High Current Connectors - HV M10/2 - 3049563

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High Current Connectors, Connection method: Bolt connection, Cross section: 6 mm² - 120 mm², AWG: 10 - 250 kcmil, Width: 32 mm, Height: 73.5 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	10
GTIN	4046356310314

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	269 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	15 N
Result of tight fit test	Test passed
Requirements, voltage drop	≤ 3.2 mV
Result of voltage drop test	Test passed
Temperature-rise test	Test passed
Conductor cross section short circuit testing	120 mm²
Short-time current	14.4 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	0.8 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	32 mm
Height	73.5 mm
Height NS 35/7,5	76 mm
Height NS 35/15	83.5 mm

Connection data

Conductor cross section solid min.	6 mm²
Conductor cross section solid max.	120 mm²

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Technical data

Connection data

Conductor cross section stranded min.	6 mm²
Conductor cross section stranded max.	120 mm²
Conductor cross section AWG/kcmil min.	10
Conductor cross section AWG/kcmil max	250 kcmil
Screw thread	M10
Tightening torque, min	10 Nm
Tightening torque max	20 Nm
Connection method	Bolt connection
Connection in acc. with standard	DIN 46 234
Min. cross section	6 mm²
Max. cross section	120 mm²
Bolt diameter	10 mm
Tightening torque, min	10 Nm
Tightening torque max	20 Nm
Connection in acc. with standard	DIN 46,235
Min. cross section	10 mm²
Max. cross section	95 mm²
Bolt diameter	10 mm
Tightening torque, min	10 Nm
Tightening torque max	20 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

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classifications

UNSPSC

UNSPSC 13.2	39121410

approvals

GOST / CSA / CSAus / GOST / cCSAus /

Approval details

GOST

CSA

Nominal voltage UN	1000 V
Nominal current IN	225 A
mm²/AWG/kcmil	0

CSAus

Nominal voltage UN	1000 V
Nominal current IN	225 A
mm²/AWG/kcmil	0

cCSAus

accessories

Bridge

HV M10/1-VS 2 - 3049466

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accessories

HV M10/1-VS 3 - 3049479

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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Circuit diagram