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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: 19, cross section:0.14 mm² - 4 mm², AWG: 26 - 12, width: 56 mm, height: 30 mm, color: brown, 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	8 STK
Minimum order quantity	8 STK
GTIN	4 055626 394060
GTIN	4055626394060

#### 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	19	
Potentials	1	
Nominal cross section	2.5 mm²	
Nominal cross section feed-in	6 mm²	
Color	brown	
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 I₂         24 A           Maximum load current         57 A (with 10 mm² conductor cross section)           Nominal voltage U₂         41 A (with 6 mm² conductor cross section)           Nominal voltage U₂         500 V           Open 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 surge voltage test setpoint         1.38 kV           Result of the test for mechanical stability of terminal points (5 x conductor connection)         Test passed           Power frequency withstand voltage setpoint         1.38 kV           Result of bending test         Test passed           Pending test rotation speed         10 rpm           Bending test rotation speed         10 rpm² / 2 kg           Bending test condu			
Insulating material group			
Maximum power dissipation for nominal condition         1.3f 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 <sub>N</sub> 24 A           Nominal voltage U <sub>N</sub> 500 V           Maximum load current         47 A (with 10 mm² conductor cross section)           Nominal voltage U <sub>N</sub> 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 septonit         9.8 kV           Result of power-frequency withstand voltage setpont         1.89 kV           Result of the test for mechanical stability of terminal points (5 x conductor connection)         Test passed           Power frequency withstand voltage setpont         1.89 kV           Result of bending test         Test passed           Bending test troation speed         10 rpm           Bending test conductor cross section/weight         0.5 mm² / 0.3 kg           Bending test conductor cross section/weight         0.5 mm² / 0.7 kg           Test passed         10 mm² / 0.9 kg <td></td> <td colspan="2">III</td>		III	
Maximum load current         24 A           Nominal current I <sub>k</sub> 24 A           Nominal voltage U <sub>k</sub> 500 V           Maximum load current         57 A (with 10 mm² conductor cross section)           Nominal voltage U <sub>k</sub> 500 V           Nominal current I <sub>k</sub> 41 A (with 6 mm² conductor cross section)           Nominal voltage U <sub>k</sub> 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	
Nominal current I <sub>N</sub> 24 A           Nominal voltage U <sub>N</sub> 500 V           Maximum load current         47 A (with 10 mm² conductor cross section)           Nominal current I <sub>N</sub> 41 A (with 6 mm² conductor cross section)           Nominal current I <sub>N</sub> 500 V           Open 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 power-frequency withstand voltage set         Test passed           Power frequency withstand voltage setpoint         1.89 kV           Result of the test for mechanical stability of terminal points (5 x conductor connection)         Test passed           Result of the test for mechanical stability of terminal points (5 x conductor connection)         Test passed           Bending test rotation speed         10 rpm           Bending test conductor cross section/weight         0.5 mm² / 0.3 kg           Bending test conductor cross section/weight         0.5 mm² / 0.7 kg           Test passed         4 mm² / 0.2 kg           Test passed         Conductor cross section tensile test           Test passed         Conductor cross section te	Maximum power dissipation for nominal condition		
Nominal voltage U <sub>N</sub> 500 V           Maximum load current         57 A (with 10 mm² conductor cross section)           Nominal current I <sub>N</sub> 41 A (with 6 mm² conductor cross section)           Nominal voltage U <sub>N</sub> 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 to ross section tensile test         0.5 mm²           Include to cross section tensile test         0.5 mm²           Cond	Maximum load current	24 A	
Maximum load current I <sub>N</sub> 41 A (with 10 mm² conductor cross section)  Nominal current I <sub>N</sub> 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 Back of the hand protection guaranteed Finger protection Finger p	Nominal current I <sub>N</sub>	24 A	
Nominal current I₁         41 A (with 6 mm² conductor cross section)           Nominal voltage U₁         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 setpoint         1.89 kV           Result of the test for mechanical stability of terminal points (5 x conductor connection)         Test passed           Result of the test for mechanical stability of terminal points (5 x conductor connection)         Test passed           Bending test rotation 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 / 0.3 kg           Legal test result         0.14 mm² / 0.2 kg           Conductor cross section tensile test         0.5 mm² / 0.7 kg           Test passed         0.5 mm²           Conductor cross section tensile test         0.5 mm²           Tractive force setpoint         80 N           Co	Nominal voltage U <sub>N</sub>	500 V	
Nominal voltage U <sub>ii</sub> 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 the test for mechanical stability of terminal points (5 x conductor connection)         Test passed           Result of the test for mechanical stability of terminal points (5 x conductor connection)         Test passed           Result of bending test to mechanical stability of terminal points (5 x conductor consection)         10 rpm           Bending test tration speed         10 rpm           Bending test tronductor cross section/weight         0.5 mm² / 0.3 kg           Bending test conductor cross section/weight         0.5 mm² / 0.3 kg           Interpretation speed         0.14 mm² / 0.2 kg           Interpretation speed         4 mm² / 0.9 kg           Interpretation speed         2.5 mm² / 0.7 kg           Interpretation speed         2.5 mm² / 0.7 kg           Interpretation speed	Maximum load current	57 A (with 10 mm² conductor cross section)	
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           Finger protection         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 the test for mechanical stability of terminal points (5 x conductor connection)         Test passed           Result of bending test         Test passed           Bending test rotation speed         10 rpm           Bending test conductor cross section/weight         0.5 mm² / 0.3 kg           Bending test conductor cross section/weight         0.5 mm² / 0.4 kg           Interest for mere anical stability of terminal points (5 x conductor cross section/weight         10 mm² / 2 kg           Interest for mechanical stability of terminal points (5 x conductor cross section/weight         5.5 mm² / 0.7 kg           Bending test conductor cross section/weight         0.14 mm² / 0.2 kg           Interest for mere anical stability of terminal points (5 x conductor cross section tensile test         0.5 mm²           Test passed         0.5 mm²           Conductor cross section tensile test	Nominal current I <sub>N</sub>	41 A (with 6 mm² conductor cross section)	
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 the test for mechanical stability of terminal points (5 x conductor connection)         Test passed           Result of bending test         Test passed           Bending 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         0.5 mm² / 0.2 kg           Institute for a set point         2.5 mm² / 0.7 kg           Institute for a set point         2.5 mm² / 0.7 kg           Test passed         1.5 mm² / 0.8 kg           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	Nominal voltage U <sub>N</sub>	500 V	
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 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 Result of surge voltage setpoint 1.89 kV  Result of the test for mechanical stability of terminal points (5 x conductor connection) Result of bending test Result of bending test test of mechanical stability of terminal points (5 x conductor connection) Result of bending test test of mechanical stability of terminal points (5 x conductor connection) Result of bending test test of mechanical stability of terminal points (5 x conductor connection) Result of bending test rotation speed 10 rpm  Bending test rotation speed 10 rpm  Bending test conductor cross section/weight 135 Bending test conductor cross section/weight 10 nm² / 1.4 kg  10 nm² / 1.4 kg  10 nm² / 2. kg  10 nm² / 0.2 kg  10 nm² / 0.9 kg  Tensile test result 1 test passed  Conductor cross section tensile test 1 0.5 mm²  Tractive force setpoint 20 N  Conductor cross section tensile test 1 0 mm²  Tractive force setpoint 80 N  Conductor cross section tensile test 1 10 mm²  Tractive force setpoint 90 N  Result of tight fit on support 1 test passed  Tight fit on carrier NS 35  Setpoint 5 N	Open side panel	No	
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 Totation speed 10 rpm  Bending test turns 135  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 1 Test passed  Conductor cross section tensile test 0.5 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 SN S	Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11	
Result of surge voltage test setpoint     Test passed       Surge voltage test setpoint     9.8 kV       Result of power-frequency withstand voltage test     Test passed       Power frequency withstand voltage setpoint     1.39 kV       Result of the test for mechanical stability of terminal points (5 x conductor connection)     Test passed       Result of bending test     Test passed       Bending test rotation speed     10 rpm       Bending test surns     135       Bending test conductor cross section/weight     0.5 mm² / 0.3 kg       6 mm² / 1.4 kg     10 mm² / 2 kg       10 mm² / 2 kg     0.14 mm² / 0.2 kg       12 mm² / 0.7 kg     4 mm² / 0.9 kg       Tensile test result     Test passed       Conductor cross section tensile test     0.5 mm²       1 ractive force setpoint     20 N       Conductor cross section tensile test     6 mm²       1 ractive force setpoint     80 N       Conductor cross section tensile test     10 mm²       1 ractive force setpoint     90 N       Result of tight fit on support     Test passed       Tight fit on carrier     NS 35       Setpoint     5 N	Back of the hand protection	guaranteed	
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)         Test passed           Result of bending test         Test passed           Bending test rotation speed         10 rpm           Bending test conductor cross section/weight         0.5 mm² / 0.3 kg           Bending test conductor cross section/weight         0.5 mm² / 0.4 kg           Bending test conductor cross section/weight         10 mm² / 2 kg           Bending test conductor cross section/weight         0.14 mm² / 0.2 kg           Bending test conductor cross section fessed         2.5 mm² / 0.7 kg           Bending test conductor cross section tensile test         Test passed           Conductor cross section tensile test         0.5 mm²           Tractive force setpoint         20 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	Finger protection	guaranteed	
Result of power-frequency withstand voltage test Power frequency withstand voltage setpoint Result of the test for mechanical stability of terminal points (5 x conductor connection) Result of bending test Result of bending test Result of bending test totation speed Bending test rotation speed Bending test conductor cross section/weight Display 1.4 kg Display 1.4 k	Result of surge 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)       Test passed         Result of bending test       Test passed         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       10 mm² / 2 kg         10 mm² / 2 kg       2.5 mm² / 0.7 kg         10 mm² / 0.9 kg       4 mm² / 0.9 kg         1 rest passed       0.5 mm²         1 rest passed ton tensile test       0.5 mm²         1 rest passed ton tensile test       0 mm²         1 rest passed ton tensile test       10 mm²         2 rest passed       10 mm²         2 rest passed       10 mm²         3 rest passed       10 mm²         4 rest passed       10 mm²         5 rest passed       10 mm²         6 rest paint       10 mm²         7 rest passed       10 mm²         8 rest passed       10 mm²         8	Surge voltage test setpoint	9.8 kV	
Result of the test for mechanical stability of terminal points (5 x conductor connection)       Test passed         Result of bending test       Test passed         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       10 mm² / 2 kg         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         1 ractive 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	Result of power-frequency withstand voltage test	Test passed	
conductor connection)lest passedResult of bending testTest passedBending test rotation speed10 rpmBending test turns135Bending test conductor cross section/weight0.5 mm² / 0.3 kg6 mm² / 1.4 kg10 mm² / 2 kg10 mm² / 2 kg0.14 mm² / 0.2 kg10 mm² / 0.7 kg2.5 mm² / 0.7 kg10 mu² / 0.9 kg4 mm² / 0.9 kgTensile test resultTest passedConductor cross section tensile test0.5 mm²Tractive force setpoint20 NConductor cross section tensile test6 mm²Tractive force setpoint80 NConductor cross section tensile test10 mm²Tractive force setpoint90 NResult of tight fit on supportTest passedTight fit on carrierNS 35Setpoint5 N	Power frequency withstand voltage setpoint	1.89 kV	
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         10 mm² / 0.2 kg           10 m² / 0.7 kg         2.5 mm² / 0.7 kg           10 m² / 0.9 kg         10 m² / 0.9 kg           10 rest passed         0.5 mm²           10 rective force section tensile test         0.5 mm²           10 rective force setpoint         20 N           10 rective force setpoint         80 N           10 rective force setpoint tensile test         10 mm²           10 rective force setpoint         90 N           10 rective force setpoint         10 m²           10 rective force setpoint         80 N           10 rective force setpoint         8		Test passed	
Bending test turns         135           Bending test conductor cross section/weight         0.5 mm² / 0.3 kg           6 mm² / 1.4 kg         10 mm² / 2 kg           10 mm² / 0.2 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         90 N           Result of tight fit on support         Test passed           Tight fit on carrier         NS 35           Setpoint         5 N	Result of bending test	Test passed	
Bending test conductor cross section/weight  0.5 mm² / 0.3 kg 6 mm² / 1.4 kg 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 0 mm²  Conductor cross section tensile test 10 mm²  Tractive force setpoint 00 N  Result of tight fit on support Test passed Tight fit on carrier NS 35  Setpoint	Bending test rotation speed	10 rpm	
6 mm²/1.4 kg 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  Conductor cross section tensile test 0.5 mm²  Tractive force setpoint 0 mm²  Tractive force setpoint	Bending test turns	135	
10 mm² / 2 kg 0.14 mm² / 0.2 kg 2.5 mm² / 0.7 kg 4 mm² / 0.9 kg 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 80 N Conductor cross section tensile test 10 mm²  Tractive force setpoint Tractive force setpoint NS 35 Setpoint St NS 35	Bending test conductor cross section/weight	0.5 mm² / 0.3 kg	
Learning0.14 mm² / 0.2 kg2.5 mm² / 0.7 kg2.5 mm² / 0.7 kg4 mm² / 0.9 kg4 mm² / 0.9 kgTensile test resultTest passedConductor cross section tensile test0.5 mm²Tractive force setpoint20 NConductor cross section tensile test6 mm²Tractive force setpoint80 NConductor cross section tensile test10 mm²Tractive force setpoint90 NResult of tight fit on supportTest passedTight fit on carrierNS 35Setpoint5 N		6 mm <sup>2</sup> / 1.4 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 90 N  Result of tight fit on support Tight fit on carrier NS 35  Setpoint 5 N		10 mm² / 2 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 Tight fit on carrier NS 35  Setpoint  4 mm² / 0.9 kg  7 est passed		0.14 mm² / 0.2 kg	
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	
Conductor cross section tensile test  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  0.5 mm²  20 N  Tractive force setpoint  80 N  Tractive force setpoint  10 mm²  Tractive force setpoint  NS 35  Setpoint		4 mm² / 0.9 kg	
Tractive force setpoint 20 N  Conductor cross section tensile test 6 mm²  Tractive force setpoint 80 N  Conductor cross section tensile test 10 mm²  Conductor cross section tensile test 90 N  Tractive force setpoint 90 N  Result of tight fit on support Test passed  Tight fit on carrier NS 35  Setpoint 5 N	Tensile test result	Test passed	
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	Conductor cross section tensile test	0.5 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	Tractive force setpoint	20 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	Conductor cross section tensile test	6 mm²	
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 mm <sup>2</sup>	
Short-time current	0.72 kA	
	10 mm <sup>2</sup>	
Conductor cross section short circuit testing  Short-time current	1.2 kA	
Result of thermal test	Test passed	
Ageing test for screwless modular terminal block temperature cycles	192	
	30 s	
Proof of thermal characteristics (needle flame) effective duration		
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	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$	
ASD level	6.12 (m/s²)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)		
Smoke gas toxicity NFPA 130 (SMP 800C)	passed	
	passed passed	
Calorimetric heat release NFPA 130 (ASTM E 1354)	<u>'</u>	
Calorimetric heat release NFPA 130 (ASTM E 1354) Fire protection for rail vehicles (DIN EN 45545-2) R22	passed	



## 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	56 mm
Length	28.2 mm
Height	30 mm
Height NS 15	33 mm

#### Connection data

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 mm²		
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 mm²		
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 mm²		
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.5 mm²		
Conductor cross section flexible, with ferrule with plastic sleeve max.	6 mm²		



### 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	<b>(P</b>	http://www.csagroup.org/services-industries/product-listing/ 13631		1	
	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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