High Current Connectors - HV M8/2 - 3049550

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://download.phoenixcontact.com)

High Current Connectors, Connection method: Bolt connection, Cross section: 2.5 mm² - 50 mm², AWG: 14 - 1/0, Width: 21 mm, Height: 63.5 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

Product Features

- Comprehensive range of accessories for safe and user-friendly wiring of conductors up to 120 mm²
- Two different partition plates can be used for the range of single and double-bolt terminal blocks
- 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	4046356310307

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	150 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

High Current Connectors - HV M8/2 - 3049550

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
Requirements, voltage drop	≤ 3.2 mV
Result of voltage drop test	Test passed
Temperature-rise test	Test passed
Conductor cross section short circuit testing	50 mm²
Short-time current	6 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	21 mm
Height	63.5 mm
Height NS 35/7,5	66 mm
Height NS 35/15	73.5 mm

Connection data

Conductor cross section solid min.	2.5 mm²
Conductor cross section solid max.	50 mm²

High Current Connectors - HV M8/2 - 3049550

Technical data

Connection data

Conductor cross section stranded min.	2.5 mm²
Conductor cross section stranded max.	50 mm²
Conductor cross section AWG/kcmil min.	14
Conductor cross section AWG/kcmil max	1/0
Screw thread	M8
Tightening torque, min	6 Nm
Tightening torque max	12 Nm
Connection method	Bolt connection
Connection in acc. with standard	DIN 46 234
Min. cross section	2.5 mm²
Max. cross section	50 mm²
Bolt diameter	8 mm
Tightening torque, min	6 Nm
Tightening torque max	12 Nm
Connection in acc. with standard	DIN 46,235
Min. cross section	6 mm²
Max. cross section	35 mm²
Bolt diameter	8 mm
Tightening torque, min	6 Nm
Tightening torque max	12 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

High Current Connectors - HV M8/2 - 3049550

classifications

UNSPSC

UNSPSC 13.2	39121410

approvals

GOST / CSA / CSAus / GOST / cCSAus /

Approval details

GOST

CSA

Nominal voltage UN	1000 V
Nominal current IN	130 A
mm²/AWG/kcmil	3

CSAus

Nominal voltage UN	1000 V
Nominal current IN	130 A
mm²/AWG/kcmil	3

cCSAus

accessories

Bridge

HV M8/1-VS 2 - 3049369

High Current Connectors - HV M8/2 - 3049550

accessories

HV M8/1-VS 3 - 3049372

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

High Current Connectors - HV M8/2 - 3049550

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

High Current Connectors - HV M8/2 - 3049550

Circuit diagram