

High Current Connectors - HV M10/1 - 3049408

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://phoenixcontact.com/download>)



High Current Connectors, Connection method: Bolt connection, Width: 32 mm, Height: 73.5 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

Why buy this product

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

Key Commercial Data

Packing unit	1 STK
Minimum order quantity	10 STK
GTIN	 4 046356 184076
GTIN	4046356184076
Weight per Piece (excluding packing)	92.000 g
Custom tariff number	85369010
Country of origin	Germany

Technical data

General

Number of levels	1
Number of connections	1
Nominal cross section	120 mm ²
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	8 kV

High Current Connectors - HV M10/1 - 3049408

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	269 A
Maximum load current	269 A
Nominal voltage U_N	1000 V
Open side panel	No
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Static insulating material application in cold	-60 °C
Behavior in fire for rail vehicles (DIN 5510-2)	Test passed
Flame test method (DIN EN 60695-11-10)	V0
Oxygen index (DIN EN ISO 4589-2)	>32 %
NF F16-101, NF F10-102 Class I	2
NF F16-101, NF F10-102 Class F	2
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed
Calorimetric heat release NFPA 130 (ASTM E 1354)	27,5 MJ/kg
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3

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
Bolt length	40.5 mm

Connection data

Connection method	Bolt connection
Conductor cross section flexible min.	6 mm ²
Conductor cross section flexible max.	120 mm ²
Cable lug connection according to standard	DIN 46234

High Current Connectors - HV M10/1 - 3049408

Technical data

Connection data

Min. cross section for cable lug connection	6 mm ²
Max. cross section for cable lug connection	120 mm ²
Bolt length	40.5 mm
Bolt diameter	10 mm
Tightening torque, min	10 Nm
Tightening torque max	20 Nm
Cable lug connection according to standard	DIN 46235
Min. cross section for cable lug connection	10 mm ²
Max. cross section for cable lug connection	95 mm ²
Bolt length	40.5 mm
Bolt diameter	10 mm
Tightening torque, min	10 Nm
Tightening torque max	20 Nm
Cable lug connection according to standard	DIN 46237
Max. cross section for cable lug connection	6 mm ²
Bolt length	40.5 mm
Bolt diameter	10 mm
Tightening torque, min	10 Nm
Tightening torque max	20 Nm
Screw thread	M10
Tightening torque, min	10 Nm
Tightening torque max	20 Nm

Standards and Regulations

Connection in acc. with standard	CSA
	IEC 60947-7-1
Flammability rating according to UL 94	V0

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Classifications

eCl@ss

eCl@ss 4.0	27141120
eCl@ss 4.1	27141120
eCl@ss 5.0	27141120

High Current Connectors - HV M10/1 - 3049408

Classifications

eCl@ss

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
ETIM 6.0	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

Ex Approvals


Approval details


CSA		http://www.csagroup.org/services/testing-and-certification/certified-product-listing/	245029
mm ² /AWG/kcmil			00
Nominal current IN			220 A

High Current Connectors - HV M10/1 - 3049408


Approvals

Nominal voltage UN	1000 V
--------------------	--------

CSAus		http://www.csagroup.org/services/testing-and-certification/certified-product-listing/	245029
mm ² /AWG/kcmil	00		
Nominal current IN	220 A		
Nominal voltage UN	1000 V		

EAC		EAC-Zulassung
-----	---	---------------

EAC		7500651.22.01.00246
-----	--	---------------------

cCSAus		http://www.csagroup.org/us/en/services/testing-and-certification/certified-product-listing
--------	---	---

Accessories

Accessories

Bridge

Connection element - HV M10/1 M6/1-STL2 - 3071081



Connection element, Number of positions: 3, Color: silver

High Current Connectors - HV M10/1 - 3049408

Accessories

Connection element - HV M10/1-VS 2 - 3049466



Connection element, Number of positions: 2, Color: silver

Connection element - HV M10/1-VS 3 - 3049479



Connection element, Number of positions: 3, Color: silver

Cover profile

Cover profile - HV M10/1-AP - 3049495

Cover profile, for single-bolt terminal block M10, Length: 156 mm, Width: 32 mm, Height: 6.5 mm, Color: gray



DIN rail

DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 7.5 mm, width 35 mm, length: 2000 mm

DIN rail, unperforated - NS 35/ 7,5 UNPERF 2000MM - 0801681



DIN rail, material: Steel, unperforated, height 7.5 mm, width 35 mm, length: 2 m

High Current Connectors - HV M10/1 - 3049408

Accessories

DIN rail perforated - NS 35/ 7,5 WH PERF 2000MM - 1204119



DIN rail 35 mm (NS 35)

DIN rail - NS 35/ 7,5 WH UNPERF 2000MM - 1204122



DIN rail 35 mm (NS 35)

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



DIN rail, unperforated, Width: 35 mm, Height: 7.5 mm, Length: 2000 mm, Color: silver

DIN rail perforated - NS 35/ 7,5 ZN PERF 2000MM - 1206421



DIN rail, material: Galvanized, perforated, height 7.5 mm, width 35 mm, length: 2 m

DIN rail, unperforated - NS 35/ 7,5 ZN UNPERF 2000MM - 1206434



DIN rail, material: Galvanized, unperforated, height 7.5 mm, width 35 mm, length: 2 m

High Current Connectors - HV M10/1 - 3049408

Accessories

DIN rail, unperforated - NS 35/ 7,5 CU UNPERF 2000MM - 0801762



DIN rail, material: Copper, unperforated, height 7.5 mm, width 35 mm, length: 2 m

End cap - NS 35/ 7,5 CAP - 1206560



DIN rail end piece, for DIN rail NS 35/7.5

End block

End clamp - E/AL-NS 35 - 1201662



End clamp, for end support of UKH 50 to UKH 240, is pushed onto DIN rail NS 35 and fixed with 2 screws, width: 10 mm, color: aluminum

Labeled terminal marker

Warning label - WS-4K - 1004584



Adhesive warning plate, self-adhesive, black print: lightning flash with mixed version - "Vorsicht Spannung - Attention Danger" size of label: 13 x 23.5 mm

Warning label - WS-2K - 1004513



Adhesive warning plate, self-adhesive, black print: lightning flash with mixed version - "Vorsicht Spannung - Attention Danger" size of label: 32 x 26 mm

High Current Connectors - HV M10/1 - 3049408

Accessories

Zack marker strip - ZB 12 CUS - 0824942



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, for terminal block width: 12.2 mm, Lettering field: 10.5 x 12.15 mm

Marker for terminal blocks - ZB 12,LGS:L1-N,PE - 0812146



Marker for terminal blocks, Strip, white, labeled, Printed horizontally: L1, L2, L3, N, PE, Mounting type: Snap into tall marker groove, for terminal block width: 12.2 mm, Lettering field: 10.5 x 12.15 mm

Marker for terminal blocks - UC-TM 12 CUS - 0824613



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, for terminal block width: 12 mm, Lettering field: 11.45 x 10.5 mm

Marker for terminal blocks - UCT-TM 12 CUS - 0829630



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, Mounting type: Snap into tall marker groove, for terminal block width: 12 mm, Lettering field: 10.8 x 9.6 mm

Partition plate

Separating plate - HV M12/2-TP - 3049709



Separating plate, Length: 156 mm, Width: 2 mm, Color: gray

High Current Connectors - HV M10/1 - 3049408

Accessories

Terminal marking

Zack marker strip - ZB 12:UNPRINTED - 0812120



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, Mounting type: Snap into tall marker groove, for terminal block width: 12.2 mm, Lettering field: 12 x 10.5 mm

Marker for terminal blocks - UC-TM 12 - 0819194



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK CLED, BLUEMARK LED, CMS-P1-PLOTTER, PLOTMARK, Mounting type: Snap into tall marker groove, for terminal block width: 12 mm, Lettering field: 11.45 x 10.5 mm

Marker for terminal blocks - UCT-TM 12 - 0829144



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: THERMOMARK PRIME, THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, TOPMARK LASER, Mounting type: Snap into tall marker groove, for terminal block width: 12 mm, Lettering field: 10.8 x 9.6 mm