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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: 13, cross section:0.14 mm² - 4 mm², AWG: 26 - 12, width: 40.6 mm, height: 30 mm, color: gray, mounting type: NS 15

Why buy this product

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



Key Commercial Data

Packing unit	8 STK
GTIN	4 055626 393896
GTIN	4055626393896

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	13	
Potentials	1	
Nominal cross section	2.5 mm ²	
Nominal cross section feed-in	6 mm²	
Color	gray	
Insulating material	PA	
Flammability rating according to UL 94	V0	
Rated surge voltage	6 kV	
Degree of pollution	3	



Technical data

General

Overvoltage category	III	
Insulating material group	I	
Maximum power dissipation for nominal condition	1.31 W (the value is based on one connection block and is multiplied according to the pin assignment)	
Maximum load current	24 A	
Nominal current I _N	24 A	
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 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 mm ² / 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 mm ²	
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 voltage-drop test	Test passed	
Requirements, voltage drop	≤ 1.6 mV	



Technical data

General

Short circuit stability result Conductor cross section short circuit testing 6 mm² Short-time current 0.72 kA Conductor cross section short circuit testing 10 mm² Short-time current 1.2 kA Result of thermal test 7 test passed Ageing test for screwless modular terminal block temperature cycles 192 Proof of thermal characteristics (needle flame) effective duration Result of aging test 7 test passed Coscillation, broadband noise test result Test specification, oscillation, broadband noise 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 1.5 = SH to 15 = 250 Hz Acceleration Service life test category 3, bogie-mounted Test frequency 1.5 = SH to 15 = 250 Hz Acceleration 3.12 g Test duration per axis Test duration per axis 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 duration Half-sine Acceleration 30 g Shock duration Acceleration 30 g Shock duration Half-sine Acceleration 30 g Shock duration Test directions X. Y. and Z-axis (pos. and neg.) Test directions X. Y. and Z-axis (pos. and neg.) Test directions Test directions X. Y. and Z-axis (pos. and neg.) Test directions Test directions X. Y. and Z-axis (pos. and neg.) Test direction fre for rail vehicles (DIN EN 60218-1 (VDE 004) 24) Static insulation material temperature index (Elec., UL 748 B) Temperature index of insulation material (DIN EN 60218-1 (VDE 004) 24) Static insulation material perpeature index (Elec., UL 748 B) Test passed File index of insulation material (DIN EN 60218-1 (VDE 004) 24) Static insulation material perpeature index (Elec., UL 748 B) Test passed File index of insulation material (DIN EN 60218-1 (VDE 004) 24) Static insulation material temperature index (Elec., UL 748 B) Test protection for file vehicles (DIN EN 60218-1 (VDE 004) 24) Static index (DIN EN 6058-91-10) V0 Oxygen index (DIN EN 6058-91-10) V0 Oxygen	Result of temperature-rise test	Test passed
Short-time current	Short circuit stability result	Test passed
Conductor cross section short circuit testing	Conductor cross section short circuit testing	6 mm²
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 Test passed Ageing 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 spectrum Service life test category 2, bogie-mounted Test frequency f ₁ = 5 Hz to f ₂ = 250 Hz ASD level ASD level ASD level Acceleration 3:12 g Test duration per axis Test directions X-, Y- and Z-axis Shock test result Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 30 g Shock duration 18 ms Number of shocks per direction 3 g 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) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) NF F16-101, NF F10-102 Class I PF F16-101, NF F10-102 Class I	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 spassed 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 specification, oscillation, broadband noise Test frequency f ₁ = 5 Hz to f ₂ = 250 Hz ASD level 6.12 (m/s 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 30 g Shock form Half-sine Acceleration 30 g Shock duration 18 ms 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)) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Test passed Flame test method (DIN EN 60995-11-10) V0 Oxygen index (DIN EN 100 4589-2) NF F16-101, NF F10-102 Class F Surface flammability NFPA 130 (ASTM E 162) passed Specific optical density of smoke NFPA 130 (ASTM E 165) passed Specific optical density of smoke NFPA 130 (ASTM E 1654) Fire protection for rail vehicles (DIN EN 45545-2) R23 H. 1 - HL 3	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 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 specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test specification, oscillation, broadband noise Test frequency In End test category 2, bogie-mounted In End test category 2, bogie-mount	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 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 fi = 5 Hz to f₂ = 250 Hz ASD level 6.12 (m/s²)²/Hz Asceleration 3.12 g Test duration per axis Test duration per axis Test duration per axis Test duration per axis Shock test result Test passed Test passed DIN EN 50155 (VDE 0115-200):2008-03 Shock test result Test passed Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction 3 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 Static insulating material application in cold 60°C Static insulating material application in cold Firm test method (DIN EN 60695-11-10) V0 Oxygen index (DIN EN ISO 4589-2) NF F16-101, NF F10-102 Class F 2 Surface flammability NFPA 130 (ASTM E 162) passed Smoke gas toxicity NFPA 130 (ASTM E 162) passed Fire protection for rail vehicles (DIN EN 45545-2) R22 Ht. 1 - Ht. 3 Fire protection for rail vehicles (DIN EN 45545-2) R22 Ht. 1 - Ht. 3	Result of thermal test	Test passed
Result of aging test	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	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 duration shock test 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 180 4589-2) >32 % NF F16-101, NF F10-102 Class I 2 Surface flammability NFPA 130 (ASTM E 162) <	Oscillation, broadband noise test result	Test passed
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 Filame test method (DIN EN 60695-11-10) V0 Oxygen index (DIN EN 80 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)	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 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 4545-2) R23 HL 1 - HL 3 Fire protection for rail vehicles (DIN EN 4545-2) R23 HL 1 - HL 3	Test spectrum	Service life test category 2, bogie-mounted
Acceleration 3.12 g	Test frequency	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$
Test duration per axis 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 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 I Specific optical density of smoke 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 Fire protection for rail vehicles (DIN EN 45545-2) R23 HL 1 - HL 3	ASD level	6.12 (m/s²)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 12 remperature 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 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 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) R23 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 Fire protection for rail veh	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 Shock per direction Slock duration Static 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 Sehavior in fire for rail vehicles (DIN 5510-2) Flame test method (DIN EN 60695-11-10) Toxygen index (DIN EN 180 4589-2) Syerification, NF F10-102 Class I Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 1354) Fire protection for rail vehicles (DIN EN 45545-2) R23 Fire protection for ra	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 Fire protection for rail vehicles (DIN EN 45545-2) R23 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 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 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) passed 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 Fire protection for rail vehicles (DIN EN 45545-2) R23 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 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 Fire protection for rail vehicles (DIN EN 45545-2) R23 HL 1 - HL 3	Acceleration	30g
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) Elame 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 Fire protection for rail vehicles (DIN EN 45545-2) R23 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 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) R23 HL 1 - HL 3 Fire protection for rail vehicles (DIN EN 45545-2) R23 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 Fire protection for rail vehicles (DIN EN 45545-2) R23 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 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 Fire protection for rail vehicles (DIN EN 45545-2) R23 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 V 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 Fire protection for rail vehicles (DIN EN 45545-2) R23 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 HL 1 - HL 3 Fire protection for rail vehicles (DIN EN 45545-2) R23 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 HL 1 - HL 3 Fire protection for rail vehicles (DIN EN 45545-2) R23 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 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 Fire protection for rail vehicles (DIN EN 45545-2) R23 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 HL 1 - HL 3 Fire protection for rail vehicles (DIN EN 45545-2) R23 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 HL 1 - HL 3 Fire protection for rail vehicles (DIN EN 45545-2) R23 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 Fire protection for rail vehicles (DIN EN 45545-2) R23 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 Fire protection for rail vehicles (DIN EN 45545-2) R23 HL 1 - HL 3	Surface flammability NFPA 130 (ASTM E 162)	passed
Calorimetric heat release NFPA 130 (ASTM E 1354) 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	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 Fire protection for rail vehicles (DIN EN 45545-2) R23 HL 1 - HL 3	Smoke gas toxicity NFPA 130 (SMP 800C)	passed
Fire protection for rail vehicles (DIN EN 45545-2) R23 HL 1 - HL 3	Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
	Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24 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



Technical data

General

Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3
Dimensions	
Width	40.6 mm
Length	28.2 mm
Height	30 mm
Height NS 15	33 mm

Connection data

Food in connection	Food in store
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 mm ²
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 mm ²
Conductor cross section AWG min.	20
Conductor cross section AWG max.	8
Conductor cross section flexible min.	0.5 mm²
Conductor cross section flexible max.	6 mm²
Min. AWG conductor cross section, flexible	20
Max. AWG conductor cross section, flexible	10
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	6 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
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm²



Technical data

Connection data

2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	1.5 mm ²
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

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Approvals

Approvals

Approvals

CSA / DNV GL

Ex Approvals

Approval details

CSA	http://www.cs	http://www.csagroup.org/services-industries/product-listing/	
	D	В	С
Nominal voltage UN	600 V	300 V	300 V
Nominal current IN	5 A	50 A	50 A
mm²/AWG/kcmil	20-8	20-8	20-8



Approvals

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