

High Current Connectors - UHV 50-KH/AS - 2130114

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Universal terminal block with mixed connection, cross section: 25 - 50 mm², AWG: 6 - 1/0, width: 32 mm, color: gray

The figure shows a combination of versions UHV 50-AS/AS, UHV 50-KH/AS and UHV 50-KH/KH

Your advantages

- ✓ The UHV ... high-current connectors are available in several versions
- ✓ The comprehensive range of accessories, such as the connection rail for cross connection, ensures safe and user-friendly wiring of conductors up to 240 mm²
- ✓ Versions are available with a cable lug or direct connection and there is a mixed version of both connection methods

Key Commercial Data

Packing unit	10 pc
GTIN	 4 017918 052898
GTIN	4017918052898

Technical data

General

Number of levels	1
Number of connections	2
Nominal cross section	50 mm ²
Color	gray
Insulating material	PA
Flammability rating according to UL 94	V0
Rated surge voltage	8 kV
Degree of pollution	3
Overvoltage category	III
Insulating material group	II
Maximum power dissipation for nominal condition	4.73 W

High Current Connectors - UHV 50-KH/AS - 2130114

Technical data

General

Ambient temperature (operation)	-60 °C ... 85 °C
Ambient temperature (storage/transport)	-25 °C ... 55 °C (For a short time, not exceeding 24 h, -60 to +70 °C)
Permissible humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Connection in acc. with standard	IEC 60947-7-1
Nominal current I_N	150 A
Maximum load current	150 A (with 50 mm ² conductor cross section)
Nominal voltage U_N	1000 V
Connection in acc. with standard	IEC 60947-7-1
Open side panel	No

Dimensions

Length	104 mm
Width	32 mm
Height NS 35/15	78 mm

Connection data

Connection method	Bolt connection
Note	2-conductor connection only on terminal sleeve side
Cable lug connection according to standard	DIN 46234:1980-03
Min. cross section for cable lug connection	6 mm ²
Max. cross section for cable lug connection	50 mm ²
Hole diameter, min.	10.5 mm
Bolt diameter	10 mm
Screw thread	M10
Tightening torque, min	25 Nm
Tightening torque max	30 Nm
Cable lug connection according to standard	DIN 46235:1983-07
Min. cross section for cable lug connection	16 mm ²
Max. cross section for cable lug connection	50 mm ²
Hole diameter, min.	10.5 mm
Bolt diameter	10 mm
Screw thread	M10
Tightening torque, min	25 Nm
Tightening torque max	30 Nm
Cable lug connection according to standard	DIN 46237:1970-07
Min. cross section for cable lug connection	6 mm ²
Max. cross section for cable lug connection	6 mm ²
Hole diameter, min.	10.5 mm
Bolt diameter	10 mm
Screw thread	M10

High Current Connectors - UHV 50-KH/AS - 2130114

Technical data

Connection data

Tightening torque, min	25 Nm
Tightening torque max	30 Nm
Stripping length	The stripping length depends on the specification provided by the cable lug manufacturer.
Screw thread	M10
Power rail	20 mm x 3 mm
Connection method	Screw connection
Conductor cross section solid min.	16 mm ²
Conductor cross section solid max.	50 mm ²
Conductor cross section flexible min.	25 mm ²
Conductor cross section flexible max.	50 mm ²
Conductor cross section AWG min.	6
Conductor cross section AWG max.	1/0
Conductor cross section flexible, with ferrule without plastic sleeve min.	25 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve max.	50 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve min.	25 mm ²
Conductor cross section flexible, with ferrule with plastic sleeve max.	50 mm ²
2 conductors with same cross section, solid min.	10 mm ²
2 conductors with same cross section, solid max.	16 mm ²
2 conductors with same cross section, stranded min.	10 mm ²
2 conductors with same cross section, stranded max.	16 mm ²
Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, minimum	10 mm ²
Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, maximum	16 mm ²
Stripping length	26 mm
Screw thread	M6
Tightening torque, min	6 Nm
Tightening torque max	8 Nm

Standards and Regulations

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

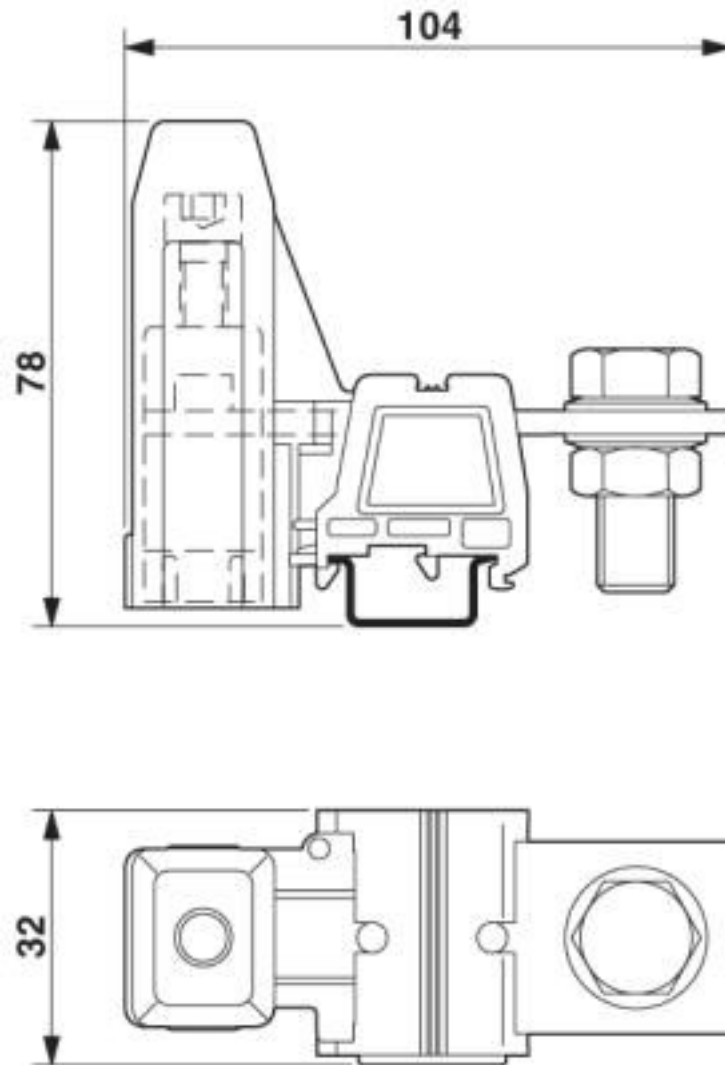
Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

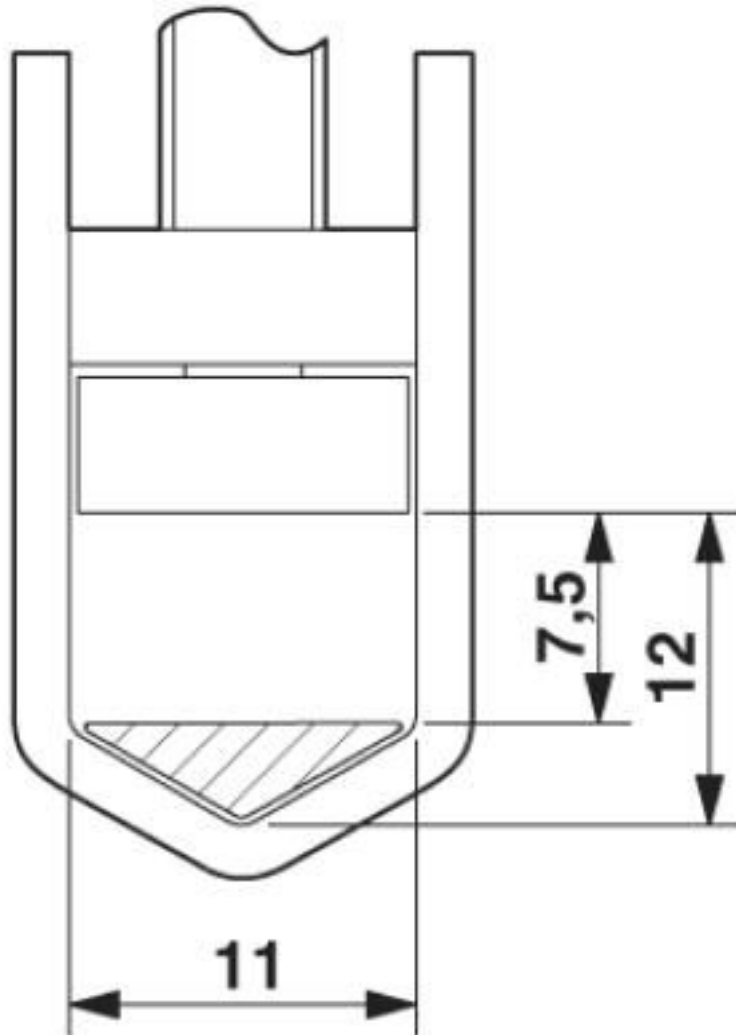
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Dimensional drawing



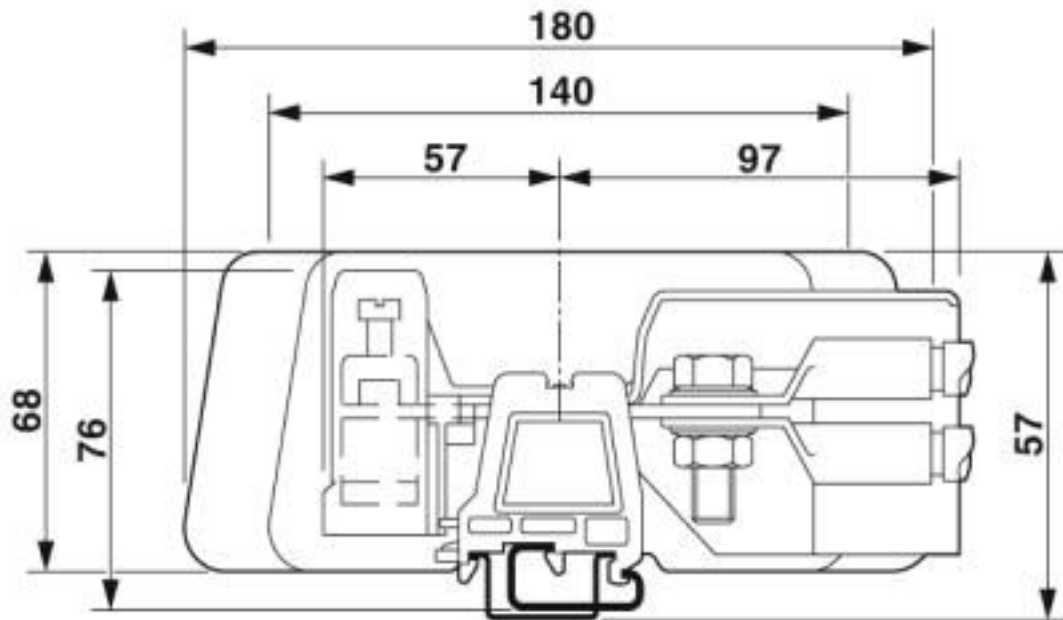
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Dimensional drawing



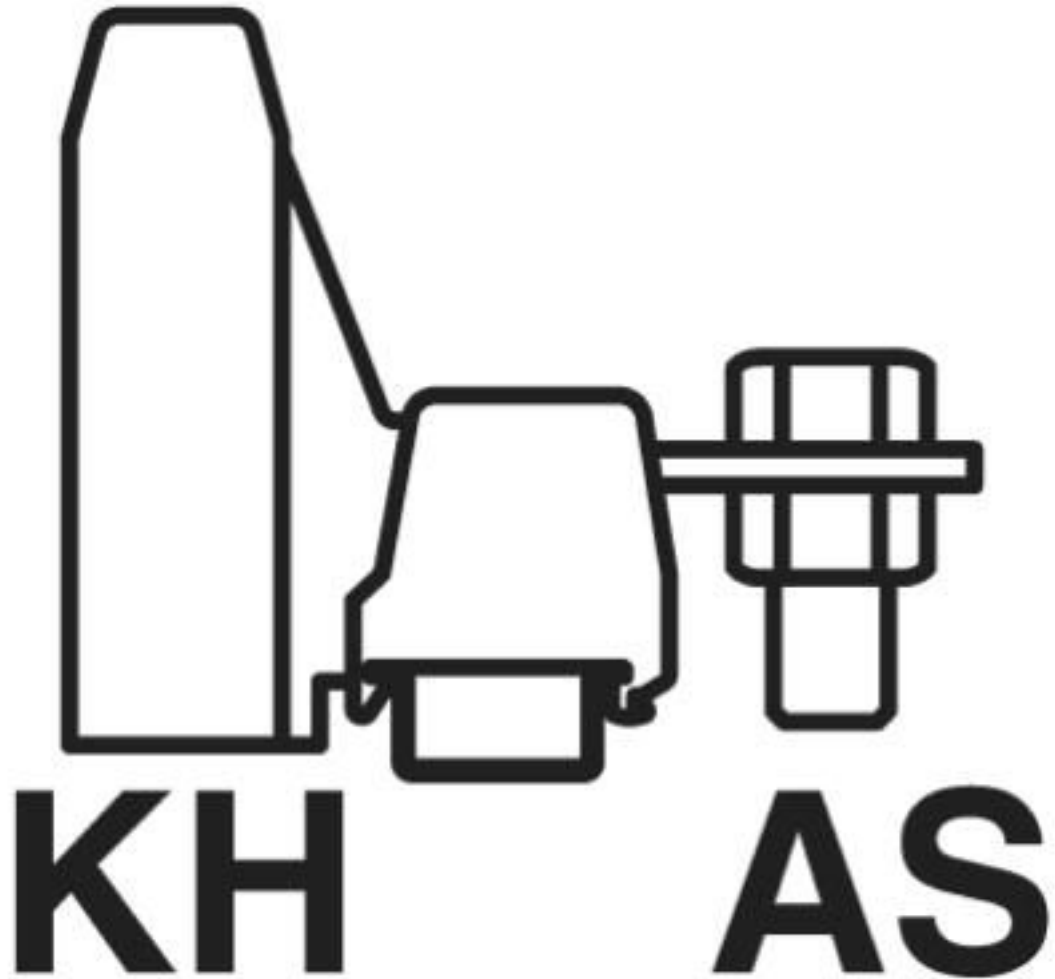
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Dimensional drawing



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Pictogram

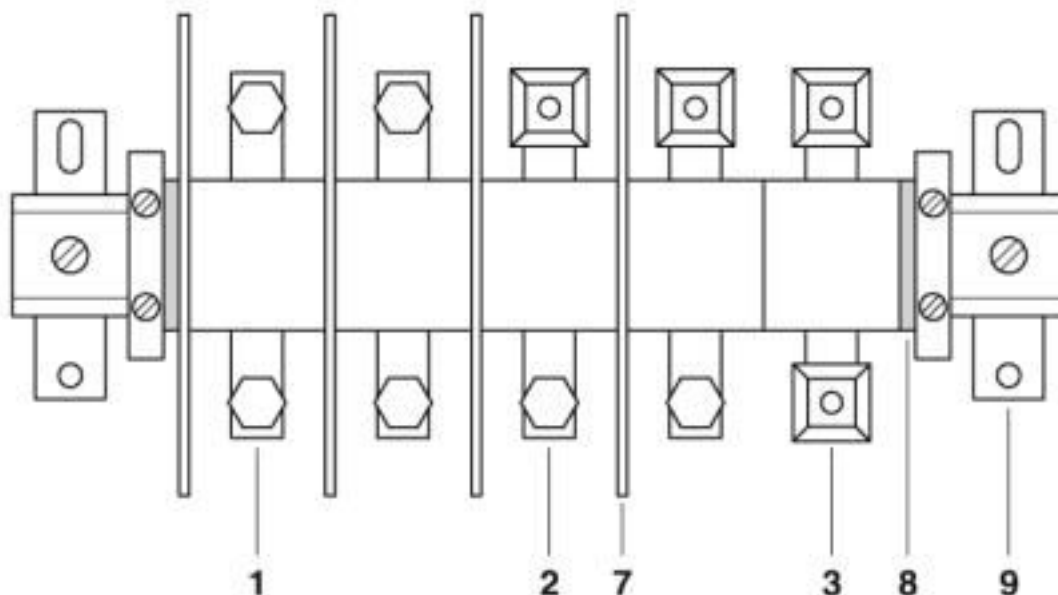


Circuit diagram



High Current Connectors - UHV 50-KH/AS - 2130114

Schematic diagram



- 1 = high current connector, AS screw set on both sides
- 2 = high current connector, terminal sleeve KH on one side, screw set AS on the other side
- 3 = high current connector, terminal sleeves KH on both sides, for direct cable connection
- 7 = separating plate
- 8 = end piece
- 9 = flat bracket

Classifications

eCl@ss

eCl@ss 10.0.1	27141120
eCl@ss 4.0	27141100
eCl@ss 4.1	27141100
eCl@ss 5.0	27141100
eCl@ss 5.1	27141100
eCl@ss 6.0	27141100
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
ETIM 7.0	EC000897

High Current Connectors - UHV 50-KH/AS - 2130114

Classifications

UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410
UNSPSC 18.0	39121410
UNSPSC 19.0	39121410
UNSPSC 20.0	39121410
UNSPSC 21.0	39121410

Approvals

Approvals

Approvals

DNV GL / CSA / UL Recognized / EAC

Ex Approvals

Approval details

DNV GL		https://approvalfinder.dnvgl.com/	TAE00001CT
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CSA		http://www.csagroup.org/services-industries/product-listing/	13631
	B	C	
Nominal voltage UN	600 V	600 V	
Nominal current IN	125 A	125 A	
mm ² /AWG/kcmil	6	6	

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 60425
Nominal voltage UN	600 V		
Nominal current IN	150 A		
mm ² /AWG/kcmil	6		

High Current Connectors - UHV 50-KH/AS - 2130114

Approvals

EAC



RU C-
DE.BL08.B.00540

Accessories

Accessories

Bridge

Connection rail - UHV 50-VS 2 - 5030897



Connection rail, number of positions: 2, color: silver

Connection rail - UHV 50-VS 3 - 2130622



Connection rail, number of positions: 3, color: silver

Connector

Ring cable lug - C-RC 6/M10 DIN - 3240087



Ring cable lug, non-insulated, 2.6 ... 6 mm², M10

Ring cable lug - C-RC 10/M10 DIN - 3240092



Ring cable lug, non-insulated, 10 mm², M10

High Current Connectors - UHV 50-KH/AS - 2130114

Accessories

Ring cable lug - C-RC 16/M10 DIN - 3240097



Ring cable lug, non-insulated, 16 mm², M10

Ring cable lug - C-RC 25/M10 DIN - 3240102



Ring cable lug, non-insulated, 25 mm², M10

Ring cable lug - C-RC 35/M10 DIN - 3240107



Ring cable lug, non-insulated, 35 mm², M10

Ring cable lug - C-RC 50/M10 DIN - 3240112



Ring cable lug, non-insulated, 50 mm², M10

Cover

Covering hood - UHV 50-AH - 2130444



Covering hood, length: 91 mm, width: 28.8 mm, height: 59 mm, color: gray

DIN rail

High Current Connectors - UHV 50-KH/AS - 2130114

Accessories

DIN rail perforated - NS 32 PERF 2000MM - 1201002



DIN rail perforated, G profile, width: 32 mm, height: 15 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail, unperforated - NS 32 UNPERF 2000MM - 1201015



DIN rail, unperforated, G profile, width: 32 mm, height: 15 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail perforated - NS 35/15 PERF 2000MM - 1201730



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail perforated - NS 35/15 WH PERF 2000MM - 0806602



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

High Current Connectors - UHV 50-KH/AS - 2130114

Accessories

DIN rail, unperforated - NS 35/15 WH UNPERF 2000MM - 1204135



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

DIN rail perforated - NS 35/15 ZN PERF 2000MM - 1206599



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 ZN UNPERF 2000MM - 1206586



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM - 1201895



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored

High Current Connectors - UHV 50-KH/AS - 2130114

Accessories

End cap - NS 35/15 CAP - 1206573



DIN rail end piece, for DIN rail NS 35/15

DIN rail, unperforated - NS 35/15-2,3 UNPERF 2000MM - 1201798



DIN rail, unperforated, Standard profile 2.3 mm, width: 35 mm, height: 15 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

End block

End clamp - E/AL-NS 32 - 1201659



End clamp, for end support of UKH 50 - UKH 240, is pushed onto DIN rail NS 32 and fixed with 2 screws, width: 10 mm, color: Aluminum

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

End clamp - CLIPFIX 15 - 3022263



Snap-on end bracket, to be snapped onto NS 15 DIN rail

Labeled terminal marker

High Current Connectors - UHV 50-KH/AS - 2130114

Accessories

Zack marker strip - ZB 10 CUS - 0824941



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

Zack marker strip - ZB10,LGS:FORTL.ZAHLEN - 1053014



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

Zack marker strip - ZB10,QR:FORTL.ZAHLEN - 1053027



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

Marker for terminal blocks - ZB10,LGS:L1-N,PE - 1053412



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

Marker for terminal blocks - ZB10,LGS:U-N - 1053438



Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: U, V, W, N, GND, U, V, W, N, GND, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.15 x 10.5 mm, Number of individual labels: 10

High Current Connectors - UHV 50-KH/AS - 2130114

Accessories

Marker for terminal blocks - UC-TM 10 CUS - 0824605



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: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

Marker for terminal blocks - UCT-TM 10 CUS - 0829623



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: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

Mounting material

Insertion profile - UKH 50 EP - 3009228



Insertion profile, color: silver

Partition plate

Separating plate - UHV -TP1 - 2130402



Separating plate, length: 140.2 mm, width: 2 mm, height: 68.3 mm, color: gray

Pick-off terminal block

Pick-off terminal block - AGK PT 4X6/M10 - 1017448



Pick-off terminal block, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, Bolt connection, number of connections: 5, cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, width: 31 mm, height: 32.3 mm, color: gray, mounting type: on base element

High Current Connectors - UHV 50-KH/AS - 2130114

Accessories

Pick-off terminal block - AGK PT 8X6/M10 - 1017450



Pick-off terminal block, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, Bolt connection, number of connections: 9, cross section: 0.5 mm² - 10 mm², AWG: 20 - 8, width: 31 mm, height: 32.3 mm, color: gray, mounting type: on base element

Screwdriver tools

Screwdriver - SZS 1,2X8,0 VDE - 1205082



Screwdriver, slot-headed, VDE insulated, size: 1.2 x 8.0 x 175 mm, 2-component grip, with non-slip grip

Terminal marking

Marker card - SBS10:UNBEDRUCKT - 1007248



Marker card, Card, white, unlabeled, can be labeled with: Marker pen, perforated, mounting type: snap into tall marker groove, snap into flat marker groove, for terminal block width: 10 mm, lettering field size: 6 x 10.1 mm, Number of individual labels: 250

Zack marker strip - ZB 10:UNBEDRUCKT - 1053001



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 10.5 x 10.15 mm, Number of individual labels: 10

Marker for terminal blocks - UC-TM 10 - 0818069



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 9.6 x 10.5 mm, Number of individual labels: 48

High Current Connectors - UHV 50-KH/AS - 2130114

Accessories

Marker for terminal blocks - UCT-TM 10 - 0829142



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snap into tall marker groove, for terminal block width: 10.2 mm, lettering field size: 8.9 x 9.6 mm, Number of individual labels: 36

Necessary add-on products

Flange cover - UHV -E - 2130428



Flange cover, length: 43.3 mm, width: 5.2 mm, color: gray

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