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Disconnect terminal block, Connection method: Spring-cage connection, Cross section: 0.08 mm² - 6 mm², AWG: 28 - 10, Width: 6.2 mm, Color: black/orange, Mounting type: NS 35/7,5, NS 35/15

### Why buy this product

An extremely compact design



## **Key Commercial Data**

Packing unit	50 STK
Minimum order quantity	50 STK
GTIN	4 017918 975272
GTIN	4017918975272
Weight per Piece (excluding packing)	14.550 g
Custom tariff number	85365080
Country of origin	Poland

## Technical data

#### General

Number of levels	1
Number of connections	2
Nominal cross section	4 mm <sup>2</sup>
Color	black/orange
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



## Technical data

## General

Maximum load current Is, Nominal voltage Us, Nominal voltage Us, Open side panel No Shock protection test specification Din En 50274 (VDE 0600-514):2002-11 Back of the hand protection guaranteed Finger protection Result of surge voltage test Surge voltage test setpoint Result of power-frequency withstand voltage test Toest passed Power frequency withstand voltage setpoint 1.89 kV Result of the test for mechanical stability of terminal points (5 x conductor conscious) Result of bending test for test for mechanical stability of terminal points (5 x conductor conscious) Result of bending test for service with test for mechanical stability of terminal points (5 x conductor conscious) Result of bending test for mechanical stability of terminal points (5 x conductor conscious) Result of bending test for mechanical stability of terminal points (5 x conductor conscious) Result of bending test for mechanical stability of terminal points (5 x conductor conscious) Result of bending test for mechanical stability of terminal points (5 x conductor conscious) Result of bending test for mechanical stability of terminal points (5 x conductor conscious) Result of bending test for mechanical stability of terminal points (5 x conductor conscious) Result of conductor cross section/weight  Tractive force septoint Tractive force septoint Sh N Conductor cross section tensile test Tractive force septoint Sh N Result of tight fit on support Tractive force septoint Tractiv	Connection in acc. with standard	IEC 60947-7-1		
Nominal voltage U <sub>N</sub> Open side panel No Open side panel No Shock protection test specification Back of the hand protection  Result of surge voltage test Test passed Back of the state set point Tast passed Test passed Test passed Power frequency withstand voltage test Test passed Power frequency withstand voltage setpoint Result of power-frequency withstand voltage setpoint Result of the test for mechanical stability of terminal points (5 x Conductor connection)  Result of bending test Test passed To type Bending test trotalin speed To type Bending test trotalin speed To type Bending test conductor cross section/weight  Output  Tast passed  On Mam² / 0.1 kg  Tensile test result Test passed Conductor cross section tensile test Tractive force setpoint Tractive force setpoint So N  Conductor cross section tensile test Tractive force setpoint Bo N  Conductor cross section tensile test Tractive force setpoint Bo N  Conductor cross section tensile test Tractive force setpoint Bo N  Conductor cross section tensile test Tractive force setpoint Tra	Maximum load current			
Open side panel  Shock protection test specification  DIN EN 50274 (VDE 0660-514):2002-11  Back of the hand protection  guaranteed  Result of surge voltage test Surge voltage test setpoint  Result of surge-requency withstand voltage sets  Power frequency withstand voltage setpoint  Result of bette for mechanical stability of terminal points (6 x  Conductor connection)  Result of power frequency withstand voltage setpoint  Result of bette for mechanical stability of terminal points (6 x  Result of bette for mechanical stability of terminal points (6 x  Result of bette for mechanical stability of terminal points (6 x  Result of bette for mechanical stability of terminal points (6 x  Result of bette for mechanical stability of terminal points (6 x  Test passed  Power frequency withstand voltage setpoint  Result of bette for mechanical stability of terminal points (6 x  Test passed  Power frequency withstand voltage setpoint  Result of bette for mechanical stability of terminal points (6 x  Test passed  Pending test rotation speed  Bending test rotation speed  10 rpm  135  Bending test tration speed  10 npm  135  Bending test troductor cross section/weight  0.08 mm² / 0.1 kg  135  Bending test conductor cross section tensile test  0.08 mm²  Trasile test result  Conductor cross section tensile test  0.08 mm²  Tractive force setpoint  0.0 N  Conductor cross section tensile test  6 mm²  Tractive force setpoint  80 N  Result of tight fit on support  Tractive force setpoint  1 N  Result of voltage-drop test  Test passed  Test passed  Test passed  Test passed  Test passed  Short circuit stability result  Test passed  Test passed  Test passed  Proof of thermal characteristics (needle flame) effective duration  30 s  Proof of thermal characteristics (needle flame) effective duration  30 s	Nominal current I <sub>N</sub>			
Shock protection test specification  Back of the hand protection  guaranteed  Finger protection  guaranteed  Finger protection  guaranteed  Result of surge voltage test  Surge voltage test setpoint  Result of power-frequency withstand voltage test  Power frequency withstand voltage setpoint  Result of power-frequency withstand voltage test  Result of power-frequency withstand voltage setpoint  Result of the test for mechanical stability of terminal points (5 x conductor connection)  Result of the test for mechanical stability of terminal points (5 x conductor connection)  Result of bending test  Bending test rotation speed  10 rpm  Bending test rotation speed  10 rpm  Bending test conductor cross section/weight  135  Bending test conductor cross section/weight  14 mm² / 0.9 kg  15 mm² / 1.4 kg  Tensile test result  Test passed  Conductor cross section tensile test  15 mm²  Conductor cross section tensile test  2.5 mm²  Tractive force setpoint  Conductor cross section tensile test  2.5 mm²  Tractive force setpoint  Conductor cross section tensile test  Result of vight fit on support  Tractive force setpoint  Result of vight fit on support  Tractive force setpoint  Result of vight fit on support  Tractive force setpoint  NS 35  Setpoint  1 N  Result of vight fit on support  Test passed  Requirements, voltage-drop test  Result of voltage-drop test  Result of temperature-ise test  Test passed  Short circuit stability result  Test passed  Short-time current  0.3 kA  Result of sign test  Ageing test for screwless modular terminal block temperature cycles  Froof of thermal characteristics (needle filame) effective duration  30 s	Nominal voltage U <sub>N</sub>			
Back of the hand protection  Finger protection  Result of surge voltage test  Result of surge voltage test setpoint  Result of power-frequency withstand voltage test  Test passed  Power frequency withstand voltage setpoint  Result of the test for mechanical stability of terminal points (5 x conductor connection)  Result of bending test  Bending test totation speed  Bending test totation speed  Bending test conductor cross section/weight  Bending test conductor cross section/weight  Bending test conductor cross section fensile test  Conductor cross section tensile test  Tractive force setpoint  Conductor cross section tensile test  Tractive force setpoint  Bo N  Result of tight fit on support  Tractive force setpoint  Tractive force setpoint  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  Conductor cross section tensile test  Test passed  Test passed  Tactive force setpoint  Bo N  Result of tight fit on support  Test passed  Test p	Open side panel			
Back of the hand protection  Finger protection  Result of surge voltage test  Result of surge voltage test setpoint  Result of power-frequency withstand voltage test  Test passed  Power frequency withstand voltage setpoint  Result of the test for mechanical stability of terminal points (5 x conductor connection)  Result of bending test  Bending test totation speed  Bending test totation speed  Bending test conductor cross section/weight  Bending test conductor cross section/weight  Bending test conductor cross section fensile test  Conductor cross section tensile test  Tractive force setpoint  Conductor cross section tensile test  Tractive force setpoint  Bo N  Result of tight fit on support  Tractive force setpoint  Tractive force setpoint  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  Conductor cross section tensile test  Test passed  Test passed  Tactive force setpoint  Bo N  Result of tight fit on support  Test passed  Test p	Shock protection test specification			
Result of surge voltage test  Surge voltage test setpoint  Result of power-frequency withstand voltage test  Power frequency withstand voltage setpoint  Result of the test for mechanical stability of terminal points (5 x conductor connection)  Result of the test for mechanical stability of terminal points (5 x conductor connection)  Result of bending test  Result of bending test  Result of bending test  Bending test rotation speed  10 rpm  Bending test rotation speed  10 rpm  Bending test conductor cross section/weight  0.08 mm² / 0.1 kg  4 mm² / 0.9 kg  8 mm² / 1.4 kg  Tensile test result  Test passed  Conductor cross section tensile test  0.08 mm³  Tractive force setpoint  5 N  Conductor cross section tensile test  0.08 mm³  Tractive force setpoint  60 N  Conductor cross section tensile test  6 mm²  Tractive force setpoint  80 N  Result of tight fit on support  Test passed  Setpoint  1 N  Result of voltage-drop test  Requirements, voltage drop  Short circuit stability result  Test passed  Conductor cross section short circuit testing  2.5 mm²  Fest passed  Conductor cross section short circuit testing  2.5 mr²  Test passed		guaranteed		
Surge voltage test setpoint Result of power-frequency withstand voltage setst Power frequency withstand voltage setpoint Result of the test for mechanical stability of terminal points (5 x conductor connection) Result of the test for mechanical stability of terminal points (5 x conductor connection) Result of bending test Bending test rotation speed Bending test trotation speed Bending test trotation speed Bending test conductor cross section/weight  0.08 mm² / 0.1 kg  4 mm² / 0.9 kg  6 mm² / 1.4 kg  Tensile test result Test passed Conductor cross section tensile test Test passed  Conductor cross section tensile test  0.08 mm² Tractive force setpoint 5 N  Conductor cross section tensile test 2.5 mm² Tractive force setpoint 60 N  Conductor cross section tensile test 6 mm² Tractive force setpoint 7 ractive force setpoint 80 N  Result of tight fit on support Test passed Tight fit on carrier NS 35  Setpoint 1 N  Result of voltage-drop test Requirements, voltage drop 4 6,4 mV  Result of temperature-rise test Test passed Conductor cross section short circuit testing 2.5 mm² Short-iricuit stability result Test passed Conductor cross section short circuit testing 2.5 mm² Test passed Conductor cross section short circuit testing 3.0 s K  Result of temperature-rise test Test passed Conductor cross section short circuit testing 10 3 kA  Result of temperature-rise test Test passed Conductor cross section short circuit testing 10 3 kA  Result of thermal characteristics (needle flame) effective duration 30 s	Finger protection	guaranteed		
Result of power-frequency withstand voltage test Power frequency withstand voltage setpoint Result of the test for mechanical stability of terminal points (5 x conductor connection) Result of bending test totation speed Result of bending test turns Result of bending test turns Result of set	Result of surge voltage test	Test passed		
Power frequency withstand voltage setpoint Result of the test for mechanical stability of terminal points (5 x conductor connection) Result of the test for mechanical stability of terminal points (5 x conductor connection) Result of bending test Bending test rotation speed Bending test rotation speed Bending test turns Bending test conductor cross section/weight  0.08 mm² / 0.1 kg  4 mm² / 0.9 kg  6 mm² / 1.4 kg  Tensile test result Test passed  Conductor cross section tensile test 0.08 mm²  Tractive force setpoint 5 N  Conductor cross section tensile test 2.5 mm²  Tractive force setpoint 60 N  Conductor cross section tensile test 6 mm²  Tractive force setpoint 80 N  Result of tight fit on support Test passed Tight fit on carrier NS 35  Setpoint 1 N  Result of voltage-drop test Requirements, voltage drop 4.6.4 mV  Result of temperature-rise test Test passed Short circuit stability result Test passed Conductor cross section short circuit testing 1.5 mm²  Test passed Short circuit stability result Test passed Test passed Short circuit stability result Test passed Test passed Froof of thermal characteristics (needle flame) effective duration 30 s	Surge voltage test setpoint	7.3 kV		
Result of the test for mechanical stability of terminal points (5 x conductor connection)  Result of bending test  Bending test rotation speed  Bending test turns  Bending test turns  Bending test conductor cross section/weight  135  Bending test conductor cross section/weight  0.08 mm² / 0.1 kg  4 mm² / 0.9 kg  6 mm² / 1.4 kg  Tensile test result  Conductor cross section tensile test  0.08 mm²  Tractive force setpoint  5 N  Conductor cross section tensile test  2.5 mm²  Tractive force setpoint  60 N  Conductor cross section tensile test  7 mending for section tensile test  80 N  Result of tight fit on support  Test passed  Tight fit on carrier  NS 35  Setpoint  1 N  Result of voltage-drop test  Test passed  Short circuit stability result  Test passed  Conductor cross section short circuit testing  2.5 mm²  Test passed  Short circuit stability result  Test passed  Conductor cross section short circuit testing  2.5 mm²  Test passed  Short circuit stability result  Test passed  Ageing test for screwless modular terminal block temperature cycles  192  Result of thermal characteristics (needle flame) effective duration  30 s	Result of power-frequency withstand voltage test	Test passed		
Result of bending test  Result of bending test Test passed  Bending test rotation speed  Bending test turns  Bending test conductor cross section/weight  135  Bending test conductor cross section/weight  0.08 mm² / 0.1 kg  4 mm² / 0.9 kg  6 mm² / 1.4 kg  Tensile test result  Test passed  Conductor cross section tensile test  0.08 mm²  Tractive force setpoint  5 N  Conductor cross section tensile test  2.5 mm²  Tractive force setpoint  80 N  Result of tight fit on support  Test passed  Tight fit on carrier  NS 35  Setpoint  1 N  Result of voltage-drop test  Requirements, voltage drop  4.6 4 mV  Result of temperature-rise test  Test passed  Short circuit stability result  Test passed  Test passed  Short irrecuit stability result  Test passed  Ageing test for screwless modular terminal block temperature cycles  192  Result of thermal test  Test passed  Test passed  Froof of thermal test Test passed  Test passed  Test passed	Power frequency withstand voltage setpoint	1.89 kV		
Bending test rotation speed Bending test turns Bending test turns Bending test conductor cross section/weight  0.08 mm² / 0.1 kg  4 mm² / 0.9 kg 6 mm² / 1.4 kg  Test passed Conductor cross section tensile test 0.08 mm² Tractive force setpoint  5 N  Conductor cross section tensile test 2.5 mm² Tractive force setpoint 60 N  Conductor cross section tensile test 6 mm² Tractive force setpoint 80 N  Result of tight fit on support Test passed Tight fit on carrier NS 35 Setpoint 1 N  Result of voltage-drop test Requirements, voltage drop 4 6,4 mV  Result of temperature-rise test Test passed Short circuit stability result Test passed Conductor cross section short circuit testing 2.5 mm² Test passed		Test passed		
Bending test turns  Bending test conductor cross section/weight  0.08 mm² / 0.1 kg  4 mm² / 0.9 kg  6 mm² / 1.4 kg  Tensile test result  Test passed  Conductor cross section tensile test  0.08 mm²  Tractive force setpoint  5 N  Conductor cross section tensile test  2.5 mm²  Tractive force setpoint  60 N  Conductor cross section tensile test  7 tractive force setpoint  80 N  Result of tight fit on support  Test passed  Tight fit on carrier  NS 35  Setpoint  1 N  Result of voltage-drop test  Requirements, voltage drop  4.4 mV  Result of temperature-rise test  Test passed  Short circuit stability result  Conductor cross section tensile test  Test passed  Short circuit stability result  Test passed  Test passed  Ageing test for screwless modular terminal block temperature cycles  Result of thermal test  Test passed  Test passed  Test passed	Result of bending test	Test passed		
Bending test conductor cross section/weight    4 mm² / 0.9 kg	Bending test rotation speed	10 rpm		
4 mm² / 0.9 kg 6 mm² / 1.4 kg  Tensile test result Test passed  Conductor cross section tensile test 0.08 mm²  Tractive force setpoint 5 N  Conductor cross section tensile test 2.5 mm²  Tractive force setpoint 60 N  Conductor cross section tensile test 6 mm²  Tractive force setpoint 80 N  Result of tight fit on support Test passed Tight fit on carrier NS 35  Setpoint 1 N  Result of voltage-drop test Requirements, voltage drop 4 6,4 mV  Result of temperature-rise test Test passed Short circuit stability result Conductor cross section short circuit testing 2.5 mm²  Short-time current 0.3 kA  Result of aging test Test passed Ageing test for screwless modular terminal block temperature cycles 1 Test passed Result of thermal test Test passed Test passed	Bending test turns	135		
Tensile test result Test passed  Conductor cross section tensile test 0.08 mm²  Tractive force setpoint 5 N  Conductor cross section tensile test 2.5 mm²  Tractive force setpoint 60 N  Conductor cross section tensile test 6 mm²  Tractive force setpoint 80 N  Result of tight fit on support Test passed Tight fit on carrier NS 35  Setpoint 1 N  Result of voltage-drop test Requirements, voltage drop 4 6,4 mV  Result of temperature-rise test Short circuit stability result Test passed Conductor cross section short circuit testing 2.5 mm²  Short-time current 0.3 kA  Result of aging test Reguler for screwless modular terminal block temperature cycles Proof of thermal test Test passed Test passed	Bending test conductor cross section/weight	0.08 mm² / 0.1 kg		
Tensile test result Conductor cross section tensile test 0.08 mm²  Tractive force setpoint 5 N  Conductor cross section tensile test 2.5 mm²  Tractive force setpoint 60 N  Conductor cross section tensile test 6 mm²  Tractive force setpoint 80 N  Result of tight fit on support Test passed Tight fit on carrier NS 35  Setpoint 1 N  Result of voltage-drop test Test passed  Requirements, voltage drop ≤ 6.4 mV  Result of temperature-rise test Test passed  Short circuit stability result Test passed Conductor cross section short circuit testing 2.5 mm²  Short-time current 0.3 kA  Result of aging test Test passed  Requirement test Test passed		4 mm² / 0.9 kg		
Conductor cross section tensile test 0.08 mm²  Tractive force setpoint 5 N  Conductor cross section tensile test 2.5 mm²  Tractive force setpoint 60 N  Conductor cross section tensile test 6 mm²  Tractive force setpoint 80 N  Result of tight fit on support Test passed  Tight fit on carrier NS 35  Setpoint 1 N  Result of voltage-drop test Test passed  Requirements, voltage drop ≤ 6.4 mV  Result of temperature-rise test Test passed  Short circuit stability result Test passed  Conductor cross section short circuit testing 2.5 mm²  Short-time current 0.3 kA  Result of aging test Test passed  Ageing test for screwless modular terminal block temperature cycles 192  Result of thermal characteristics (needle flame) effective duration 30 s		6 mm <sup>2</sup> / 1.4 kg		
Tractive force setpoint 5 N  Conductor cross section tensile test 2.5 mm²  Tractive force setpoint 60 N  Conductor cross section tensile test 6 mm²  Tractive force setpoint 80 N  Result of tight fit on support Test passed  Tight fit on carrier NS 35  Setpoint 1 N  Result of voltage-drop test Test passed  Requirements, voltage drop ≤ 6.4 mV  Result of temperature-rise test Test passed  Short circuit stability result Test passed  Conductor cross section short circuit testing 2.5 mm²  Short-time current 0.3 kA  Result of aging test Test passed  Ageing test for screwless modular terminal block temperature cycles 192  Result of thermal characteristics (needle flame) effective duration 30 s	Tensile test result	Test passed		
Conductor cross section tensile test  Conductor cross section tensile test  Conductor cross section tensile test  6 mm²  Tractive force setpoint  80 N  Result of tight fit on support  Test passed  Tight fit on carrier  NS 35  Setpoint  1 N  Result of voltage-drop test  Requirements, voltage drop  Est passed  Short circuit stability result  Conductor cross section short circuit testing  Short-time current  0.3 kA  Result of aging test  Ageing test for screwless modular terminal block temperature cycles  Proof of thermal characteristics (needle flame) effective duration  30 s	Conductor cross section tensile test	0.08 mm²		
Tractive force setpoint  Conductor cross section tensile test  6 mm²  Tractive force setpoint  80 N  Result of tight fit on support  Test passed  Tight fit on carrier  NS 35  Setpoint  1 N  Result of voltage-drop test  Test passed  Requirements, voltage drop  ≤ 6,4 mV  Result of temperature-rise test  Test passed  Short circuit stability result  Conductor cross section short circuit testing  Short-time current  0.3 kA  Result of aging test  Ageing test for screwless modular terminal block temperature cycles  Proof of thermal test  Test passed  Test passed  Test passed	Tractive force setpoint	5 N		
Conductor cross section tensile test 6 mm²  Tractive force setpoint 80 N  Result of tight fit on support Test passed  Tight fit on carrier NS 35  Setpoint 1 N  Result of voltage-drop test Test passed  Requirements, voltage drop ≤ 6,4 mV  Result of temperature-rise test Test passed  Short circuit stability result Test passed  Conductor cross section short circuit testing 2.5 mm²  Short-time current 0.3 kA  Result of aging test Test passed  Ageing test for screwless modular terminal block temperature cycles 192  Result of thermal test Test passed  Proof of thermal characteristics (needle flame) effective duration 30 s	Conductor cross section tensile test	2.5 mm²		
Tractive force setpoint  Result of tight fit on support  Test passed  Tight fit on carrier  NS 35  Setpoint  1 N  Result of voltage-drop test  Requirements, voltage drop  Setup of temperature-rise test  Test passed  Test passed  Test passed  Test passed  Test passed  Test passed  Short circuit stability result  Test passed  Conductor cross section short circuit testing  2.5 mm²  Short-time current  0.3 kA  Result of aging test  Test passed  Ageing test for screwless modular terminal block temperature cycles  Proof of thermal characteristics (needle flame) effective duration  30 s	Tractive force setpoint	60 N		
Result of tight fit on support  Test passed  Tight fit on carrier  NS 35  Setpoint  1 N  Result of voltage-drop test  Requirements, voltage drop  \$\leq 6,4\text{ mV}\$  Result of temperature-rise test  Test passed  Short circuit stability result  Test passed  Conductor cross section short circuit testing  \$\leq 2.5\text{ mm}^2\$  Short-time current  \$\leq 0.3\text{ kA}\$  Result of aging test  Test passed  Ageing test for screwless modular terminal block temperature cycles  \$\leq 92\$  Result of thermal test  Test passed  Proof of thermal characteristics (needle flame) effective duration  \$\leq 0.3\text{ s}  Test passed  \$\leq 0.3\text{ s}  \$\	Conductor cross section tensile test	6 mm²		
Tight fit on carrier  NS 35  Setpoint  1 N  Result of voltage-drop test  Test passed  Requirements, voltage drop  Result of temperature-rise test  Test passed  Short circuit stability result  Conductor cross section short circuit testing  Short-time current  0.3 kA  Result of aging test  Test passed  Ageing test for screwless modular terminal block temperature cycles  Result of thermal test  Proof of thermal characteristics (needle flame) effective duration  NS 35  NS 35  NS 35  Test passed  Test passed  1 N  NS 35  Test passed  Test passed  Test passed  Test passed  Test passed  Proof of thermal characteristics (needle flame) effective duration  30 s	Tractive force setpoint	80 N		
Setpoint       1 N         Result of voltage-drop test       Test passed         Requirements, voltage drop       ≤ 6,4 mV         Result of temperature-rise test       Test passed         Short circuit stability result       Test passed         Conductor cross section short circuit testing       2.5 mm²         Short-time current       0.3 kA         Result of aging test       Test passed         Ageing test for screwless modular terminal block temperature cycles       192         Result of thermal test       Test passed         Proof of thermal characteristics (needle flame) effective duration       30 s	Result of tight fit on support	Test passed		
Result of voltage-drop test       Test passed         Requirements, voltage drop       ≤ 6,4 mV         Result of temperature-rise test       Test passed         Short circuit stability result       Test passed         Conductor cross section short circuit testing       2.5 mm²         Short-time current       0.3 kA         Result of aging test       Test passed         Ageing test for screwless modular terminal block temperature cycles       192         Result of thermal test       Test passed         Proof of thermal characteristics (needle flame) effective duration       30 s	Tight fit on carrier	NS 35		
Requirements, voltage drop       ≤ 6,4 mV         Result of temperature-rise test       Test passed         Short circuit stability result       Test passed         Conductor cross section short circuit testing       2.5 mm²         Short-time current       0.3 kA         Result of aging test       Test passed         Ageing test for screwless modular terminal block temperature cycles       192         Result of thermal test       Test passed         Proof of thermal characteristics (needle flame) effective duration       30 s	Setpoint	1 N		
Result of temperature-rise test  Test passed  Short circuit stability result  Test passed  Conductor cross section short circuit testing  2.5 mm²  Short-time current  0.3 kA  Result of aging test  Test passed  Ageing test for screwless modular terminal block temperature cycles  Result of thermal test  Test passed  Proof of thermal characteristics (needle flame) effective duration  Test passed  30 s	Result of voltage-drop test	Test passed		
Short circuit stability result  Conductor cross section short circuit testing  2.5 mm²  Short-time current  0.3 kA  Result of aging test  Test passed  Ageing test for screwless modular terminal block temperature cycles  Result of thermal test  Test passed  Proof of thermal characteristics (needle flame) effective duration  Test passed  30 s	Requirements, voltage drop	≤ 6,4 mV		
Conductor cross section short circuit testing  2.5 mm²  Short-time current  0.3 kA  Result of aging test  Test passed  Ageing test for screwless modular terminal block temperature cycles  Result of thermal test  Test passed  Proof of thermal characteristics (needle flame) effective duration  30 s	Result of temperature-rise test	Test passed		
Short-time current  0.3 kA  Result of aging test  Ageing test for screwless modular terminal block temperature cycles  Result of thermal test  Test passed  Test passed  Proof of thermal characteristics (needle flame) effective duration  30 s	Short circuit stability result	Test passed		
Result of aging test  Ageing test for screwless modular terminal block temperature cycles  Result of thermal test  Test passed  Test passed  Proof of thermal characteristics (needle flame) effective duration  30 s	Conductor cross section short circuit testing	2.5 mm <sup>2</sup>		
Ageing test for screwless modular terminal block temperature cycles  Result of thermal test  Proof of thermal characteristics (needle flame) effective duration  Test passed  30 s	Short-time current	0.3 kA		
Result of thermal test  Proof of thermal characteristics (needle flame) effective duration  Test passed  30 s	Result of aging test	Test passed		
Proof of thermal characteristics (needle flame) effective duration 30 s	Ageing test for screwless modular terminal block temperature cycles	192		
	Result of thermal test	Test passed		
Oscillation, broadband noise test result  Test passed	Proof of thermal characteristics (needle flame) effective duration	30 s		
	Oscillation, broadband noise test result	Test passed		



## Technical data

## General

Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03	
Test spectrum	Service life test category 2, bogie mounted	
Test frequency	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$	
ASD level	6.12 (m/s <sup>2</sup> ) <sup>2</sup> /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)	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	
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	6.2 mm
Length	61.5 mm
Height NS 35/7,5	62.5 mm
Height NS 35/15	70 mm

## Connection data

Conductor cross section solid min.	0.08 mm²
Conductor cross section solid max.	6 mm²
Conductor cross section flexible min.	0.08 mm²



## Technical data

## Connection data

Conductor cross section flexible max.	4 mm²
Conductor cross section AWG min.	28
Conductor cross section AWG max.	10
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.14 mm²
Conductor cross section flexible, with ferrule without plastic sleeve max.	4 mm²
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.14 mm²
Conductor cross section flexible, with ferrule with plastic sleeve max.	4 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 mm²
Connection method	Spring-cage connection
Stripping length	8 mm 10 mm
Internal cylindrical gage	A4

## Standards and Regulations

Connection in acc. with standard	IEC 60947-7-1
Flammability rating according to UL 94	V0

## **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	27141117
eCl@ss 4.1	27141117
eCl@ss 5.0	27141126
eCl@ss 5.1	27141126
eCl@ss 6.0	27141126
eCl@ss 7.0	27141126
eCl@ss 8.0	27141120
eCl@ss 9.0	27141120

### **ETIM**

ETIM 2.0	EC000902



## Classifications

F-	ГΙ	п	м
_		ш	V

ETIM 3.0	EC000902
ETIM 4.0	EC000902
ETIM 5.0	EC000902
ETIM 6.0	EC000897

### UNSPSC

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

## Approvals

## Approvals

Approvals

GL / RS / EAC / EAC

Ex Approvals

## Approval details

GL GL	http://www.gl-group.com/newbuilding/approvals/index.html	5937008 HH
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RS	http://www.rs-head.spb.ru/en/index.php	11.04057.250
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EAC EAC	EAC-Zulassung
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EAC [FI]	7500651.22.01.00246
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Accessories

Accessories

Bridge

Connection pin - VS - 3004207



Connection pin, Length: 1000 mm, Color: gray

DIN rail

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



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 7.5 mm, width 35 mm, length: 2000 mm

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



DIN rail, material: Steel, unperforated, height 7.5 mm, width 35 mm, length: 2 m  $\,$ 

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



DIN rail 35 mm (NS 35)

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



DIN rail 35 mm (NS 35)



### Accessories

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



DIN rail, unperforated, Width: 35 mm, Height: 7.5 mm, Length: 2000 mm, Color: silver

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



DIN rail, material: Galvanized, perforated, height 7.5 mm, width 35 mm, length: 2 m

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



DIN rail, material: Galvanized, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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



DIN rail, material: Copper, unperforated, height 7.5 mm, width 35 mm, length: 2 m  $\,$ 

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

DIN rail end piece, for DIN rail NS 35/7.5



Documentation



### Accessories

Mounting material - ST-IL - 3039900

Operating decal for the ST terminal block



Jumper

Plug-in bridge - FBS 2-6 - 3030336



Plug-in bridge, Pitch: 6.2 mm, Length: 23 mm, Width: 10.7 mm, Number of positions: 2, Color: red

Plug-in bridge - FBS 3-6 - 3030242



Plug-in bridge, Pitch: 6.2 mm, Length: 23 mm, Width: 16.9 mm, Number of positions: 3, Color: red

Plug-in bridge - FBS 4-6 - 3030255



Plug-in bridge, Pitch: 6.2 mm, Length: 23 mm, Width: 23.1 mm, Number of positions: 4, Color: red

Plug-in bridge - FBS 5-6 - 3030349



Plug-in bridge, Pitch: 6.2 mm, Length: 23 mm, Width: 29.3 mm, Number of positions: 5, Color: red



### Accessories

Plug-in bridge - FBS 10-6 - 3030271



Plug-in bridge, Pitch: 6.2 mm, Length: 23 mm, Width: 60.3 mm, Number of positions: 10, Color: red

Plug-in bridge - FBS 20-6 - 3030365



Plug-in bridge, Pitch: 6.2 mm, Length: 23 mm, Width: 122.3 mm, Number of positions: 20, Color: red

Plug-in bridge - FBS 50-6 - 3032224



Plug-in bridge, Pitch: 6.2 mm, Number of positions: 50, Color: red

Plug-in bridge - FBSR 2-6 - 3033715



Plug-in bridge, Pitch: 6.2 mm, Number of positions: 2, Color: red

Plug-in bridge - FBSR 3-6 - 3001594



Plug-in bridge, Pitch: 6.2 mm, Number of positions: 3, Color: red



### Accessories

Plug-in bridge - FBSR 4-6 - 3001595



Plug-in bridge, Pitch: 6.2 mm, Number of positions: 4, Color: red

Plug-in bridge - FBSR 5-6 - 3001596



Plug-in bridge, Pitch: 6.2 mm, Number of positions: 5, Color: red

Plug-in bridge - FBSR 10-6 - 3033716



Plug-in bridge, Pitch: 6.2 mm, Number of positions: 10, Color: red

### Labeled terminal marker

Zack marker strip - ZB 5 CUS - 0824962



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field: 5.15 x 10.5 mm

Zack marker strip - ZB 5,LGS:FORTL.ZAHLEN - 1050017



Zack marker strip, Strip, white, labeled, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field:  $5.15 \times 10.5 \text{ mm}$ 



### Accessories

Zack marker strip - ZB 5,QR:FORTL.ZAHLEN - 1050020



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed vertically: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field: 5.15 x 10.5 mm

#### Zack marker strip - ZB 5,LGS:GLEICHE ZAHLEN - 1050033



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed horizontally: Identical numbers 1 or 2, etc. up to 100, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field: 5.15 x 10.5 mm

#### Marker for terminal blocks - ZB 5,LGS:L1-N,PE - 1050415



Marker for terminal blocks, Strip, white, labeled, Horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field: 5.15 x 10.5 mm

#### Marker for terminal blocks - UC-TM 5 CUS - 0824581



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field: 10.5 x 4.6 mm

### Marker for terminal blocks - UCT-TM 5 CUS - 0829595



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, Lettering field: 4.6 x 10.5 mm

### Marker pen



### Accessories

Marker pen - X-PEN 0,35 - 0811228



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

### Partition plate

Partition plate - ATP-ST 4 - 3030721



Partition plate, Length: 59.8 mm, Width: 2 mm, Height: 39 mm, Color: gray

### 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 x 3.5 x 100 mm, 2-component grip, with non-slip grip

Screwdriver - ST-BW - 1207608



Actuation tool, for all 2.5 mm<sup>2</sup> - 4.0 mm<sup>2</sup> spring-cages

### Short-circuit connector

Short-circuit connector - FBSRH 2-6 - 3033812



Short-circuit connector, Pitch: 6.2 mm, Number of positions: 2, Color: red

### Terminal marking



### Accessories

Zack marker strip - ZB 5 :UNBEDRUCKT - 1050004



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field: 5.1 x 10.5 mm

Marker for terminal blocks - UC-TM 5 - 0818108



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK CLED, BLUEMARK LED, CMS-P1-PLOTTER, PLOTMARK, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field: 10.5 x 4.6 mm

Marker for terminal blocks - UCT-TM 5 - 0828734



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: THERMOMARK PRIME, THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, TOPMARK LASER, Mounting type: Snap into tall marker groove, for terminal block width: 5.2 mm, Lettering field: 4.6 x 10.5 mm

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