / 8 kV / 3 - 24 A
UL-Data (gauge, V, A)	22 - 12 AWG, 600 V, 20 A
CSA-Data (gauge, V, A)	24 - 12 AWG, 600 V, 25 A
UTE, category C	~ 500 V, ~ 500 V
VDE, group C	~ 750 V, ~ 900 V, 26 A

Approvals

Obtained under the marking type WKF x/35
UL, CSA, SEMKO, DEMKO, NEMKO, VDE, OVE, GL, DNV, FI, KEMA, BV, ATEX, RINA, ASE, SEV, LR, LCIE

Terminal Blocks

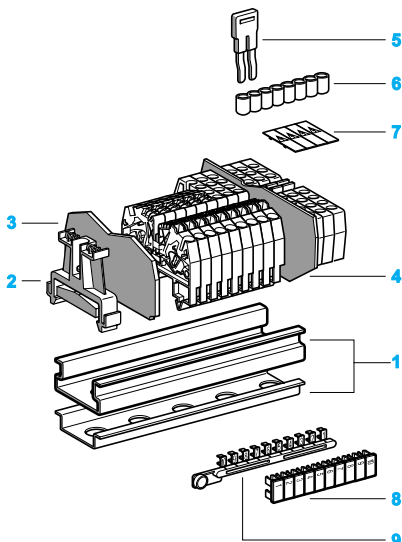
	No. points	Sold in lots of	Unit Reference	Weight g
Grey	2	100	AB1 RR235U2GR	6.9
Blue	2	100	AB1 RR235U2BL	6.9

Accessories (Dimensions in mm)

2	Plastic end stop	Width 8.0 on 25 or 35	-	100	AB1 AB8P35	5.9
2	Metal end stop	Width 8.0 on 25 or 35	-	100	AB1 AB8M35	7.0
3	End plate (thickness 1.5)	Grey	-	10	AB1 RRAC242GR	3.2
		Blue	-	10	AB1 RRAC242BL	3.2
4	Partition plate (thickness 1.5)	Grey	-	10	AB1 RRAS242GR	3.2
		Blue	-	10	AB1 RRAS242BL	3.2
5	Insulated common connector comb	2 pole	-	10	AB1 RRAL22	1.1
		3 pole	-	10	AB1 RRAL23	1.6
		4 pole	-	10	AB1 RRAL24	2.1
		5 pole	-	10	AB1 RRAL25	2.7
		10 pole	-	20	AB1 RRAL210	5.4
6	Wire guide entry strip	0.13 - 0.2 mm ² White	-	100	AB1 RRGF01	0.6
		0.25 - 0.5 mm ² Grey	-	100	AB1 RRGF02	0.6
		0.75 - 1 mm ² Black	-	100	AB1 RRGF03	0.6
7	"Danger" live terminal covers		4	100	AB1 RRCS2	0.2
8/9	Marking Accessories		See pages 6/70 and 6/71			

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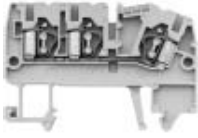
Terminal blocks

Spring technology

Passthrough

Clip-on mounting on 2.5 35 mm rails

2.5 mm²

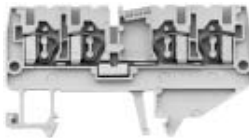


AB1 RR235U3

60.5
5
49.8
42.3
0.5 - 2.5
0.5 - 1.5
0.5 - 4
800 V / 8 kV / 3 - 24 A
22 - 12 AWG, 600 V, 20 A
24 - 12 AWG, 600 V, 25 A
~ 500 V, = 500 V
~ 750 V, = 900 V, 26 A

UL, CSA, SEMKO, DEMKO, NEMKO, VDE, OVE, GL, DNV, FI, KEMA, BV, ATEX, RINA, ASE, SEV, LR, LCIE

2.5 mm²



AB1 RR235U4

76.5
5
49.8
42.3
0.5 - 2.5
0.5 - 1.5
0.5 - 4
800 V / 8 kV / 3 - 24 A
22 - 12 AWG, 600 V, 20 A
24 - 12 AWG, 600 V, 25 A
~ 500 V, = 500 V
~ 750 V, = 900 V, 26 A

UL, CSA, SEMKO, DEMKO, NEMKO, VDE, OVE, GL, DNV, FI, KEMA, BV, ATEX, RINA, ASE, SEV, LR, LCIE

4 mm²



AB1 RR435U2

57
6
49.8
42.3
0.5 - 4
0.5 - 2.5
0.5 - 6
800 V / 8 kV / 3 - 32 A
22 - 10 AWG, 600 V, 30 A
22 - 10 AWG, 600 V, 40 A
~ 500 V, = 500 V
~ 750 V, = 900 V, 35 A

UL, CSA, SEMKO, DEMKO, NEMKO, VDE, OVE, GL, DNV, FI, KEMA, BV, ATEX, RINA, ASE, SEV, LR, LCIE

Terminal Blocks

No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g
3	100	AB1 RR235U3GR	7.9	4	100	AB1 RR235U4GR	8.0	2	100	AB1 RR435U2GR	8.8
3	100	AB1 RR235U3BL	7.9	4	100	AB1 RR235U4BL	8.0	2	100	AB1 RR435U2BL	8.8

Accessories (Dimensions in mm)

-	100	AB1 AB8P35	5.9	-	100	AB1 AB8P35	5.9	-	100	AB1 AB8P35	5.9
-	100	AB1 AB8M35	7.0	-	100	AB1 AB8M35	7.0	-	100	AB1 AB8M35	7.0
-	10	AB1 RRAC243GR	3.6	-	10	AB1 RRAC244GR	4.4	-	10	AB1 RRAC242GR	3.2
-	10	AB1 RRAC243BL	3.6	-	10	AB1 RRAC244BL	4.4	-	10	AB1 RRAC242BL	3.2
-	10	AB1 RRAS243GR	3.6	-	10	AB1 RRAS244GR	4.4	-	10	AB1 RRAS242GR	3.2
-	10	AB1 RRAS243BL	3.6	-	10	AB1 RRAS244BL	4.4	-	10	AB1 RRAS242BL	3.2
-	10	AB1 RRAL22	1.1	-	10	AB1 RRAL22	1.1	-	10	AB1 RRAL42	1.6
-	10	AB1 RRAL23	1.6	-	10	AB1 RRAL23	1.6	-	10	AB1 RRAL43	2.4
-	10	AB1 RRAL24	2.1	-	10	AB1 RRAL24	2.1	-	10	AB1 RRAL44	3.2
-	10	AB1 RRAL25	2.7	-	10	AB1 RRAL25	2.7	-	10	AB1 RRAL45	4.0
-	20	AB1 RRAL210	5.4	-	20	AB1 RRAL210	5.4	-	20	AB1 RRAL410	8.0
-	100	AB1 RRGF01	0.6	-	100	AB1 RRGF01	0.6	-	100	AB1 RRGF01	0.6
-	100	AB1 RRGF02	0.6	-	100	AB1 RRGF02	0.6	-	100	AB1 RRGF02	0.6
-	100	AB1 RRGF03	0.6	-	100	AB1 RRGF03	0.6	-	100	AB1 RRGF03	0.6
4	100	AB1 RRCS2	0.2	4	100	AB1 RRCS2	0.2	4	100	AB1 RRCS4	0.3

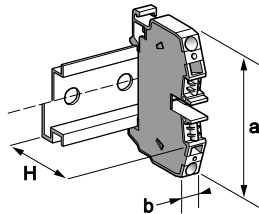
Terminal blocks

Spring technology
Passthrough

Clip-on mounting on 2.5 or 3.5 mm rails

Nominal c.s.a.

4 mm²



AB1 RR435U3

Dimensions in mm

Length	a	60.5
Width	b	6
Height with AM1 ED	2.5	49.8
Height with AM1 D	3.5	42.3

Cabling c.s.a. in mm²

Flexible cable without cable end	0.5 - 4
Flexible cable with cable end	0.5 - 2.5
Solid core cable	0.5 - 6

Nominal Electrical Values

IEC 947-7-1	800 V / 8 kV / 3 - 32 A
UL-Data (gauge, V, A)	22 - 10 AWG, 600 V, 30 A
CSA-Data (gauge, V, A)	22 - 10 AWG, 600 V, 40 A
UTE, category C	~ 500 V, = 500 V
VDE, group C	~ 750 V, = 900 V, 35 A

Approvals

Obtained under the marking type WKF x/35	UL, CSA, OVE, ASE, SEV, DNV
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Terminal Blocks

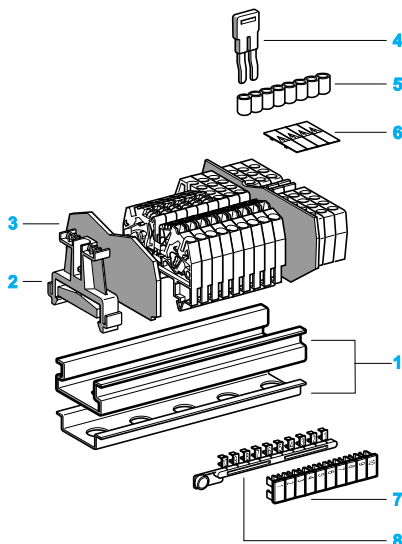
	No. points	Sold in lots of	Unit Reference	Weight g
Grey	3	100	AB1 RR435U3GR	12.0
Blue	3	100	AB1 RR435U3BL	12.0

Accessories (Dimensions in mm)

2	Plastic end stop	Width 8.0 on 2.5 or 3.5	-	100	AB1 AB8P35	5.9	
2	Metal end stop	Width 8.0 on 2.5 or 3.5	-	100	AB1 AB8M35	7.0	
3	End plate (thickness 1.5)	Grey	-	10	AB1 RRAC443GR	4.0	
3		Blue	-	10	AB1 RRAC443BL	4.0	
4	Insulated common connector comb	2 pole	-	10	AB1 RRAL42	1.6	
4		3 pole	-	10	AB1 RRAL43	2.4	
4		4 pole	-	10	AB1 RRAL44	3.2	
4		5 pole	-	10	AB1 RRAL45	4.0	
4		10 pole	-	20	AB1 RRAL410	8.0	
5	Wire guide entry strip	0.13 - 0.2 mm ²	White	-	100	AB1 RRGF01	0.6
5		0.25 - 0.5 mm ²	Grey	-	100	AB1 RRGF02	0.6
5		0.75 - 1 mm ²	Black	-	100	AB1 RRGF03	0.6
6	"Danger" live terminal covers		4	100	AB1 RRCS4	0.3	
7/8	Marking Accessories		See pages 6/70 and 6/71				

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Terminal blocks

Spring technology

Passthrough

Clip-on mounting on 25 - 35 mm rails

6 mm²



AB1 RR635U2

61
8
52.6
45.1

0.5 - 6

0.5 - 6

0.5 - 6

800 V / 8 kV / 3 - 41 A
24 - 8 AWG, 600 V, 40 A
20 - 10 AWG, 600 V
~ 500 V, = 500 V
~ 750 V, = 900 V, 44 A

UL, CSA, SEV

10 mm²



AB1 RR1035U2

70
10
55
47.5

2.5 - 10

2.5 - 10

2.5 - 10

800 V / 8 kV / 3 - 57 A
24 - 6 AWG, 600 V, 55 A
14 - 8 AWG, 600 V
~ 500 V, = 500 V
~ 750 V, = 900 V, 63 A

UL, CSA, SEV, LR

16 mm²



AB1 RR1635U2

82
12
55.2
47.7

4 - 16

4 - 16

4 - 16

800 V / 8 kV / 3 - 76 A
24 - 4 AWG, 600 V, 75 A
12 - 6 AWG, 600 V
~ 500 V, = 500 V
~ 750 V, = 900 V, 85 A

UL, CSA, SEV

Terminal Blocks

No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g
2	100	AB1 RR635U2GR	16.0	2	50	AB1 RR1035U2GR	24.0	2	50	AB1 RR1635U2GR	34.0
2	100	AB1 RR635U2BL	16.0	2	50	AB1 RR1035U2BL	24.0	2	50	AB1 RR1635U2BL	34.0

Accessories (Dimensions in mm)

-	100	AB1 AB8P35	5.9	-	100	AB1 AB8P35	5.9	-	100	AB1 AB8P35	5.9
-	100	AB1 AB8M35	7.0	-	100	AB1 AB8M35	7.0	-	100	AB1 AB8M35	7.0
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	10	AB1 RRAL62	2.7	-	10	AB1 RRAL102	6.1	-	10	AB1 RRAL162	10.0
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	100	AB1 RRGF01	0.6	-	-	-	-	-	-	-	-
-	100	AB1 RRGF02	0.6	-	-	-	-	-	-	-	-
-	100	AB1 RRGF03	0.6	-	-	-	-	-	-	-	-
4	10	AB1 RRCS6	1.1	4	10	AB1 RRCS10	1.2	4	10	AB1 RRCS16	1.3

6

Terminal blocks

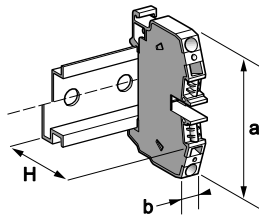
Spring technology

Protective earth, spring clamp type

Clip-on mounting on 25 or 35 mm rails

Nominal c.s.a.

2.5 mm²



AB1 RRTP235U2

Dimensions in mm

Length	a
Width	b
Height with AM1 ED	49.8
Height with AM1 DE	42.3

Cabling c.s.a. in mm²

Flexible cable without cable end	0.5 - 2.5
Flexible cable with cable end	0.5 - 1.5
Solid core cable	0.5 - 4

Nominal Electrical Values

IEC 947-7-1	800 V / 8 kV / 3 - 24 A
UL-Data (gauge, V, A)	22 - 12 AWG, 600 V, 20 A
CSA-Data (gauge, V, A)	24 - 12 AWG, 600 V, 25 A
UTE, category C	~ 500 V, = 500 V
VDE, group C	~ 750 V, = 900 V, 26 A

Approvals

Obtained under the marking type WKF x/35

UL, CSA, SEMKO, DEMKO, NEMKO, VDE, OVE, GL, DNV, FI, KEMA, BV, ATEX, RINA, ASE, SEV, LR, LCIE

Terminal Blocks

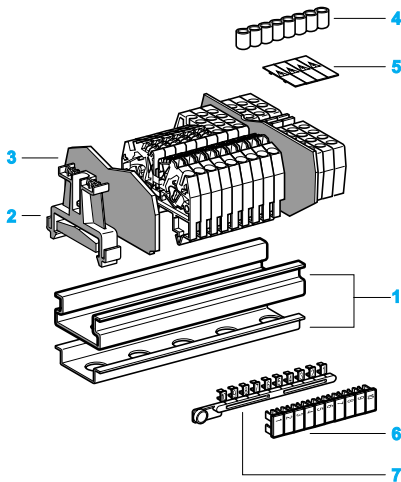
	No. points	Sold in lots of	Unit Reference	Weight g
Green/yellow	2	100	AB1 RRTP235U2	12.8

Accessories (Dimensions in mm)

2	Plastic end stop	Width 8.0 on 25 or 35	—	100	AB1 AB8P35	5.9
2	Metal end stop	Width 8.0 on 25 or 35	—	100	AB1 AB8M35	7.0
3	End plate	Green (thickness 1,5)	—	10	AB1 RRTPAC242	3.2
		Green (thickness 2)	—	—	—	—
4	Wire guide entry strip	0.13 - 0.2 mm ² White	—	100	AB1 RRGF01	0.6
		0.25 - 0.5 mm ² Grey	—	100	AB1 RRGF02	0.6
		0.75 - 1 mm ² Black	—	100	AB1 RRGF03	0.6
5	"Danger" live terminal covers		4	100	AB1 RRCS2	0.2
6/7	Marking Accessories		See pages 6/70 and 6/71			

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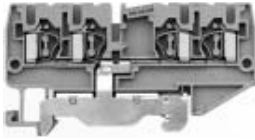
Terminal blocks

Spring technology

Protective earth, spring clamp type

Clip-on mounting on 2.5 - 35 mm rails

2.5 mm²



AB1 RRTP235U4

76.5
5
49.8
42.3

0.5 - 2.5

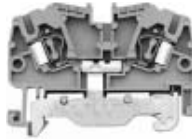
0.5 - 1.5

0.5 - 4

800 V / 8 kV / 3 - 24 A
22 - 12 AWG, 600 V, 20 A
24 - 12 AWG, 600 V, 25 A
~ 500 V, = 500 V
~ 750 V, = 900 V, 26 A

UL, CSA, SEMKO, DEMKO, NEMKO, VDE, OVE, GL, DNV, FI, KEMA, BV, ATEX, RINA, ASE, SEV, LR, LCIE

4 mm²



AB1 RRTP435U2

57
6
49.8
42.3

0.5 - 4

0.5 - 2.5

0.5 - 6

800 V / 8 kV / 3 - 32 A
22 - 10 AWG, 600 V, 30 A
22 - 10 AWG, 600 V, 40 A
~ 500 V, = 500 V
~ 750 V, = 900 V, 35 A

UL, CSA, SEMKO, DEMKO, NEMKO, VDE, OVE, GL, DNV, FI, KEMA, BV, ATEX, RINA, ASE, SEV, LR, LCIE

4 mm²



AB1 RRTP435U3

60.5
6
49.8
42.3

0.5 - 4

0.5 - 2.5

0.5 - 6

800 V / 8 kV / 3 - 32 A
22 - 10 AWG, 600 V, 30 A
22 - 10 AWG, 600 V, 40 A
~ 500 V, = 500 V
~ 750 V, = 900 V, 35 A

UL, CSA, OVE, ASE, SEV, DNV

Terminal Blocks

No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g
4	100	AB1 RRTP235U4	16.2	2	100	AB1 RRTP435U2	14.7	3	100	AB1 RRTP435U3	12.0
Accessories (Dimensions in mm)											
-	100	AB1 AB8P35	5.9	-	100	AB1 AB8P35	5.9	-	100	AB1 AB8P35	5.9
-	100	AB1 AB8M35	7.0	-	100	AB1 AB8M35	7.0	-	100	AB1 AB8M35	7.0
-	10	AB1 RRTPAC244	4.4	-	10	AB1 RRTPAC242	3.2	-	10	AB1 RRTPAC243	4.0
-	-	-	-	-	-	-	-	-	-	-	-
-	100	AB1 RRGF01	0.6	-	100	AB1 RRGF01	0.6	-	100	AB1 RRGF01	0.6
-	100	AB1 RRGF02	0.6	-	100	AB1 RRGF02	0.6	-	100	AB1 RRGF02	0.6
-	100	AB1 RRGF03	0.6	-	100	AB1 RRGF03	0.6	-	100	AB1 RRGF03	0.6
4	100	AB1 RRCS2	0.2	4	100	AB1 RRCS4	0.2	4	100	AB1 RRCS4	0.3

Terminal blocks

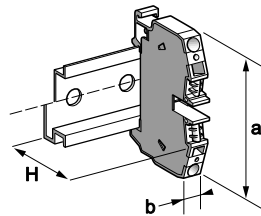
Spring technology

Protective earth, spring clamp type

Clip-on mounting on 25 or 35 mm rails

Nominal c.s.a.

6 mm²



AB1 RRTP635U2

Dimensions in mm

Length	a
Width	b
Height with AM1 ED	52.6
Height with AM1 DE	45.1

Cabling c.s.a. in mm²

Flexible cable without cable end	0.5 - 6
Flexible cable with cable end	0.5 - 6
Solid core cable	0.5 - 6

Nominal Electrical Values

IEC 947-7-1	800 V / 8 kV / 3 - 41 A
UL-Data (gauge, V, A)	24 - 8 AWG, 600 V, 40 A
CSA-Data (gauge, V, A)	22 - 10 AWG, 600 V
UTE, category C	~ 500 V, = 500 V
VDE, group C	~ 750 V, = 900 V, 44 A

Approvals

Obtained under the marking type WKF x/35	UL, CSA, SEV
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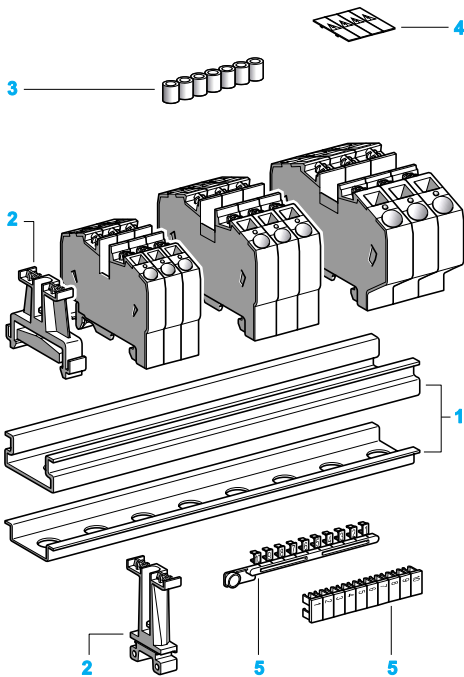
Terminal Blocks

	No. points	Sold in lots of	Unit Reference	Weight g
Green/yellow	2	100	AB1 RRTP635U2	25.0

Accessories (Dimensions in mm)

2 Plastic end stop	Width 8.0 on 25 or 35	-	100	AB1 AB8P35	5.9	
2 Metal end stop	Width 8.0 on 25 or 35	-	100	AB1 AB8M35	7.0	
3 Wire guide entry strip	0.13 - 0.2 mm ²	White	-	100	AB1 RRGF01	0.6
	0.25 - 0.5 mm ²	Grey	-	100	AB1 RRGF02	0.6
	0.75 - 1 mm ²	Black	-	100	AB1 RRGF03	0.6
4 "Danger" live terminal covers		4	10	AB1 RRCS6	0.4	
5 Marking Accessories		See pages 6/70 and 6/71				

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Terminal blocks

Spring technology

Protective earth, spring clamp type

Clip-on mounting on 2.5 - 35 mm rails

10 mm²



AB1 RRTP1035U2

70

10

55

47.5

2.5 - 10

2.5 - 10

2.5 - 10

800 V / 8 kV / 3 - 57 A

24 - 6 AWG, 600 V, 55 A

14 - 8 AWG, 600 V

~ 500 V, --- 500 V

~ 750 V, --- 900 V, 63 A

UL, CSA, SEV

16 mm²



AB1 RRTP1635U2

82

12

55.2

47.7

4 - 16

4 - 16

4 - 16

800 V / 8 kV / 3 - 76 A

24 - 4 AWG, 600 V, 75 A

12 - 6 AWG, 600 V

~ 500 V, --- 500 V

~ 750 V, --- 900 V, 85 A

UL, CSA, SEV

Terminal Blocks

No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g
2	50	AB1 RRTP1035U2	32.0	2	50	AB1 RRTP1635U2	46.0

Accessories (Dimensions in mm)

-	100	AB1 AB8P35	5.9	-	100	AB1 AB8P35	5.9
-	100	AB1 AB8M35	7.0	-	100	AB1 AB8M35	7.0
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
4	10	AB1 RRCS10	0.8	4	10	AB1 RRCS16	1.2

Terminal blocks

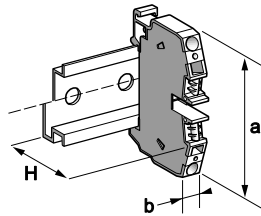
Spring technology

Double deck, spring clamp type

Clip-on mounting on 25 or 35 mm rails

Nominal c.s.a.

1.5 mm²



AB1 RRET1535UGR

Dimensions in mm

Length	a	83.35
Width	b	5
Height with AM1 ED	25	59
Height with AM1 DE	35	51

Cabling c.s.a. in mm²

Flexible cable without cable end	0.13 - 1.5
Flexible cable with cable end	-
Solid core cable	0.13 - 1.5

Nominal Electrical Values

IEC 947-7-1	400 V / 6 kV / 3 - 17.5 A
UL-Data (gauge, V, A)	30 - 14 AWG, 300 V, 15 A
CSA-Data (gauge, V, A)	24 - 14 AWG, 300 V
UTE, category C	~ 300 V, = 300 V
VDE, group C	~ 500 V, = 750 V, 16 A

Approvals

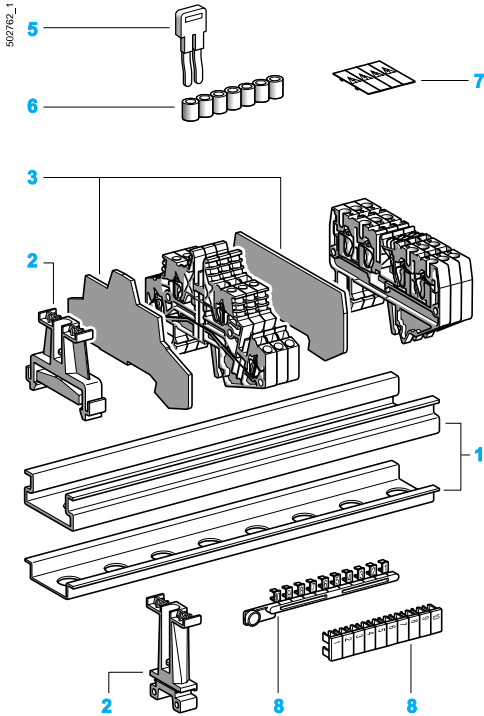
Obtained under the marking type WKF x/35	UL, CSA
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Terminal Blocks

	No. points	Sold in lots of	Unit Reference	Weight g
Grey	2 / 2	100	AB1 RRET1535UGR	11.0
Black	-	-	-	-

Accessories (Dimensions in mm)

2	Plastic end stop	Width 8.0 on 25 or 35	-	100	AB1 AB8P35	5.9
2	Metal end stop	Width 8.0 on 25 or 35	-	100	AB1 AB8M35	7.0
3	End plate	Grey (thickness 1.5)	-	10	AB1 RRETAC15	4.3
4	Insulated common connector comb	2 pole	-	10	AB1 RRAL22	1.1
		3 pole	-	10	AB1 RRAL23	1.6
		4 pole	-	10	AB1 RRAL24	2.1
		5 pole	-	10	AB1 RRAL25	2.7
		10 pole	-	20	AB1 RRAL210	5.4
6	Wire guide entry strip	0.13 - 0.2 mm ² White	-	100	AB1 RRGF01	0.6
		0.25 - 0.5 mm ² Grey	-	100	AB1 RRGF02	0.6
		0.75 - 1 mm ² Black	-	-	-	-
7	"Danger" live terminal covers		-	-	-	-
8	Marking Accessories		See pages 6/70 and 6/71			



6

Terminal blocks

Spring technology
Double deck, spring clamp type

Clip-on mounting on 2.5 35 mm rails
2.5 mm²



AB1 RRET2535UNO

76.5

5

60

52.5

0.5 - 2.5

0.5 - 1.5

0.5 - 4

800 V / 8 kV / 3 - 24 A

22 - 12 AWG, 600 V, 20 A

24 - 12 AWG, 600 V, 25 A

~ 500 V, --- 500 V

~ 750 V, --- 900 V, 26 A

UL, CSA, SEMKO, DEMKO, NEMKO, GL, OVE,
ASE, SEV, ATEX, DNV, KEMA, FI, LR, LCIE, BV,
RINA

Terminal Blocks

No. points	Sold in lots of	Unit Reference	Weight g
2 / 2	100	AB1 RRET2535UNO	12.0

Accessories (Dimensions in mm)

—	100	AB1 AB8P35	5.9
—	100	AB1 AB8M35	7.0
—	10	AB1 RRAC244GR	4.4
—	10	AB1 RRAL22	1.1
—	10	AB1 RRAL23	1.6
—	10	AB1 RRAL24	2.1
—	10	AB1 RRAL25	2.7
—	20	AB1 RRAL210	5.4
—	100	AB1 RRGF01	0.6
—	100	AB1 RRGF02	0.6
—	100	AB1 RRCF03	0.6
4	100	AB1 RRCS2	0.2

Terminal blocks

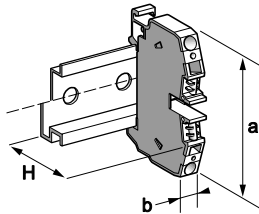
Spring technology

Disconnect, spring clamp type

Clip-on mounting on 25 or 35 mm rails

Nominal c.s.a.

4 mm²



AB1 RRSC435UGR

Dimensions in mm

Length	a	72.5
Width	b	6
Height with AM1 ED		49.8 + open switch, Knife switch 11.2
Height with AM1 DE		42.3 + open switch, Knife switch 11.2

Cabling c.s.a. in mm²

Flexible cable without cable end	0.5 - 4
Flexible cable with cable end	0.5 - 2.5
Solid core cable	0.5 - 6

Nominal Electrical Values

IEC 947-7-1	800 V / 8 kV / 3 - 16 A
UL-Data (gauge, V, A)	22 - 10 AWG, 600 V, 20 A
CSA-Data (gauge, V, A)	22 - 10 AWG, 600 V, 20 A
UTE, category C	~ 500 V, = 500 V
VDE, group C	~ 750 V, = 900 V, 18 A

Approvals

Obtained under the marking type WKF x/35	UL, CSA
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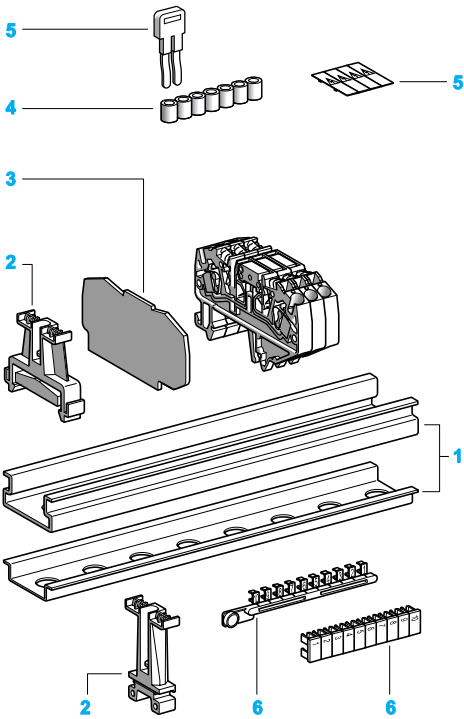
Terminal Blocks

	No. points	Sold in lots of	Unit reference	Weight g
Grey	2	100	AB1 RRSC435UGR	11.0

Accessories (Dimensions in mm)

2	Plastic end stop	Width 8.0 on 25 or 35	-	100	AB1 AB8P35	5.9	
2	Metal end stop	Width 8.0 on 25 or 35	-	100	AB1 AB8M35	7.0	
3	End plate	Grey (thickness 1.5)	-	10	AB1 RRSCAC4	4.4	
5	Insulated common connector comb	2 pole	-	10	AB1 RRAL42	1.6	
		3 pole	-	10	AB1 RRAL43	2.4	
		4 pole	-	10	AB1 RRAL44	3.2	
		5 pole	-	10	AB1 RRAL45	4.0	
		10 pole	-	20	AB1 RRAL410	8.0	
4	Wire guide entry strip	0.13 - 0.2 mm ²	White	-	100	AB1 RRGF01	0.6
		0.25 - 0.5 mm ²	Grey	-	100	AB1 RRGF02	0.6
		0.75 - 1 mm ²	Black	-	100	AB1 RRGF03	0.6
5	"Danger" live terminal covers		4	100	AB1 RRCS4	0.3	
6	Marking Accessories		See pages 6/70 and 6/71				

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6

Terminal blocks

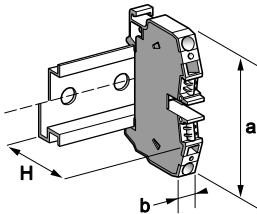
Spring technology

Disconnect (removable carrier) for diode or cylindrical fuse, spring clamp type

Clip-on mounting on 25 or 35 mm rails

Nominal c.s.a.

4 mm²



AB1 RRSF435U

Dimensions in mm

Length	a	69.5
Width	b	6
Height with AM1 EDO 2.5		49.8 + carrier 19
Height with AM1 DDO 2.5		42.3 + carrier 19

Cabling c.s.a. in mm²

Flexible cable without cable end	0.5 - 4
Flexible cable with cable end	0.5 - 2.5
Solid core cable	0.5 - 6

Nominal Electrical Values (1), (2)

IEC 947-7-1	800 V / 8 kV / 3 - 16 A
UL-Data (gauge, V, A)	22 - 12 AWG, 300 V, 10 A
CSA-Data	22 - 10 AWG, 250 V, 6.3 A
UTE, category C	~ 500 V, ~ 500 V
VDE, group C	~ 750 V, ~ 900 V, 10 A

Approvals

Obtained under the marking type WKF x/35	UL, CSA
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Terminal Blocks (3)

	No. points	Sold in lots of	Unit reference	Weight g
Grey	2	100	AB1 RRSF435U	9.8
Removable Carrier		100	AB1 SV1	4.5
With diode 1N4007.1		100	AB1 SV2	4.5
Removable Carrier, (5 x 20 fuse)		100	AB1 SF520	4.5
For fuse with 24 V red LED		100	AB1 SF520B	4.5
For fuse with 220 V red LED		100	AB1 SF520M	4.5

Accessories (Dimensions in mm)

	Width	No. points	Sold in lots of	Unit reference	Weight g	
Plastic end stop	8.0 on 25 or 35		100	AB1 AB8P35	5.9	
Metal end stop	8.0 on 25 or 35		100	AB1 AB8M35	7.0	
End plate	Grey (thickness 1.5)		10	AB1 RRPS4	3.2	
Wire guide entry strip	0.13 - 0.2 mm ²		100	AB1 RRGF01	0.6	
	0.25 - 0.5 mm ²	White		100	AB1 RRGF02	0.6
	0.75 - 1 mm ²	Black		100	AB1 RRGF03	0.6
"Danger" live terminal covers		4	100	AB1 RRCSD41	0.3	
Quick acting fuse 250 V-UL, 5 x 20	0,5 A		10	ABE 7FU050	0.1	
	1 A		10	ABE 7FU100	0.1	
	2 A		10	ABE 7FU200	0.1	
	6,3 A		10	ABE 7FU630	0.1	

Marking accessories

See pages 6/70 and 6/71

Characteristics of Carrier

Nominal voltage	Nominal current (Power loss 1.5 W)	
	Single terminal	Juxtaposed
250 V	6.3 A	4 A

Characteristics of blown fuse indicators

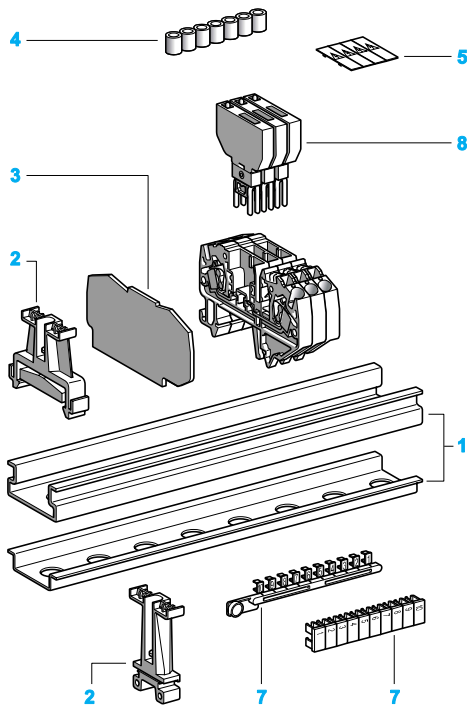
AB1 SF520B	Current consumption	AB1 SF520M	Current consumption
24 V	10.3 mA	220 - 250 V	0.3 mA

(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 AB1 SV2.

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Terminal blocks

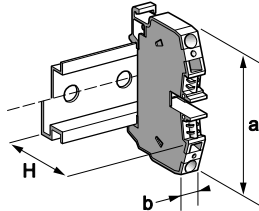
Screw technology

Passthrough, screw clamp type

Clip-on mounting on 25 or 35 mm rails

Nominal c.s.a.

2.5 mm²



AB1 VV235U

Dimensions		a
In mm	Length	40
	Width	5
	Height with AM1 ED	56
	Height with AM1 D	48.5
Height with DZ5 MB		53
	Cabling c.s.a. in mm²	
	Flexible cable without cable end	0.5 - 2.5
Flexible cable with cable end	0.5 - 1.5	
Solid core cable	0.5 - 4	
Nominal Electrical Values		
IEC 947-7-1		800 V / 8 kV / 3 - 24 A
UL-Data (gauge, V, A)		22 - 12 AWG, 600 V, 20 A
CSA-Data (gauge, V, A)		24 - 12 AWG, 600 V, 25 A
UTE, category C		~ 500 V, = 500 V
VDE, group C		~ 750 V, = 900 V, 26 A
Approvals Obtained under the marking type WK x/35		UL, CSA, SEMKO, DEMKO, NEMKO, GL, VDE, OVE, ASE, SEV, ATEX, DNV, KEMA, FI, LR, LCIE, CEBEC, MEEI, EZU, SKTC, BKI-EEX

Terminal Blocks

	No. points	Sold in lots of	Unit Reference	Weight g
Grey	-	100	AB1 VV235U	6.5
Blue	-	100	AB1 VV235UBL	6.5
Orange	-	100	AB1 VV235UGE	6.5
Red	-	-	-	-
Green	-	-	-	-
White	-	-	-	-
Black	-	-	-	-

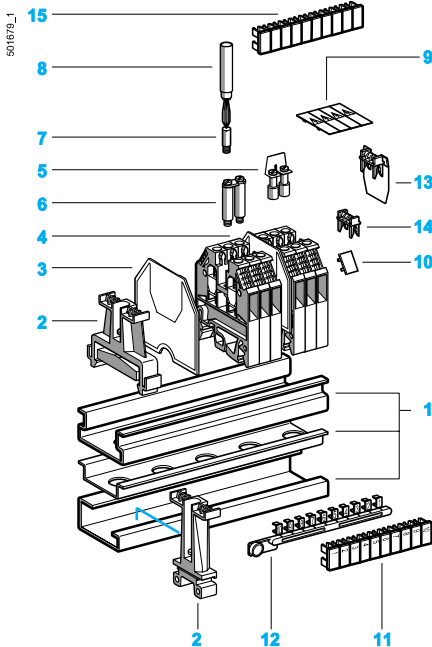
Accessories (Dimensions in mm)

2	Plastic end stops	Width 7,5 on 25 or 35	-	100	AB1 AB7P32	4.2
		Width 8 on 25 or 35	-	100	AB1 AB8P35	5.9
2	Metal end stops	Width 10 on 25 or 35	-	100	AB1 AB10M32	6.5
		Width 8 on 25 or 35	-	100	AB1 AB8M35	7.0
3	End plates (thickness 1.5)	Grey	-	50	AB1 AC24	1.9
		Blue	-	50	AB1 AC24BL	1.9
		Orange	-	50	AB1 AC24GE	1.9
		Red	-	-	-	-
		Black	-	-	-	-
4	Partition plate (thickness 1.5)	Grey	-	50	AB1 AS24	2.6
		Blue	-	50	AB1 AS24BL	2.6
		Red	-	-	-	-
		Black	-	-	-	-
5	Jumper bar with screws	Non insulated	80	10	AB1 AL2	105.0
		Insulated (1)	2	10	AB1 ALN22	2.0
			10	10	AB1 ALN210	10.0
6	Switchable link jumper for 2 blocks (2)	2	50	AB1 BL2	10.0	
7	Test plug socket	-	50	AB1 A2 (Ø 2,3 mm)	0.5	
8	Test plug	-	50	AB1 AT1 (red)	1.7	
9	"Danger" live terminal covers	4	100	AB1 CS2	0.2	
10/12	Marking Accessories	See pages 6/70 and 6/71				
13	Yellow partition between jumper bars	1	100	AB1 CJ2	0.3	
14/15	Yellow protective cover	Single point	1	100	AB1 CA2	0.1
		10 point	-	-	-	

(1) Depending on the size of the terminal block, there are other jumpers between 2 and 12 points (please consult your Regional Sales Office).

(2) Where link jumpers are used, the voltage rating is reduced to 380 V or 400/6 kV/3.

6



Terminal blocks

Screw technology

Passthrough, screw clamp type

Clip-on mounting on 35 mm rails

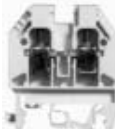
4 mm²



AB1 VV435U●●●

40
6
56
48.5
53
0.5 - 4
0.5 - 2.5
0.5 - 6
800 V / 8 kV / 3 - 32 A
22 - 10 AWG, 600 V, 30 A
20 - 10 AWG, 600 V, 40 A
~ 500 V, ~ 500 V
~ 750 V, ~ 900 V, 34 A
UL, CSA, SEMKO, DEMKO, NEMKO, GL, VDE, OVE, ASE, SEV, ATEX, DNV, KEMA, FI, LR, LCIE, CEPEC, MEEI, EZU, SKTC, BKI-EEex

6 mm²



AB1 VV635U●●

46
8
61
53.5
58
0.5 - 6
0.5 - 6
0.5 - 10
800 V / 8 kV / 3 - 41 A
22 - 8 AWG, 600 V, 50 A
20 - 8 AWG, 600 V, 45 A
~ 500 V, ~ 500 V
~ 750 V, ~ 900 V, 44 A
UL, CSA, SEMKO, DEMKO, NEMKO, GL, VDE, OVE, ASE, SEV, ATEX, DNV, KEMA, FI, LR, LCIE, CEPEC, MEEI, EZU, SKTC, BKI-EEex

10 mm²



AB1 VVN1035U●●

51
10
62.5
55
59.5
2.5 - 10
2.5 - 10
6 - 16
800 V / 8 kV / 3 - 57 A
16 - 6 AWG, 600 V, 65 A
16 - 6 AWG, 600 V, 70 A
~ 500 V, ~ 500 V
~ 750 V, ~ 900 V, 63 A
UL, CSA, SEMKO, DEMKO, NEMKO, GL, VDE, OVE, ASE, SEV, ATEX, DNV, KEMA, FI, LR, MEEI, EZU, SKTC, BKI-EEex

Terminal Blocks

No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g
-	100	AB1 VV435U	7.8	-	100	AB1 VV635U	14.8	-	50	AB1 VVN1035U	26.0
-	100	AB1 VV435UBL	7.8	-	100	AB1 VV635UBL	14.8	-	50	AB1 VVN1035UBL	26.0
-	100	AB1 VV435UGE	7.8	-	100	AB1 VV635UGE	14.8	-	-	-	-
-	100	AB1 VV435URO	7.8	-	-	-	-	-	-	-	-
-	100	AB1 VV435UVE	7.8	-	-	-	-	-	-	-	-
-	100	AB1 VV435UBLA	7.8	-	-	-	-	-	-	-	-
-	100	AB1 VV435UNO	7.8	-	-	-	-	-	-	-	-

Accessories (Dimensions in mm)

-	100	AB1 AB7P32	4.2	-	100	AB1 AB7P32	4.2	-	100	AB1 AB7P32	4.2
-	100	AB1 AB8P35	5.9	-	100	AB1 AB8P35	5.9	-	100	AB1 AB8P35	5.9
-	100	AB1 AB10M32	6.5	-	100	AB1 AB10M32	6.5	-	100	AB1 AB10M32	6.5
-	100	AB1 AB8M35	7.0	-	100	AB1 AB8M35	7.0	-	100	AB1 AB8M35	7.0
-	50	AB1 AC24	1.9	-	50	AB1 AC6	2.6	-	10	AB1 ACN10	3.7
-	50	AB1 AC24BL	1.9	-	50	AB1 AC6BL	2.6	-	10	AB1 AC24BL	3.7
-	50	AB1 AC24GE	1.9	-	50	AB1 AC6GE	2.6	-	-	-	-
-	50	AB1 AC24RO	1.9	-	-	-	-	-	-	-	-
-	50	AB1 AC24NO	1.9	-	-	-	-	-	-	-	-
-	50	AB1 AS24	2.6	-	50	AB1 AS6	3.3	-	10	AB1 ASN10	4.5
-	50	AB1 AS24BL	2.6	-	50	AB1 AS6BL	3.3	-	-	-	-
-	50	AB1 AS24RO	2.6	-	-	-	-	-	-	-	-
-	50	AB1 AS24NO	2.6	-	-	-	-	-	-	-	-
70	10	AB1 AL4	145.0	40	10	AB1 AL6	237.0	40	10	AB1 ALN10	180.0
2	10	AB1 ALN42	2.9	2	10	AB1 ALN62	6.1	2	10	AB1 ALN102	11.6
12	10	AB1 ALN412	18.0	10	10	AB1 ALN610	30.5	10	10	AB1 ALN1010	58.0
2	50	AB1 BL4	12.0	2	50	AB1 BL6	16.0	2	50	AB1 BL10	22.0
-	50	AB1 A4 (Ø 2.3 mm)	5.4	-	50	AB1 A6 (Ø 4 mm)	1.0	-	50	AB1 A10 (Ø 4 mm)	1.0
-	50	AB1 AT1 (red)	1.7	-	50	AB1 AT2 (black)	1.7	-	50	AB1 AT2 (black)	1.7
4	100	AB1 CS4	0.8	4	100	AB1 CS6	1.5	4	10	AB1 CSN10	1.4
1	100	AB1 CJ4	0.9	1	100	AB1 CJ6	0.5	1	10	AB1 CJN10	0.7
1	100	AB1 CA4	0.1	1	100	AB1 CA6	0.2	1	100	AB1 CA10	0.3
10	50	AB1 CA410ET	1.0	-	-	-	-	-	-	-	-

Terminal blocks

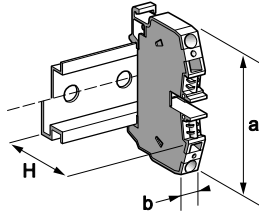
Screw technology

Passthrough, screw clamp type

Clip-on mounting on 25 or 35 mm rails

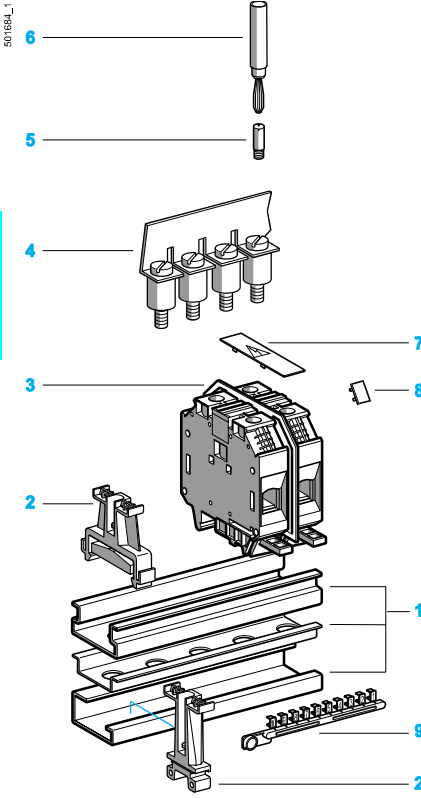
Nominal c.s.a.

16 mm²



AB1 VVN1635U

Dimensions	Length	a	57.5	
	In mm	Width	b	12
		Height with AM1 ED	25	65
		Height with AM1 D	57.5	
		Height with DZ5 MB	62	
Cabling c.s.a. in mm²	Flexible cable without cable end	4 - 16		
	Flexible cable with cable end	4 - 16		
	Solid or heavy core cable	10 - 25		
Nominal Electrical Values	IEC 947-7-1	800 V / 8 kV / 3 - 76 A		
	UL-Data (gauge, V, A)	12 - 4 AWG, 600 V, 85 A		
	CSA-Data (gauge, V, A)	14 - 4 AWG, 600 V, 95 A		
	UTE, category C	~ 500 V, ~ 500 V		
	VDE, group C	~ 750 V, ~ 900 V, 85 A		
Approvals	Obtained under the marking type WKN x/35	UL, CSA, SEMKO, DEMKO, NEMKO, GL, VDE, OVE, ASE, SEV, ATEX, DNV, KEMA, FI, LR, MEEI, EZU, SKTC, BKI-EE _x		



Terminal Blocks

	No. points	Sold in lots of	Unit Reference	Weight g
Grey	-	50	AB1 VVN1635U	40.0
Blue	-	50	AB1 VVN1635UBL	40.0

Accessories (Dimensions in mm)

2	Plastic end stops	Width 7.5 on □	-	100	AB1 AB7P32	4.2
		Width 8 on 25 or 35	-	100	AB1 AB8P35	5.9
2	Metal end stops	Width 10 on □	-	100	AB1 AB10M32	6.5
		Width 8 on 25 or 35	-	100	AB1 AB8M35	7.0
	End plates (thickness 1.5)	Grey	-	10	AB1 ACN16	5.4
		Blue	-	10	AB1 ACN16BL	5.4
3	Partition plate	Grey (thickness 2.0)	-	10	AB1 ASN16	6.4
		Grey (thickness 3.0)	-	-	-	-
4	Jumper bar with screws	Non insulated	20	10	AB1 AL16	320.0
		Insulated (1)	2	10	AB1 ALN162	25.0
			10	10	AB1 ALN1610	125.0
5	Test plug socket (Ø 4 mm)	-	50	AB1 A16	1.0	
6	Test plug (black)	-	50	AB1 AT2	1.7	
7	"Danger" live terminal covers	4	10	AB1 CSN16	1.4	
8/9	Marking Accessories	See pages 6/70 and 6/71				
	Yellow partition between jumper bars	1	10	AB1 CJN16	0.3	
	Yellow protective cover	1	100	AB1 CA16	0.5	

(1) Depending on the size of the terminal block, there are other jumpers between 2 and 12 points (please consult your Regional Sales Office).

Terminal blocks

Screw technology

Passthrough, screw clamp type

Clip-on mounting on 35 mm rails

35 mm²



AB1 VVN3535U

63
16
75.1
67.6
69

10 - 35

10 - 35

10 - 50

800 V / 8 kV / 3 - 125 A
 10 - 2 AWG, 600 V, 95 A
 12 - 2 AWG, 600 V, 110 A
 ~ 500 V, --- 500 V
 ~ 750 V, --- 900 V, 138 A

UL, CSA, SEMKO, DEMKO, NEMKO, GL, VDE, OVE, ASE, ATEX, DNV, KEMA, FI, LR, MEEI, EZU, SKTC, BKI-EEEx, EPM

70 mm²



AB1 VVN7035U

75.2
24
88.7
81.2
82.7

10 - 70

10 - 70

16 - 95

800 V / 8 kV / 3 - 192 A
 6 - 2/0 AWG, 600 V, 175 A
 6 - 2/0 AWG, 600 V, 170 A
 ~ 500 V, --- 500 V
 ~ 750 V, --- 900 V, 213 A

UL, CSA, DEMKO, GL, VDE, OVE, ASE, ATEX, DNV, LR, MEEI, EZU, SKTC, BKI-EEEx

150 mm²



AB1 VVN15035U

91.7
28
106.1
98.6
100.1

35 - 150

35 - 150

35 - 185

1000 V / 8 kV / 3 - 309 A
 2/0 AWG - 350 kcmil, 600 V, 335 A
 2/0 AWG - 300 kcmil, 600 V, 300 A
 ~ 500 V, --- 500 V
 ~ 750 V, --- 900 V, 344 A

UL, CSA, DEMKO, VDE, OVE, ASE, ATEX, MEEI, EZU, SKTC, BKI-EEEx

Terminal Blocks

No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g
-	20	AB1 VVN3535U	71.0	-	20	AB1 VVN7035U	173.0	-	10	AB1 VVN15035U	267.2
-	20	AB1 VVN3535UBL	71.0	-	20	AB1 VVN7035UBL	173.0	-	10	AB1 VVN15035UBL	267.2

Accessories (Dimensions in mm)

-	100	AB1 AB7P32	4.2	-	100	AB1 AB7P32	4.2	-	100	AB1 AB7P32	4.2
-	100	AB1 AB8P35	5.9	-	100	AB1 AB8P35	5.9	-	100	AB1 AB8P35	5.9
-	100	AB1 AB10M32	6.5	-	100	AB1 AB10M32	6.5	-	100	AB1 AB10M32	6.5
-	100	AB1 AB8M35	7.0	-	100	AB1 AB8M35	7.0	-	100	AB1 AB8M35	7.0
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	10	AB1 ASN35	7.0	-	-	-	-	-	-	-	-
-	-	-	-	-	10	AB1 ASN70	22.0	-	-	-	-
-	-	-	-	2	10	AB1 ALN702	22.3	2	10	AB1 ALN1502	146.0
2	10	AB1 ALN352	28.0	-	-	-	-	-	-	-	-
20	10	AB1 ALN35	284.0	-	-	-	-	-	-	-	-
-	50	AB1 A35	2.7	-	-	-	-	-	-	-	-
-	50	AB1 AT2	1.7	-	-	-	-	-	-	-	-
4	10	AB1 CSN35	1.4	4	10	AB1 CSN70	1.4	4	10	AB1 CSN150	3.2
-	-	-	-	-	-	-	-	-	-	-	-
1	50	AB1 CA35	0.7	-	-	-	-	-	-	-	-

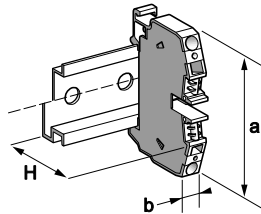
Terminal blocks

Screw technology
Passthrough with "Telequick" universal foot, screw clamp type

Clip-on mounting on 35 mm rails and Telequick pre-slotted mounting plates (AM1 PA)

Nominal c.s.a.

4 mm²



DB6 CD102

Dimensions in mm

	2 pole	5 pole	10 pole
Length a	48		
Width b	14	35	69
Height with AM1 ED	56.5		
Height with AM1 D	49		
Height with DZ5 MB	54		
Height with AM PA	42		

Cabling c.s.a. in mm²

Flexible cable without cable end	1 - 4
Flexible cable with cable end	0.75 - 2.5
Solid core cable	1 - 6

Nominal Electrical Values

CSA-Data	20 - 12 AWG, 600 V, 30 A
UTE, category C	~ 750 V, ~ 750 V, 30 A
VDE, group C	~ 750 V, ~ 750 V, 30 A

Approvals

CSA	
-----	--

Terminal Blocks		No. points	Sold in lots of	Unit Reference	Weight g
Single pole	Grey	-	-	-	-
2-pole	Grey	-	10	DB6 CD102	26.0
3-pole	Grey	-	-	-	-
5-pole	Grey	-	10	DB6 CD105	60.0
10-pole	Grey	-	10	DB6 CD110	114.0

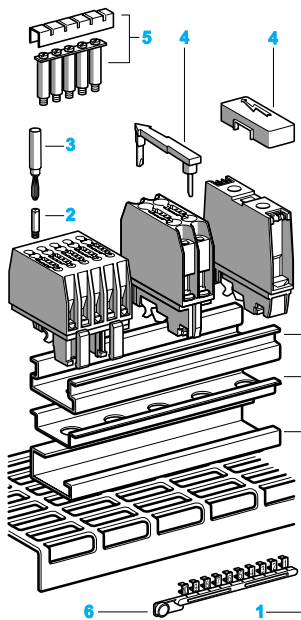
Accessories (Dimensions in mm)

2 Test plug socket	Ø 2	-	10	DB6 CD02	8.0
	Ø 2.3	-	50	AB1 A2	0.5
	Ø 4	-	-	-	-
3 Test plug		-	50	AB1 AT1 (red)	1.7
4 "Danger" live terminal covers		-	-	-	-
5 Commoning link with protective cover (1)		10	10	DB6 CD19	200.0
6 Marking Accessories		See pages 6/70 and 6/71			

(1) The commoning link connects the pins which screw into the sockets. It comprises : the link, 10 pins, 10 screws and a protective cover.

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Terminal blocks

Screw technology

Passthrough with "Telequick" universal foot, screw clamp type

Clip-on mounting on 25 mm rails and Telequick pre-slotted mounting plates (AM1 PA)

6 mm²



DB6 DD102

	2 pole	3 pole
48		
b	17	26
63.5		
56		
61		
49		
1 - 6		
1 - 6		
1 - 10		
14 - 8 AWG, 600 V, 50 A		
~ 750 V, = 750 V, 47 A		
~ 750 V, = 750 V, 47 A		
CSA		

16 mm²



DB6 ED01

53
12
61.5
54
59
47
4 - 16
4 - 10
4 - 16
14 - 6 AWG, 600 V, 60 A
~ 750 V, = 750 V, 71 A
~ 750 V, = 750 V, 65 A
CSA

35 mm²



DB6 FD01

63
15
70.5
63
68
56
6 - 35
4 - 25
6 - 35
10 - 2 AWG, 600 V, 120 A
~ 750 V, = 750 V, 125 A
~ 750 V, = 750 V, 115 A
CSA

Terminal Blocks

No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g
-	-	-	-	-	10	DB6 ED01	40.0	-	10	DB6 FD01	73.0
-	10	DB6 DD102	40.0	-	-	-	-	-	-	-	-
-	10	DB6 DD103	60.0	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

Accessories (Dimensions in mm)

-	-	-	-	-	-	-	-	-	-	-	-
Fitted as standard											
-	-	-	-	-	10	DB6 ED04	8.0	-	10	DB6 FD04	8.0
-	50	AB1 AT2 (black)	1.7	-	50	AB1 AT2 (black)	1.7	-	50	AB1 AT2 (black)	1.7
1	10	AR2 XA335983	5.0	1	10	DB6 ED09	5.0	1	10	DB6 FD09	5.0
-	-	-	-	-	-	-	-	-	-	-	-

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Terminals blocks

Screw technology

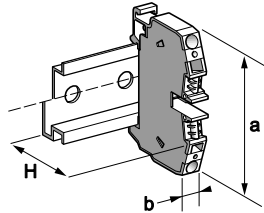
Protective earth, screw clamp type

Clip-on mounting on 25 rails

Nominal c.s.a.

4 mm²

6 mm²



AB1 TP435U

AB1 TP635U

Dimensions in mm

1

Length	a	51	54
Width	b	6	8
Height with AM1 ED		56	61
Height with AM1 DE		48.5	53.5
Height with DZ5 MB		53	58
Cabling c.s.a. in mm²			
Flexible cable without cable end		0.5 - 4	0.5 - 6
Flexible cable with cable end		0.5 - 2.5	0.5 - 6
Solid core cable		0.5 - 6	0.5 - 10
Nominal Electrical Values			
IEC 947-7-2		800 V / 8 kV / 3 - 32 A	800 V / 8 kV / 3 - 41 A
UL-Data		22 - 10 AWG, 600 V	22 - 8 AWG, 600 V
CSA-Data		20 - 10 AWG, 600 V	24 - 8 AWG, 600 V
VDE, group C		~ 750 V, = 900 V, 35 A	~ 750 V, = 900 V, 46 A
Approvals			
Obtained under the marking type WK x SL		UL, CSA, SEMKO, NEMKO, GL, ASE, SEV, ATEX, DNV, KEMA, FI, LR, CEBEC, MEEI, EZU, SKTC, BKI-EEx, EPM	UL, CSA, SEMKO, NEMKO, GL, ASE, SEV, ATEX, DNV, KEMA, FI, LR, MEEI, EZU, SKTC, BKI-EEx, EPM

Terminal Blocks

	No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g
Green/yellow	-	100	AB1 TP435U	25.0	-	100	AB1 TP635U	42.0

Accessories (Dimensions in mm)

2

2

3

3

3

3

3

3

3

3

3

3

3

3

3

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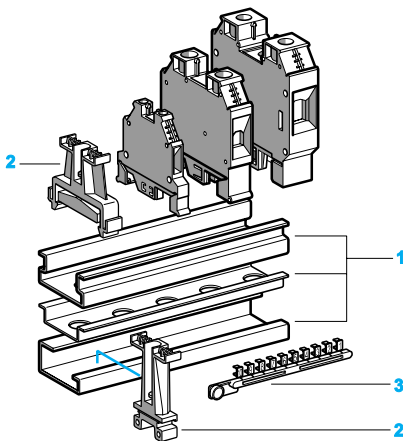
3

3

3

6

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Terminal blocks

Screw technology

Protective earth, screw clamp type

Clip-on mounting on 25 rails

10 mm²



AB1 TP1035U

54
10
62.5
55
59.5
2.5 - 10
2.5 - 10
6 - 16
800 V / 8 kV / 3 - 57 A
16 - 6 AWG, 600 V
16 - 6 AWG, 600 V
~ 750 V, = 900 V, 63 A

UL, CSA, SEMKO, NEMKO, GL, ASE, SEV, ATEX, DNV, KEMA, FI, LR, MEEI, EZU, SKTC, BKI-EEx, EPM

16 mm²



AB1 TP1635U

57.5
12
65
57.5
62
4 - 16
4 - 16
10 - 25
800 V / 8 kV / 3 - 76 A
12 - 4 AWG, 600 V
14 - 4 AWG, 600 V
~ 750 V, = 900 V, 85 A

UL, CSA, SEMKO, NEMKO, GL, ASE, SEV, ATEX, DNV, KEMA, FI, LR, MEEI, EZU, SKTC, BKI-EEx, EPM

35 mm²



AB1 TP3535U

63
16
75.1
67.6
69
10 - 35
10 - 35
10 - 50
800 V / 8 kV / 3 - 125 A
10 - 2 AWG, 600 V
10 - 2 AWG, 600 V
~ 750 V, = 900 V, 138 A

UL, CSA, SEMKO, NEMKO, GL, ASE, SEV, ATEX, DNV, KEMA, FI, LR, MEEI, EZU, SKTC, BKI-EEx, EPM

Terminal Blocks

No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g
-	50	AB1 TP1035U	57.0	-	50	AB1 TP1635U	76.0	-	20	AB1 TP3535U	127.0
Accessories (Dimensions in mm)											
-	100	AB1 AB7P32	4.2	-	100	AB1 AB7P32	4.2	-	100	AB1 AB7P32	4.2
-	100	AB1 AB8P35	5.9	-	100	AB1 AB8P35	5.9	-	100	AB1 AB8P35	5.9
-	100	AB1 AB10M32	6.5	-	100	AB1 AB10M32	6.5	-	100	AB1 AB10M32	6.5
-	100	AB1 AB8M35	7.0	-	100	AB1 AB8M35	7.0	-	100	AB1 AB8M35	7.0

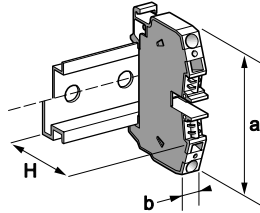
Terminal blocks

Screw technology
Screw lug and screw lug

Clip-on mounting on 25 rails

Nominal c.s.a.

95 mm²



AB1 BB9535

Dimensions in mm

Length	a	92
Width	b	32
Height with AM1 ED	25	70 (86.5 with cover)
Height with AM1 D	25	62.5 (79 with cover)

Cabling c.s.a. in mm²

Flexible cable	Up to 95
Solid or heavy core cable	Up to 95
Fixing bolt	M10
Bar	5 x 18 mm

Nominal Electrical Values

IEC 947-7-1	1000 V / 8 kV / 3 - 225 A
UL-Data (gauge, V, A)	0 AWG - 350 kcmil, 600 V, 230 A
CSA-Data (gauge, V, A)	0 AWG - 350 kcmil, 600 V, 230 A
UTE, category C	~ 500 V, ~ 500 V
VDE, group C	~ 1000 V, ~ 1200 V, 250 A

Approvals

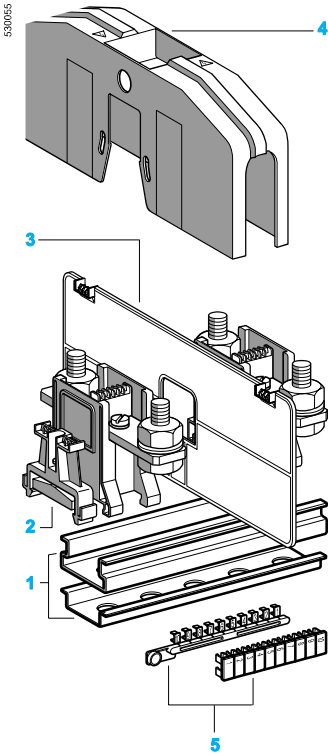
Obtained under the marking type RFK 1/x FM Sxx	UL, CSA, NEMKO, GL, SEV, DNV, KEMA, LR, SKTC, BBJ
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Terminal Blocks

	No. points	Sold in lots of	Unit Reference	Weight g
Grey	-	10	AB1 BB9535	169.0

Accessories (Dimensions in mm)

2 Plastic end stops	Width 8 on 25 or 35	-	100	AB1 AB8P35	5.9
2 Metal end stops	Width 8 on 25 or 35	-	100	AB1 AB8M35	7.0
3 Partition plate (thickness 2.8)	Grey 70 x 180 x 4.5 Grey 70 x 200 x 4.5	-	50	AB1 CT1	34.0
4 "Danger" live terminal covers	Yellow 69 x 174 x 32 Yellow 93 x 194 x 42	-	10	AB1 CP1	55.0
5 Marking Accessories					See pages 6/70 and 6/71



6

Terminal blocks

Screw technology

Screw lug and screw lug

Clip-on mounting on 25 rails

185 mm²



AB1 BB18535

92
42
72 (110.5 with cover)
64.5 (103 with cover)
Up to 185
Up to 185
M12
6 x 26 mm
1000 V / 8 kV / 3 - 353 A
0 AWG - 400 kcmil, 600 V, 375 A
0 AWG - 400 kcmil, 600 V, 375 A
~ 500 V, --- 500 V
~ 1000 V, --- 1200 V, 392 A

UL, CSA, NEMKO, SEV, DNV, KEMA, LR, SKTC, BBJ

240 mm²



AB1 BB24035

92
42
78 (110.5 with cover)
70.5 (103 with cover)
Up to 240
Up to 240
M12
8 x 26 mm
1000 V / 8 kV / 3 - 415 A
0 AWG - 500 kcmil, 600 V, 375 A
3/0 AWG - 500 kcmil, 600 V, 425 A
~ 500 V, --- 500 V
~ 1000 V, --- 1200 V, 461 A

UL, CSA, NEMKO, SEV, DNV, KEMA, LR, SKTC, BBJ

Terminal Blocks

No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g
-	10	AB1 BB18535	250.0	-	10	AB1 BB24035	265.0

Accessories (Dimensions in mm)

-	100	AB1 AB8P35	5.9	-	100	AB1 AB8P35	5.9
-	100	AB1 AB8M35	7.0	-	100	AB1 AB8M35	7.0
-	-	-	-	-	-	-	-
-	50	AB1 CT2	37.0	-	50	AB1 CT2	37.0
-	-	-	-	-	-	-	-
-	10	AB1 CP2	90.0	-	10	AB1 CP2	90.0

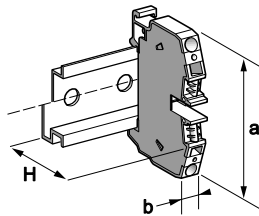
Terminal blocks

Screw technology
Screw lug and clamp type

Clip-on mounting on 25 rails

Nominal c.s.a.

95 mm²



AB1 BC9535

Dimensions in mm

Length	a	92
Width	b	32
Height with AM1 ED		79 (86.5 with cover)
Height with AM1 D		71.5 (79 with cover)

Cabling c.s.a. in mm²

Flexible cable	16 - 95
Solid or heavy core cable	16 - 95
Fixing bolt	M10
Bar	5 x 18 mm

Nominal Electrical Values

IEC 947-7-1	1000 V / 8 kV / 3 - 225 A
UL-Data (gauge, V, A)	0 AWG - 350 kcmil, 600 V, 230 A
CSA-Data (gauge, V, A)	0 AWG - 350 kcmil, 600 V, 230 A
UTE, category C	~ 500 V, ~ 500 V
VDE, group C	~ 1000 V, ~ 1200 V, 250 A

Approvals

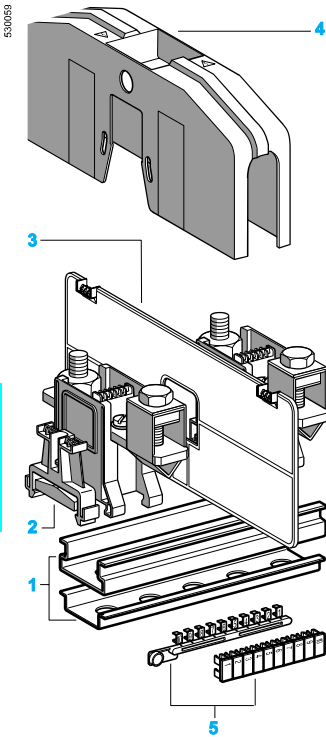
Obtained under the marking type RFK 1/x FM Sxx	UL, CSA, NEMKO, GL, SEV, DNV, KEMA, LR, SKTC, BBJ
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Terminal Blocks

	No. points	Sold in lots of	Unit Reference	Weight g
Grey	-	10	AB1 BC9535	236.0

Accessories (Dimensions in mm)

		No. points	Sold in lots of	Unit Reference	Weight g
2 Plastic end stops	Width 8 on 25 or 35	-	100	AB1 AB8P35	5.9
2 Metal end stops	Width 8 on 25 or 35	-	100	AB1 AB8M35	7.0
3 Partition plate (thickness 2.8)	Grey 70 x 180 x 4.5 Grey 70 x 200 x 4.5	-	50	AB1 CT1	34.0
4 "Danger" live terminal covers	Yellow 69 x 174 x 32 Yellow 93 x 194 x 42	-	10	AB1 CP1	55.0
5 Marking Accessories				See pages 6/70 and 6/71	



6

Terminal blocks

Screw technology

Screw lug and clamp type

Clip-on mounting on 25 rails

150 mm²



AB1 BC15035

92
42
83 (110.5 with cover)
75.5 (103 with cover)
25 - 150
25 - 150
M12
6 x 26 mm
1000 V / 8 kV / 3 - 300 A
0 AWG - 400 kcmil, 600 V, 325 A
0 AWG - 400 kcmil, 600 V, 325 A
~ 500 V, --- 500 V
~ 1000 V, --- 1200 V, 335 A

240 mm²



AB1 BC24035

102
42
100 (110.5 with cover)
92.5 (103 with cover)
35 - 240
35 - 240
M12
8 x 26 mm
1000 V / 8 kV / 3 - 415 A
0 AWG - 500 kcmil, 600 V, 375 A
3/0 AWG - 500 kcmil, 600 V, 425 A
~ 500 V, --- 500 V
~ 1000 V, --- 1200 V, 453 A

UL, CSA, NEMKO, SEV, DNV, KEMA, LR, SKTC, BBJ

Terminal Blocks

No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g
-	10	AB1 BC15035	277.0	-	10	AB1 BC24035	287.0

Accessories (Dimensions in mm)

-	100	AB1 AB8P35	5.9	-	100	AB1 AB8P35	5.9
-	100	AB1 AB8M35	7.0	-	100	AB1 AB8M35	7.0
-	-	-	-	-	-	-	-
-	50	AB1 CT2	37.0	-	50	AB1 CT2	37.0
-	-	-	-	-	-	-	-
-	10	AB1 CP2	90.0	-	10	AB1 CP2	90.0

Terminal blocks

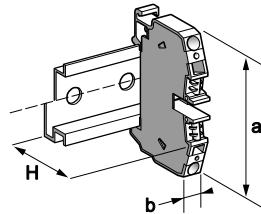
Screw technology

Miniature passthrough, screw clamp type

Clip-on mounting on 15 mm rails

Nominal c.s.a.

2.5 mm²



AB1 VV215

Dimensions in mm

Length	a	28.5
Width	b	5
Height with AB1 PC15		32

Cabling c.s.a. in mm²

Flexible cable without cable end	0.5 - 2.5
Flexible cable with cable end	0.5 - 1.5
Fil rigide	0.5 - 4

Nominal Electrical Values

IEC 947-7-1	500 V / 6 kV / 3 - 24 A
UL-Data	22 - 14 AWG, 150 V, 10 A
CSA-Data (gauge, V, A)	22 - 12 AWG, 600 V, 25 A
UTE, category C	~ 500 V, = 500 V
VDE, group C	~ 500 V, = 600 V, 26 A

Approvals

Obtained under the marking type WKM x/15	UL, CSA, VDE, DNV, FI, KEMA, DEMKO, ATEX, ASE
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Terminal Blocks

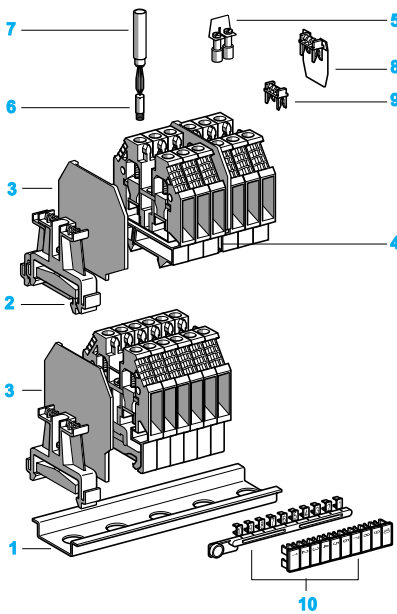
	No. points	Sold in lots of	Unit Reference	Weight g
Grey	-	10	AB1 VV215	4.2
Blue	-	100	AB1 VV215BL	4.2
Protective Earth	-	-	-	-
Green/Yellow	-	-	-	-

Accessories (Dimensions in mm)

1	Glvanized rail, 15 x 1000 x 5	-	10	AB1 PC15	140.0
2	Plastic end stop Width 7.5	-	100	AB1 AB715	2.2
3	End plate Grey (thickness 1.5)	-	50	AB1 AC2	1.3
4	Partition plate Grey (thickness 1.5)	-	50	AB1 AS2	1.7
5	Jumper bar 2 pole (non insulated)	2	50	AB1 B22	1.6
	with screws 60 pole (non insulated)	60	10	AB1 B15	105.0
6	Test plug socket (Ø 2.3 mm)	-	50	AB1 A2	0.5
7	Test plug (red)	-	50	AB1 AT1	1.7
8	Yellow partition between Jumper bars	1	100	AB1 CJ215	0.6
9	Yellow protective cover, single point	1	100	AB1 CA215	0.4
10	Marking Accessories	See pages 6/70 and 6/71			

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6



Terminal blocks

Screw technology
Miniature passthrough, screw clamp type

Clip-on mounting on 15 mm rails

4 mm²



AB1 VV415

28.5

6

32

0.5 - 4

0.5 - 2.5

0.5 - 6

500 V / 6 kV / 3 - 34 A

22 - 14 AWG, 150 V, 10 A

22 - 12 AWG

~ 500 V, = 500 V

~ 500 V, = 600 V, 34 A

UL, CSA, DEMKO, VDE, DNV, FI, KEMA

2.5 - 4 mm²



AB1 TP215

28.5

6

32

0.5 - 4

0.5 - 2.5

0.5 - 6

500 V / 6 kV / 3 - 34 A

22 - 14 AWG, 150 V, 10 A

22 - 12 AWG

~ 500 V, = 500 V

~ 500 V, = 600 V, 34 A

UL, CSA, VDE, DNV, FI, KEMA, ASE, ATEX

Terminal Blocks

No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g
-	100	AB1 VV415	5.5	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	100	AB1 TP215	11.7

Accessories (Dimensions in mm)

-	10	AB1 PC15	140.0	-	10	AB1 PC15	140.0
-	100	AB1 AB715	2.2	-	100	AB1 AB715	2.2
-	50	AB1 AC2	1.3	-	50	AB1 CT215	2.0
-	50	AB1 AS2	1.7	-	-	-	-
2	50	AB1 B22	1.6	-	-	-	-
60	10	AB1 B15	105.0	-	-	-	-
-	50	AB1 A2	0.5	-	-	-	-
-	50	AB1 AT1	1.7	-	-	-	-
1	100	AB1 CJ3	0.6	-	-	-	-
1	100	AB1 CA3	0.4	-	-	-	-

Terminal blocks

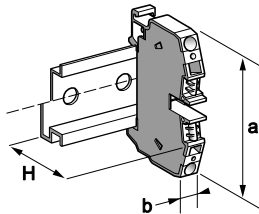
Screw technology

Neutral conductors, screw clamp type

Clip-on mounting on 25 rails

Nominal c.s.a.

4 mm²



AB1 NEN435U

Dimensions in mm

Length	a	48.75
Width	b	6
Height with AM1 ED		56
Height with AM1 DE		48.5
Height with DZ5 MB		53

Cabling c.s.a. in mm²

Flexible cable without cable end	0.5 - 4
Flexible cable with cable end	0.5 - 2.5
Solid core cable	0.5 - 6

Nominal Electrical Values

IEC 947-7-1 (1)	800 V / 8 kV / 3 - 32 A	4 mm ²	6 mm ²
UL-Data	-		
CSA-Data	-		
UTE, category C	~ 250 V, = 250 V		
VDE, group C	~ 380 V, = 450 V	25 A	30 A

Approvals

Obtained under the marking type WKN x	CSA, NEMKO, ASE, MEEI, EZU, SKTC, BBJ
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Terminal Blocks

	No. points	Sold in lots of	Unit Reference	Weight g
Blue	-	100	AB1 NEN435U	14.7

Accessories (Dimensions in mm)

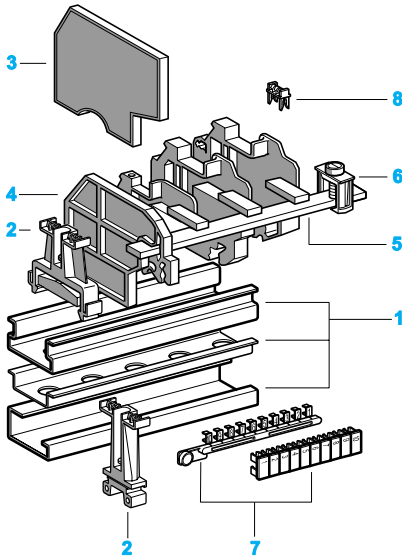
	No. points	Sold in lots of	Unit Reference	Weight g	
2 Plastic end stops	Width 7.5 on □	-	100	AB1 AB7P32	4.2
	Width 8 on 25 or 35	-	100	AB1 AB8P35	5.9
2 Metal end stops	Width 10 on □	-	100	AB1 AB10M32	6.5
	Width 8 on 25 or 35	-	100	AB1 AB8M35	7.0
3 End plate	Bleu (thickness 1.5)	-	10	AB1 TNN4	2.5
	Bleu (thickness 2)	-	-	-	-
4 Support for neutral bar		-	10	AB1 SBN	5.2
5 Copper neutral bar (10 x 3 x 1000)		-	10	AB1 PC3	298.0
6 Terminal clamps for neutral bar	16 mm ² , 8.5 width	-	10	AB1 EBN16	8.9
	35 mm ² , 14.3 width	-	10	AB1 EBN35	19.5

7 Marking Accessories

See pages 6/70 and 6/71

(1) When using cross links, the rated voltage is reduced to 380 V pr 400 V / 6 kV / 3.

530045



6

Terminal blocks

Screw technology

Neutral conductors, screw clamp type

Clip-on mounting on 25 mm rails

10 mm²

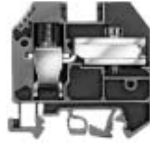


AB1 NEN1035U

54.25
10
62.5
55
59.5
1 - 10
1 - 10
10 - 16
800 V / 8 kV / 3 - 41 A
-
-
~ 250 V, = 250 V
~ 380 V, = 450 V
45 A 50 A

CSA, NEMKO, ASE, MEEI, EZU, SKTC, BBJ

16 mm²



AB1 NEN1635U

57.5
12
65
57.5
62
1 - 16
1 - 16
10 - 25
800 V / 8 kV / 3
-
-
~ 250 V, = 250 V
~ 380 V, = 450 V
62 A 67 A

CSA, NEMKO, ASE, MEEI, EZU, SKTC, BBJ

Terminal Blocks

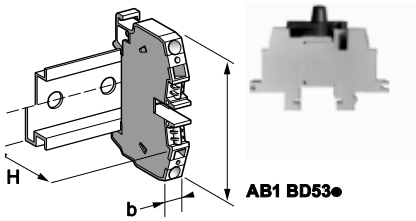
No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g
-	50	AB1 NEN1035U	31.7	-	50	AB1 NEN1635U	45.2

Accessories (Dimensions in mm)

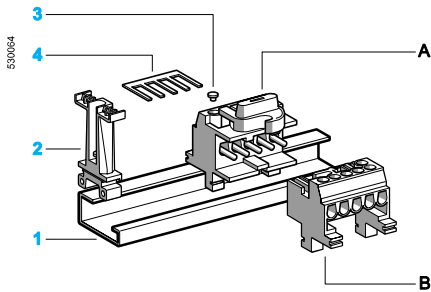
-	100	AB1 AB7P32	4.2	-	100	AB1 AB7P32	4.2
-	100	AB1 AB8P35	5.9	-	100	AB1 AB8P35	5.9
-	100	AB1 AB10M32	6.5	-	100	AB1 AB10M32	6.5
-	100	AB1 AB8M35	7.0	-	100	AB1 AB8M35	7.0
-	10	AB1 TNN10	2.5	-	-	-	-
-	-	-	-	-	10	AB1 TNN16	3.4
-	10	AB1 SBN	5.2	-	10	AB1 SBN	5.2
-	10	AB1 PC3	298.0	-	10	AB1 PC3	298.0
-	10	AB1 EBN16	8.9	-	10	AB1 EBN16	8.9
-	10	AB1 EBN35	19.5	-	10	AB1 EBN35	19.5

Terminal blocks

Screw technology
Side entry type

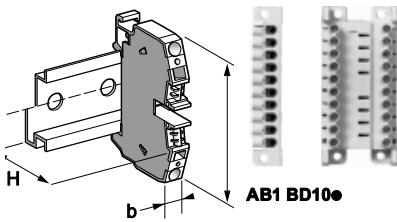


AB1 BD530

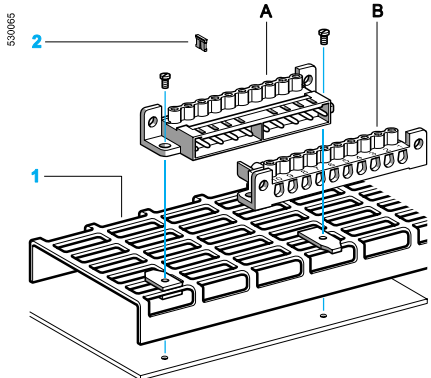


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6



AB1 BD100



530065

Clip-on mounting on rail

Nominal c.s.a.	2.5 mm ²		
Dimensions in mm	Length	a	57
	Width	b	36
	Height with DZ5 MB		48.5
Cabling c.s.a. in mm ²	Flexible cable without cable end		0.5 - 2.5
	Flexible cable with cable end		0.5 - 1.5
	Solid core cable		0.5 - 4
Nominal Electrical Values	IEC 947-7-1		250 V / 4 kV / 3
	UL-Data		22-12 AWG, 300 V, 20 A
	CSA-Data		22-14 AWG, 300 V, 16 A
	UTE, category C		~ 400 V, ~ 250 V
	VDE, group C		~ 380 V, ~ 450 V, 16 A
Approvals	UL, CSA, ASE		

5-pole Terminal Block

	No. points	Sold in lots of	Unit Reference	Weight g
Male (A) (grey)	-	50	AB1 BD532	13.0
Female (B) (grey)	-	50	AB1 BD533	13.0

Accessories (Dimensions in mm)

2 Plastic end stop	Width 7.5	-	100	AB1 AB7P32	4.2
2 Metal end stop	Width 10	-	100	AB1 AB10M32	6.5
3 Screw head cover		-	500	AB1 CV1	0.3
4 Commoning link for 5 poles		-	50	AB1 BD1	2.5
5 Marking Accessories (2)					

(1) With rail DZ5 MB.

(2) Markings on terminal block (1 to 5). For higher numbers, use screw head cover AB1 CV1.

Screw fixing

Nominal c.s.a.	2.5 mm ²		
Dimensions in mm	Length	a	43
	Width	b	92 (between centers (Ø 5) : 83 x 25)
	Height		17
Cabling c.s.a. in mm ²	Flexible cable without cable end		0.5 - 2.5
	Flexible cable with cable end		0.5 - 1.5
	Solid core cable		0.5 - 4
Nominal Electrical Values	IEC 947-7-1		400 V / 6 kV / 3
	UL-Data		22-12 AWG, 300 V, 20 A
	CSA-Data		22-14 AWG, 300 V, 16 A
	UTE, category C		~ 380 V, ~ 450 V, 16 A
	VDE, group C		
Approvals	UL, CSA, ASE		

Obtained under the marking type ST 28/10 x

10-pole Terminal Block

	No. points	Sold in lots of	Unit Reference	Weight g
Male (A) (grey)	-	10	AB1 BD101	34.0
Female (B) (grey)	-	10	AB1 BD102	34.0

Accessories (Dimensions in mm)

1 Telequick mounting plate	-	-	AM1 PA	-
2 Coding chip	-	100	AB1 DT01	0.2
3 Marking Accessories (1)				

(1) Markings on terminal block (1 to 10).

Terminal blocks

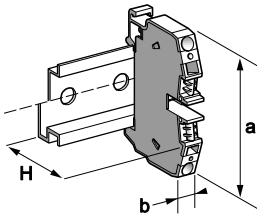
Screw technology

Front connecting fixed type 10-pole

Clip-on mounting on 2.5 rails

Nominal c.s.a.

2.5 mm²



AB1 BV10235U

Dimensions in mm

Length	a	65.2
Width	b	39
Height with AM1 ED 2.5		47.6
Height with AM1 DE 2.5		40.1
Height with DZ5 MB 2.5		44.6

Cabling c.s.a. in mm²

Flexible cable without cable end	0.5 - 2.5
Flexible cable with cable end	0.5 - 1.5
Solid core cable	0.5 - 4

Nominal Electrical Values

IEC 947-7-1	400 V / 6 kV / 3 - 20 A
UL-Data	22-12 AWG, 300 V, 10 A
CSA-Data	max. 12 AWG, 300 V, 10 A
VDE, group C	~ 380 V, ~ 450 V, 20 A

Approvals

Obtained under the marking type WKB 2,5/U	UL, CSA, ASE
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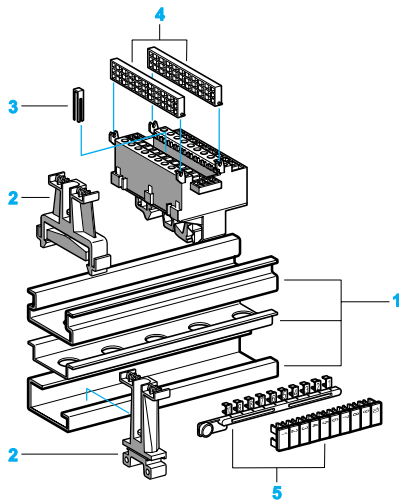
Fixed Terminal Block 10-pole

	No. points	Sold in lots of	Unit Reference	Weight g
Grey	-	10	AB1 BV10235U	73

Accessories (Dimensions in mm)

2	Plastic end stops	Width 7.5 on 2.5	-	100	AB1 AB7P32	4.2
		Width 8 on 2.5 or 4	-	100	AB1 AB8P35	5.9
2	Metal end stops	Width 10 on 2.5	-	100	AB1 AB10M32	6.5
		Width 8 on 2.5 or 4	-	100	AB1 AB8M35	7.0
3	Commoning link between 2 consecutive poles		-	100	AB1 DL02	0.5
4	Pivoting terminal cover		-	10	AB1 DV02	2.0
5	Marking Accessories		See pages 6/70 and 6/71			

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6

Terminal blocks

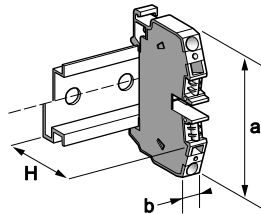
Screw technology

Front connecting plug-in type 10-pole

Clip-on mounting on 2.5 mm rails

Nominal c.s.a.

2.5 mm²



AB1 DV010235U

Dimensions in mm

Length	a
Width	b
Height with AM1 ED	2.5
Height with AM1 DE	2.5
Height with DZ5 MB	2.5

	A	B
72		
	38	21
	48.5 +	44
	41 +	44
	46 +	44

Cabling c.s.a. in mm²

Flexible cable without cable end	
Flexible cable with cable end	0.5 - 1.5
Solid core cable	

	0.5 - 2.5	0.5 - 1.5
	0.5 - 4	0.5 - 2.5

Nominal Electrical Values

IEC 947-7-1	
UL-Data	300 V, 5 A
CSA-Data	300 V, 5 A
VDE, group C	

	A	B
400 V / 6 kV / 3 - 10 A		
300 V, 5 A	22-12 AWG	22-14 AWG
300 V, 5 A	22-12 AWG	22-14 AWG
~ 380 V, ~ 450 V, 10 A		

Approvals

Obtained under the marking type WKB 2,5/B/U, ST 29/10 S

UL, CSA, ASE

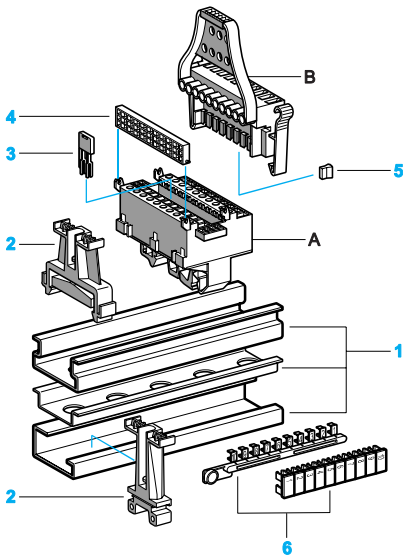
Plug-in Terminal Block 10-pole

	No. points	Sold in lots of	Unit Reference	Weight g
Fixed part (A) grey	-	10	AB1 DV10235U	47
Moving part (B) grey	-	10	AB1 DVM10235U	21

Accessories (Dimensions in mm)

	No. points	Sold in lots of	Unit Reference	Weight g
2 Plastic end stops	-	100	AB1 AB7P32	4.2
	-	100	AB1 AB8P35	5.9
2 Metal end stops	-	100	AB1 AB10M32	6.5
	-	100	AB1 AB8M35	7.0
3 Commoning link between 2 consecutive poles	-	100	AB1 DL021	0.5
4 Pivoting terminal cover	-	10	AB1 DV02	2.0
5 Coding chip	-	10	AB1 DV01	0.2
6 Marking Accessories	See pages 6/70 and 6/71			

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6

Terminal blocks

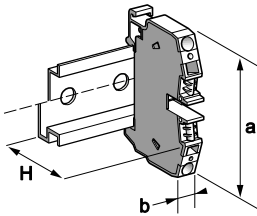
Screw technology

Front connecting plug-in type

Clip-on mounting on 2.5 or 4 rails

Nominal c.s.a.

2.5 mm²



AB1 BCP20235U

Dimensions in mm

Length	a	72
Width	b	37
Height with AM1 ED 2.5		47.5
Height with AM1 DE 4		40
Height with DZ5 MB 4		44.5

Cabling c.s.a. in mm²

Flexible cable without cable end	0.5 - 2.5
Flexible cable with cable end	0.5 - 1.5
Solid core cable	0.5 - 4

Nominal Electrical Values

IEC 947-7-1 (1)	400 V / 6 kV / 3-20 A
UL-Data	22-12 AWG, 300 V, 10 A
CSA-Data	22-12 AWG, 300 V, 10 A
VDE, group A	~ 60 V, = 75 V, 1 A

Approvals

Obtained under the marking type WKB 2,5/STB 2/U-20S	UL, CSA, ASE
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Plug-in Terminal Block (for use with ribbon cables, 20-pole) (1)

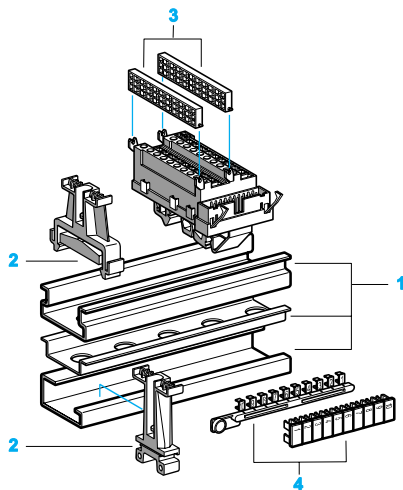
	No. points	Sold in lots of	Unit Reference	Weight g
Grey	-	1	AB1 BCP20235U	60

Accessories (Dimensions in mm)

	Width	No.	Sold in lots of	Unit Reference	Weight g
2 Plastic end stops	Width 7.5 on 4	-	100	AB1 AB7P32	4.2
	Width 8 on 2.5 or 4	-	100	AB1 AB8P35	5.9
2 Metal end stops	Width 10 on 4	-	100	AB1 AB10M32	6.5
	Width 8 on 2.5 or 4	-	100	AB1 AB8M35	7.0
3 Pivoting metal cover		-	10	AB1 DV02	2.0
4 Marking Accessories		See pages 6/70 and 6/71			

(1) DIN 41651 socket, not included.

530070



Terminal blocks

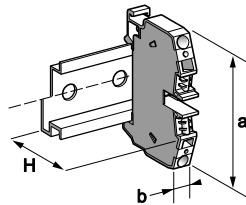
Screw technology

Double deck, screw clamp type

Clip-on mounting on 25 rails

Nominal c.s.a.

4 mm²



AB1 ETN335U

Dimensions in mm

Length	a
Width	b
Height with AM1 ED	56
Height with AM1 DE	48.5
Height with DZ5 MB	53

Cabling c.s.a. in mm²

Flexible cable without cable end	0.5 - 4
Flexible cable with cable end	0.5 - 2.5
Solid core cable	0.5 - 6

Nominal Electrical Values

IEC 947-7-1	800 V / 8 kV / 3 - 32 A
UL-Data	22 - 10 AWG, 300 V, 30 A
CSA-Data	20 - 10 AWG, 300 V, 10 A
UTE, category C	~ 400 V, ~ 250 V
VDE, group C	~ 380 V, ~ 450 V, 34 A

Approvals

Obtained under the marking type WK 4/D

ETN235/435 335	
a	55.6 47.8

800 V / 8 kV / 3 - 32 A
22 - 10 AWG, 300 V, 30 A
20 - 10 AWG, 300 V, 10 A
~ 400 V, ~ 250 V
~ 380 V, ~ 450 V, 34 A

UL, CSA, SEMKO, NEMKO, GL, SEV, DNV, FI, LR, MEEI, SKTC

Terminal Blocks

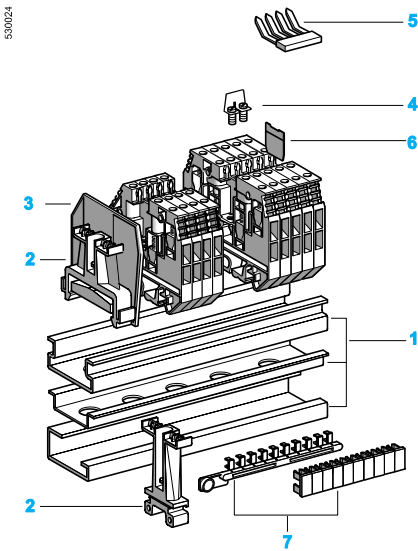
	No. points	Sold in lots of	Unit Reference	Weight g
2 In, 2 Out Grey	2/2	100	AB1 ETN235U	15.1
3 Wire Grey	3	100	AB1 ETN335U	15.1
4 Wire Grey	4	100	AB1 ETN435U	15.1
Protective Earth Green/Yellow	4	100	AB1 ETNTP435U	16.0

Accessories (Dimensions in mm)

2 Plastic end stops	Width 7.5 on	100	AB1 AB7P32	4.2
	Width 8 on or	100	AB1 AB8P35	5.9
2 Metal end stops	Width 10 on	100	AB1 AB10M32	6.5
	Width 8 on or	100	AB1 AB8M35	7.0
3 End plates (thickness 1.5)	ETN235 and ETN435	10	AB1 TEN4	0.6
	ETN335	10	AB1 TEN3	0.6
4 Jumper bar with screws	non insulated	70	AB1 AL4	145.0
	insulated (1)	2	AB1 ALN42	2.9
		12	AB1 ALN412	18.0
5 Insulated connector comb		2	AB1 CC42R0	16.0
		10	AB1 CC410R0	16.0
		1	AB1 CJ3	0.3
7 Marking Accessories	See pages 6/70 and 6/71			

(1) Depending on the size of the terminal block, there are other jumpers between 2 and 12 points (please consult your Regional Sales Office).

6



Terminal blocks

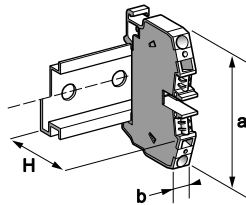
Screw technology

Double deck, screw clamp type

Clip-on mounting on 25 rails

Nominal c.s.a.

4 mm²



AB1 ET435U

Dimensions	Length	a	61.6	
	In mm	Width	b	6
		Height with AM1 ED	25	70.5
		Height with AM1 DE	25	63
		Height with DZ5 MB	25	67.5
Cabling	c.s.a.	Flexible cable without cable end	0.5 - 4	
	In mm ²	Flexible cable with cable end	0.5 - 2.5	
		Solid core cable	0.5 - 4	
Nominal Electrical Values	IEC 947-7-1		400 V / 6 kV / 3 - 32 A	
	UL-Data		22 - 10 AWG, 300 V, 20 A	
	CSA-Data		20 - 12 AWG, 300 V, 10 A	
	UTE, category C		~ 400 V, ~ 250 V	
	VDE, group C		~ 380 V, ~ 450 V, 34 A	
Approvals	Obtained under the marking type WK 4 E/U		UL, CSA, NEMKO, SEMKO, GL, ASE, DNV, FI, LR, CEBC, MEEI, EZU, SKTC	

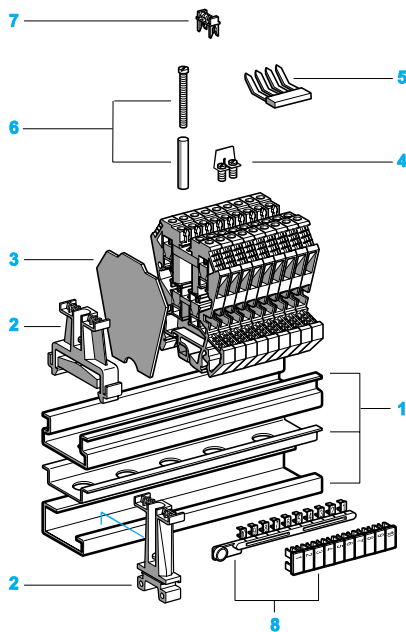
Terminal Blocks

	No. points	Sold in lots of	Unit Reference	Weight g
2 In, 2 Out	2	100	AB1 ET435U	15.1
4 Wire	4	100	AB1 ET435U2	15.1
Protective Earth	4	100	AB1 ET435UTP	15.1
24 V red LED	4	100	AB1 ET435UBRO	16.0
24 V green LED	4	100	AB1 ET435UBVE	15.1
24 V red LED	4	100	AB1 ET435UBGE	15.1
Diode top-bottom	4	100	AB1 ET435UHBRO	15.1
Diode bottom-top	4	100	AB1 ET435UBHGE	16.0
Double diode	4	100	AB1 ET435U2DRO	15.1

Accessories (Dimensions in mm)

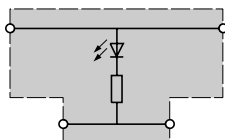
2	Plastic end stops	Width 7.5 on 25	-	100	AB1 AB7P32	4.2
		Width 8 on 25 or 35	-	100	AB1 AB8P35	5.9
2	Metal end stops	Width 10 on 25	-	100	AB1 AB10M32	6.5
		Width 8 on 25 or 35	-	100	AB1 AB8M35	7.0
3	End plates	Grey (thickness 1.5)	-	50	AB1 TE	3.5
		Partition	Grey (thickness 1.5)	-	50	AB1 AS4ET
4	Jumper bar with screws	2 poles (non insulated)	2	10	AB1 BE2	0.9
		70 poles (non insulated)	70	10	AB1 BE	145.0
5	Insulated connector comb	Lower, 2 poles	2	100	AB1 CC42INFRO	0.9
		Lower, 6 poles	6	100	AB1 CC46INFRO	3.0
		Upper, 2 poles	2	100	AB1 CC42SUPRO	0.9
		Upper, 6 poles	6	100	AB1 CC46SUPRO	3.0
6	Commoning link between decks	-	50	AB1 L2ET	2.5	
7	Yellow protective cover	Single point	1	100	AB1 CA4	0.1
		10 point	10	50	AB1 CA410ET	1.0
8	Marking Accessories					See pages 6/70 and 6/71

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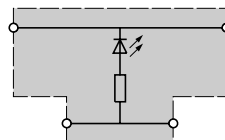


Schemes

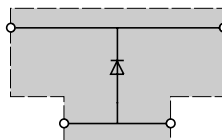
AB1 ET435UBRO/BVE
(R = 2.2 k, 0.35 W)



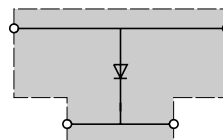
AB1 ET435UBGE
(R = 2.2 k, 0.35 W)



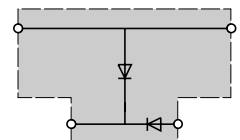
AB1 ET435UHBRO
(1 A / 1000 V)



AB1 ET435UBHGE
(1 A / 1000 V)



AB1 ET435U2DRO
(1 A / 1000 V)



Terminal blocks

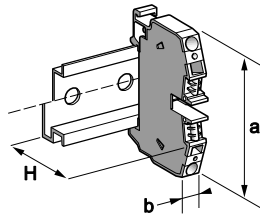
Screw technology

Three-wire for proximity sensors, screw clamp type

Clip-on mounting on 2.5 mm rails

Nominal c.s.a.

2.5 mm²



AB1 DDP235U●●

Dimensions in mm

1	Length	a	53.4
	Width	b	6
	Height with AM1 ED● 2.5		76.1
	Height with AM1 D●● 2.5		68.6
	Height with DZ5 MB● 2.5		73.1

Cabling c.s.a. in mm²

	Flexible cable without cable end	0.5 - 2.5
	Flexible cable with cable end	0.5 - 1.5
	Solid core cable	0.5 - 4

Nominal Electrical Values (1)

	IEC 947-7-1	250 V / 4 kV / 3 - 24 A
	UL-Data	22 - 12 AWG, 300 V, 25 A
	CSA-Data	20 - 12 AWG, 300 V, 25 A
	VDE, group C	~ 250 V, ~ 300 V, 26 A

Approvals

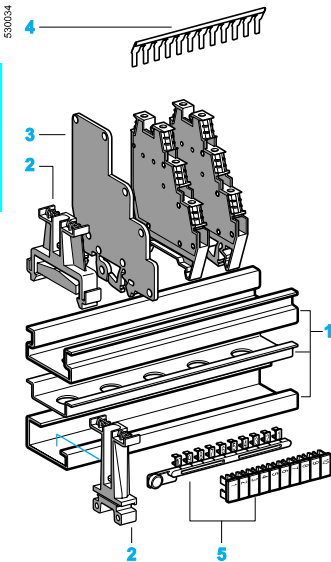
	Obtained under the marking type WK 2,5 KI/U...	UL, CSA, NEMKO, ASE, SEV, FI, EZU, SKTC, EPM
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Terminal Blocks

	No. points	Sold in lots of	Unit Reference	Weight g
Without LED	1	100	AB1 DDP235U	10.0
NPN 24 V LED (+) (green)	1	100	AB1 DDP235ULP	10.0
PNP 24V LED (-) (green)	1	100	AB1 DDP235ULM	10.0

Accessories (Dimensions in mm)

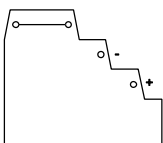
	No. points	Sold in lots of	Unit Reference	Weight g
2 Plastic end stops	Width 7.5 on 2.5	100	AB1 AB7P32	4.2
	Width 8 on 2.5 or 2.5	100	AB1 AB8P35	5.9
2 Metal end stops	Width 10 on 2.5	100	AB1 AB10M32	6.5
	Width 8 on 2.5 or 2.5	100	AB1 AB8M35	7.0
3 Partition	Grey (thickness 2)	10	AB1 ACD2	5.0
4 Insulated connector comb	Red	12	AB1 ALD12R	5.5
	Blue	12	AB1 ALD12B	5.0
	Red	100	AB1 ALD100R	170.0
	Blue	100	AB1 ALD100B	170.0
5 Marking Accessories	See pages 6/70 and 6/71			



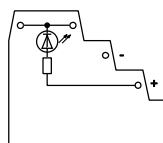
6

Schemes (2)

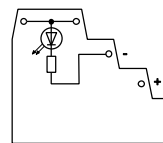
AB1 DDP235U



AB1 DDP235ULP (R = 2.2 k, 0.35 W)



AB1 DDP235ULM (R = 2.2 k, 0.35 W)



(1) 24 V dc with LED.

(2) Note : for recommended connections, see page 6/72.

(3) Protective earth connection with AB1 ET3235UT only.

Terminal blocks

Screw technology

Three-wire for proximity sensors, screw clamp type

Clip-on mounting on 2.5 mm² rails

2.5 mm²

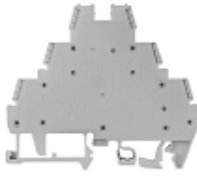


AB1 DDP235T

64
6
76.1
68.6
-
0.5 - 2.5
0.5 - 1.5
0.5 - 4
250 V / 4 kV / 3 - 24 A
22 - 12 AWG, 300 V, 25 A
22 - 12 AWG, 300 V, 25 A
~ 250 V, ~ 300 V, 26 A

UL, CSA, NEMKO, ASE, SEV, FI, EZU, SKTC, EPM

2.5 mm²



AB1 ET3235U

79.4
6
76.1
68.6
73.1
0.5 - 2.5
0.5 - 1.5
0.5 - 4
400 V / 6 kV / 3 - 24 A
22 - 12 AWG, 300 V, 25 A
22 - 12 AWG, 300 V, 25 A
~ 250 V, ~ 300 V, 26 A

UL, CSA, NEMKO, ASE, SEV, FI, EZU, SKTC

2.5 mm²



AB1 ET3235UT

79.4
6
76.1
68.6
-
0.5 - 2.5
0.5 - 1.5
0.5 - 4
400 V / 6 kV / 3 - 24 A
22 - 12 AWG, 300 V, 25 A
22 - 12 AWG, 300 V, 25 A
~ 250 V, ~ 300 V, 26 A

UL, CSA, NEMKO, ASE, SEV, FI, EZU, SKTC

Terminal Blocks

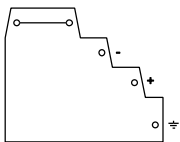
No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g	No. points	Sold in lots of	Unit Reference	Weight g
1	100	AB1 DDP235T	15.0	1	100	AB1 ET3235U	11.0	1	100	AB1 ET3235UT	16.0
1	100	AB1 DDP235TLP	15.0	-	-	-	-	1	100	AB1 ET3235UTLP	16.0
1	100	AB1 DDP235TLM	15.0	-	-	-	-	1	100	AB1 ET3235UTLM	16.0

Accessories (Dimensions in mm)

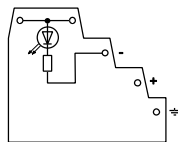
-	-	-	-	-	100	AB1 AB7P32	4.2	-	-	-	-
-	100	AB1 AB8P35	5.9	-	100	AB1 AB8P35	5.9	-	100	AB1 AB8P35	5.9
-	-	-	-	-	100	AB1 AB10M32	6.5	-	-	-	-
-	100	AB1 AB8M35	7.0	-	100	AB1 AB8M35	7.0	-	100	AB1 AB8M35	7.0
-	10	AB1 ACD2	5.0	-	-	-	-	-	-	-	-
12	10	AB1 ALD12R	5.0	12	10	AB1 ALD12R	5.0	12	10	AB1 ALD12R	5.0
12	10	AB1 ALD12B	5.0	12	10	AB1 ALD12B	5.0	12	10	AB1 ALD12B	5.0
100	10	AB1 ALD100R	170.0	100	10	AB1 ALD100R	170.0	100	10	AB1 ALD100R	170.0
100	10	AB1 ALD100B	170.0	100	10	AB1 ALD100B	170.0	100	10	AB1 ALD100B	170.0

Schemes

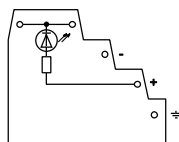
AB1 DDP235T



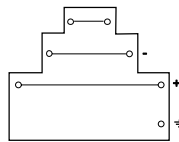
AB1 DDP235TLP
(R = 2.2 k, 0.35 W)



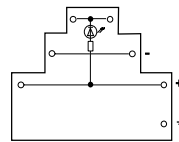
AB1 DDP235TLM
(R = 2.2 k, 0.35 W)



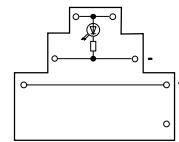
AB1 ET3235U (3)
AB1 ET3235UT



AB1 ET3235UTLP
(R = 2.2 k, 0.35 W)



AB1 ET3235UTLM
(R = 2.2 k, 0.35 W)



Terminal blocks

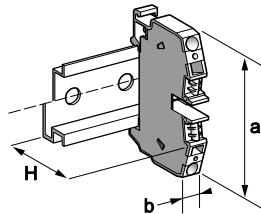
Screw technology

Trifunction installation terminals, screw clamp type

Clip-on mounting on 25 or 35 mm rails

Nominal c.s.a.

4 mm²



AB1 TRSN435

Dimensions in mm

Length	a
Width	b
Height with AM1 ED	59
Height with AM1 DE	51.5

Cabling c.s.a. in mm²

Flexible cable without cable end	0.5 - 4
Flexible cable with cable end	0.5 - 2.5
Solid core cable	0.5 - 6

Nominal Electrical Values

IEC 947-7-1	400 V / 6 kV / 3 - 24 A
UL-Data	22 - 10 AWG, 300 V, 20 A
UTE, category C	~ 250 V, = 250 V
VDE, group C	~ 380 V, = 450 V, 26 A

Approvals

Obtained under the marking type WKI 4 x-x-x	UL, CSA, ASE, MEEI, BBJ
---	-------------------------

Terminal Blocks

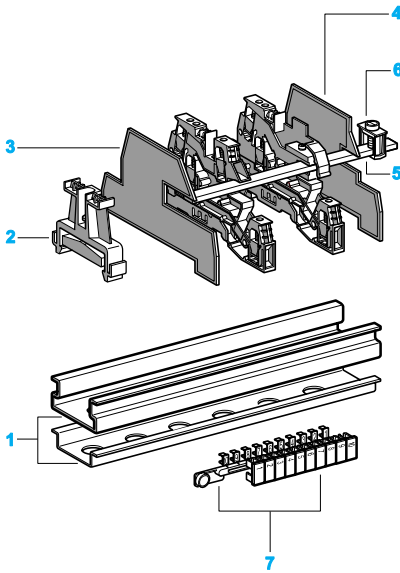
	No. points	Sold in lots of	Unit Reference	Weight g
Grey	-	50	AB1 TRSN435	28.0
Characteristics	Disconnectable neutral (blue), Protective Earth (green/yellow) and screw bar clamp			

Accessories (Dimensions in mm)

2	Plastic end stop	Width 8 on 25 or 35	-	100	AB1 AB8P35	5.9
2	Metal end stop	Width 8 on 25 or 35	-	100	AB1 AB8M35	7.0
3	End plate	Grey (thickness 2)	-	25	AB1 TM1N	3.7
4	Partition plate	Grey (thickness 1.5)	-	25	AB1 SM1N	3.1
5	Copper neutral bar	(10 x 3 x 1000)	-	10	AB1 PC3	298.0
6	Terminal clamps for neutral bar	16 mm ² , 8.4 width 35 mm ² , 17 width	-	10	AB1 EBN16 AB1 EBN35	8.9 19.5
7	Marking Accessories		See pages 6/70 and 6/71			

530044

6



Terminal blocks

Screw technology

Trifunction installation terminals, screw clamp type

Clip-on mounting on 25 - 35 mm rails

4 mm²



AB1 TRPN435

90.3

6

59

51.5

0.5 - 4

0.5 - 2.5

0.5 - 6

400 V / 6 kV / 3 - 26 A

22 - 10 AWG, 300 V, 20 A

~ 250 V, = 250 V

~ 380 V, = 450 V, 26 A

UL, CSA, ASE, MEEI, BBJ

4 mm²



AB1 TRNN435

90.3

6

59

51.5

0.5 - 4

0.5 - 2.5

0.5 - 6

400 V / 6 kV / 3 - 24 A

22 - 10 AWG, 300 V, 20 A

~ 250 V, = 250 V

~ 380 V, = 450 V, 26 A

UL, CSA, ASE, MEEI, BBJ

4 mm²



AB1 TRPN435UFM

90.3

6

59

51.5

0.5 - 4

0.5 - 2.5

0.5 - 6

400 V / 6 kV / 3 - 24 A

22 - 10 AWG

~ 250 V, = 250 V

~ 380 V, = 450 V, 26 A

UL, CSA, ASE, MEEI, BBJ

Terminal Blocks

No. points	Sold in lots of	Unit Reference	Weight g
-	50	AB1 TRPN435	28.0

Two phases, Protective Earth (green/yellow) and screw bar clamp

No. points	Sold in lots of	Unit Reference	Weight g
-	50	AB1 TRNN435	28.0

Neutral (blue), Phase, Protective Earth (green/yellow) and screw bar clamp

No. points	Sold in lots of	Unit Reference	Weight g
-	50	AB1 TRPN435UFM	28.0

Neutral (blue), Phase, Protective Earth (green/yellow) and screw bar clamp with phase/neutral "fault" indicator (1)

Accessories (Dimensions in mm)

-	100	AB1 AB8P35	5.9
-	100	AB1 AB8M35	7.0
-	25	AB1 TM1N	3.7
-	25	AB1 SM1N	3.1
-	10	AB1 PC3	298.0
-	10	AB1 EBN16	8.9
-	10	AB1 EBN35	19.5

-	100	AB1 AB8P35	5.9
-	100	AB1 AB8M35	7.0
-	25	AB1 TM1N	3.7
-	25	AB1 SM1N	3.1
-	10	AB1 PC3	298.0
-	10	AB1 EBN16	8.9
-	10	AB1 EBN35	19.5

-	100	AB1 AB8P35	5.9
-	100	AB1 AB8M35	7.0
-	25	AB1 TM1N	3.7
-	25	AB1 SM1N	3.1
-	10	AB1 PC3	298.0
-	10	AB1 EBN16	8.9
-	10	AB1 EBN35	19.5

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

Terminal blocks

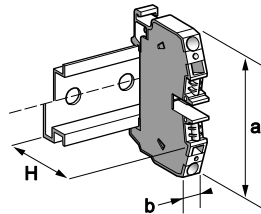
Screw technology

Disconnect, screw clamp type

Clip-on mounting on 25 rails

Nominal c.s.a.

4 mm²



AB1 SC435U

Dimensions in mm

Length	a	48 + 11.2 for open switch
Width	b	6
Height with AM1 ED	25	57
Height with AM1 D	25	49.5
Height with DZ5 MB	25	54

Cabling c.s.a. in mm²

Flexible cable without cable end	0.5 - 4
Flexible cable with cable end	0.5 - 2.5
Solid core cable	0.5 - 6

Nominal electrical values

IEC 947-7-1	800 V / 8 kV / 3 - 20 A
UL-Data	22 - 10 AWG, 600 V, 20 A
CSA-Data	22 - 10 AWG, 600 V, 20 A
UTE, category C	~ 500 V
VDE, group C	~ 750 V, = 900 V, 20 A

Approvals

Obtained under the marking type WK 4/TKM...
UL, CSA, NEMKO, ASE, SEV, FI, MEEI, EZU, SKTC

Terminal blocks

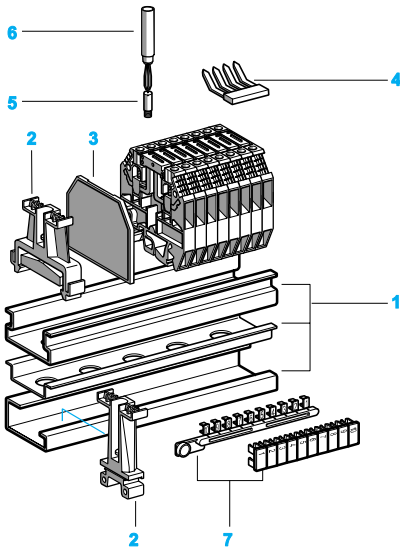
	No. points	Sold in lots of	Unit reference	Weight g
Grey	-	100	AB1 SC435U	12.0
Blue	-	100	AB1 SC435UBL	12.0
With 2 test sockets	Grey	100	AB1 SC435U2PT	12.0
Blue	-	100	AB1 SC435U2PTBL	12.0

Accessories (Dimensions in mm)

2	Plastic end stops	Width 7.5 on 25	-	100	AB1 AB7P32	4.2
		Width 8 on 25 or 35	-	100	AB1 AB8P35	5.9
2	Metal end stops	Width 10 on 25	-	100	AB1 AB10M32	6.5
		Width 8 on 25 or 35	-	100	AB1 AB8M35	7.0
3	End plates	Grey (thickness 1.5)	-	10	AB1 PS4	1.5
4	Insulated connector comb	2 poles	2	100	AB1 CC42SC	0.9
		3 poles	3	100	AB1 CC43SC	1.4
		4 poles	4	100	AB1 CC44SC	1.9
		10 poles	10	10	AB1 CC410SC	4.8
5	Test plug socket (Ø 2.3 mm)	-	50	AB1 A4	0.5	
6	Test plug (red)	-	50	AB1 AT1	1.7	
7	Marking accessories	See pages 6/70 and 6/71				

530007

6



Terminal blocks

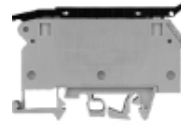
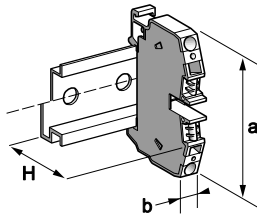
Screw technology

Fused disconnect, screw clamp type

Clip-on mounting on 25 rails

Nominal c.s.a.

4 mm²



AB1 FUSE435U

Dimensions in mm

Length	a
Width	b
Height with AM1 ED	25
Height with AM1 D	54.5
Height with DZ5 MB	59

Cabling c.s.a. in mm²

Flexible cable without cable end	0.5 - 4
Flexible cable with cable end	0.5 - 2.5
Solid core cable	0.5 - 6

Nominal electrical values

IEC 947-7-1	800 V / 8 kV / 3
UL-Data	22 - 10 AWG, 600 V
CSA-Data	22 - 10 AWG, 600 V
UTE, category C	~ 500 V
VDE, group C	~ 750 V, = 900 V

Approvals

Obtained under the marking type WK 4/THSi...

	...U5X	...U6X
Length	77.2	
Width	8	10
Height with AM1 ED		
Height with AM1 D		
Height with DZ5 MB		
Flexible cable without cable end		
Flexible cable with cable end		
Solid core cable		
IEC 947-7-1		
UL-Data	6.3 A	10 A
CSA-Data	15 A	15 A
UTE, category C	6.3 A	10 A
VDE, group C	6.3 A	10 A

UL, CSA, NEMKO, ASE, SEV, FI, EZU, SKTC

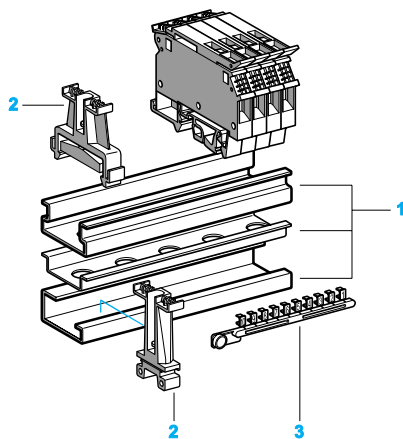
Terminal blocks

	No. points	Sold in lots of	Unit reference	Weight g
5 x 20 or 5 x 25 fuse (grey)	-	50	AB1 FUSE435U5X	16.0
	-	50	AB1 FUSE435U5XJ	16.0
	-	50	AB1 FUSE435U5XB	16.0
	-	50	AB1 FUSE435U5XM	16.0
6.3 x 32 fuse (grey)	-	50	AB1 FUSE435U6X	25.0
	-	50	AB1 FUSE435U6XJ	25.0
	-	50	AB1 FUSE435U6XB	25.0
	-	50	AB1 FUSE435U6XM	25.0

Accessories (Dimensions in mm)

2 Plastic end stops	Width 7.5 on	-	100	AB1 AB7P32	4.2
	Width 8 on 25 or	-	100	AB1 AB8P35	5.9
2 Metal end stops	Width 10 on	-	100	AB1 AB10M32	6.5
	Width 8 on 25 or	-	100	AB1 AB8M35	7.0
3 Marking accessories					See pages 6/70 and 6/71

5300038



Terminal blocks

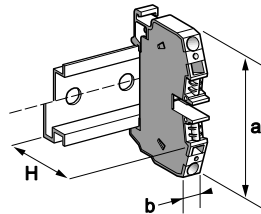
Screw technology

Component for diodes or resistors, screw clamp type

Clip-on mounting on 25 rails

Nominal c.s.a.

4 mm²



AB1 SF435U

Dimensions in mm

Length	a	48
Width	b	6
Height with AM1 ED		57+ carrier 19
Height with AM1 DE		49.5 + carrier 19
Height with DZ5 MB		54 + carrier 19

Cabling c.s.a. in mm²

Flexible cable without cable end	0.5 - 4
Flexible cable with cable end	0.5 - 2.5
Solid core cable	0.5 - 6

Nominal electrical values

IEC 947-7-2	800 V / 8 kV / 3 - 6.3 A
UL-Data	22 - 10 AWG, 300 V, 10 A
CSA-Data	20 - 10 AWG, 250 V, 6.3 A
UTE, category C	~ 500 V, = 500 V
VDE, group C	~ 750 V, = 900 V, 10 A

Approvals

Obtained under the marking type WK 4 TKG
UL, CSA, NEMKO, ASE, SEV, FI, MEEI, EZU, SKTC

Terminal blocks removable carrier

	No. points	Sold in lots of	Unit reference	Weight g
Terminal blocks	Grey	100	AB1 SF435U	9.0
Removable carrier	For diode or resistor (1)	100	AB1 SV1	4.5
	With diode 1N4007.1	100	AB1 SV2	4.5
Removable carriers, 5 x 20 fuse (1)	Fuse only	100	AB1 SF520	4.5
	With 24 V red LED	100	AB1 SF520B	4.5
	With 220 V red LED	100	AB1 SF520M	4.5

Accessories (Dimensions in mm)

Plastic end stops	Width 7.5 on	100	AB1 AB7P32	4.2
	Width 8 on 25 or	100	AB1 AB8P35	5.9
Metal end stops	Width 10 on	100	AB1 AB10M32	6.5
	Width 8 on 25 or	100	AB1 AB8M35	7.0
End plates	Grey (thickness 1.5)	50	AB1 PS4	1.5
Marking accessories	See pages 6/70 and 6/71			

Characteristics of carrier

Nominal voltage	Nominal current (Power loss 1.5 W)	
	Single terminal	Juxtaposed
250 V	6.3 A	4 A

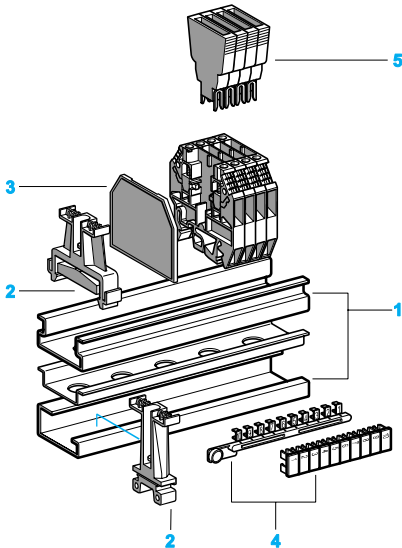
Characteristics of blown fuse indicators

AB1 SF520B	Current consumption	AB1 SF520M	Current consumption
24 V	10.3 mA	220 - 250 V	0.3 mA

(1) Not included.

530010

6



Terminal blocks

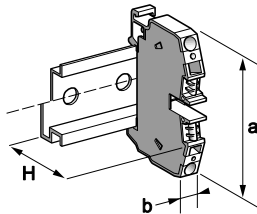
Screw technology

Component for diodes or resistors, screw clamp type

Clip-on mounting on 2.5 mm rails

Nominal c.s.a.

2.5 mm²



AB1 D11435U

Dimensions in mm

Length	a	49
Width	b	12
Height with AM1 ED	2.5	65.5
Height with AM1 D	2.5	58
Height with DZ5 MB	2.5	62.5

Cabling c.s.a. in mm ²	Flexible cable without cable end	0.5 - 2.5
	Flexible cable with cable end	0.5 - 1.5
	Solid core cable	0.5 - 2.5

Nominal electrical values	IEC 947-7-2	800 V / 8 kV / 3 - 26 A
	UL-Data	22 - 14 AWG, 300 V, 6 A
	UTE, category C	~ 125 V, ~ 125 V
	VDE, group C	~ 750 V, ~ 900 V, 24 A

Approvals	Obtained under the marking type 9786U/12	-
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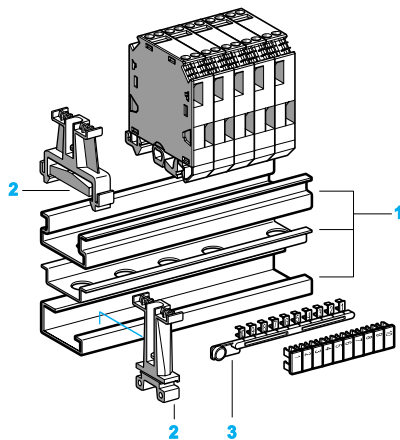
Terminal blocks fixed carrier

	No. points	Sold in lots of	Unit reference	Weight g
2 In, 2 Out Grey	2/2	50	AB1 D11435U	25.0

Accessories (Dimensions in mm)

2	Plastic end stops	Width 7.5 on 2.5	-	100	AB1 AB7P32	4.2
		Width 8 on 2.5 or 2.5	-	100	AB1 AB8P35	5.9
2	Metal end stops	Width 10 on 2.5	-	100	AB1 AB10M32	6.5
		Width 8 on 2.5 or 2.5	-	100	AB1 AB8M35	7.0
3	Marking accessories		See pages 6/70 and 6/71			

5330009

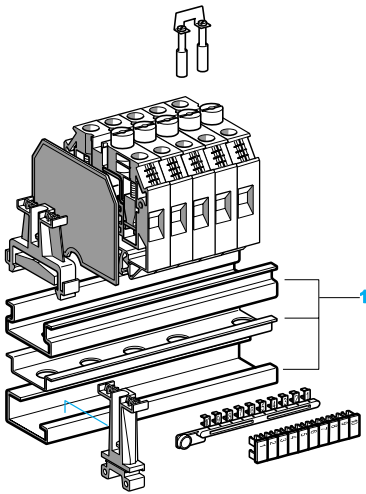


Terminal blocks

Screw technology

Fused (fixed carrier), screw clamp type

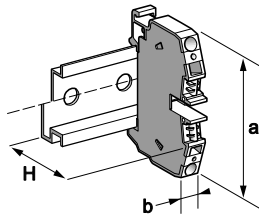
531563



Clip-on mounting on 25 rails

Nominal c.s.a.

10 mm²



AB1 FU10135U

Dimensions in mm

Length	a	65
Width	b	12
Height with AM1 ED		66 + fuse cap 10.8
Height with AM1 D		58.5 + fuse cap 10.8
Height with DZ5 MB		63 + fuse cap 10.8

Cabling c.s.a. mm²

Flexible cable without cable end	1 - 10
Flexible cable with cable end	1 - 10
Solid core cable	10 - 16

Nominal electrical values (1)

IEC 947-7-1	500 V / 6 kV / 3
UL-Data see table below	22 - 6 AWG, 600 V, 15 A
CSA-Data see table below	16 - 6 AWG, 600 V, 15 A
UTE, category C	~ 400 V, = 250 V, 10 A
VDE, group C see table below	~ 500 V, = 600 V, 15 A

Approvals

Obtained under the marking type WK 10 Si/U...	CSA, NEMKO, DEMKO, ASE, DNV, LR, MEEI, SKTC
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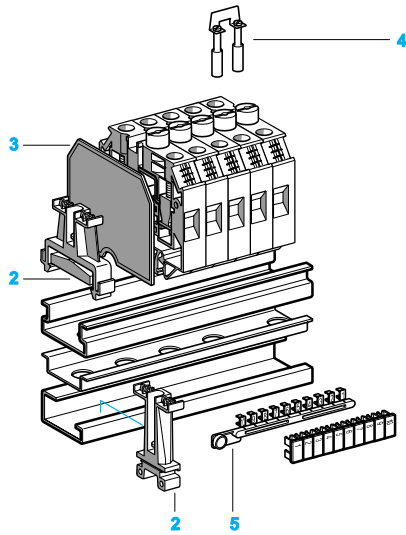
(1) Voltage and current are determined by the fuse and link used.

Terminal blocks

Screw technology

Fused (fixed carrier), screw clamp type

531564



Terminal blocks (1)

		No. points	Sold in lots of	Unit reference	Weight g
5 x 20 fuse (Grey)	Without indicator lamp	-	50	AB1 FU10135U	39.0
	With yellow 28 V LED	-	50	AB1 FU10135UB	39.0
	With red 250 V LED	-	50	AB1 FU10135UU	39.0
5 x 25 fuse (Grey)	without indicator lamp	-	50	AB1 FU10235U	39.0
5 x 30 fuse (Grey)	without indicator lamp	-	50	AB1 FU10335U	39.0
6.3 x 32 fuse (Grey)	Without indicator lamp	-	50	AB1 FU10435U	39.0
	With yellow 28 V LED	-	50	AB1 FU10435UB	39.0
	With red neon 110-500 V	-	50	AB1 FU10435UFS	39.0

Accessories (Dimensions en mm)

2	Plastic end stops	Width 7.5 on	-	100	AB1 AB7P32	4.2
		Width 8 on	-	100	AB1 AB8P35	5.9
2	Metal end stops	Width 10 on	-	100	AB1 AB10M32	6.5
		Width 8 on	-	100	AB1 AB8M35	7.0
3	End plate	Grey (thickness 2)	-	50	AB1 TF	4.8
4	Jumper bar with screws	2 poles (non insulated)	2	50	AB1 BF2	4.7
		30 poles (non insulated)	30	10	AB1 BF	12.5
5	Marking accessories		See pages 6/70 and 6/71			

Electrical values of blown fuse indicators

	UL	VDE	CSA
AB1 FU10435UB			
AB1 FU10135UB	28 V	28 V	28 V
Current consumption : 24 mA			
AB1 FU10435UFS			
AB1 FU10135UU	150 V	110 - 500 V	500 V
Current consumption : 0.16 - 0.8 mA			

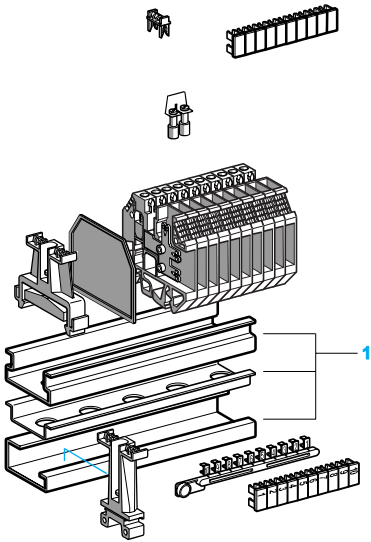
(1) Fuses not included.

Terminal blocks

Screw technology

Screw-clip type

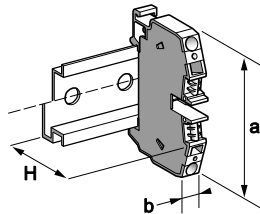
6311665



Clip-on mounting on 25 rails

Nominal c.s.a.

4 mm²



AB1 F0035U

Dimensions in mm

Length	a
Width	b
Height with AM1 ED	25
Height with AM1 D	49
Height with DZ5 MB	54

	AB1 FV	AB1 FC
	48	68
6		
	58.5	66.5

Cabling c.s.a. in mm²

Flexible cable without cable end	0.5 - 4 (screw clamps) 0.5 - 2.5 (3 clips 6.3 x 0.8) 0.5 - 1.5 (6 clips 2.8 x 0.8)
Solid cable	0.5 - 6

0.5 - 4 (screw clamps)	
0.5 - 2.5 (3 clips 6.3 x 0.8)	
0.5 - 1.5 (6 clips 2.8 x 0.8)	
0.5 - 6	

Nominal electrical values

IEC 947-7-1	800 V / 8 kV / 3 - 20 A
UL-Data	22-12 AWG, 300 V, 10 A
CSA-Data	22-12 AWG, 300 V, 10 A
UTE, category C	~ 400 V, = 250 V
VDE, group C	~ 750 V, = 900 V, 20 A

800 V / 8 kV / 3 - 20 A	
22-12 AWG, 300 V, 10 A	
22-12 AWG, 300 V, 10 A	
~ 400 V, = 250 V	
~ 750 V, = 900 V, 20 A	

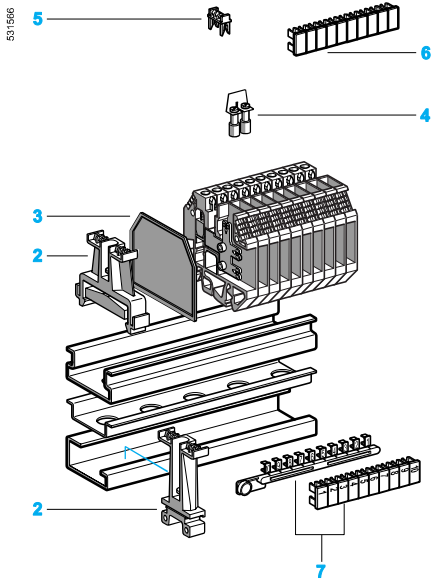
Approvals

Obtained under the marking type WK4 3-6 S1 K/U

UL, CSA, GL, ASE, SKTC

Terminal blocks

Screw technology
Screw-clip type



Terminal blocks

	No. points	Sold in lots of	Unit reference	Weight g
Screw-clip Top and side access (grey)	–	100	AB1 FV135U	11.5
Screw-clip Top access (grey)	–	100	AB1 FC335U	11.5
Clip-clip Top access (grey)	–	100	AB1 FF235U	11.5

Accessories (Dimensions in mm)

2 Plastic end stops	Width 7.5 on	–	100	AB1 AB7P32	4.2
	Width 8 on	–	100	AB1 AB8P35	5.9
3 End cover (thickness 1.5)	AB1-FV type	–	50	AB1 TC01	2.5
	AB1-FC type	–	50	AB1 TC3	2.6
	AB1-FF type	–	50	AB1 TC02	2.6
4 Jumper bar with screws	Non insulated	–	10	AB1 AL4	305.0
	Insulated	–	10	AB1 ALN42	1.7
5 Protective cover for single commoning link		–	100	AB1 CA2	0.1
6 Protective cover for 10-pole commoning link		–	50	AB1 CA410ET	1.0
7 Marking accessories	See pages 6/70 and 6/71				

Clip-in marker strips (1)

Description **10 consecutive figures or numbers** (and phase or voltage markers with 6 mm pitch)

For complete references, see below

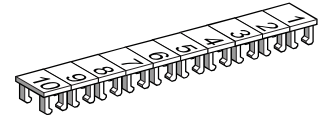
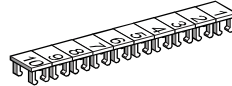
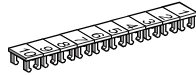
AB1-B5●●●

AB1-B6●●●

AB1-B8●●●

Characteristics:

Material: 6-6 polyamide
Colour: black markings on white background



5 mm pitch

Sold in lots of 25 identical strips

Unit weight: 0.6 g

Marking	Strip reference
Blank	AB1-BV5
1...10	AB1-B510
11...20	AB1-B520
21...30	AB1-B530
31...40	AB1-B540
41...50	AB1-B550
51...60	AB1-B560
61...70	AB1-B570
71...80	AB1-B580
81...90	AB1-B590
91...100	AB1-B5100

6 mm pitch

Sold in lots of 25 identical strips

Unit weight: 0.7 g

Marking	Strip reference
Blank	AB1-BV6
1...10	AB1-B610
11...20	AB1-B620
21...30	AB1-B630
31...40	AB1-B640
41...50	AB1-B650
51...60	AB1-B660
61...70	AB1-B670
71...80	AB1-B680
81...90	AB1-B690
91...100	AB1-B6100
L1	AB1-B6L1
L2	AB1-B6L2
L3	AB1-B6L3
+ Red	AB1-BV6RP
- Blue	AB1-BV6BM

8 mm pitch

Sold in lots of 25 identical strips

Unit weight: 0.7 g

Marking	Strip reference
Blank	AB1-BV8
1...10	AB1-B810
11...20	AB1-B820
21...30	AB1-B830
31...40	AB1-B840
41...50	AB1-B850
51...60	AB1-B860
61...70	AB1-B870
71...80	AB1-B880
81...90	AB1-B890
91...100	AB1-B8100

(1) Mounting possibilities:

- Terminal blocks with 5, 6 or 8 mm pitch

The use of marker strips with the same pitch as the terminal blocks enables rapid marking in groups of 10.

- Terminal blocks with 10 mm pitch and above.

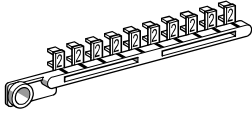
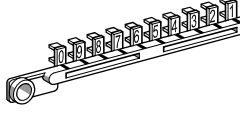
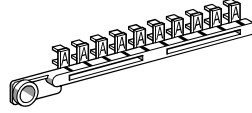
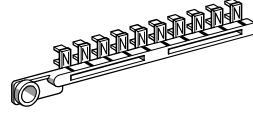
Marker strips can also be used (5, 6 or 8 mm pitch) by simply detaching the marker required and clipping it into the terminal block.

Note: Each side of the terminal block can be fitted with a marker (1 to 3 figures).

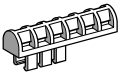

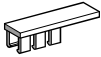
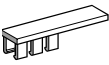
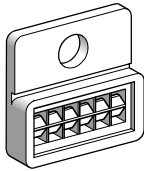
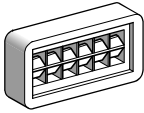
Other versions

Marker strips with numbers 101 to 110, etc. up to 991 to 999. Please consult your Regional Sales Office.

Strips of clip-in markers (2)

10 identical numbers (or symbols)		10 numbers 0 to 9		10 identical capital letters		10 identical capital letters	
AB1-R00		AB1-R11		AB1-G00		AB1-G00	
							
Sold in lots of 25 identical strips Unit weight: 2 g		Sold in lots of 25 identical strips Unit weight: 2 g		Sold in lots of 25 identical strips Unit weight: 2 g		Sold in lots of 25 identical strips Unit weight: 2 g	
Marking	Reference of 10 number tag strip	Marking	Reference of 10 number tag strip	Marking	Reference of 10 letter tag strip	Marking	Reference of 10 letter tag strip
Blank	AB1-RV	0...9	AB1-R11	A	AB1-GA	N	AB1-GN
1	AB1-R1			B	AB1-GB	O	AB1-GO
2	AB1-R2			C	AB1-GC	P	AB1-GP
3	AB1-R3			D	AB1-GD	Q	AB1-GQ
4	AB1-R4			E	AB1-GE	R	AB1-GR
5	AB1-R5			F	AB1-GF	S	AB1-GS
6	AB1-R6			G	AB1-GG	T	AB1-GT
7	AB1-R7			H	AB1-GH	U	AB1-GU
8	AB1-R8			I	AB1-GI	V	AB1-GV
9	AB1-R9			J	AB1-GJ	W	AB1-GW
0	AB1-R0			K	AB1-GK	X	AB1-GX
+	AB1-R12			L	AB1-GL	Y	AB1-GY
-	AB1-R13			M	AB1-GM	Z	AB1-GZ

Marking components

Holder for 6 markers	Blank clip-on marker	Clip-on marker with earth symbol \perp (3)	Marker holder for screw fixing to any type of support	Adhesive marker holder for fixing to any type of support
AB1-SR6	AB1-SA0	AB1-RT	AR1-SB2	AR1-SB3
	  			
Sold in lots of 200	Sold in lots of 500	Sold in lots of 500	Sold in lots of 100	Sold in lots of 50
Unit weight: 0.6 g	Unit weight: 0.3 g (AB1-SA1, SA2) 0.4 g (AB1-SA3)	Unit weight: 0.3 g	Unit weight: 1 g	Unit weight: 1 g
	Size mm Unit reference	Size mm Unit reference	Size mm Unit reference	Size mm Unit reference
Holder for up to 6 AB1-R or G markers	4.5 x 8.3 AB1-SA1 4.5 x 14 AB1-SA2 4.5 x 19 AB1-SA3	4.5 x 8.3 AB1-RT	20 x 20 AR1-SB2	20 x 10 AR1-SB3

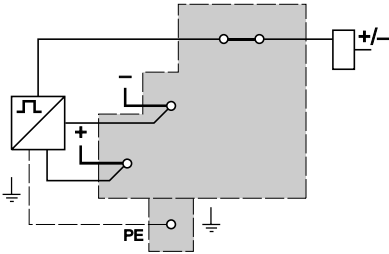
(1) Terminal blocks type AB1 or DB6 can also be used with other Telemecanique products such as thermal-magnetic circuit-breakers, modular contactors and D and E range contactors, etc.
 (2) Mounting possibilities:
 - each side of the terminal block can be fitted with 4 markers (each 1 number or letter) or, alternatively, 6 AB1-R or G markers (see above), by using holder AB1-SR6.
 (3) Black on white background.

Terminal blocks

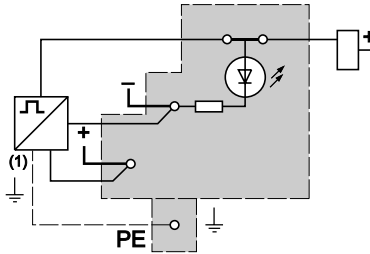
Blocks for proximity sensors and multifunction blocks
Recommended cabling and connection

Cabling of terminal block for proximity sensors

AB1-DDP235U, AB1-DDP235T

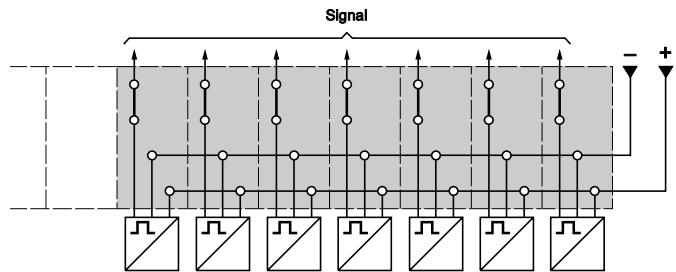
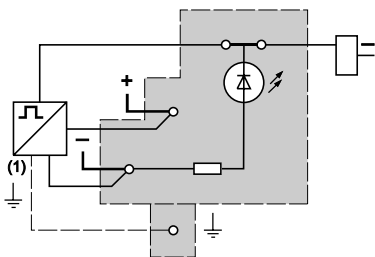


AB1-DDP25ULM, AB1-DDP235TLM



(1) PNP type sensor.

AB1-DDP235ULP - AB1-DDP235TLP



(1) NPN type sensor.

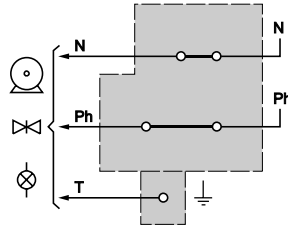
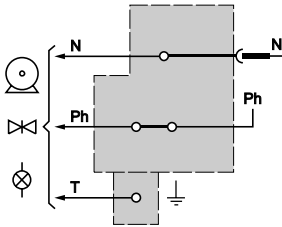
Terminal blocks

Blocks for proximity sensors and multifunction blocks
Recommended cabling and connection

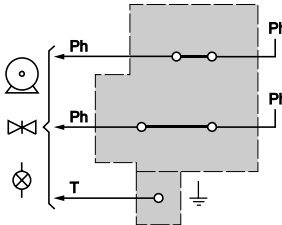
Cabling of multifunction terminal block

AB1-TRSN435

AB1-TRNN435



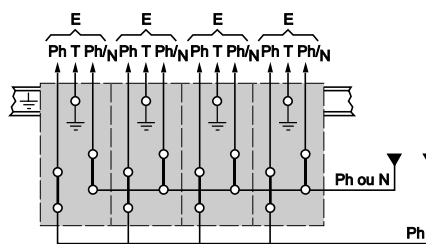
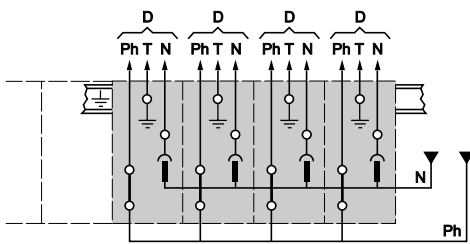
AB1-TRPN435



Examples for cabling several multifunction terminal blocks

AB1-TRSN435

AB1-TRNN435 or AB1-TRPN435



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ABF B50S01	4/45	ABL 7RM2401	1/7		and 7/8		and 7/8		and 5/47
ABF C08R02●	3/8, 3/14	ABL 7RP1205	1/17	AZ5 CE007●	7/6	DZ5 CE042●	7/6	FTX DP12●●	5/27
	and 4/43	ABL 7RP240●	1/17		and 7/8		and 7/8		and 5/46
ABF C08R12●	3/8, 3/14	ABL 7RP2410	1/17	AZ5 CE010●	7/6	DZ5 CE043●	7/6	FTX DP12●5	5/27
	and 4/43	ABL 7RP4803	1/17		and 7/8		and 7/8		and 5/47
ABF C20R200	4/44	ABL 7UEQ24100	1/17	AZ5 CE015●	7/6	DZ5 CE062●	7/6	FTX DP21●●	5/27
ABF F25S200	4/44	ABL 7UEQ24200	1/17		and 7/8		and 7/8		and 5/47
	and 4/51	ABL 7UES24050	1/17	AZ5 CE025●	7/6	DZ5 CE063●	7/6	FTX DP22●●	5/27
ABF H14H150	4/51	ABL 7UPS24100	1/17		and 7/8		and 7/8		and 5/47
ABF H14H300	4/51	ABL 7UPS24200	1/17	AZ5 DE007●	7/6 to 7/8	DZ5 CEB005●	7/6	FTX DP32●●	5/27
ABF H16H150	4/51	ABL 7UPS24400	1/17	AZ5 DE010●	7/6 to 7/8		and 7/8		and 5/46
ABF H16H300	4/51	ABR 1E101M	3/8	AZ5 DE015●	7/6 to 7/8	DZ5 CEB007●	7/6	FTX DP12L12	5/27
ABF H20H100	4/44	ABR 1E111●	3/8	AZ5 DE025●	7/6 to 7/8		and 7/8		and 5/47
ABF H20H151	4/45	ABR 1E112F	3/8			DZ5 CEB010●	7/6	FTX ES00	5/28
ABF H20H20●	4/44	ABR 1E118●	3/8	D			and 7/8		and 5/47
	and 4/45	ABR 1E301M	3/8	DB6 CD02	6/40	DZ5 CEB015●	7/6	FTX IB12●●	5/27
ABF H20H300	4/44	ABR 1E311●	3/8	DB6 CD1●●	6/40		and 7/8	FTX MLA10	5/28
	and 4/45	ABR 1E312F	3/8	DB6 DD10●	6/41	DZ5 CEB025●	7/6		and 5/47
ABF H20H501	4/45	ABR 1E318●	3/8	DB6 ED0●	6/41		and 7/8		
ABF H28H150	4/51	ABR 1E411●	3/8	DB6 FD0●	6/41				
ABF H28H300	4/51	ABR 1E412F	3/8	DZ5 CA00●●	7/7	F		R	
ABF H32H150	4/51	ABR 1E418●	3/8		and 7/9	FTB 1CN08E08SP0	5/26	RSB 1A120●●	2/5
ABF H32H300	4/51	ABR 1S102B	3/8	DZ5 CA01●●	7/7	FTB 1CN12E04SP0	5/26	RSB 1A160●●	2/5
ABF H34H100	4/45	ABR 1S111F	3/8		and 7/9	FTB 1CN16●P0	5/26	RSB 2A080●●	2/5
ABF H34H200	4/45	ABR 1S118●	3/8	DZ5 CA025●	7/7	FTB 1DN08E08CM0	5/26	RSZ E1S35M	2/5
ABF H34H300	4/45	ABR 1S302B	3/8		and 7/9	FTB 1DN08E08SP0	5/26	RSZ E1S48M	2/5
ABF H40H15●	4/50	ABR 1S311F	3/8	DZ5 CA042●	7/7	FTB 1DN12E04SP0	5/26	RSZ L300	2/5
ABF H40H30●	4/50	ABR 1S318●	3/8		and 7/9	FTB 1DN16C●0	5/26	RSZ R215	2/5
ABF M04S20●	4/49	ABR 1S402B	3/8	DZ5 CA043	7/7	FTB 1DN16E●0	5/26	RZM 021●●	2/5
ABF M08S20●	4/49	ABR 1S411F	3/8	DZ5 CA062●	7/7	FTB 1DP08E08CM0	5/26	RZM 031BN	2/5
ABF M16H15●	4/48	ABR 1S418●	3/8		and 7/9	FTB 1DP08E08SP0	5/26	RZM 031FPD	2/5
ABF M16H30●	4/48	ABR 1S602B	3/8	DZ5 CA063	7/7	FTB 1DP12E04SP0	5/26	RZM 031RB	2/5
ABF M16S201	4/49	ABR 1S611F	3/8	DZ5 CA102●	7/7	FTB 1DP16C●0	5/26	RZM 040W	2/5
ABF M32H15●	4/49	ABR 1S618●	3/8		and 7/9	FTB 1DP16E●0	5/26	RZM 041BN7	2/5
ABF M32H30●	4/49	ABR 2E111M	3/14	DZ5 CA103●	7/7	FTB 1IB08E08SP1	5/26	RZM 041FU7	2/5
ABF R16H20●	4/50	ABR 2E112●	3/14		and 7/9	FTB 1IB12E04SP1	5/26	T	
ABF S08H20●	4/51	ABR 2E115F	3/14	DZ5 CA162●	7/7	FTB 1IB16●P1	5/26	TLX L FBC M	5/28
ABF S16H200	4/51	ABR 2E116F	3/14		and 7/9	FTM 1AE04C12●	5/46		and 5/47
ABF S24H200	4/51	ABR 2EB312B	3/14	DZ5 CA163●	7/7	FTM 1AS04C12●	5/46	TSX BLK ●1	4/45
ABF S25S30●	4/45	ABR 2S1●2B	3/14		and 7/9	FTM 1CN10	5/46	TSX CAP 030	4/44
	and 4/47	ABR 7S11	4/41	DZ5 CA253●	7/7	FTM 1DD08C08●	5/46	TSX CCP ●15	4/44
ABF Y25S200	4/44	ABR 7S2●	4/41		and 7/9	FTM 1DD08C12●	5/46	TSX CDP 053	4/44
ABL 6AM0●	1/27	ABR 7S33●	4/41	DZ5 CA352●	7/7	FTM 1DD16C12●	5/46	TSX CDP 103	4/44
	and 1/34	ABR 7S37	4/41		and 7/9	FTM 1DE08C08●	5/46	TSX CDP 203	4/44
ABL 6RF2401●●	1/27	ABS 2EA01E●	3/20	DZ5 CA353●	7/7	FTM 1DE08C12●	5/46	TSX CDP 30●	4/44
ABL 6RF2402●●	1/27	ABS 2EA02E●	3/20		and 7/9	FTM 1DE16C12●	5/46	TSX CDP 50●	4/44
ABL 6RF2405●●	1/27	ABS 2EC01E●	3/20	DZ5 CA502●	7/7	FTM 1D●10	5/46	TSX CXP 213	4/44
ABL 6RF24●●	1/27	ABS 2SA0●MB	3/20		and 7/9	FTX BLA10	5/28	TSX CXP 613	4/44
ABL 6TD02●	1/34	ABS 2SC0●EB	3/20	DZ5 CA503●	7/7	FTX C7●●	5/28	TSX PBSCA100	5/27
ABL 6TD04●	1/34	ABS 7EA3●5	4/41		and 7/9		and 5/47	TSX PBSCA400	5/27
ABL 6TD06●	1/34	ABS 7EC3AL	4/41	DZ5 CE002●●	7/6	FTX CA31●●	5/47		
ABL 6TD100●	1/34	ABS 7EC3●2	4/41	DZ5 CE003●●	7/6	FTX CA32●●	5/47		
ABL 6TD10●	1/34	ABS 7SA2M	4/41	DZ5 CE005●	7/6	FTX CB32●●	5/47		
ABL 6TD160●	1/34	ABS 7SA3MA	4/41		and 7/8	FTX CBL12	5/47		
ABL 6TD16●	1/34	ABS 7SC1B	4/41	DZ5 CE005L12●	7/6	FTX CM08B	5/7, 5/28		
ABL 6TD250●	1/34	ABS 7SC2E	4/41		and 7/8		and 5/47		
ABL 6TD25●	1/34	ABS 7SC3BA	4/41	DZ5 CE005L6●	7/6	FTX CM12B	5/6, 5/7,		
ABL 6TD40●	1/34	ABS 7SC3E	4/41		and 7/8		5/28		
ABL 6TD63●	1/34	AM1 PA●	6/52	DZ5 CE007●	7/6		and 5/47		
ABL 6TS02●	1/34	AR1 MA01	7/9		and 7/8	FTX CN12F5	5/27		
ABL 6TS04●	1/34	AR1 MB01	7/9	DZ5 CE007L6●	7/6		and 5/46		
ABL 6TS06●	1/34	AR1 MC01●	7/9		and 7/8	FTX CN12M5	5/27		
ABL 6TS100●	1/34	AR1 SB3	1/27, 1/34	DZ5 CE010●	7/6		and 5/46		
ABL 6TS10●	1/34		and 4/43		and 7/8	FTX CN32●●	5/27		
ABL 6TS160●	1/34	AR1 SC0●	7/9	DZ5 CE010L12●	7/6		and 5/46		
ABL 6TS16●	1/34	AR2 XA335983	6/41		and 7/8	FTX CNCT1	5/27		
ABL 6TS250●	1/34	AT1 HB2	7/11	DZ5 CE010L6●	7/6		and 5/47		
ABL 6TS25●	1/34	AT1 PA●	7/10		and 7/8	FTX CNTL12	5/27		
ABL 6TS40●	1/34		and 7/11	DZ5 CE015	7/6		and 5/46		
ABL 6TS63●	1/34	AT1 PS1	7/11	DZ5 CE0153●	7/6	FTX CPE10	5/27		
ABL 7CEM240●●	1/17	AT2 PA●	7/10		and 7/8	FTX CY1208	5/7, 5/28		
ABL 7RE240●	1/17	AT2 PB1	7/11	DZ5 CE015D	7/8		and 5/47		
ABL 7RE2410	1/17	AT2 PE1	7/10	DZ5 CE015L6●	7/6	FTX CY1212	5/6, 5/7,		
ABL 7REQ24050	1/17	AT2 PT●	7/11		and 7/8		5/28		
ABL 7REQ24100	1/17	AT2 TRIF01	7/10	DZ5 CE02●	7/6		and 5/47		

Technical information

Protective treatment according to climatic environment

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

In order to make the correct choice of protective finish, two points should be remembered :

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

All climates treatment "TC"

This is the standard treatment for the Telemecanique brand equipment and is suitable for the vast majority of applications.

It is the equivalent of treatments described as "Klimafest", "Climateproof", "Total tropicalisation" or "Super tropicalisation" and meets the same requirements, in particular :

- 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 authorities : BV-LROS-GL-DNV-RINA.

Characteristics

- Steel components are usually treated with zinc chromate and, 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 stoved paint finish, applied over a primary phosphate protective coat, or are galvanised (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	(°C)	20	40	50
Relative humidity	(%)	95	80	50

- It may also be used where the above limits are only exceeded accidentally or for very short periods, or where temperature variations are not sufficient or fast enough to cause heavy condensation or dripping water on the equipment.
"TC" treatment is therefore suitable for all latitudes, including tropical and equatorial regions, where the equipment is mounted in normal, ventilated industrial locations. Being sheltered from external climatic conditions, temperature variations are small, the risk of condensation is minimised 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, where the equipment, in tropical regions, is mounted outdoors, or where 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 decimetre of enclosure), switched 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 in normal running is sufficient to provide this temperature difference).
- For pilot devices, the use of "TC" treatment can be extended to outdoor use provided the enclosure is made of light alloys, zinc alloys or plastic material. In this case, it is essential to ensure that the degree of protection against penetration of liquids and solid objects is suitable for the applications involved.

Technical information

Protective treatment according to climatic environment

“TH” treatment for hot and humid environments

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

Plastic insulating components are also resistant to attacks from insects such as termites and cockroaches. These properties have 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. On the other hand, certain operating conditions in temperate climates may well 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 IEC 112, NF C 26-220, DIN 5348).
- Metal enclosures receive a top-coat of stoved, fungicidal paint, applied over a rust inhibiting undercoat. Components with “TH” treatment may be subject to a surcharge (1). Please consult your Regional Sales Office.

(1) A large number of the Telemecanique brand products are “TH” treated as standard and are, therefore, not subject to a surcharge.

Protective treatment selection guide

Location	Environmental conditions	Duty cycle	Internal heating of enclosure when not in use	Type of climate	Protective treatment of components	Protective treatment of enclosure
Indoors	No dripping water or condensation	Unimportant	Unnecessary	Unimportant	“TC”	“TC”
	Presence of dripping water or condensation	Frequent switching off for periods of more than 1 day	No	Temperate	“TC”	“TH”
			Yes	Equatorial	“TH”	“TH”
		Continuous	Unnecessary	Unimportant	“TC”	“TH”
Outdoors (sheltered)	No dripping water or dew	Unimportant	Unnecessary	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”
			Yes	Equatorial	“TH”	“TH”
		Continuous	Unnecessary	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 controllers CCX and flush mountable operator terminals XBT) necessitate the use of an enclosure providing a degree of protection to at least IP 54, as defined by the standards IEC 664 and NF C 20 040, for use in industrial applications or in environmental conditions requiring a “TH” treatment.

These electronic products, including flush mountable products, must have a degree of protection to at least IP 20 (either provided by the enclosure itself or following installation) for restricted access locations where the degree of pollution does not exceed 2 (a test booth not containing machinery or other dust producing activities, for example).

Special treatments

For highly corrosive industrial environments, Schneider Electric is able to offer special protective treatments. Please consult your Regional Sales Office.

Technical information

Product standards and approvals

Standardisation

Conformity to standards

The Telemecanique brand products satisfy, in the majority of cases, national (for example: BS in Great Britain, NF in France, DIN in Germany), European (for example: CENELEC) or international (IEC) standards. 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 assembled equipment, machine systems or installations to conform to their appropriate standards (for example: IEC 60204, 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),
- an approval certificate or agreement, in the countries where this procedure is required or for particular specifications, such as those existing in the merchant navy.

Code	Standards body Name	Abbreviation	Country
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	Gosudarstvenno 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). Arrived at through 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.

The European standards are now incorporated within the French standards and carry the prefix NF EN. Under the "Technical Union of Electricity" (UTE), the French version of the corresponding European standard carries a double notation: European reference (NF EN ...) and classification (C ...).

Therefore, the standard NF EN 60947-4-1 relating to motor contactors and starters, effectively constitutes the French version of the 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 the 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 harmonisation of the regulations pertaining to each member country 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 applies to each member country. 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 and are referred to as "essential requirements".

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

As a general rule, the manufacturer certifies conformity to the essential requirements of the Directive(s) for his product by affixing a $\text{C}\ \text{C}$ mark.

The $\text{C}\ \text{C}$ mark is affixed to Telemecanique brand products, as defined by French and European regulations.

Significance of the $\text{C}\ \text{C}$ mark

- The $\text{C}\ \text{C}$ mark affixed to a product signifies that the manufacturer certifies that the product conforms to the relevant European Directive(s) which concern him ; 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 $\text{C}\ \text{C}$ mark is intended solely for national market control authorities.
- The $\text{C}\ \text{C}$ mark must not be confused with a conformity marking.

Technical information

Product standards and approvals

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, 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 1st January 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 1st January 1996.

ASEFA-LOVAG certification

The function of ASEFA (Association des Stations d'Essais Française d'Appareils électriques - *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 authorised by the French authorisation committee (COFRAC).

ASEFA is now a member of the European accord group LOVAG (Low Voltage Agreement Group). This means that any certificates issued by LOVAG/ASEFA are recognised by all the authorities forming the membership 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 Electriska Materiel Kontrollnatanalen	Sweden

Approvals

In some countries, the approval of certain electrical equipment is required by law or by the market. In this case, an approval certificate is issued by the official test authority.

Each approved component must bear the relevant quality label when this is mandatory:

Code	Approval authority	Country
CSA	Canadian Standards Association	Canada
UL	Underwriters Laboratories	USA

Note on approvals issued by the Underwriters Laboratories (UL). There are two levels of approval:

"Recognized" (R) 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 approval 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 approval symbol.

Marine classification authorities

Prior approval by certain marine classification authorities 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
LROS	Lloyd's Register of Shipping	Great Britain
NKK	Nippon Kaiji Kyokai	Japan
RINA	Registro Italiano Navale	Italy
RRS	Register of Shipping	Russia

Note

For further details on a specific product, please refer to the "Characteristics" pages in this catalogue or consult your Regional Sales Office.

Technical information

Degrees of protection provided by enclosures

Degrees of protection against the penetration of solid bodies, water and personnel access to live parts

The European standard EN 60529 dated October 1991, IEC publication 529 (2nd edition - November 1989), defines a coding system (IP code) for indicating the degree of protection provided by electrical equipment enclosures against accidental direct contact with live parts and against the ingress of solid foreign objects or water.

This standard does not apply to protection against the risk of explosion or conditions such as humidity, corrosive gasses, fungi or vermin.

Certain equipment is designed to be mounted on an enclosure which will contribute towards achieving the required degree of protection (example : control devices mounted on an enclosure).

Different parts of an equipment can have different degrees of protection (example : enclosure with an opening in the base).

Standard NF C 15-100 (May 1991 edition), section 512, table 51 A, provides a cross-reference between the various degrees of protection and the environmental conditions classification, relating to the selection of equipment according to external factors.

Practical guide UTE C 15-103 shows, in the form of tables, the characteristics required for electrical equipment (including minimum degrees of protection), according to the locations in which they are installed.






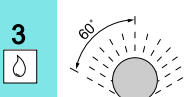


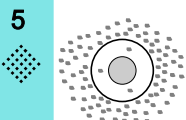
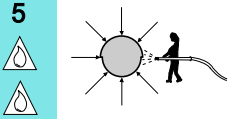
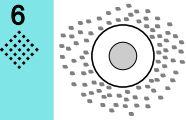
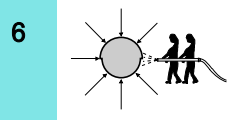
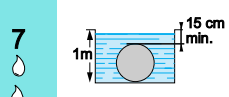
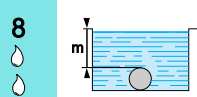
IP ●●● code

The IP code comprises 2 characteristic numerals (e.g. IP 55) and may include an additional letter when the actual protection of personnel against direct contact with live parts is better than that indicated by the first numeral (e.g. IP 20C).

Any characteristic numeral which is unspecified is replaced by an X (e.g. IP XXB).

1st characteristic numeral : corresponds to protection of the equipment against penetration of solid objects and protection of personnel against direct contact with live parts.

2nd characteristic numeral : corresponds to protection of the equipment against penetration of water with harmful effects.

	Protection of the equipment	Protection of personnel		Protection of the equipment	Protection of personnel
0	Non-protected	Non-protected	0	Non-protected	
1	 $\varnothing 50\text{ mm}$ Protected against the penetration of solid objects having a diameter greater than or equal to 50 mm.	Protected against direct contact with the back of the hand (accidental contacts).	1	 Protected against vertical dripping water, (condensation).	
2	 $\varnothing 12,5\text{ mm}$ Protected against the penetration of solid objects having a diameter greater than or equal to 12.5 mm.	Protected against direct finger contact.	2	 15° Protected against dripping water at an angle of up to 15°.	
3	 $\varnothing 2,5\text{ mm}$ Protected against the penetration of solid objects having a diameter greater than or equal to 2.5 mm.	Protected against direct contact with a $\varnothing 2.5\text{ mm}$ tool.	3	 60° Protected against rain at an angle of up to 60°.	
4	 $\varnothing 1\text{ mm}$ Protected against the penetration of solid objects having a diameter $> 1\text{ mm}$.	Protected against direct contact with a $\varnothing 1\text{ mm}$ wire.	4	 Protected against splashing water in all directions.	
5	 Dust protected (no harmful deposits).	Protected against direct contact with a $\varnothing 1\text{ mm}$ wire.	5	 Protected against water jets in all directions.	
6	 Dust tight.	Protected against direct contact with a $\varnothing 1\text{ mm}$ wire.	6	 Protected against powerful jets of water and waves.	
			7	 15 cm min. Protected against the effects of temporary immersion.	
			8	 Protected against the effects of prolonged immersion under specified conditions.	

Degrees of protection against mechanical impact

The European standard EN 50102 dated March 1995 defines a coding system (IK code) for indicating the degree of protection provided by electrical equipment enclosures against external mechanical impact. Standard NF C 15-100 (May 1991 edition), section 512, table 51 A, provides a cross-reference between the various degrees of protection and the environmental conditions classification, relating to the selection of equipment according to external factors. Practical guide UTE C 15-103 shows, in the form of tables, the characteristics required for electrical equipment (including minimum degrees of protection), according to the locations in which they are installed.

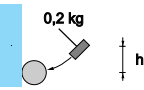
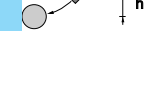
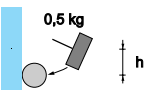
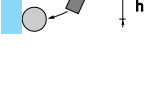
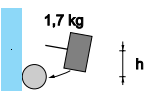
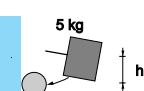
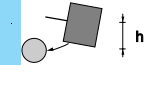
Additional letter : corresponds to protection of personnel against direct contact with live parts.

IK ●● code

The IK code comprises 2 characteristic numerals (e.g. IK 05).

2 characteristic numerals : corresponding to a value of impact energy.

A	With the back of the hand.
B	With the finger.
C	With a Ø 2.5 mm tool.
D	With a Ø 1 mm wire.

		h (cm)	Energy (J)
00	Non-protected		
01		7.5	0.15
02		10	0.2
03		17.5	0.35
04		25	0.5
05		35	0.7
06		20	1
07		40	2
08		30	5
09		20	10
10		40	20



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ART. 070283

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Production : Schneider Electric Industries
Photos : Schneider Electric Industries
Printed by :

November 2003



MKT/ED03113EN