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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









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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: black, 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 393841
GTIN	4055626393841

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	black	
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 _N 24 A Nominal voltage U _N 500 V Maximum load current 47 A (with 10 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 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 _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	
Nominal current I _N 24 A Nominal voltage U _N 500 V Maximum load current 47 A (with 10 mm² conductor cross section) Nominal current I _N 41 A (with 6 mm² conductor cross section) Nominal current I _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 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 _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 to ross section tensile test 0.5 mm² Include to cross section tensile test 0.5 mm² Cond	Maximum load current	24 A	
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Nominal voltage U _{ii} 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 troation speed 10 rpm Bending test troation speed 10 rpm Bending test conductor cross section/weight 0.5 mm² / 0.3 kg Interpretation speed 0.1 mm² / 2 kg Interpretation speed 0.1 mm² / 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	Maximum load current	57 A (with 10 mm² conductor cross section)	
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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 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 Testile test result 15 mm² / 0.9 kg Tensile test result 15 mm² / 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 15 NS 35 Setpoint 15 S N	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 sturns 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 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	Back of the hand protection	guaranteed	
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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	
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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 ² / 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 10 mm² Tractive force setpoint 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 10 Mm² Tractive force setpoint NS 35		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	
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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

Result of temperature-rise test Short circuit stability result Conductor cross section short circuit testing Short-time current Onductor cross section short circuit testing Short-time current 1.2 kA Conductor cross section short circuit testing Short-time current 1.2 kA Short-time current 1.2 kA 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 Short-time current Test passed Ageing test for screwless modular terminal block temperature cycles Proof of thermal characteristics (needle flame) effective duration Test passed Oscillation, broadband noise test result Test spassed Oscillation, broadband noise test result Test spassed Oscillation, broadband noise test result Test spassed Oscillation, broadband noise test result Test spectime Service life test category 2. bogie-mounted Test frequency I, 5 = 5 Hz to 5 = 250 Hz ASD level Acceleration Test direction per axis Shock test result Test direction per axis Test directions X, Y- and Z-axis Shock test result Test spassed DIN EN 50155 (VDE 0115-200):2008-03 Test directions Number of shock sper direction 30 g Shock duration Number of shocks per direction 3 g Test directions Number of shocks per direction 3 Test directions Number of shocks per direction 3 Test directions Test direction	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 192 Proof of thermal characteristics (needle flame) effective duration Result of aging test Oscillation, broadband noise test result Test passed Test spased 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 Conductor cross section short circuit testing 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 Test specification, shock test Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test directions X, Y, and Z-axis Shock fest result Test specification, shock test Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test directions X, Y, and Z-axis Shock form Half-sine Acceleration 18 ms Number of shocks per direction 30 g Shock duration Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Temperature index of insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Temperature index of insulation materia		
Conductor cross section short circuit testing 0.72 kA 0.72 kA 1.00 mm² 1.00	·	
Conductor cross section short circuit testing	·	6 mm²
Short-time current	Short-time current	0.72 kA
Result of thermal test	Conductor cross section short circuit testing	10 mm²
Ageing test for screwless modular terminal block temperature cycles 192	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 specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum 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 form Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) 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 Behavior in fire for rail vehicles (DIN 510-2) Test passed Pire test method (DIN EN 6085-511-10) Vo Oxygen index (DIN EN 1604589-2) 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 1634) Pire protection for rail vehicles (DIN EN 54545-2) 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 DIN EN 50155 (VDE 0115-200):2008-03 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 duration per 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) 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) V0 Oxygen index (DIN EN 150 4589-2) NF F16-101, NF F10-102 Class I Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) passed Calorimetric heat release NFPA 130 (ASTM E 1634) Fire protection for rail vehicles (DIN EN 4545-2) R22 HL 1- HL 3	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 -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 F 2 Surface flammability NFPA 130 (ASTM E 162) passed Specific optical density of smoke NF	Oscillation, broadband noise test result	Test passed
Test frequency f, = 5 Hz to f₂ = 250 Hz ASD level 6.12 (m/s³²²/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 3034-21)) 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 (AST	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 release NFPA 130 (ASTM E 1354) 28 MJ/kg <tr< td=""><td>Test frequency</td><td>f₁ = 5 Hz to f₂ = 250 Hz</td></tr<>	Test frequency	f ₁ = 5 Hz to f ₂ = 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 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	ASD level	6.12 (m/s ²) ² /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)) 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 (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 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 directions	X-, Y- and Z-axis
Shock form Acceleration Shock duration Acceleration Shock duration 18 ms Number of shocks per direction 3 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 4-60 °C Behavior in fire for rail vehicles (DIN 5510-2) Test passed Flame test method (DIN EN 60695-11-10) Vo Oxygen index (DIN EN ISO 4589-2) NF F16-101, NF F10-102 Class I VF 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	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 Test directions Relative insulation material temperature index (Elec., UL 746 B) 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 5510-2) Flame test method (DIN EN 60695-11-10) Oxygen index (DIN EN 1SO 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 Ehavior 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) 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 (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 General Section of the formula of the following section of	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 2 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 Test passed 2 Test passed Passed 2 Multiplication of the passed of the pass		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 Passed 2 Smoke MFPA 130 (ASTM E 1354) 28 MJ/kg 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 Calorimetric heat release NFPA 130 (ASTM E 1354) 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 NF F16-101, NF F10-102 Class I 2 Dassed passed Specific optical density of smoke NFPA 130 (ASTM E 662) passed Smoke gas toxicity NFPA 130 (SMP 800C) Passed Label Surface flammability NFPA 130 (ASTM E 1354) Passed HL 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 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	http://www.csagroup.org/services-industries/product-listing/ 13631			3631	
	D	В		С	
Nominal voltage UN	600 V	300 V	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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PHOENIX CONTACT GmbH & Co. KG Flachsmarktstr. 8 32825 Blomberg Germany

Tel. +49 5235 300 Fax +49 5235 3 41200

http://www.phoenixcontact.com