


**3049505 HV M12/1**



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Technical data

**General**

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

**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

**Technical data**

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
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, on vehicle body
Test frequency	f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz
ASD level	0.02 g <sup>2</sup> /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

## Connection data

Conductor cross section solid min.	6 mm <sup>2</sup>
Conductor cross section solid max.	120 mm <sup>2</sup>
Conductor cross section stranded min.	6 mm <sup>2</sup>
Conductor cross section stranded max.	120 mm <sup>2</sup>
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
Connection method	Bolt connection
Connection in acc. with standard	DIN 46 234
Min. cross section	6 mm <sup>2</sup>

Max. cross section	120 mm <sup>2</sup>
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 <sup>2</sup>
Max. cross section	95 mm <sup>2</sup>
Bolt diameter	12 mm
Tightening torque, min	14 Nm
Tightening torque max	31 Nm