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Marshalling patchboard, nom. voltage: 500 V, nominal current: 17.5 A, cross section: 0.14 mm² - 2.5 mm², AWG: 14 - 26, connection method: Push-in connection, number of positions: 8, number of connections: 192, width: 44 mm, length: 111 mm, color: gray, color of connection elements: blue, mounting: Wall mounting, 19" rack

Your advantages

- High contact quality thanks to push-in technology as a replacement for Wire-Wrap®, TERMI-POINT®, etc.
- For mounting in 19" racks
- Clear representation of actuation and terminal points through vertical conductor routing
- ▼ Tool-free wiring in a confined space thanks to compact size
- ☑ Blue version for using in intrinsically safe circuits in potentially explosive areas (type of protection Ex i)



Key Commercial Data

Packing unit	18 pc
GTIN	4 055626 046785
GTIN	4055626046785
Weight per Piece (excluding packing)	99.990 g
Custom tariff number	85369010
Country of origin	Poland
Note	Made to Order (non-returnable)

Technical data

General

Note	Labeled from 1 - 32
Number of positions	8
Number of levels	1
Number of connections	192
Nominal cross section	1.5 mm²
Color	gray
Color of connection elements	blue



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	0.56 W (the value is based on one connection block and is multiplied according to the pin assignment)
Maximum load current	24 A (in case of a 2.5 mm² conductor cross section, the maximum load current must not be exceeded by the total current of all connected conductors.)
	12 A (in case of a 2.5 mm² conductor cross section, the maximum load current must not be exceeded by the total current of all connected conductors.)
Nominal current I _N	17.5 A
Nominal voltage U _N	500 V
Open side panel	No
Ambient temperature (operation)	-60 °C 85 °C
Ambient temperature (storage/transport)	-25 °C 55 °C (For a short time, not exceeding 24 h, -60 to +70 °C)
Moisture, minimum (storage/transport)	30 %
Moisture, maximum (storage/transport)	70 %
Ambient temperature (assembly)	-5 °C 70 °C
Ambient temperature (actuation)	-5 °C 70 °C
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	7.3 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	0.14 mm² / 0.2 kg
	1.5 mm² / 0.4 kg
	2.5 mm² / 0.7 kg
Tensile test result	Test passed
Conductor cross section tensile test	0.14 mm²
Tractive force setpoint	10 N
Conductor cross section tensile test	1.5 mm²



Technical data

General

Conductor cross section tensile test	Tractive force setpoint	40 N
Result of tight fit on support Tight fit on carrier NS 35 Setpoint IN Setpoint IN Setpoint Sesult of Voltage-drop test Test passed Requirements, voltage drop Sesult of Voltage-drop test Result of temperature-rise test Test passed Requirements, voltage drop Short circuit stability result Test passed Test passed Short circuit stability result Conductor cross section short circuit testing 1.5 mm² Short-time current 0.18 kA Conductor cross section short circuit testing 2.5 mm² Short-time current 0.3 kA Result of thermal test Test passed 30 s Result of thermal test Ageing test for screwless modular terminal block temperature cycles Proof of thermal characteristics (needle flame) effective duration Result of signification, 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, socialization, broadband noise DIN EN 50155 (VDE 0115-200);2008-03 Test specification Service if test category 1, class B, body mounted Test frequency f, = 5 Hz to f, = 150 Hz Acceleration 0.58 g Test duration per axis Test specification, shock test DIN EN 50155 (VDE 0115-200);2008-03 Test duration per axis Test specification, shock test DIN EN 50155 (VDE 0115-200);2008-03 Test duration per axis Test specification, shock test DIN EN 50156 (VDE 0115-200);2008-03 The stability of the shock per direction 30 ms Number of shocks per direction 31 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 6021	Conductor cross section tensile test	2.5 mm ²
Tight fit on camier Setpoint 1 N Result of Voltage-drop test Requirements, voltage drop Result of temperature-rise test Test passed Requirements, voltage drop Result of temperature-rise test Test passed Test passed Test passed Test passed 1.5 mm² Short-time current 0.18 kA Conductor cross section short circuit testing Short-time current 0.18 kA Conductor cross section short circuit testing 2.5 mm² Short-time current 0.3 kA Result of thermal test Test passed Ageing test for screwless modular terminal block temperature cycles Proof of thermal characteristics (needle flame) effective duration 30 s Result of sping 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 50156 (VDE 0115-200):2008-03 Service life test category 1, class B, body mounted Test frequency 4, 5 to 15, 5 to 12 Acceleration 0.58 g Test duration per axis Test specification, shock test Test passed DIN EN 50155 (VDE 0115-200):2008-03 Shock test result Test passed Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock duration Acceleration 5g Shock duration Shock form Half-sine Acceleration Shock form Half-sine Acceleration Shock form (Half-sine) Acceleration (Half-sine) Accele	Tractive force setpoint	50 N
Setpoint 1 N Result of voltage-drop test Test passed Requirements, voltage drop ≤ 3.2 mV Result of temperature-rise test Test passed Short circuit stability result Test passed Conductor cross section short circuit testing 1.5 mm² Short-time current 0.18 kA Conductor cross section short circuit testing 2.5 mm² Short-time current 0.3 kA Result of thermal test Test passed Ageing test for screwless modular terminal block temperature cycles 192 Proof of thermal characteristics (needle flame) effective duration 30 s Result of aging test Test passed Oscillation, broadband noise test result Test passed Test specification, oscillation, posalband noise DIN EN 50155 (VDE 0115-200):2008-03 Test specification Service life test category 1, class B, body mounted Test frequency f, = 5 Hz to f, = 150 Hz ASD level 0.964 (m/s²)²/Hz Acceleration 0.58 g Test duration per axis 5 h Test specification, shock test DIN EN 50156 (VDE 0115-200):2008-03	Result of tight fit on support	Test passed
Result of voltage-drop test Requirements, voltage drop Result of temperature-rise test Test passed Short circuit stability result Conductor cross section short circuit testing 1.5 mm² Short-time current 0.18 kA Conductor cross section short circuit testing 2.5 mm² Short-time current 0.3 kA Result of thermal test Result of thermal test Result of thermal test Test passed Result of thermal characteristics (needle flame) effective duration 30 s Result of ging test Coscillation, 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 50156 (VDE 0115-200):2008-03 Test stepture Service life test category 1, class B, body mounted Test frequency f, 1 = 5 Hz to f, = 150 Hz ACceleration 0.58 g 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 Test directions X, Y - and Z-axis Shock form Half-sine Acceleration 5g Shock duration Number of shocks per direction 3 Test directions X, Y - and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., U. T46 B) Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) 125 °C Static insulating material application in cold Go °C Sturface flammability 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) 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)	Tight fit on carrier	NS 35
Requirements, voltage drop Result of temperature-rise test Test passed Conductor cross section short circuit testing Short-lime current On the KA Conductor cross section short circuit testing Short-lime current On the KA Conductor cross section short circuit testing Short-lime current On the KA Conductor cross section short circuit testing Short-lime current On the KA Conductor cross section short circuit testing Short-lime current On the KA Conductor cross section short circuit testing Short-lime current On the KA Conductor cross section short circuit testing Short-lime current On the KA Conductor cross section short circuit testing Short-lime current On the KA Conductor cross section short circuit testing Short-lime current On the KA ACA Result of themal test Test passed Ageing test for screwless modular terminal block temperature cycles 192 Proof of thermal characteristics (needle flame) effective duration 30 s Result of themal characteristics (needle flame) effective duration 30 s Result of gaing test Test passed Test passed Test passed DIN EN 501555 (VDE 0115-200):2008-03 Test specification, oscillation, broadband noise DIN EN 501555 (VDE 0115-200):2008-03 Test frequency f., 5 Hz to f.g = 150 Hz Acceleration O.58 g Test duration per axis Shock test result Test passed Test specification, shock test Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration Sg Shock test result Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration Number of shocks per direction 30 ms Numb	Setpoint	1 N
Result of temperature-rise test Short circuit stability result Test passed 1.5 mm² 1.5 mm² 1.5 mm² Short-time current 0.18 kA Conductor cross section short circuit testing 2.5 mm² Short-time current 0.3 kA Result of thermal test Ageing test for screwless modular terminal block temperature cycles Proof of thermal characteristics (needle flame) effective duration Result of aging test 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 spectrum Service life test category 1, class B, body mounted Test frequency f, = 5 Hz to f, = 150 Hz ASD level 0.964 (m/s³)²/Hz Acceleration 0.58 g Test duration per axis Test specification, shock test esult Test spessed DIN EN 50155 (VDE 0115-200):2008-03 Test duration per axis Test duration per axis Test duration shock test DIN EN 50155 (VDE 0115-200):2008-03 Half-sine Acceleration 5g Shock form Half-sine Acceleration 3 ms Number of shocks per direction 7est directions X, Y, and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) 130 °C Harperparture index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold 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) Specific optical density of smoke NFPA 130 (ASTM E 662) Smoke gas toxicity NFPA 130 (SMP 800C)	Result of voltage-drop test	Test passed
Short circuit stability result Conductor cross section short circuit testing 1.5 mm² 1.5 mm² O.18 kA Conductor cross section short circuit testing 2.5 mm² Short-time current 0.3 kA Result of thermal test 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 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 1, class B, body mounted Test frequency f, = 5 Hz to f, = 150 Hz Ascoleration O.58 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 Half-sine Acceleration 30 ss Number of shocks per direction 31 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 0304-21)) Static insulating material application in cold For C 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 662) Smoke gas toxicity NFPA 130 (GSTM E 162) Smoke gas toxicity NFPA 130 (GSTM E 162) Smoke gas toxicity NFPA 130 (GSTM E 662)	Requirements, voltage drop	≤ 3.2 mV
Conductor cross section short circuit testing 1.5 mm² Short-time current 0.18 kA 2.5 mm² Short-time current 0.3 kA Result of thermal test Test passed Ageing test for screwless modular terminal block temperature cycles Proof of thermal characteristics (needle flame) effective duration Result of aging test Test passed Oscillation, broadband noise test result Test passed DIN EN 50155 (VDE 0115-200):2008-03 Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test frequency f, = 5 Hz to f, = 150 Hz ASD level O.964 (m/s²)²/Hz Acceleration Test duration per axis 5 h Test duration per axis Shock test result Test passed DIN EN 50155 (VDE 0115-200):2008-03 Test specification, socillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test duration per axis 5 h Test duration per axis Shock test result Test passed DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 5g Shock duration 30 ms Number of shocks per direction 31 Test directions X-, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) Test passed Felative insulation material temperature index (Elec., UL 746 B) Test passed Felative insulation material application in cold -60 °C 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 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) 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)	Result of temperature-rise test	Test passed
Short-time current	Short circuit stability result	Test passed
Conductor cross section short circuit testing Short-time current O.3 kA Result of thermal test 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 Oscillation, broadband noise test result Test passed 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 1, class B, body mounted Test frequency f ₁ = 5 Hz to f ₂ = 150 Hz ASD level O.964 (m/s²)²/Hz Acceleration 0.58 g Test duration per axis 5 h Test directions X Y. and Z-axis Shock test result Test spassed Test spassed DIN EN 50155 (VDE 0115-200):2008-03 Test spassed DIN EN 50155 (VDE 0115-200):2008-03 Marken Solidation, shock test DIN EN 50155 (VDE 0115-200):2008-03 DIN EN 50155 (VDE 0115-200):2008-03 Marken Solidation, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test directions Shock duration 30 ms Number of shocks per direction 3 creative insulation material temperature index (Elec., UL 746 B) Test directions XY- and Z-axis (pos. and neg.) Test directions defection and a defecti	Conductor cross section short circuit testing	1.5 mm²
Short-time current 0.3 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 1, class B, body mounted Test frequency f ₁ = 5 Hz to f ₂ = 150 Hz ASD level 0.964 (m/s²)²/Hz Acceleration Test duration per axis 5 h Test passed Test passed Test passed Test duration, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 1, class B, body mounted f ₁ = 5 Hz to f ₂ = 150 Hz ASD level 0.964 (m/s²)²/Hz Acceleration 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 Half-sine Acceleration 5g Shock duration 30 ms Number of shocks per direction 3 a 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)) 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)	Short-time current	0.18 kA
Result of thermal test Ageing test for screwless modular terminal block temperature cycles Proof of thermal characteristics (needle flame) effective duration Result of aging test Test passed Oscillation, broadband noise test result Test passed 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 frequency f ₁ = 5 Hz to f ₂ = 150 Hz ASD level 0.964 (m/s²)²/Hz Acceleration 0.58 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 Half-sine Acceleration 5g Shock duration 30 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 Surface flammability NFPA 130 (ASTM E 162) passed Smoke gas toxicity NFPA 130 (SMP 800C) passed	Conductor cross section short circuit testing	2.5 mm²
Ageing test for screwless modular terminal block temperature cycles Proof of thermal characteristics (needle flame) effective duration Result of aging test Test passed Oscillation, broadband noise test result Test passed Test passed DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 1, class B, body mounted Test frequency ASD level 0.964 (m/s³)²/Hz Acceleration 0.58 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 duration per axis 5 h Test directions X-, Y- and Z-axis Shock form Half-sine Acceleration 5g Shock duration 30 ms Number of shocks per direction 3 x, Y- and Z-axis (pos. and neg.) Relative insulation material temperature index (Elec., UL 746 B) Tent perature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) Static insulating material application in cold Specific optical density of smoke NFPA 130 (ASTM E 162) passed Smoke gas toxicity NFPA 130 (SMP 800C) passed	Short-time current	0.3 kA
Proof of thermal characteristics (needle flame) effective duration Result of aging test Test passed Oscillation, broadband noise test result Test passed DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 1, class B, body mounted Test frequency f ₁ = 5 Hz to f ₂ = 150 Hz ASD level Acceleration 0.56 g Test duration per axis 5 h Test directions X-, Y- and Z-axis Shock test result Test spescification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Test duration per axis 5 h Test directions Din EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 5g Shock duration 30 ms Number of shocks per direction Service life test category 1, class B, body mounted Test passed Test passed Test of the per axis Test passed 10 IN EN 50155 (VDE 0115-200):2008-03 Shock form Acceleration Sg Shock duration 30 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)) Slatic insulating material application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) passed Smoke gas toxicity NFPA 130 (SMP 800C) passed	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 spectfication, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 1, class B, body mounted Test frequency f ₁ = 5 Hz to f ₂ = 150 Hz ASD level 0.964 (m/s²)²/Hz Acceleration 0.58 g Test duration per axis 5 h Test directions X-, Y- and Z-axis Shock test result Test spessed DIN EN 50155 (VDE 0115-200):2008-03 Half-sine Acceleration 5g Shock duration 30 ms Number of shocks per direction 3 a 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 meterial application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) passed Smoke gas toxicity NFPA 130 (SMP 800C) Passed	Ageing test for screwless modular terminal block temperature cycles	192
Oscillation, broadband noise test result Test passed Test specification, oscillation, broadband noise DIN EN 50155 (VDE 0115-200):2008-03 Test spectrum Service life test category 1, class B, body mounted Test frequency f₁ = 5 Hz to f₂ = 150 Hz ASD level 0.964 (m/s²)²/Hz Acceleration 0.58 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 5g Shock duration 30 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)) 125 °C Static insulating material application in cold -60 °C Surface flammability NFPA 130 (ASTM E 162) passed Smoke gas toxicity NFPA 130 (SMP 800C) 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 1, class B, body mounted Test frequency f ₁ = 5 Hz to f ₂ = 150 Hz ASD level 0.964 (m/s²)²/Hz Acceleration 0.58 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 5g Shock duration 30 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 Surface flammability NFPA 130 (ASTM E 162) passed Smoke gas toxicity NFPA 130 (SMP 800C) passed	Result of aging test	Test passed
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Test frequency $ \begin{array}{c} f_1 = 5 \ Hz \ to \ f_2 = 150 \ Hz \\ \hline ASD \ level \\ \hline ASD \ level \\ \hline ASD \ level \\ \hline Asceleration \\ \hline County \ Co$	Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03
ASD level 0.964 (m/s²)²/Hz Acceleration 0.58 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 5g Shock duration 30 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 Surface flammability NFPA 130 (ASTM E 162) passed Smoke gas toxicity NFPA 130 (SMP 800C) passed Smoke gas toxicity NFPA 130 (SMP 800C)	Test spectrum	Service life test category 1, class B, body mounted
Acceleration 0.58 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 5g Shock duration 30 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 Surface flammability NFPA 130 (ASTM E 162) passed Smoke gas toxicity NFPA 130 (SMP 800C) passed	Test frequency	$f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$
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 5g Shock duration 30 ms Number of shocks per direction 7est 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 Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) Smoke gas toxicity NFPA 130 (SMP 800C) passed	ASD level	0.964 (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 5g Shock duration 30 ms Number of shocks per direction 7est 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 Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) Smoke gas toxicity NFPA 130 (SMP 800C) passed	Acceleration	0.58 g
Shock test result Test passed DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 5g 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 Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) Smoke gas toxicity NFPA 130 (SMP 800C) Passed	Test duration per axis	5 h
Test specification, shock test DIN EN 50155 (VDE 0115-200):2008-03 Shock form Half-sine Acceleration 5g Shock duration 30 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 5g 3	Test directions	X-, Y- and Z-axis
Shock form Half-sine Acceleration 5g Shock duration 30 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 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	Shock test result	Test passed
Acceleration 5g Shock duration 30 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)) 125 °C Static insulating material application in cold -60 °C 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	Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock duration 30 ms Number of shocks per direction 7 Est 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 Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) Smoke gas toxicity NFPA 130 (SMP 800C) 3 X-, Y- and Z-axis (pos. and neg.) 125 °C 125 °C 125 °C 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 Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) Smoke gas toxicity NFPA 130 (SMP 800C) 3 X-, Y- and Z-axis (pos. and neg.) 125 °C 125 °C passed passed	Acceleration	5g
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)) 125 °C Static insulating material application in cold -60 °C 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	Shock duration	30 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 Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) Smoke gas toxicity NFPA 130 (SMP 800C) 125 °C 125 °C passed passed	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 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	Test directions	X-, Y- and Z-axis (pos. and neg.)
Static insulating material application in cold -60 °C 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	Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Surface flammability NFPA 130 (ASTM E 162) Specific optical density of smoke NFPA 130 (ASTM E 662) Smoke gas toxicity NFPA 130 (SMP 800C) passed passed		125 °C
Specific optical density of smoke NFPA 130 (ASTM E 662) Smoke gas toxicity NFPA 130 (SMP 800C) passed passed	Static insulating material application in cold	-60 °C
Smoke gas toxicity NFPA 130 (SMP 800C) passed	Surface flammability NFPA 130 (ASTM E 162)	passed
	Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Calorimetric heat release NFPA 130 (ASTM E 1354) 27,5 MJ/kg	Smoke gas toxicity NFPA 130 (SMP 800C)	passed
	Calorimetric heat release NFPA 130 (ASTM E 1354)	27,5 MJ/kg



Technical data

General

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	44 mm
Length	111 mm
Height	30 mm

Connection data

Connection method	Push-in connection
Stripping length	8 mm 10 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	0.14 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section AWG min.	26
Conductor cross section AWG max.	14
Conductor cross section flexible min.	0.14 mm²
Conductor cross section flexible max.	1.5 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.	1.5 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.14 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	1.5 mm²
Conductor cross section solid min.	0.34 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.34 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	1.5 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.34 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	1.5 mm²
Internal cylindrical gage	A1

Standards and Regulations

Connection in acc. with standard	IEC 60947-7-1
Flammability rating according to UL 94	VO

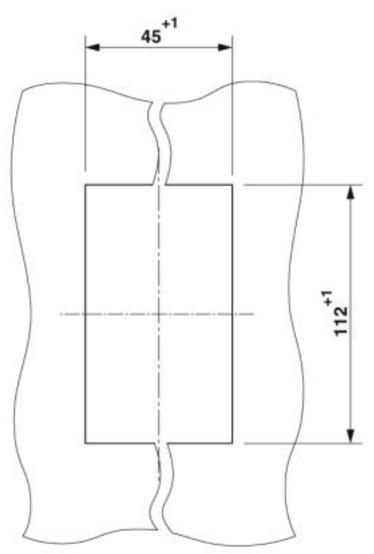
Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

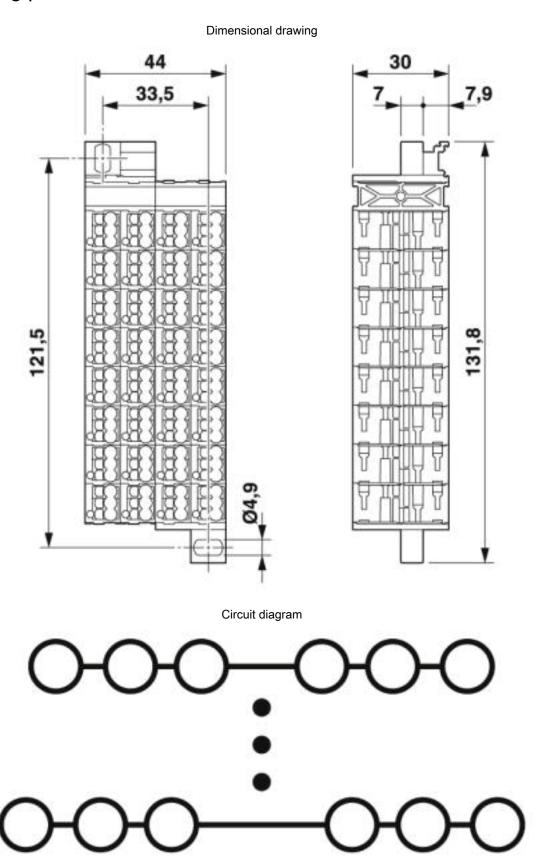


Dimensional drawing



Panel cutout







Classifications

eCl@ss

eCl@ss 10.0.1	27141120
eCl@ss 4.0	27141100
eCl@ss 4.1	27141100
eCl@ss 5.0	27141100
eCl@ss 5.1	27141100
eCl@ss 6.0	27141100
eCl@ss 7.0	27141120
eCl@ss 8.0	27141120
eCl@ss 9.0	27141120

ETIM

ETIM 5.0	EC000897
ETIM 6.0	EC000897
ETIM 7.0	EC000897

UNSPSC

UNSPSC 13.2	39121410
UNSPSC 18.0	39121410
UNSPSC 19.0	39121410
UNSPSC 20.0	39121410
UNSPSC 21.0	39121410

Approvals

Approvals

Approvals

CSA / UL Recognized / cUL Recognized / EAC / EAC / cULus Recognized

Ex Approvals

Approval details

CSA	(P	http://www.csagroup.org/services-industries/product-listing/ 13631		13631	
	В		С	D	
Nominal voltage UN	300 V		300 V	300 V	
Nominal current IN	10 A		10 A	10 A	
mm²/AWG/kcmil	24-16		24-16	24-16	



Approvals

UL Recognized	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E	
	В	С
Nominal voltage UN	300 V	300 V
Nominal current IN	10 A	10 A
mm²/AWG/kcmil	24-16	24-16

cUL Recognized	http://database.ul.com/cgi-bin/XYV/template/L	LISEXT/1FRAME/index.htm FILE E 60425
	В	С
Nominal voltage UN	300 V	300 V
Nominal current IN	10 A	10 A
mm²/AWG/kcmil	24-16	24-16

EAC	EAC	RU C- DE.Al30.B.01102
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EAC EAC	RU C- DE.BL08.B.00682
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cULus Recognized CTUs

Accessories

Accessories

Bridge

Wire bridge - DB 50- 90 BU - 2821180

Wire bridge, color: blue

unu



Accessories

Wire bridge - DB 50- 90 BK - 2820916

Wire bridge, color: black



Wire bridge - DB 50- 90 GY - 2820929



Wire bridge - DB 50- 90 RD - 2864639

Wire bridge, color: red



Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

Insulating sleeve, color: white



Insulating sleeve - MPS-IH RD - 0201676

Insulating sleeve, color: red





Accessories

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



Insulating sleeve - MPS-IH BK - 0201731

Insulating sleeve, color: black



Mounting material



Accessories

Flange cover - DF-PTMC-O - 3270400



Flange cover, for direct mounting on top and for accommodating the marking, length: 30 mm, width: 22 mm, height: 13 mm, color: gray

Flange cover - DF-PTMC-U - 3270401



Flange cover, for direct mounting below, length: 29.1 mm, width: 22 mm, height: 12.8 mm, color: gray

Adapter - DF-PTMC-NS - 3270403



Adapter, for mounting on a DIN rail, length: 64 mm, width: 22 mm, color: gray

Marker adapter - DF-PTMC-ZB - 3270410



Marker adapter, for direct mounting on top and for accommodating the marking, length: 30 mm, width: 11 mm, height: 13 mm, color: gray

Screwdriver tools

Screwdriver - SZF 0-0,4X2,5 - 1204504



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.4 x 2.5 x 75 mm, 2-component grip, with non-slip grip



Accessories

Actuation tool - ST-BW 0 - 1200135



Actuation tool, for all 1.5 mm² spring cages from PT 1,5/S and FT 1,5/S

Test plug terminal block

Reducing plug - RPS - 0201647



Reducing plug, color: gray

Test plugs - MPS-MT - 0201744



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

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