High Current Connectors - HV M5/1 - 3049107

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High Current Connectors, Connection method: Bolt connection, Cross section: 0.1 mm² - 16 mm², AWG: 24 - 6, Width: 13 mm, Height: 55.5 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

Why buy this product

- Comprehensive, supplementary accessories
- For connecting up to four conductors

Key commercial data

Packing unit	25 pc
Minimum order quantity	25 pc
GTIN	4 046356 184014
Weight per Piece (excluding packing)	18.28 g
Custom tariff number	85369010
Country of origin	Germany

Technical data

General

Number of levels	1
Number of connections	1
Color	gray
Insulating material	PA
Inflammability class according to UL 94	V0
Rated surge voltage	8 kV
Pollution degree	3
Surge voltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1
Current	76 A
Nominal current I_N	76 A

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Technical data

General

Nominal voltage U_N	1000 V
Open side panel	nein
Surge voltage test setpoint	9.8 kV
Result of surge voltage test	Test passed
Power frequency withstand voltage setpoint	2.2 kV
Result of power-frequency withstand voltage test	Test passed
Checking the mechanical stability of terminal points (5 x conductor connection)	Test passed
Tight fit on carrier	NS 35
Setpoint	5 N
Result of tight fit test	Test passed
Result of voltage drop test	Test passed
Temperature-rise test	Test passed
Conductor cross section short circuit testing	16 mm²
Short-time current	1.92 kA
Short circuit stability result	Test passed
Proof of thermal characteristics (needle flame) effective duration	10 s
Result of thermal test	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 Hz to f_2 = 150 Hz
ASD level	0.02 g²/Hz
Acceleration	0.8g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Oscillation, broadband noise 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.)
Shock test result	Test passed
Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21))	120 °C

Dimensions

Length	67 mm
Width	13 mm
Height	55.5 mm
Height NS 35/7,5	58 mm
Height NS 35/15	65.5 mm

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Technical data

Connection data

Conductor cross section solid min.	0.1 mm²
Conductor cross section solid max.	16 mm²
Conductor cross section stranded min.	0.1 mm²
Conductor cross section stranded max.	16 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	6
Screw thread	M5
Tightening torque, min	2 Nm
Tightening torque max	4 Nm
Connection method	Bolt connection
Connection in acc. with standard	DIN 46 234
Min. cross section	0.1 mm²
Max. cross section	16 mm²
Bolt diameter	5 mm
Tightening torque, min	2 Nm
Tightening torque max	4 Nm
Connection in acc. with standard	DIN 46,235
Min. cross section	6 mm²
Max. cross section	10 mm²
Bolt diameter	5 mm
Tightening torque, min	2 Nm
Tightening torque max	4 Nm

Classifications

eCl@ss

eCl@ss 4.0	27141120
eCl@ss 4.1	27141120
eCl@ss 5.0	27141120
eCl@ss 5.1	27141120
eCl@ss 6.0	27141120
eCl@ss 7.0	27141120

ETIM

ETIM 2.0	EC000897
ETIM 3.0	EC000897
ETIM 4.0	EC000897
ETIM 5.0	EC000897

UNSPSC

UNSPSC 6.01	30211811

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Classifications

UNSPSC

UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410

Approvals

Approvals

Approvals

CSA / CSAus / EAC / cCSAus

Ex Approvals

Approvals submitted

Approval details

CSA

mm²/AWG/kcmil	8
Nominal current IN	60 A
Nominal voltage UN	1000 V

CSAus

mm²/AWG/kcmil	8
Nominal current IN	60 A
Nominal voltage UN	1000 V

EAC

cCSAus

Accessories

Accessories

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Accessories

Bridge

Connection element - HV M5/1-VS 2 - 3049437

Connection element, Number of positions: 2, Color: silver

Connection element - HV M5/1-VS 3 - 3049440

Connection element, Number of positions: 3, Color: silver

Mounting 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

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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

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

DIN rail 35 mm (NS 35)

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Accessories

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

DIN rail 35 mm (NS 35)

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

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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

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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

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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

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Accessories

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

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

Partition plate

Separating plate - HV M12/1-TP - 3049602

Separating plate, Length: 50 mm, Width: 1.5 mm, Color: gray

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