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Distribution block, Block with horizontal alignment and integrated supply, nom. voltage: 500 V, nominal current: 24 A, connection method: Push-in connection, Push-in connection, number of connections: 7, cross section:0.14 mm² - 4 mm², AWG: 26 - 12, width: 25.2 mm, height: 30 mm, color: gray, mounting type: NS 15

Why buy this product

- Time savings of up to 80%, thanks to ready-to-mount blocks without manual bridging
- Time-saving conductor connection, thanks to tool-free Push-in direct connection technology
- ☑ Clear wiring, thanks to eleven different color variants
- Flexible use, thanks to DIN rail mounting, direct mounting or adhesive mounting
- Space savings of up to 50% on the DIN rail, thanks to transverse mounting



Key Commercial Data

Packing unit	10 STK
Minimum order quantity	10 STK
GTIN	4 055626 393773
GTIN	4055626393773

Technical data

General

Note	Notes on operation The blocks can be bridged with one another via the conductor shaft. For corresponding plug-in bridges, see accessories	
Number of levels	1	
Number of connections	7	
Potentials	1	
Nominal cross section	2.5 mm ²	
Nominal cross section feed-in	6 mm²	
Color	gray	
Insulating material	PA	
Flammability rating according to UL 94	V0	
Rated surge voltage	6 kV	



Technical data

General

Degree of pollution 3 Overvottage category III Insulating material group I Maximum power dissipation for nominal condition 1.31 W (the value is based on one connection block and is multiplied according to the pin assignment) Maximum load current 24 A Nominal current I _N 24 A Maximum load current 57 A (with 10 mm² conductor cross section) Nominal voltage U _N 500 V Quent Side panel No Shock protection test specification DIN EN 50274 (VDE 0660-514)-2002-11 Back of the hand protection guaranteed Result of surge voltage test Test passed Surge voltage test setpoint 9.8 kV Result of the test for mechanical stability of terminal points (5 x Test passed Power frequency withstand voltage setpoint 1.89 kV Result of the test for mechanical stability of terminal points (5 x Test passed Power frequency withstand voltage setpoint 1.89 kV Result of bending test Test passed Bending test rotation speed 10 rpm Bending test rotation speed 0.1 mm² / 0.7 kg Bending tes			
Insulating material group			
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Maximum load current 24 A Nominal current I _k 24 A Nominal voltage U _k 500 V Maximum load current 57 A (with 10 mm² conductor cross section) Nominal voltage U _k 500 V Nominal current I _k 41 A (with 6 mm² conductor cross section) Nominal voltage U _k 500 V Open side panel No Shock protection test specification DIN EN 50274 (VDE 0660-514):2002-11 Back of the hand protection guaranteed Finger protection guaranteed Surge voltage test septoint 9.8 kV Surge voltage test setpoint 9.8 kV Result of surge withstand voltage setpoint 1.89 kV Result of the lest for mechanical stability of terminal points (6 x Test passed Power frequency withstand voltage setpoint 1.89 kV Result of bending test fration speed 10 rpm Bending test rotation speed 10 rpm Bending test rotation speed 10 rpm Bending test conductor cross section/weight 0.5 mm² / 0.3 kg Tensile test resuit 7 rest passed Conductor cross section tensil	Insulating material group	I .	
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Nominal voltage U _N 500 V Maximum load current 57 A (with 10 mm² conductor cross section) Nominal current I _N 41 A (with 6 mm² conductor cross section) Nominal voltage U _N 500 V Open side panel No Shock protection test specification DIN EN 50274 (VDE 0660-514)-2002-11 Back of the hand protection guaranteed Finger protection guaranteed Result of surge voltage test Test passed Surge voltage test setpoint 9.8 kV Result of power-frequency withstand voltage test Test passed Power frequency withstand voltage setpoint 1.89 kV Result of be test for mechanical stability of terminal points (5 x conductor connection) Test passed Bending test totation speed 10 pm Bending test totation speed 10 pm Bending test conductor cross section/weight 0.5 mm² / 0.3 kg Bending test conductor cross section/weight 0.5 mm² / 0.8 kg Include the set for set point 2.5 mm² / 0.7 kg Include the set for set point 20 N Conductor cross section tensile test 0.5 mm² Tractive force	Maximum load current	24 A	
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Finger protection guaranteed Result of surge voltage test setpoint 9.8 kV Result of power-frequency withstand voltage test Test passed Power frequency withstand voltage setpoint 1.89 kV Result of the test for mechanical stability of terminal points (5 x conductor connection) Result of bending test Test passed Pending test trotation speed 10 rpm Bending test turns 135 Bending test conductor cross section/weight 0.5 mm² / 0.3 kg Bending test conductor cross section/weight 10 mm² / 1.4 kg 10 mm² / 2 kg 10 mm² / 0.9 kg Tensile test result Testile test result Testile test result Testile test result 50.5 mm² Tensile test result 50.5 mm² Tractive force setpoint 20 N Conductor cross section tensile test 10 mm² Tractive force setpoint 80 N Result of tight fit on support 1 test passed Tight fit on carrier NS 35 Setpoint 1 sets result 50.5 ms 35 Estipation 1 sets passed Tight fit on carrier NS 35	Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11	
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Bending test rotation speed 10 rpm Bending test turns 135 Bending test conductor cross section/weight 0.5 mm² / 0.3 kg 6 mm² / 1.4 kg 6 mm² / 1.4 kg 10 mm² / 2 kg 0.14 mm² / 0.2 kg 2.5 mm² / 0.7 kg 2.5 mm² / 0.7 kg Tensile test result Test passed Conductor cross section tensile test 0.5 mm² Tractive force setpoint 20 N Conductor cross section tensile test 6 mm² Tractive force setpoint 80 N Conductor cross section tensile test 10 mm² Tractive force setpoint 90 N Result of tight fit on support Test passed Tight fit on carrier NS 35 Setpoint 5 N		Test passed	
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10 mm² / 2 kg 0.14 mm² / 0.2 kg 2.5 mm² / 0.7 kg 4 mm² / 0.9 kg Tensile test result Test passed Conductor cross section tensile test 0.5 mm² Tractive force setpoint 20 N Conductor cross section tensile test 6 mm² Tractive force setpoint 80 N Conductor cross section tensile test 10 mm² Tractive force setpoint 80 N Conductor cross section tensile test 10 mm² Tractive force setpoint 80 N Conductor cross section tensile test 10 mm² Tractive force setpoint 90 N Result of tight fit on support Test passed Tight fit on carrier NS 35 Setpoint 5 N	Bending test conductor cross section/weight	0.5 mm² / 0.3 kg	
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Tensile test result Conductor cross section tensile test 0.5 mm² Tractive force setpoint Conductor cross section tensile test 6 mm² Tractive force setpoint 80 N Conductor cross section tensile test 10 mm² Tractive force setpoint 90 N Result of tight fit on support Tight fit on carrier NS 35 Setpoint Test passed		2.5 mm² / 0.7 kg	
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Tractive force setpoint 90 N Result of tight fit on support Test passed Tight fit on carrier NS 35 Setpoint 5 N	Tractive force setpoint	80 N	
Result of tight fit on support Test passed Tight fit on carrier NS 35 Setpoint 5 N	Conductor cross section tensile test	10 mm²	
Tight fit on carrier NS 35 Setpoint 5 N	Tractive force setpoint	90 N	
Setpoint 5 N	Result of tight fit on support	Test passed	
	Tight fit on carrier	NS 35	
Result of voltage-drop test Test passed	Setpoint	5 N	
	Result of voltage-drop test	Test passed	



Technical data

General

Requirements, voltage drop	≤ 1.6 mV	
Result of temperature-rise test	Test passed	
Short circuit stability result	Test passed	
Conductor cross section short circuit testing	6 mm²	
Short-time current	0.72 kA	
Conductor cross section short circuit testing	10 mm²	
Short-time current	1.2 kA	
Result of thermal test	Test passed	
Ageing test for screwless modular terminal block temperature cycles	192	
Proof of thermal characteristics (needle flame) effective duration	30 s	
Result of aging test	Test passed	
Oscillation, broadband noise test result	Test passed	
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03	
Test spectrum	Service life test category 2, bogie-mounted	
Test frequency	f ₁ = 5 Hz to f ₂ = 250 Hz	
ASD level	6.12 (m/s ²) ² /Hz	
Acceleration	3.12 g	
Test duration per axis	5 h	
Test directions	X-, Y- and Z-axis	
Shock test result	Test passed	
Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03	
Shock form	Half-sine	
Acceleration	30g	
Shock duration	18 ms	
Number of shocks per direction	3	
Test directions	X-, Y- and Z-axis (pos. and neg.)	
Relative insulation material temperature index (Elec., UL 746 B)	130 °C	
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C	
Static insulating material application in cold	-60 °C	
Behavior in fire for rail vehicles (DIN 5510-2)	Test passed	
Flame test method (DIN EN 60695-11-10)	V0	
Oxygen index (DIN EN ISO 4589-2)	>32 %	
NF F16-101, NF F10-102 Class I	2	
NF F16-101, NF F10-102 Class F	2	
Surface flammability NFPA 130 (ASTM E 162)	passed	
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed	
Smoke gas toxicity NFPA 130 (SMP 800C)	passed	
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg	
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3	
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3	
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Technical data

General

Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3

Dimensions

Width	25.2 mm
Length	28.2 mm
Height	30 mm
Height NS 15	33 mm

Connection data

Feed-in connection	Feed-in stage	
Connection method	Push-in connection	
Connection in acc. with standard	IEC 60947-7-1	
Conductor cross section solid min.	0.14 mm²	
Conductor cross section solid max.	4 mm²	
Conductor cross section AWG min.	26	
Conductor cross section AWG max.	12	
Conductor cross section flexible min.	0.14 mm²	
Conductor cross section flexible max.	2.5 mm²	
Min. AWG conductor cross section, flexible	26	
Max. AWG conductor cross section, flexible	14	
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.14 mm²	
Conductor cross section flexible, with ferrule without plastic sleeve max.	2.5 mm ²	
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.14 mm²	
Conductor cross section flexible, with ferrule with plastic sleeve max.	2.5 mm²	
Stripping length	8 mm 10 mm	
Internal cylindrical gage	A3	
Connection method	Push-in connection	
Connection in acc. with standard	IEC 60947-7-1	
Conductor cross section solid min.	0.5 mm²	
Conductor cross section solid max.	10 mm ²	
Conductor cross section AWG min.	20	
Conductor cross section AWG max.	8	
Conductor cross section flexible min.	0.5 mm²	
Conductor cross section flexible max.	6 mm²	
Min. AWG conductor cross section, flexible	20	
Max. AWG conductor cross section, flexible	10	
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.5 mm²	
Conductor cross section flexible, with ferrule without plastic sleeve max.	6 mm ²	
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.5 mm²	
Conductor cross section flexible, with ferrule with plastic sleeve max.	6 mm ²	



Technical data

Connection data

2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	1.5 mm²
Stripping length	10 mm 12 mm

Standards and Regulations

Connection in acc. with standard	IEC 60947-7-1	
	IEC 60947-7-1	
Flammability rating according to UL 94	V0	
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3	
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3	
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3	
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3	

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e	
	No hazardous substances above threshold values	

Drawings

Circuit diagram



Approvals

Approvals

Approvals

CSA / DNV GL

Ex Approvals

Approval details

CSA	(1)	http://www.csagroup.org/services-industries/product-listing		et-listing/ 13631
	D		В	С
Nominal voltage UN	600 V		300 V	300 V
Nominal current IN	5 A		50 A	50 A



Approvals

	D	В	С
mm²/AWG/kcmil	20-8	20-8	20-8

DNV GL	http://exchange.dnv.com/tari/	TAE00002TT
Nominal voltage UN	500 V	
Nominal current IN	24 A	

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