

High Current Connectors - HV M12/1 - 3049505

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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

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

Key commercial data

package_quantity	10
GTIN	4046356184090

Technical data

General

Number of levels	1
Number of connections	1
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
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

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Technical data

General

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
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	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 mm ²
Conductor cross section solid max.	120 mm ²
Conductor cross section stranded min.	6 mm ²
Conductor cross section stranded max.	120 mm ²
Conductor cross section AWG/kcmil min.	10
Conductor cross section AWG/kcmil max	250 kcmil
Screw thread	M12
Tightening torque, min	14 Nm
Tightening torque max	31 Nm

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Technical data

Connection data

Connection method	Bolt connection
Connection in acc. with standard	DIN 46 234
Min. cross section	6 mm ²
Max. cross section	120 mm ²
Bolt diameter	12 mm
Tightening torque, min	14 Nm
Tightening torque max	31 Nm
Connection in acc. with standard	DIN 46,235
Min. cross section	10 mm ²
Max. cross section	95 mm ²
Bolt diameter	12 mm
Tightening torque, min	14 Nm
Tightening torque max	31 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

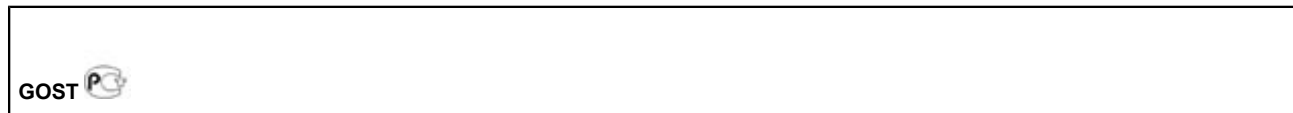
approvals

GOST / CSA / CSAus / GOST / cCSAus /

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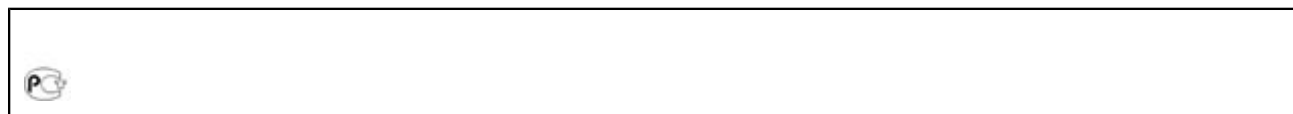
approvals

Approval details



CSA 	
Nominal voltage UN	1000 V
Nominal current IN	220 A
mm²/AWG/kcmil	0

CSAus	
Nominal voltage UN	1000 V
Nominal current IN	220 A
mm²/AWG/kcmil	0



cCSAus

accessories

Bridge

HV M12/1-VS 2 - 3049631



HV M12/1-VS 3 - 3049644



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accessories

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



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



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accessories

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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