

High Current Connectors - HV M6/2 - 3049547

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High Current Connectors, Connection method: Bolt connection, Cross section: 2.5 mm² - 35 mm², AWG: 14 - 2, Width: 16 mm, Height: 55.5 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

Product Features

- ✓ Two different partition plates can be used for the range of single and double-bolt terminal blocks
- ✓ Comprehensive range of accessories for safe and user-friendly wiring of conductors up to 120 mm²
- ✓ 2 and 3-pos. connection rails can be used for potential distribution
- ✓ Spring washers are used to prevent hexagonal nuts from loosening
- ✓ Secure connection of up to 4 conductors with cable lugs according to DIN 46234, 46235, and 46237 in a small amount of space
- ✓ The feed-through window provided in the partition plates can be easily removed for mounting the connection rails

Key commercial data

package_quantity	25
GTIN	4046356310291

Technical data

General

Number of levels	1
Number of connections	2
Color	gray
Insulating material	PA
Inflammability class according to UL 94	V0

General

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
Nominal current I _N	125 A
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

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Technical data

General

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	10 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	35 mm ²
Short-time current	4.2 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 g ² /Hz
Acceleration	0.8 g
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	16 mm
Height	55.5 mm
Height NS 35/7,5	58 mm
Height NS 35/15	65.5 mm

Connection data

Conductor cross section solid min.	2.5 mm ²
Conductor cross section solid max.	35 mm ²
Conductor cross section stranded min.	2.5 mm ²

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Technical data

Connection data

Conductor cross section stranded max.	35 mm ²
Conductor cross section AWG/kcmil min.	14
Conductor cross section AWG/kcmil max	2
Screw thread	M6
Tightening torque, min	3 Nm
Tightening torque max	6 Nm
Connection method	Bolt connection
Connection in acc. with standard	DIN 46 234
Min. cross section	2.5 mm ²
Max. cross section	35 mm ²
Bolt diameter	6 mm
Tightening torque, min	3 Nm
Tightening torque max	6 Nm
Connection in acc. with standard	DIN 46,235
Min. cross section	6 mm ²
Max. cross section	35 mm ²
Bolt diameter	6 mm
Tightening torque, min	3 Nm
Tightening torque max	6 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
eCl@ss 8.0	27141120

ETIM

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

UNSPSC

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

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approvals

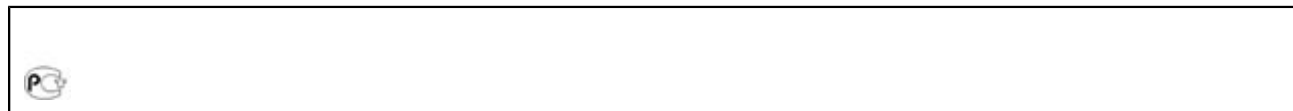
GOST / CSA / CSAus / GOST / cCSAus /

Approval details



CSA 	
Nominal voltage UN	1000 V
Nominal current IN	120 A
mm²/AWG/kcmil	4

CSAus	
Nominal voltage UN	1000 V
Nominal current IN	120 A
mm²/AWG/kcmil	4



cCSAus

accessories

Bridge

HV M6/1-VS 2 - 3049262



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accessories

HV M6/1-VS 3 - 3049275



Mounting rail

NS 35/ 7,5 PERF 2000MM - 0801733



NS 35/ 7,5 UNPERF 2000MM - 0801681



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



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



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accessories

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



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



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



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



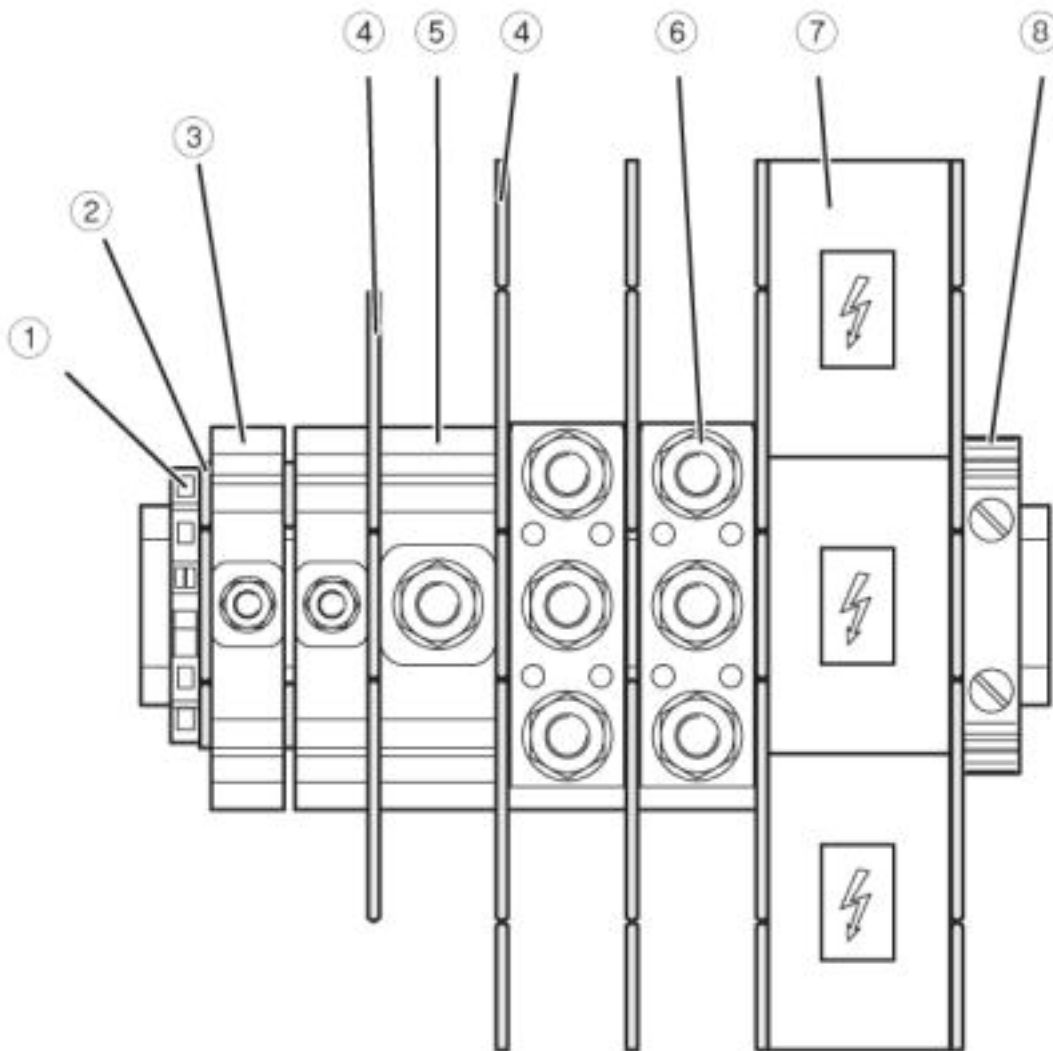
NS 35/ 7,5 CAP - 1206560



Drawings

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Application drawing



Circuit diagram

