

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

Packing unit	1 pc
Minimum order quantity	25 pc
Weight per Piece (excluding packing)	67.94 g
Custom tariff number	85369010
Country of origin	Germany

Technical data

General

Number of levels	1
Number of connections	2
Nominal cross section	35 mm ²
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	8 kV

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Technical data

General

Degree of pollution	3
Overvoltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1
Nominal current I_N	125 A
Maximum load current	125 A
Nominal voltage U_N	1000 V
Open side panel	No
Result of surge voltage test	Test passed
Surge voltage test setpoint	9.8 kV
Result of power-frequency withstand voltage test	Test passed
Power frequency withstand voltage setpoint	2.2 kV
Result of the test for mechanical stability of terminal points (5 x conductor connection)	Test passed
Result of tight fit on support	Test passed
Tight fit on carrier	NS 35
Setpoint	10 N
Result of voltage-drop test	Test passed
Result of temperature-rise test	Test passed
Short circuit stability result	Test passed
Conductor cross section short circuit testing	35 mm ²
Short-time current	4.2 kA
Result of thermal test	Test passed
Proof of thermal characteristics (needle flame) effective duration	10 s
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	0.02 g ² /Hz
Acceleration	0.8g
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

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Technical data

General

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))	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
Bolt length	16.00 mm

Connection data

Conductor cross section solid min.	2.5 mm ²
Conductor cross section solid max.	35 mm ²
Conductor cross section flexible min.	2.5 mm ²
Conductor cross section flexible max.	35 mm ²
Conductor cross section AWG min.	14
Conductor cross section AWG 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

Standards and Regulations

Connection in acc. with standard	CSA
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Technical data

Standards and Regulations

	IEC 60947-7-1
	DIN 46 234
	DIN 46,235
Flammability rating according to UL 94	V0

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
eCl@ss 9.0	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

Approvals

Approvals

Approvals

CSA / CSAus / EAC / EAC / cCSAus


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Approvals

Ex Approvals

Approvals submitted

Approval details

CSA 	
mm ² /AWG/kcmil	4
Nominal current I _N	120 A
Nominal voltage U _N	1000 V

CSAus	
mm ² /AWG/kcmil	4
Nominal current I _N	120 A
Nominal voltage U _N	1000 V

EAC

EAC

cCSAus

Drawings

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Circuit diagram



Application drawing

