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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: orange, 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 393872
GTIN	4055626393872

#### 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 <sup>2</sup>
Nominal cross section feed-in	6 mm²
Color	orange
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         13 W (the value is based on one connection block and is multiplied according to the pin assignment)           Maximum load current         24 A           Nominal current Is,         500 V           Maximum load current         57 A (with 10 mm² conductor cross section)           Nominal voltage Un,         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 selpoint         guaranteed           Result of surge voltage test selpoint         9.8 kV           Result of the test for mechanical stability of terminal points (5 x conductor connection)         Test passed           Power frequency withstand voltage setpoint         1.89 kV           Result of beet for mechanical stability of terminal points (5 x conductor connection)         Test passed           Bending test rotation speed         10 rpm           Bending test rotation speed         10 rpm           Bending test conductor cross section/weight         0.5 mm² / 0.7 kg           Bending test conductor cross section tensile				
Insulating material group  Maximum power dissipation for nominal condition  Maximum power dissipation for nominal condition  Maximum load current  24 A  Nominal current I <sub>11</sub> 24 A  Nominal current I <sub>12</sub> 500 V  Maximum load current  57 A (with 10 mm² conductor cross section)  Nominal voltage U <sub>11</sub> 500 V  Maximum load current I <sub>12</sub> 500 V  Maximum load current I <sub>13</sub> 500 V  Maximum load current I <sub>14</sub> 100 mm² / 14 kg  100 mm² / 14 kg  100 mm² / 14 kg  100 mm² / 14 k				
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 <sub>N</sub> 24 A           Nominal voltage U <sub>N</sub> 500 V           Maximum load current         57 A (with 10 mm² conductor cross section)           Nominal voltage U <sub>N</sub> 500 V           Open side panel         No           Bhock 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           Power frequency withstand voltage setpoint         1.89 kV           Result of bending test         Test passed           Bending test trotain speed         10 rpm           Bending test trotain speed         10 rpm           Bending test trotain speed         6 mm² / 1.4 kg           Bending test conductor cross section/weight         0.5 mm² / 0.7 kg		III		
Maximum load current         24 A           Nominal current I <sub>N</sub> 24 A           Nominal voltage U <sub>N</sub> 500 V           Maximum load current         57 A (with 10 mm² conductor cross section)           Nominal voltage U <sub>N</sub> 500 V           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           Finger protection         guaranteed           Surge voltage test septoint         9.8 kV           Surge voltage test septoint         9.8 kV           Result of surge voltage test septoint         1.89 kV           Result of the test for mechanical stability of terminal points (5 x conductor conductor connection)         Test passed           Result of bending test rotation speed         10 rpm           Bending test trotation speed         10 rpm           Bending test conductor cross section/weight         0.5 mm² / 0.3 kg           Fersion of the test result         2.5 mm² / 0.7 kg           Conductor cross section tensile test         0.5 mm²           Tac	Insulating material group	1		
Nominal current I <sub>N</sub> 24 A           Nominal voltage U <sub>N</sub> 500 V           Maximul load current         41 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 sett         Test passed           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 trotation speed         10 rpm           Bending test trotation 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           Tensile test result         Test passed           Conductor cross section tensile test         7 s mm² <tr< td=""><td>Maximum power dissipation for nominal condition</td><td colspan="3"></td></tr<>	Maximum power dissipation for nominal condition			
Nominal voltage U <sub>N</sub> 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  Result of surge voltage test  Test passed  Surge voltage test setpoint  Result of power-frequency withstand voltage test  Power frequency withstand voltage setpoint  Result of bending test  Bending test troation speed  Bending test rotation speed  Bending test rotation speed  Bending test conductor cross section/weight  O 5 mm² / 0.3 kg  Fermal / 0.9 kg  Tensile test result  Test passed  Conductor cross section tensile test  Test passed  O 10 mm² / 2. kg  O .14 mm² / 0.2 kg  2.5 mm² / 0.7 kg  Tensile test result  Test passed  Conductor cross section tensile test  O .5 mm²  Tensile test result  Test passed  Conductor cross section tensile test  O .5 mm²  Tensile test result  Test passed  Conductor cross section tensile test  Test passed  O .14 mm² / 0.2 kg  2.5 mm² / 0.7 kg  Tensile test result  Test passed  Conductor cross section tensile test  O .5 mm²  Tensile test result  Test passed  Conductor cross section tensile test  O .5 mm²  Tensile test result  Test passed  Conductor cross section tensile test  O .5 mm²  Tensile force setpoint  Bo N  Conductor cross section tensile test  Test passed  Conductor cross section tensile test  Test passed  Test p	Maximum load current	24 A		
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 bower-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         Test passed           Result of bending test         Test passed           Bending test totation speed         10 rpm           Bending test totation speed         10 rpm           Bending test conductor cross section/weight         0.5 mm² / 0.3 kg           Ferman (0.3 kg)         6 mm² / 1.4 kg           Lead of maximum (0.4 kg)         10 mm² / 0.2 kg           Lead of maximum (0.5 kg)         10 mm² / 0.2 kg           Lead of maximum (0.5 kg)         2.5 mm² / 0.7 kg           Lead of maximum (0.5 kg)         2.6 mm² / 0.7 kg <td>Nominal current I<sub>N</sub></td> <td>24 A</td>	Nominal current I <sub>N</sub>	24 A		
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 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 truns         135           Bending test conductor cross section/weight         0.5 mm² / 0.3 kg           Ending test conductor cross section/weight         0.5 mm² / 1.4 kg           10 mm² / 2 kg         0.14 mm² / 0.2 kg           2.5 mm² / 0.7 kg         10 mm² / 0.9 kg           Tensile test result         7 test passed           Conductor cross section tensile test         6 mm²           Tractive force setpoint         80 N <t< td=""><td>Nominal voltage U<sub>N</sub></td><td>500 V</td></t<>	Nominal voltage U <sub>N</sub>	500 V		
Nominal voltage Un         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           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 consection)         10 rpm           Bending test totalition speed         10 rpm           Bending test totalition speed         0.5 mm² / 0.3 kg           Bending test conductor cross section/weight         0.5 mm² / 0.3 kg           Bending test conductor cross section weight         0.5 mm² / 0.2 kg           Tensile test result         Test passed           Conductor cross section tensile test         0.5 mm²           Tractive force setpoint         80 N	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         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           Fermal Policy of the set for mechanical stability of terminal points (5 x conductor cross section/weight         6 mm² / 1.4 kg           Bending test conductor cross section/weight         0.5 mm² / 0.3 kg           Bending test conductor cross section/weight         0.14 mm² / 0.2 kg           Lead of the set form many forms of the set forms and many forms of the set	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 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           6 mm² / 1.4 kg         0.1 mm² / 0.2 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           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           Conductor cross section tensile test         10 mm²           Tractive	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 Bending test rotation speed 10 rpm Bending test trotation speed 10 rpm 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 10 mm² / 0.9 kg 10 mm² / 0.9 kg 10 mm² / 0.9 kg 11 mm² / 0.9 kg 12 mm² / 0.9 kg 13 mm² / 0.9 kg 14 mm² / 0.9 kg 15 mm² / 0.9 kg 16 mm² / 0.9 kg 17 mm² / 0.9 kg 18 mm² / 0.9 kg 18 mm² / 0.9 kg 18 mm² / 0.9 kg 19 mm² / 0.9 kg 19 mm² / 0.9 kg 10 mm	Open side panel	No		
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)  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  Bending test conductor cross section/weight 0.10 mm² / 2 kg  10 mm² / 2 kg  10 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 10 mm²  Tractive force setpoint 80 N  Conductor cross section tensile test 10 mm²  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     9.8 kV       Result of power-frequency withstand voltage test     Test passed       Power frequency withstand voltage setpoint     1.38 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       Image:	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 turns         135           Bending test conductor cross section/weight         0.5 mm² / 0.3 kg           6 mm² / 1.4 kg         0 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           Tractive force setjonit         20 N           Conductor cross section tensile test         6 mm²           Tractive force setjonit         80 N           Conductor cross section tensile test         10 mm²           Tractive force setjonit         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 1.89 kV  Result of the test for mechanical stability of terminal points (5 x conductor connection)  Result of bending test 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 / 0.2 kg  2.5 mm² / 0.7 kg  4 mm² / 0.9 kg  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 Result of tight fit on support Test passed  Tight fit on carrier NS 35  Setpoint	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         4 mm² / 0.9 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 tensile test       10 mm²         Tractive force setpoint tensile test       10 mm²         Tractive force setpoint tensile test       10 mm²         Result of tight fit on support       Test passed         Tight fit on carrier       NS 35         Setpoint       5 N	Surge voltage test setpoint	9.8 kV		
Result of the test for mechanical stability of terminal points (5 x conductor connection)  Result of bending test  Bending test rotation speed  Bending test turns  Bending test conductor cross section/weight  135  Bending test conductor cross section/weight  10	Result of power-frequency withstand voltage test	Test passed		
conductor connection)  Result of bending test  Result of bending test  Bending test rotation speed  Bending test turns  Bending test conductor cross section/weight  Conductor cross section/weight  Description of the section of the	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         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		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         2.5 mm² / 0.7 kg           4 mm² / 0.9 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 nm²  Conductor cross section tensile test 10 mm²  Tractive force setpoint 00 N  Conductor cross section tensile test 10 mm²  Tractive force setpoint 90 N  Result of tight fit on support Test passed  Setpoint 5 N	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 Tractive force setpoint Conductor cross section tensile test 0 mm² Tractive force setpoint 0 NS Test passed Tight fit on carrier NS 35 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 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		
0.14 mm² / 0.2 kg2.5 mm² / 0.7 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 mm² / 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 5 N		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  Fractive force setpoint  80 N  Tractive force setpoint  90 N  Test passed  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  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 mm <sup>2</sup>		
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

Result of temperature-rise test Short circuit stability result Conductor cross section short circuit testing Short-lime current Onductor cross section short circuit testing On mm² Short-lime current 1.2 kA Conductor cross section short circuit testing Short-lime current 1.2 kA  Result of thermal test Ageing test for screwless modular terminal block temperature cycles 192 Proof of thermal characteristics (needle flame) effective duration 30 s Result of spring flest Oscillation, broadband noise test result Test spassed Oscillation, broadband noise test result Test spased Oscillation, broadband noise test result Test spased Oscillation, broadband noise test result Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Est spectrum Service life test category 2, bogie-mounted Test frequency f, 5 6 Hz to f, 2 250 Hz Acceleration Test direction per axis  Test direction per axis Test direction per axis Test direction per axis Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test directions X. Y. and Z-axis Shock last result Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test direction Shock duration Number of shocks per direction 30 g Shock duration Number of shocks per direction 3 s Test directions Test direction Test specification material temperature index (Elec., UL 746 B) Test specification material temperature index (Elec., UL 746 B) Test specification in fire for rail vehicles (DIN EN 60216-1 (VDE Behavior in fire for rail vehicles (DIN EN 60216-1 (VDE Behavior in fire for rail vehicles (DIN EN 60216-1 (VDE Behavior in fire for rail vehicles (DIN EN 60216-1 (VDE Behavior in fire for rail vehicles (DIN EN 6025-1 (VDE Behavior in fire for rail vehicles (DIN EN 6025-1 (VDE Behavior in fire for rail vehicles (DIN EN 6025-1 (VDE Behavior in fire for rail vehicles (DIN EN 6025-1 (VDE Behavior i	Requirements, voltage drop	≤ 1.6 mV
Short circuit stability result Conductor cross section short circuit testing 8 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 Ageing test for screwless modular terminal block temperature cycles Proof of thermal characteristics (needle flame) effective duration 30 s Result of aging test Oscillation, troadband noise test result Test passed  Test spassed  DIN EN 50155 (VDE 0115-200);2008-03 Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200);2008-03 Test specification, oscillation, broadband noise ASD level Service life test category 2, bogie-mounted Test frequency f, 1 = 5 Hz to f, 2 250 Hz ASD level Statistical formal stability of the s		
Conductor cross section short circuit testing 0.72 kA	·	
Conductor cross section short circuit testing		6 mm²
Short-time current	Short-time current	0.72 kA
Result of thermal test Ageing test for screwless modular terminal block temperature cycles 192 Proof of thermal characteristics (needle flame) effective duration 30 s Result of aging test Oscillation, broadband noise test result Test passed Oscillation, broadband noise test result Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test specification, oscillation, broadband noise Est frequency fi = 5 Hz to fs = 250 Hz ASD level 6.12 (m/s²)² Hz Acceleration 3.12 g Test duration per axis 5 h Test specification, shock test Test passed  Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test specification, shock test UN EN 50155 (VDE 0115-200):2008-03 Test duration per axis Test directions Test directions Nock test result Test passed Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test directions Test directions Test directions Test direction 30g Shock duration Half-sine Acceleration 30g Test directions Test directions Test directions Test direction 30g Shock duration 18 ms Number of shocks per direction 3 Test directions	Conductor cross section short circuit testing	10 mm²
Ageing test for screwless modular terminal block temperature cycles Proof of thermal characteristics (needle flame) effective duration Result of aging test Oscillation, broadband noise test result Test passed Test passed Test passed Test passed Test passed Test passed DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 2, bogie-mounted Test frequency It = 5 Hz to Iz = 250 Hz ASD level ASD	Short-time current	1.2 kA
Proof of thermal characteristics (needle flame) effective duration  Result of aging test  Test passed  Oscillation, broadband noise test result  Test spassed  DIN EN 50155 (VDE 0115-200):2008-03  Test specification, oscillation, broadband noise  DIN EN 50155 (VDE 0115-200):2008-03  Test specification, oscillation, broadband noise  Service life test category 2, bogie-mounted  Test frequency  ft = 5 Hz to f₂ = 250 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 specification, shock test  DIN EN 50155 (VDE 0115-200):2008-03  Half-sine  Acceleration  30g  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)  Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))  Static insulating material application in cold  60 °C  Behavior in fire for rail vehicles (DIN EN 60216-1 (VDE 0304-21))  Vo Oxygen index (DIN EN 6068-511-0)  Vo Qygen index (DIN EN 6068-511-0)  Vo Qygen index (DIN EN 6068-511-0)  Vo Qygen index (DIN EN 6068-511-0)  Passed  Pref-10-1, NF F10-102 Class I  2  Surface flammability NFPA 130 (ASTM E 162)  passed  Specific optical density of smoke NFPA 130 (ASTM E 662)  passed  Fire protection for rail vehicles (DIN EN 45545-2) R22  HL 1 - HL 3	Result of thermal test	Test passed
Test passed	Ageing test for screwless modular terminal block temperature cycles	192
Descillation, broadband noise test result   Test passed	Proof of thermal characteristics (needle flame) effective duration	30 s
Test specification, oscillation, broadband noise	Result of aging test	Test passed
Test spectrum         Service life test category 2, bogie-mounted           Test frequency         f₁ = 5 Hz to f₂ = 250 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         -80 °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 1SO 4589-2)         >32 %           NF F16-101, NF F10-102 Class I         2           Surface flammability NFPA 130 (ASTM E 162)         passed           Specific optical density of smoke NF	Oscillation, broadband noise test result	Test passed
Test frequency         f₁ = 5 Hz to f₂ = 250 Hz           ASD level         6.12 (m/s³)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           Surface flammability NFPA 130 (ASTM E 162)         passed           Specific optical density of smoke NFPA 130 (ASTM E 662)         passed           Smoke gas toxicity NFPA 130 (GM	Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03
ASD level 6.12 (m/s²)²/Hz  Acceleration 3.12 g  Test duration per axis 5 h  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))  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  Surface flammability NFPA 130 (ASTM E 162) passed  Smoke gas toxicity NFPA 130 (ASTM E 162) passed  Smoke gas toxicity NFPA 130 (ASTM E 1354) 28 MJ/kg  Fire protection for rail vehicles (DIN EN 454545-2) R22 HL 1 - HL 3	Test spectrum	Service life test category 2, bogie-mounted
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 I         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 r	Test frequency	f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 250 Hz
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 (MP 800C)         passed           Calorimetric heat release NFPA 130 (ASTM E 1354)         28 MJ/kg	ASD level	6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz
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))  Static insulating material application in cold -60 °C  Behavior in fire for rail vehicles (DIN 5510-2) Test passed  Flame test method (DIN EN 60995-11-10) V0  Oxygen index (DIN EN ISO 4589-2) >32 %  NF F16-101, NF F10-102 Class I 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	Acceleration	3.12 g
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	Test duration per axis	5 h
Test specification, shock test	Test directions	X-, Y- and Z-axis
Shock form Acceleration Slock duration Acceleration Shock duration 18 ms Number of shocks per direction Test directions Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))  Static insulating material application in cold Static insulating material application in cold Flame test method (DIN EN 60695-11-10) Vo Oxygen index (DIN EN ISO 4589-2) NF F16-101, NF F10-102 Class I Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) Smoke gas toxicity NFPA 130 (SMT ME 1354) Fire protection for rail vehicles (DIN EN 45545-2) R22 HL 1 - HL 3	Shock test result	Test passed
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	Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
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))  Static insulating material application in cold  -60 °C  Behavior in fire for rail vehicles (DIN 5510-2)  Flame test method (DIN EN 60695-11-10)  Oxygen index (DIN EN ISO 4589-2)  NF F16-101, NF F10-102 Class I  NF F16-101, NF F10-102 Class F  2  Surface flammability NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 662)  Smoke gas toxicity NFPA 130 (SMP 800C)  Calorimetric heat release NFPA 130 (ASTM E 1354)  Fire protection for rail vehicles (DIN EN 45545-2) R22  HL 1 - HL 3	Shock form	Half-sine
Number of shocks per direction  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))  Static insulating material application in cold  -60 °C  Behavior in fire for rail vehicles (DIN 5510-2)  Flame test method (DIN EN 60695-11-10)  Oxygen index (DIN EN ISO 4589-2)  NF F16-101, NF F10-102 Class I  NF F16-101, NF F10-102 Class F  Surface flammability NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 662)  Smoke gas toxicity NFPA 130 (SMP 800C)  Calorimetric heat release NFPA 130 (ASTM E 1354)  Fire protection for rail vehicles (DIN EN 45545-2) R22  HL 1 - HL 3	Acceleration	30g
Test directions  Relative insulation material temperature index (Elec., UL 746 B)  Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))  Static insulating material application in cold  Ehavior in fire for rail vehicles (DIN 5510-2)  Fiame test method (DIN EN 60695-11-10)  Oxygen index (DIN EN ISO 4589-2)  NF F16-101, NF F10-102 Class I  NF F16-101, NF F10-102 Class F  Surface flammability NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 662)  Smoke gas toxicity NFPA 130 (ASTM E 1354)  Fire protection for rail vehicles (DIN EN 45545-2) R22  HL 1 - HL 3	Shock duration	18 ms
Relative insulation material temperature index (Elec., UL 746 B)  Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))  Static insulating material application in cold  Behavior in fire for rail vehicles (DIN 5510-2)  Flame test method (DIN EN 60695-11-10)  Oxygen index (DIN EN ISO 4589-2)  NF F16-101, NF F10-102 Class I  NF F16-101, NF F10-102 Class F  Surface flammability NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 662)  Smoke gas toxicity NFPA 130 (SMP 800C)  Calorimetric heat release NFPA 130 (ASTM E 1354)  Fire protection for rail vehicles (DIN EN 45545-2) R22  HL 1 - HL 3	Number of shocks per direction	3
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))  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	Test directions	X-, Y- and Z-axis (pos. and neg.)
Static insulating material application in cold  Behavior in fire for rail vehicles (DIN 5510-2)  Flame test method (DIN EN 60695-11-10)  Oxygen index (DIN EN ISO 4589-2)  NF F16-101, NF F10-102 Class I  NF F16-101, NF F10-102 Class F  Surface flammability NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 662)  Smoke gas toxicity NFPA 130 (SMP 800C)  Calorimetric heat release NFPA 130 (ASTM E 1354)  Fire protection for rail vehicles (DIN EN 45545-2) R22  HL 1 - HL 3	Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Behavior in fire for rail vehicles (DIN 5510-2)  Flame test method (DIN EN 60695-11-10)  Oxygen index (DIN EN ISO 4589-2)  NF F16-101, NF F10-102 Class I  VIII Surface flammability NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 662)  Smoke gas toxicity NFPA 130 (SMP 800C)  Calorimetric heat release NFPA 130 (ASTM E 1354)  Fire protection for rail vehicles (DIN EN 45545-2) R22  Test passed  V0  Test passed  Passed  Passed  2  MF 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  Calorimetric heat release NFPA 130 (ASTM E 1354)  HL 1 - HL 3		130 °C
Flame test method (DIN EN 60695-11-10)  Oxygen index (DIN EN ISO 4589-2)  NF F16-101, NF F10-102 Class I  NF F16-101, NF F10-102 Class F  2  Surface flammability NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 662)  Smoke gas toxicity NFPA 130 (SMP 800C)  Calorimetric heat release NFPA 130 (ASTM E 1354)  Fire protection for rail vehicles (DIN EN 45545-2) R22  V0  V0  V0  Passed  2  Surface flammability NFPA 130 (ASTM E 162)  passed  Smoke gas toxicity NFPA 130 (SMP 800C)  Passed  Calorimetric heat release NFPA 130 (ASTM E 1354)  Fire protection for rail vehicles (DIN EN 45545-2) R22  HL 1 - HL 3	Static insulating material application in cold	-60 °C
Oxygen index (DIN EN ISO 4589-2)  NF F16-101, NF F10-102 Class I  NF F16-101, NF F10-102 Class F  2  Surface flammability NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 662)  Smoke gas toxicity NFPA 130 (SMP 800C)  Calorimetric heat release NFPA 130 (ASTM E 1354)  Fire protection for rail vehicles (DIN EN 45545-2) R22  >32 %  >32 %  Passed  2  Dassed  2  Smoke gas toxicity NFPA 130 (ASTM E 162)  Passed  28 MJ/kg  Fire protection for rail vehicles (DIN EN 45545-2) R22  HL 1 - HL 3	Behavior in fire for rail vehicles (DIN 5510-2)	Test passed
NF F16-101, NF F10-102 Class I  NF F16-101, NF F10-102 Class F  Surface flammability NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 662)  Smoke gas toxicity NFPA 130 (SMP 800C)  Calorimetric heat release NFPA 130 (ASTM E 1354)  Fire protection for rail vehicles (DIN EN 45545-2) R22  2  Surface flammability NFPA 130 (ASTM E 162)  passed  2  Smoke gas toxicity NFPA 130 (SMP 800C)  Passed  Lamber 1354  Ph. 1 - HL 3	Flame test method (DIN EN 60695-11-10)	V0
NF F16-101, NF F10-102 Class F  Surface flammability NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 662)  Smoke gas toxicity NFPA 130 (SMP 800C)  Calorimetric heat release NFPA 130 (ASTM E 1354)  Fire protection for rail vehicles (DIN EN 45545-2) R22  2  Surface flammability NFPA 130 (ASTM E 162)  passed  2  Smoke gas toxicity NFPA 130 (ASTM E 1354)  28 MJ/kg  Fire protection for rail vehicles (DIN EN 45545-2) R22  HL 1 - HL 3	Oxygen index (DIN EN ISO 4589-2)	>32 %
Surface flammability NFPA 130 (ASTM E 162)  Specific optical density of smoke NFPA 130 (ASTM E 662)  Smoke gas toxicity NFPA 130 (SMP 800C)  Calorimetric heat release NFPA 130 (ASTM E 1354)  Fire protection for rail vehicles (DIN EN 45545-2) R22  passed  28 MJ/kg  HL 1 - HL 3	NF F16-101, NF F10-102 Class I	2
Specific optical density of smoke NFPA 130 (ASTM E 662)  Smoke gas toxicity NFPA 130 (SMP 800C)  Calorimetric heat release NFPA 130 (ASTM E 1354)  Fire protection for rail vehicles (DIN EN 45545-2) R22  HL 1 - HL 3	NF F16-101, NF F10-102 Class F	2
Smoke gas toxicity NFPA 130 (SMP 800C)  Calorimetric heat release NFPA 130 (ASTM E 1354)  Fire protection for rail vehicles (DIN EN 45545-2) R22  HL 1 - HL 3	Surface flammability NFPA 130 (ASTM E 162)	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	Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Fire protection for rail vehicles (DIN EN 45545-2) R22 HL 1 - HL 3	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) R23 HL 1 - HL 3	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



### 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

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 mm <sup>2</sup>		
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



А	n	n	ro	va	l٥

Approvals

Approvals

CSA / DNV GL

Ex Approvals

### Approval details

CSA	<b>(P</b>	http://www.csagroup.org/services-industries/product-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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