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Distribution block, Block with horizontal alignment and integrated supply, nom. voltage: 690 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: 41 mm, color: orange, mounting type: NS 15

Your advantages

- 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 pc
Minimum order quantity	8 pc
GTIN	4 055626 393995
GTIN	4055626393995
Weight per Piece (excluding packing)	33.300 g
Custom tariff number	85369010
Country of origin	Poland

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 mm²
Nominal cross section feed-in	6 mm²
Color	orange



Technical data

General

Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	6 kV
Degree of pollution	3
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	57 A
Nominal current I _N	24 A
Nominal voltage U _N	690 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	690 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 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	20 N
Conductor cross section tensile test	6 mm ²
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



Technical data

General

Setpoint Result of voltage-drop test Requirements, voltage drop Result of voltage-drop test Requirements, voltage drop Result of temperature-rise test Test passed Test passed Conductor cross section short circuit testing Short-time current 0.72 kA Conductor cross section short circuit testing Short-time current 1.2 kA Short-time current 1.2 kA Result of temperature index (Edec., UL. 746 B) Test passed Cocliation, brock and so despired index (Edec., UL. 746 B) Test passed Relative insulation material temperature index (Edec., UL. 746 B) Test passed Test passed Result of specification index (EMPC.) USA PA 130 (ASTIM E 162) Proof of the material polical fame passed Surchage flammability NPA 130 (ASTIM E 162) Proof of the material policial control (NPA PA 130 (ASTIM E 162) Proof of the material policial control (NPA PA 130 (ASTIM E 162) Proof of the material policy of PA 130 (ASTIM E 162) Proof of the material policy of PAPA 130 (ASTIM E 162) Proof of the material policial control of PAPA 130 (ASTIM E 162) Proof of the material policial control of PAPA 130 (ASTIM E 162) Proof of the material policial control of PAPA 130 (ASTIM E 162) Proof of the material policial control of PAPA 130 (ASTIM E 162) Proof of the material policial control of PAPA 130 (ASTIM E 162) Proof of the material policial control of PAPA 130 (ASTIM E 162) Proof of the material policial control of PAPA 130 (ASTIM E 162) Proof of the material policial control of PAPA 130 (ASTIM E 162) Proof of the material passed Proof of	Tight fit on carrier	NS 35
Requirements, voltage drop Result of temperature-rise test Test passed Short circuit stability result Conductor cross section short circuit testing Short-time current O.72 kA Conductor cross section short circuit testing Short-time current O.72 kA Conductor cross section short circuit testing In mm² Short-time current 1.2 kA Result of thermal test Result of thermal test Result of thermal test Result of thermal test Test passed Proof of thermal characteristics (needle fiame) effective duration So s So s Result of aging test Oscillation, broadband noise test result Test passed Oscillation, broadband noise test result Test specification, oscillation, broadband noise test result Test specification, oscillation, broadband noise DIN EN 50155 (VIDE 0115-200):2008-03 Test specification Sarvice life test category 2, bogie-mounted Test frequency f, = 5 the to f, = 250 Hz Acceleration 3.12 g Test duration per axis Test duration per axis Test duration per axis Test duration per axis Test specification, shock test DIN EN 50155 (VIDE 0115-200):2008-03 Shock test result Test passed Test passed Test passed Test passed Test specification, shock test DIN EN 50155 (VIDE 0115-200):2008-03 Shock duration Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction 30g Shock duration Mumber of shocks per direction 30g Shock duration Test directions X, Y, and Z-axis (pos. and neg.) Test directions X, Y, and Z-axis (pos. and neg.) Test directions X, Y, and Z-axis (pos. and neg.) Test passed Test pas	Setpoint	5 N
Result of temporature-rise test Tost passed Conductor cross section short circuit testing 6 mm² Short-time current 0.72 kA Conductor cross section short circuit testing 10 mm² Short-time current 1.2 kA Result of thermal test Ageing test for screwless modular terminal block temperature cycles 192 Proof of thermal characteristics (needle flame) effective duration Result of aging test Test passed Oxillation, broadband noise test result Test passed Oxillation, 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 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 3.12 g Test dravation per axis Test dravation per axis Test dravation per axis Test directions Shock test result Test passed DIN EN 50155 (VDE 0115-200):2008-03 Shock test result Test passed T	Result of voltage-drop test	Test passed
Short circuit stability result Conductor cross section short circuit testing Short-lime current Onductor cross section short circuit testing Short-lime 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, 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 Circuit field test category 2, bogie-mounted fi = 5 Hz to f, = 250 Hz ASD level 6.12 (m/s²)²/Hz Acceleration 3.12 g Test duration per axis 5 h Test duration per axis Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test duration per axis 5 h Test directions X-, Y- and Z-axis Shock form Half-sine Acceleration 30 g Shock duration 18 ms Aumber of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Temperature index of insulation material (DIN EN 60216-1 (VDE 004-2-1)) Temperature index of insulation material application in cold Behavior in fire for rail vehicles (DIN 5510-2) Test passed Test passed Filame test method (DIN EN 60965-11-10) Vo Oxygen index (DIN EN 100 Class F Surface flammability NFPA 130 (ASTM E 162) passed	Requirements, voltage drop	≤ 1.6 mV
Conductor cross section short circuit testing Short-time current O.72 kA Onductor cross section short circuit testing On mr² Short-time current 1.2 kA Result of thermal test 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, 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 DIN EN 50155 (VDE 0115-200):2008-03 Test specification oscillation, broadband noise Service life test category 2, bogie-mounted Test frequency f, 1= 5 Hz to 6, = 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 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.) Relative insulation material temperature index (Elec., UL 746 B) Test passed Test passed Test insulating material application in cold ebavior in fire for rail vehicles (DIN 5510-2) Flame test method (DIN EN 160 4589-2) NF 716-101, NF F10-102 Class F Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162)	Result of temperature-rise test	Test passed
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 192 Proof of thermal characteristics (needle flame) effective duration 30 s Result of aging test 7 test passed 192 Different or advantage of the section of the sec	Short circuit stability result	Test passed
Conductor cross section short circuit testing	Conductor cross section short circuit testing	6 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, broadband noise test result Test passed 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 DIN EN 50155 (VDE 0115-200):2008-03 Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test specification 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 DIN EN 50155 (VDE 0115-200):2008-03 DIN EN 50155 (VDE 0115-200):2008-03 Test specification 30 g Shock duration 18 ms Number of shocks per direction 30 g Shock duration material temperature index (Elec., UL 746 B) Test directions Relative insulation material temperature index (Elec., UL 746 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Test passed Flame test method (DIN EN 60695-11-10) V0 Cxygen index (DIN EN ISO 4589-2) Specific optical density of smoke NFPA 130 (ASTM E 162) passed Specific optical density of smoke NFPA 130 (ASTM E 662) Specific optical density of smoke NFPA 130 (ASTM E 662)	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 Result of aging test Oscillation, broadband noise test result Test passed DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 2, bogie-mounted Test frequency f, = 5 Hz to fe = 250 Hz ASD level 6.12 (m/s²)?Hz Acceleration 3.12 g Test duration per axis 5 h Test duration per axis Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 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 Test duration per axis Test passed Test	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 30 s Result of aging test Oscillation, broadband noise test result Test passed Test spesification, oscillation, broadband noise DiN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 2, bogie-mounted Test frequency f, = 5 Hz to f ₂ = 250 Hz ASD level 6.12 (m/s²)²/Hz Acceleration 3.12 g Test duration per axis Test duration per axis Shock test result Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test directions 30g Shock duration 18 ms Number of shocks per direction 3 ms 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 3004-21)) Static insulating material application in cold -60 °C Behavior in fire for rail vehicles (DIN 5510-2) Test passed Flame test method (DIN EN 6095-11-10) Vo Oxygen index (DIN EN 6095-11-10) Vo Oxygen index (DIN EN 6095-11-10) Vo Oxygen index (DIN EN 60095-11-10) Vo Oxygen index (DIN EN 60095-11-10) Passed Flame test method (DIN EN 6095-11-10) Frie-101, NF F10-102 Class F Surface flammability NFPA 130 (ASTM E 162) Passed	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 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 specification, oscillation, broadband noise Test frequency \$\frac{1}{5}\$ = 5 Hz to \$\frac{1}{5}\$ = 250 Hz ASD level \$6.12 \text{ (m/s}^2)^7/Hz Acceleration 3.12 g Test duration per axis \$5 \text{ h} 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 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 \$\$Pend \$\$^2\$ (PDE 0115-200) (PDE 0304-21) Test passed Flame test method (DIN EN 60695-11-10) Oxygen index (DIN EN 60695-11-10) V0 Oxygen index (DIN EN 80 6589-2) NF F16-101, NF F10-102 Class I Passed Specific optical density of smoke NFPA 130 (ASTM E 662) Specific optical density of smoke NFPA 130 (ASTM E 662)	Result of thermal test	Test passed
Result of aging test Oscillation, broadband noise test result Test passed DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 2, bogie-mounted Test frequency f ₁ = 5 Hz to f ₂ = 250 Hz ASD level 6.12 (m/s²²²Hz 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 3.0g Shock duration Half-sine Acceleration 30g Shock duration 18 ms Number of shocks per direction 3 Test directions X-, Y- and Z-axis (pos. and neg.) Test passed Test passed 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 ES 6095-11-10) Oxygen index (DIN EN 60695-11-10) Vo Oxygen index (DIN EN 160 457 Hz 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) Specific optical density of smoke NFPA 130 (ASTM E 662) Specific optical density of smoke NFPA 130 (ASTM E 662) Specific optical density of smoke NFPA 130 (ASTM E 662)	Ageing test for screwless modular terminal block temperature cycles	192
Oscillation, broadband noise test result 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, = 5 Hz to f ₂ = 250 Hz ASD level 6.12 (m/s²)²/Hz Acceleration 3.12 g Test duration per axis 5 h Test directions Shock test result Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 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 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) Test passed Test method (DIN EN 180 4589-2) NF F16-101, NF F10-102 Class I 2 Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 162)	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 f ₁ = 5 Hz to f ₂ = 250 Hz ASD level 6.12 (m/s²)²/Hz Acceleration 3.12 g Test duration per axis Test directions Shook test result Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 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. "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 Behavior in fire for rail vehicles (DIN 5510-2) Flame test method (DIN EN 60695-11-10) V0 Oxygen index (DIN EN 1SO 4589-2) 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) Specific optical density of smoke NFPA 130 (ASTM E 662)	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/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) VO 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 NF	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 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)	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 Specific optical density of smoke NFPA 130 (ASTM E 662) passed	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)) 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 Surface flammability NFPA 130 (ASTM E 162) passed Specific optical density of smoke NFPA 130 (ASTM E 662) passed	Test frequency	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$
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	ASD level	6.12 (m/s ²) ² /Hz
Test directions Shock test result Test spassed 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 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 50°C Behavior in fire for rail vehicles (DIN 5510-2) Flame test method (DIN EN 6095-11-10) Oxygen index (DIN EN ISO 4589-2) NF F16-101, NF F10-102 Class I 2 Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) passed	Acceleration	3.12 g
Shock test result Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 30g Shock duration 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 Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) passed	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 7 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 60895-11-10) 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) passed	Test directions	X-, Y- and Z-axis
Shock form 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) 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) passed	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	Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock duration 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 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) passed	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) 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) passed	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)) 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	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 -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 VIET CLASS I VI	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	Test directions	X-, Y- and Z-axis (pos. and neg.)
Static insulating material application in cold Static insulating material application in cold General Plane test passed 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)	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 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) Test passed 20 Passed Passed		130 °C
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	Static insulating material application in cold	-60 °C
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	Behavior in fire for rail vehicles (DIN 5510-2)	Test passed
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	Flame test method (DIN EN 60695-11-10)	V0
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	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) passed passed	NF F16-101, NF F10-102 Class I	2
Specific optical density of smoke NFPA 130 (ASTM E 662) passed	NF F16-101, NF F10-102 Class F	2
	Surface flammability NFPA 130 (ASTM E 162)	passed
Smoke gas toxicity NFPA 130 (SMP 800C) passed	Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
	Smoke gas toxicity NFPA 130 (SMP 800C)	passed



Technical data

General

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
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	41 mm
Length	28.6 mm
Height NS 15	31.4 mm

Connection data

Feed-in connection	Feed-in stage
Connection method	Push-in connection
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	0.14 mm²
Conductor cross section solid max.	4 mm²
Conductor cross section AWG min.	26
Conductor cross section AWG max.	12
Conductor cross section flexible min.	0.14 mm²
Conductor cross section flexible max.	2.5 mm²
Min. AWG conductor cross section, flexible	26
Max. AWG conductor cross section, flexible	14
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.14 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	2.5 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



Technical data

Connection data

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
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



Classifications

eCl@ss

eCl@ss 4.0	27141121
eCl@ss 4.1	27141121
eCl@ss 5.0	27141120
eCl@ss 5.1	27141120
eCl@ss 6.0	27141100
eCl@ss 7.0	27141120
eCl@ss 8.0	27141120
eCl@ss 9.0	27141120

ETIM

ETIM 3.0	EC000897
ETIM 4.0	EC000897
ETIM 5.0	EC000897
ETIM 6.0	EC000897



Classifications

UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410

Approvals

Approvals

Approvals

DNV GL / CSA / EAC

Ex Approvals

Approval details

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

CSA	(F)	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	
mm²/AWG/kcmil	20-8		20-8		20-8	

EAC RU C-DE.AI30.B.0	1102
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Accessories

Accessories

DIN rail



Accessories

DIN rail perforated - NS 35/7,5 PERF 2000MM - 0801733



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/7,5 UNPERF 2000MM - 0801681



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail perforated - NS 35/7,5 WH PERF 2000MM - 1204119



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/7,5 WH UNPERF 2000MM - 1204122



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/7,5 AL UNPERF 2000MM - 0801704



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver



Accessories

DIN rail perforated - NS 35/7,5 ZN PERF 2000MM - 1206421



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/7,5 ZN UNPERF 2000MM - 1206434



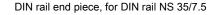
DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/7,5 CU UNPERF 2000MM - 0801762



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored

End cap - NS 35/7,5 CAP - 1206560





DIN rail perforated - NS 35/15 PERF 2000MM - 1201730



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver



Accessories

DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail perforated - NS 35/15 WH PERF 2000MM - 0806602



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 WH UNPERF 2000MM - 1204135



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

DIN rail perforated - NS 35/15 ZN PERF 2000MM - 1206599



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver



Accessories

DIN rail, unperforated - NS 35/15 ZN UNPERF 2000MM - 1206586



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM - 1201895



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored

End cap - NS 35/15 CAP - 1206573



DIN rail end piece, for DIN rail NS 35/15

Filler plug

Filler plugs - CEC 2,5 - 3062757



Cover for conductor shaft, 10-pos., for spring cage terminal blocks (ST) and terminal blocks with push-in technology (PT) with a width of 5.2 mm

Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

Insulating sleeve, color: white





Accessories

Insulating sleeve - MPS-IH RD - 0201676

Insulating sleeve, color: red



Insulating sleeve - MPS-IH BU - 0201689

Insulating sleeve, color: blue



Insulating sleeve - MPS-IH YE - 0201692

Insulating sleeve, color: yellow



Insulating sleeve - MPS-IH GN - 0201702

Insulating sleeve, color: green



Insulating sleeve - MPS-IH GY - 0201728

Insulating sleeve, color: gray





Accessories

Insulating sleeve - MPS-IH BK - 0201731

Insulating sleeve, color: black



Insulating sleeve - ISH 2,5/0,2 - 3002843



Insulating sleeve, color: white

Insulating sleeve - ISH 2,5/0,5 - 3002856



Insulating sleeve, color: gray

Insulating sleeve - ISH 2,5/1,0 - 3002869



Insulating sleeve, color: black

Jumper

Plug-in bridge - FBS 2-5 - 3030161



Plug-in bridge, pitch: 5.2 mm, length: 22.7 mm, width: 9 mm, number of positions: 2, color: red



Accessories

Plug-in bridge - FBS 2-5 GN - 3032143



Plug-in bridge, pitch: 5.2 mm, number of positions: 2, color: green

Plug-in bridge - FBS 2-5 BU - 3036877



Plug-in bridge, pitch: 5.2 mm, number of positions: 2, color: blue

Plug-in bridge - FBS 2-5 GY - 3038969



Plug-in bridge, pitch: 5.2 mm, number of positions: 2, color: gray

Labeled terminal marker

Marker card - SK 5/3,8:FORTL.ZAHLEN - 0804183



Marker card, Card, white, labeled, Horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... (99)100, mounting type: adhesive, for terminal block width: 5 mm, lettering field size: 5 x 3.8 mm

Marker card - SK 3,8 REEL P5 WH CUS - 0825124



Marker card, can be ordered: By card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 5 mm, lettering field size: continuous x 3.8 mm

Marker carriers



Accessories

Terminal strip marker carrier - KLM 2 - 0807575



Terminal strip marker carrier, gray, unlabeled, mounting type: Plug in, lettering field size: 20 mm x 8 mm

Terminal strip marker carrier - KLM 3-L - 0814788



Terminal strip marker carrier, height-adjustable, for end brackets CLIPFIX 15, CLIPFIX 35 and CLIPFIX 35-5, can be labeled with BMK...20 x 8 labels, or directly with the M-PEN or X-PEN

Screwdriver tools

Screwdriver - SZF 1-0,6X3,5 - 1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: $0.6 \times 3.5 \times 100$ mm, 2-component grip, with non-slip grip

Terminal marking

Marking foil for zack marker strip - TML (EX3,8)R - 0801837



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 30000 mm, lettering field size: 30,000 x 3.8 mm

Marking foil for zack marker strip - TML (104X3,8)R - 0801833



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 104 mm, lettering field size: 104 x 3.8 mm

Test plug terminal block



Accessories

Test plugs - MPS-MT SN - 3212251



Test plugs, with solder connection up to 1 mm² conductor cross section, tin-plated surface, color: silver

Test plugs - MPS-MT 1-S - 1944372



Test plug, consisting of 1.0 mm Ø test pin and 2.0 mm Ø socket

Test plugs - MPS-MT - 0201744



Test plugs, with solder connection up to 1 mm² conductor cross section, color: gray

Test socket

Test adapter - PAI-4-N GY - 3032871



4 mm test adapter, for terminal blocks with 5.2 mm, 6.2 mm and 8.2 mm pitch

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