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Knife disconnect terminal block, nom. voltage: 500 V, nominal current: 20 A, connection method: Screw connection, cross section: 0.14 mm² - 6 mm², AWG: 26 - 10, length: 57.8 mm, width: 6.2 mm, color: gray, mounting: NS 35/7,5, NS 35/15

#### Your advantages

▼ Tested for railway applications



COMPLETE See

#### **Key Commercial Data**

Packing unit	50 pc
GTIN	4 017918 975562
GTIN	4017918975562
Weight per Piece (excluding packing)	12.400 g
Custom tariff number	85369010
Country of origin	Germany

#### Technical data

#### General

Number of levels	1
Number of connections	2
Potentials	1
Nominal cross section	4 mm²
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Area of application	Railway industry
	Machine building
	Plant engineering
Rated surge voltage	6 kV



#### Technical data

#### General

Cervoltage category  Ill Insulating material group  Insulating material group  Insulating material group  Insulating material group  Maximum power dissipation for nominal condition  I.02 W  Maximum load current  20 A (with 6 mm² conductor cross section)  Nominal vortage U <sub>i</sub> Dopen side panel  No  Shock protection test specification  IEC 60529-2001-02  Back of the hand protection  Iguaranteed  Result of surge voitage test  Test passed  Result of surge voitage test septoint  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 condu	Degree of pollution	3
Maximum power dissipation for nominal condition  1.02 W  Maximum load current  2.0 A (with 6 mm² conductor cross section)  Nominal current I <sub>II</sub> 2.0 A (with 4 mm² conductor cross section)  Nominal current I <sub>II</sub> Nominal voltage U <sub>IV</sub> 5.00 V  Qpen side panel  No  Shock protection test specification  [EC 60529:2001-02  Back of the hand protection  guaranteed  Finger protection  Result of surge voltage test  Test passed  Surge voltage test setpoint  7.3 kV  Result of surge-voltage test  Power frequency withstand voltage setpoint  1.89 kV  Result of the test for mechanical stability of terminal points (5 x conductor conductor conductor conductors speed)  Bending test rotation speed  Bending test rotation speed  Bending test tonductor cross section/weight  1.35  Bending test conductor cross section/weight  1.4 mm² / 0.9 kg  6 mm² / 1.4 kg  Tensile test result  Conductor cross section tensile test  1.0 N N  C		III
Maximum load current I <sub>k</sub> 20 A (with 6 mm² conductor cross section) Nominal current I <sub>k</sub> 20 A (with 4 mm² conductor cross section) Nominal voltage U <sub>k</sub> 500 V Open side panel No Shock protection test specification IEC 60529:2001-02 Back of the hand protection Guaranteed Guara	Insulating material group	1
Nominal current I <sub>u</sub> Nominal voltage U <sub>y</sub> Son V  Open side panel  No  Shock protection test specification  EC 60529:2001-02  Back of the hand protection  guaranteed  Finger protection  Result of surge voltage test  Test passed  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)  Test passed  Power frequency withstand voltage setpoint  Result of the test for mechanical stability of terminal points (5 x conductor connection)  Test passed  Power frequency withstand voltage setpoint  Result of bending test  Test passed  Test passed  Test passed  Do rpm  Bending test rotation speed  Bending test rotation speed  Bending test turns  135  Bending test conductor cross section/weight  A mm² / 0.2 kg  A mm² / 0.4 kg  Tensile test result  Test passed  Conductor cross section tensile test  O.14 mm²  Tractive force setpoint  Tractive force setpoint  On N  Conductor cross section tensile test  Tractive force setpoint  Result of fight fit on surport  Tractive force setpoint  NS 35  Setpoint  NS 35  Setpoint  NS 35  Setpoint  NS 35  Setpoint  Test passed  Conductor cross section tensile test  Test passed  Conductor cross section tensile test  Test passed	Maximum power dissipation for nominal condition	1.02 W
Nominal voltage U <sub>N</sub> 500 V Open side panel No Shock protection test specification IEC 60529.2001-02 Back of the hand protection guaranteed Finger 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) Result of surge setpoint Test passed Power frequency withstand voltage setpoint 1.99 kV Result of the test for mechanical stability of terminal points (5 x conductor connection) Result of bending test Test passed Pending test totation speed 10 rpm Bending test conductor cross section/weight 0.14 mm² / 0.2 kg  ### Amm² / 0.9 kg ### Amm² / 0.9 kg ### Conductor cross section tensile test Test passed Conductor cross section tensile test 0.14 mm² ### Test passed Conductor cross section tensile test 0.14 mm² ### Tractive force septiont 0.0 N Conductor cross section tensile test 4 mm² ### Tractive force setpoint 60 N Conductor cross section tensile test 6 mm² ### Tractive force setpoint 80 N Result of light fit on support Test passed  ### Result of light fit on support Test passed  ### Result of long the support Test passed  ### Result of lemperature-rise test Test passed  ### Conductor cross section tensile test Test passed  ### Result of temperature-rise test Test passed  ### Conductor cross section forciult testing 2.5 mm²  ### Short-time current 0.3 kA  ### Result of thermal test Test passed	Maximum load current	20 A (with 6 mm² conductor cross section)
Nominal voltage U <sub>N</sub> 500 V  Open side panel No Shock protection test specification IEC 60529.2001-02 Back of the hand protection guaranteed Finger protection guaranteed Finger 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)  Result of the test for mechanical stability of terminal points (5 x described for the stability of terminal points (5 x described for the stability of terminal points (5 x described for the stability of terminal points (5 x described for the stability of terminal points (5 x described for the stability of terminal points (5 x described for the stability of terminal points (5 x described for the stability of terminal points (5 x described for the stability of terminal points (5 x described for the stability of terminal points (5 x described for the stability of terminal points (5 x described for the stability of terminal points (5 x described for the stability of terminal points (5 x described for the stability of terminal points (5 x described for the stability of terminal points (5 x described for the stability of terminal test described for the stab	Nominal current I <sub>N</sub>	20 A (with 4 mm² conductor cross section)
Shock protection test specification  Back of the hand protection  Back of the hand protection  Finger protection  Guaranteed  Fresult of surge voltage test  Surge voltage test setpoint  Result of power-frequency withstand voltage test  Test passed  Power frequency withstand voltage steptoint  1.89 kV  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 conductor cross section/weight  10 rpm  Bending test conductor cross section/weight  0.14 mm² / 0.2 kg  4 mm² / 0.9 kg  6 mm² / 1.4 kg  Test passed  Conductor cross section tensile test  0.14 mm²  Tractive force setpoint  10 N  Conductor cross section tensile test  4 mm²  Tractive force setpoint  10 N  Result of tight fit on support  Tractive force setpoint  80 N  Result of tight fit on support  Test passed  Requirements, voltage drop  5 6,4 mV  Result of temparature-rise test  Test passed  Short-time current  0.3 kA  Result of themal test  Test passed  Festult of themal test  Test passed	Nominal voltage U <sub>N</sub>	500 V
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) Result of the test for mechanical stability of terminal points (5 x conductor connection) 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  Lensile test result Test passed Conductor cross section tensile test 0.14 mm² / 0.9 kg  Lensile test result Test passed Conductor cross section tensile test 0.14 mm² Tractive force setpoint 10 N Conductor cross section tensile test 4 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 5 Setpoint 1 N Result of voltage-drop test Test passed Requirements, voltage drop Lensile test Test passed Short circuit stability result Test passed Short-time current 0.3 kA Result of themal test Test passed	Open side panel	No
Finger protection guaranteed  Result of surge voltage test setpoint 7.3 kV  Result of power-frequency withstand voltage test  Power frequency withstand voltage setpoint 1.89 kV  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 Test passed  Bending test rotation speed 10 rpm  Bending test turns 135  Bending test conductor cross section/weight 0.14 mm² / 0.2 kg  4 mm² / 0.9 kg  6 mm² / 1.4 kg  Tensile test result Test passed  Conductor cross section tensile test 0.14 mm²  Tractive force setpoint 10 N  Conductor cross section tensile test 4 mm²  Tractive force setpoint 60 N  Conductor cross section tensile test 6 mm²  Tractive force setpoint 80 N  Result of tight fit on surport Test passed  Tight fit on carrier NS 35  Setpoint Test passed  Requirements, voltage-drop test Test passed  Short-time current 0.3 kA  Result of themal test  Test passed  Fest passed  Conductor cross section short circuit testing 5.5 mm²  Short-time current 0.3 kA  Result of themal test  Test passed	Shock protection test specification	IEC 60529:2001-02
Result of surge voltage test	Back of the hand protection	guaranteed
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 rotation speed  Bending test trotation speed  Bending test conductor cross section/weight  135  Bending test conductor cross section/weight  0.14 mm² / 0.2 kg  4 mm² / 0.9 kg  6 mm² / 1.4 kg  Tensile test result  Test passed  Conductor cross section tensile test  0.14 mm²  Tractive force setpoint  10 N  Conductor cross section tensile test  4 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  Steppint  1 N  Result of tight fit on support  Test passed  Requirements, voltage-drop test  Result of temperature-rise test  Test passed  Short-time current  0.3 kA  Result of thermal test  Test passed  Conductor cross section short circuit testing  2.5 mm²  Short-time current  0.3 kA  Result of thermal test  Test passed	Finger protection	guaranteed
Result of power-frequency withstand voltage test Power frequency withstand voltage setpoint 1.89 kV Result of the test for mechanical stability of terminal points (5 x conductor connection) Result of bending test Test passed  Bending test rotation speed 10 rpm  Bending test turns 135 Bending test conductor cross section/weight 0.14 rm² / 0.2 kg 4 rm² / 0.9 kg 6 rm² / 1.4 kg  Tensile test result Conductor cross section tensile test 10 N Conductor cross section tensile test 10 N Conductor cross section tensile test 10 N Conductor cross section tensile test 17 ractive force setpoint 60 N Conductor cross section tensile test 6 rm² Tractive force setpoint 80 N Result of fight fit on support Test passed Tight fit on carrier NS 35 Setpoint 1 N Result of voltage-drop test Requirements, voltage drop 4.4 m² Result of temperature-rise test Test passed Conductor cross section short circuit testing 2.5 mr² Short-time current 0.3 kA Result of themmal test Test passed	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 bending test  Bending test tratation speed  Bending test turns  Bending test conductor cross section/weight  135  Bending test conductor cross section/weight  0.14 mm² / 0.2 kg  4 mm² / 0.9 kg  6 mm² / 1.4 kg  Test passed  Conductor cross section tensile test  10 rpm  Tractive force setpoint  Conductor cross section tensile test  Tractive force setpoint  60 N  Conductor cross section tensile test  Tractive force setpoint  80 N  Result of tight fit on support  Test passed  Test passed  Setpoint  1 N  Result of voltage-drop test  Requirements, voltage drop  Result of temperature-rise test  Test passed  Conductor cross section short circuit testing  2.5 mm²  Short-time current  1 Cast passed  Test passed  Test passed  Test passed  Conductor cross section short circuit testing  2.5 mm²  Test passed  Test passed	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 truns  Bending test conductor cross section/weight  135  Bending test conductor cross section/weight  136  Bending test conductor cross section/weight  137  Bending test conductor cross section/weight  138  Bending test conductor cross section/weight  139  Bending test conductor cross section tensile test  14 mm² / 0.9 kg  6 mm² / 1.4 kg  Tensile test result  Test passed  Conductor cross section tensile test  10 N  Conductor cross section tensile test  4 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  Short-time current  0.3 kA  Result of thermal test  Test passed	Result of power-frequency withstand voltage test	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  ### ### ### ### ### ### ### ### ### #	Power frequency withstand voltage setpoint	1.89 kV
Bending test rotation speed  Bending test turns  135  Bending test conductor cross section/weight  0.14 mm² / 0.2 kg  4 mm² / 0.9 kg  6 mm² / 1.4 kg  Tensile test result  Test passed  Conductor cross section tensile test  0.14 mm²  Tractive force setpoint  10 N  Conductor cross section tensile test  4 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  Test passed  Test passed  Test passed  Requirements, voltage drop  4 6.4 mV  Result of temperature-rise test  Test passed  Conductor cross section short circuit testing  Short-time current  0.3 kA  Result of termal test  Test passed		Test passed
Bending test turns  Bending test conductor cross section/weight  0.14 mm² / 0.2 kg  4 mm² / 0.9 kg  6 mm² / 1.4 kg  Tensile test result  Test passed  Conductor cross section tensile test  10.14 mm²  Tractive force setpoint  10 N  Conductor cross section tensile test  4 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  Test passed  Tight fit on carrier  NS 35  Setpoint  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  Short-time current  0.3 kA  Result of thermal test  Test passed	Result of bending test	Test passed
Bending test conductor cross section/weight  4 mm² / 0.9 kg  6 mm² / 1.4 kg  Tensile test result  Conductor cross section tensile test  0.14 mm²  Tractive force setpoint  Conductor cross section tensile test  4 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  \$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 thermal test  Test passed	Bending test rotation speed	10 rpm
4 mm² / 0.9 kg	Bending test turns	135
Tensile test result  Test passed  Conductor cross section tensile test  0.14 mm²  Tractive force setpoint  10 N  Conductor cross section tensile test  4 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  \$\leq 6,4\text{ 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 thermal test  Test passed	Bending test conductor cross section/weight	0.14 mm² / 0.2 kg
Tensile test result  Conductor cross section tensile test  0.14 mm²  Tractive force setpoint  10 N  Conductor cross section tensile test  4 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  ≤ 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 thermal test  Test passed		4 mm² / 0.9 kg
Conductor cross section tensile test  Tractive force setpoint  10 N  Conductor cross section tensile test  4 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  Sesult of temperature-rise test  Test passed  Short circuit stability result  Conductor cross section short circuit testing  Short-time current  0.3 kA  Result of thermal test  Test passed		6 mm <sup>2</sup> / 1.4 kg
Tractive force setpoint  Conductor cross section tensile test  4 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  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 thermal test  Test passed	Tensile test result	Test passed
Conductor cross section tensile test 4 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 thermal test Test passed	Conductor cross section tensile test	0.14 mm <sup>2</sup>
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 thermal test Test passed	Tractive force setpoint	10 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 thermal test       Test passed	Conductor cross section tensile test	4 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  ≤ 6,4 mV  Result of temperature-rise test  Test passed  Short circuit stability result  Conductor cross section short circuit testing  Short-time current  Result of thermal test  Test passed	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       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 thermal test       Test passed	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       ≤ 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 thermal test       Test passed	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 thermal test       Test passed	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 thermal test       Test passed	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 thermal test       Test passed	Setpoint	1 N
Result of temperature-rise test  Short circuit stability result  Conductor cross section short circuit testing  2.5 mm²  Short-time current  0.3 kA  Result of thermal test  Test passed	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 thermal test  Test passed	Requirements, voltage drop	≤ 6,4 mV
Conductor cross section short circuit testing  2.5 mm²  Short-time current  0.3 kA  Result of thermal test  Test passed	Result of temperature-rise test	Test passed
Short-time current 0.3 kA  Result of thermal test Test passed	Short circuit stability result	Test passed
Result of thermal test Test passed	Conductor cross section short circuit testing	2.5 mm <sup>2</sup>
	Short-time current	0.3 kA
Proof of thermal characteristics (needle flame) effective duration 30 s	Result of thermal test	Test passed
	Proof of thermal characteristics (needle flame) effective duration	30 s



#### Technical data

#### General

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	$f_1 = 5 \text{ Hz to } f_2 = 150 \text{ Hz}$
ASD level	1.857 (m/s²)²/Hz
Acceleration	0,8 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	5 g
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
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)	27,5 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
	<u> </u>

#### Dimensions

Width	6.2 mm
Length	57.8 mm
Height NS 35/7,5	49.1 mm
Height NS 35/15	56.6 mm

#### Connection data

Connection method	Screw connection
Screw thread	M3



#### Technical data

#### Connection data

Stripping length	9 mm
Tightening torque, min	0.6 Nm
Tightening torque max	0.8 Nm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section solid min.	0.14 mm²
Conductor cross section solid max.	6 mm²
Conductor cross section AWG min.	26
Conductor cross section AWG max.	10
Conductor cross section flexible min.	0.14 mm²
Conductor cross section flexible max.	6 mm²
Min. AWG conductor cross section, flexible	26
Max. AWG conductor cross section, flexible	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, solid min.	0.14 mm²
2 conductors with same cross section, solid max.	1.5 mm²
2 conductors with same cross section, stranded min.	0.14 mm²
2 conductors with same cross section, stranded max.	1.5 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.	2.5 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.14 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	1.5 mm²
Internal cylindrical gage	A4

#### Standards and Regulations

Connection in acc. with standard	CSA
	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**

	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50



#### Technical data

**Environmental Product Compliance** 

Category "Manufacturer's declaration"		For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"
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### **Drawings**

Circuit diagram

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#### Classifications

#### eCl@ss

eCl@ss 4.0	27141117
eCl@ss 4.1	27141117
eCl@ss 5.0	27141126
eCl@ss 5.1	27141100
eCl@ss 6.0	27141100
eCl@ss 7.0	27141126
eCl@ss 8.0	27141126
eCl@ss 9.0	27141126

#### **ETIM**

ETIM 2.0	EC000902
ETIM 3.0	EC000902
ETIM 4.0	EC000902
ETIM 5.0	EC000902
ETIM 6.0	EC000902
ETIM 7.0	EC000902

#### UNSPSC

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

## Approvals

Approvals

Approvals

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



### Approvals

Ex Approvals

#### Approval details

CSA <b>SP</b>	http://www.csagroup.org/services-industries/product-listing/ 13631	
	В	С
Nominal voltage UN	600 V	600 V
Nominal current IN	16 A	16 A
mm²/AWG/kcmil	26-10	26-10

UL Recognized	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 60425	
	В	С
Nominal voltage UN	600 V	600 V
Nominal current IN	16 A	16 A
mm²/AWG/kcmil	26-10	26-10

cUL Recognized	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 60425	
	В	С
Nominal voltage UN	600 V	600 V
Nominal current IN	16 A	16 A
mm²/AWG/kcmil	26-10	26-10

EAC	RU C- DE.A*30.B.01742
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cULus Recognized

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

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

DIN rail, unperforated - NS 35/15-2,3 UNPERF 2000MM - 1201798



DIN rail, unperforated, Standard profile 2.3 mm, width: 35 mm, height: 15 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

#### End block

End clamp - CLIPFIX 35 - 3022218



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray



#### Accessories

End clamp - CLIPFIX 35-5 - 3022276



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

Insulating sleeve, color: white



Insulating sleeve - MPS-IH RD - 0201676

Insulating sleeve, color: red



Insulating sleeve - MPS-IH BU - 0201689

Insulating sleeve, color: blue





#### Accessories

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



Jumper

Plug-in bridge - FBS 2-6 - 3030336



Plug-in bridge, pitch: 6.2 mm, width: 10.7 mm, number of positions: 2, color: red



#### Accessories

Plug-in bridge - FBS 3-6 - 3030242



Plug-in bridge, pitch: 6.2 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, width: 23.1 mm, number of positions: 4, color: red

Plug-in bridge - FBS 5-6 - 3030349



Plug-in bridge, pitch: 6.2 mm, width: 29.3 mm, number of positions: 5, color: red

Plug-in bridge - FBS 6-6 - 1008238



Plug-in bridge, One side not fully isolated, pitch: 6.2 mm, width: 35.5 mm, number of positions: 6, color: red

Plug-in bridge - FBS 10-6 - 3030271



Plug-in bridge, pitch: 6.2 mm, width: 60.3 mm, number of positions: 10, color: red



#### Accessories

Plug-in bridge - FBS 20-6 - 3030365



Plug-in bridge, pitch: 6.2 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, width: 308.3 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

Plug-in bridge - FBSR 4-6 - 3001595



Plug-in bridge, pitch: 6.2 mm, number of positions: 4, color: red



#### Accessories

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

Plug-in bridge - FBS 2-6 BU - 3036932



Plug-in bridge, pitch: 6.2 mm, width: 10.7 mm, number of positions: 2, color: blue

Plug-in bridge - FBS 3-6 BU - 3036945



Plug-in bridge, pitch: 6.2 mm, width: 16.9 mm, number of positions: 3, color: blue

Plug-in bridge - FBS 4-6 BU - 3036958



Plug-in bridge, pitch: 6.2 mm, width: 23.1 mm, number of positions: 4, color: blue



#### Accessories

Plug-in bridge - FBS 5-6 BU - 3036961



Plug-in bridge, pitch: 6.2 mm, width: 29.3 mm, number of positions: 5, color: blue

Plug-in bridge - FBS 10-6 BU - 3032198



Plug-in bridge, pitch: 6.2 mm, width: 60.3 mm, number of positions: 10, color: blue

Plug-in bridge - FBS 20-6 BU - 3032208



Plug-in bridge, pitch: 6.2 mm, width: 122.3 mm, number of positions: 20, color: blue

Plug-in bridge - FBS 50-6 BU - 3032211



Plug-in bridge, pitch: 6.2 mm, width: 308.3 mm, number of positions: 50, color: blue

#### Labeled terminal marker

Zack marker strip - ZB 6 CUS - 0824992



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm



#### Accessories

Zack marker strip - ZB 6,LGS:FORTL.ZAHLEN - 1051016



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm

#### Zack marker strip - ZB 6,QR:FORTL.ZAHLEN - 1051029



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: 6.2 mm, lettering field size: 6.15 x 10.5 mm

#### Zack marker strip - ZB 6,LGS:GLEICHE ZAHLEN - 1051032



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: 6.2 mm, lettering field size: 6.15 x 10.5 mm

#### Marker for terminal blocks - ZB 6,LGS:L1-N,PE - 1051414



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm

#### Marker for terminal blocks - ZB 6,LGS:U-N - 1051430



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: U, V, W, N, GND, U, V, W, N, GND, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm



#### Accessories

Marker for terminal blocks - UC-TM 6 CUS - 0824589



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: 6.2 mm, lettering field size: 5.6 x 10.5 mm

Marker for terminal blocks - UCT-TM 6 CUS - 0829602



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: 6.2 mm, lettering field size: 5.6 x 10.5 mm

#### Marker pen

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

#### Reducing bridge

Reducing bridge - RB UT 10-(2,5/4) - 3047060



Reducing bridge, pitch: 10.2 mm, length: 29.3 mm, width: 15.1 mm, number of positions: 2, color: red

#### Screwdriver tools

Screwdriver - SZS 0,6X3,5 - 1205053



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

Short-circuit connector



#### Accessories

Short-circuit connector - FBSRH 2-6 - 3033812



Short-circuit connector, pitch: 6.2 mm, number of positions: 2, color: red

#### Switching lock

Switching lock - S-MT - 3247954



Switching lock, length: 10.5 mm, width: 3.5 mm, height: 23.1 mm, color: white

#### Terminal marking

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm

Marker for terminal blocks - UC-TM 6 - 0818085



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm

Marker for terminal blocks - UCT-TM 6 - 0828736



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm

Test plug terminal block



#### Accessories

Test plugs - MPS-MT - 0201744



Test plugs, with solder connection up to 1 mm<sup>2</sup> conductor cross section, color: gray

Test plugs - PS-6 - 3030996



Test plugs, color: red

Test plugs - PS-6/2,3MM RD - 3038736



Test plugs, color: red

#### Test socket

Test adapter - PAI-4-FIX-5/6 BU - 3035975



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

Test adapter - PAI-4-FIX-5/6 OG - 3035974



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



#### Accessories

Test adapter - PAI-4-FIX-5/6 YE - 3035977



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

Test adapter - PAI-4-FIX-5/6 RD - 3035976



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

Test adapter - PAI-4-FIX-5/6 GN - 3035978



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

Test adapter - PAI-4-FIX-5/6 BK - 3035980



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

Test adapter - PAI-4-FIX-5/6 GY - 3035982



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



#### Accessories

Test adapter - PAI-4-FIX-5/6 VT - 3035979



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

Test adapter - PAI-4-FIX-5/6 BN - 3035981



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

Test adapter - PAI-4-FIX-5/6 WH - 3035983



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

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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