

## High Current Connectors - UHV240-AS 16/AS 10 - 3061473

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>)



Universal terminal block with bolt connection, bore hole on one side for M10 and on one side for M16, cross section: 70 - 240 mm<sup>2</sup>, width: 53 mm, color: gray


The illustration shows a combination of versions UHV 240-AS/AS, UHV 240-KH/AS and UHV 240-KH/KH

### Why buy this product

- ✓ The comprehensive range of accessories, such as the connection rail for cross connection, ensures safe and user-friendly wiring of conductors up to 240 mm<sup>2</sup>
- ✓ Versions are available with a cable lug or direct connection and there is a mixed version of both connection methods
- ✓ The UHV ... high-current connectors are available in several versions



### Key commercial data

Packing unit	1
GTIN	 4 046356 578714
Custom tariff number	85369010

### Technical data

#### General

Number of levels	1
Number of connections	2
Color	gray
Insulating material	PA-F
Inflammability class according to UL 94	HB
Maximum load current	415 A (At 240 mm <sup>2</sup> conductor cross section)
Rated surge voltage	8 kV
Pollution degree	3
Surge voltage category	III
Insulating material group	II
Connection in acc. with standard	IEC 60947-7-1

# High Current Connectors - UHV240-AS 16/AS 10 - 3061473

## Technical data

### General

Maximum load current	415 A (At 240 mm <sup>2</sup> conductor cross section)
Nominal current I <sub>N</sub>	415 A
Nominal voltage U <sub>N</sub>	1000 V
Maximum load current	415 A (At 240 mm <sup>2</sup> conductor cross section)
Open side panel	nein

### Dimensions

Width	53 mm
Length	125 mm
Height NS 35/15	58 mm

### Connection data

Connection in acc. with standard	IEC 60947-7-1
Connection method	Bolt connection
Conductor cross section solid min.	70 mm <sup>2</sup>
Conductor cross section solid max.	240 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	2/0
Conductor cross section AWG/kcmil max	500 kcmil
Conductor cross section stranded min.	70 mm <sup>2</sup>
Conductor cross section stranded max.	240 mm <sup>2</sup>
Min. AWG conductor cross section, stranded	2/0
Max. AWG conductor cross section, stranded	500 kcmil
Conductor cross section stranded, with ferrule without plastic sleeve min.	70 mm <sup>2</sup>
Conductor cross section stranded, with ferrule without plastic sleeve max.	180 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve min.	70 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve max.	185 mm <sup>2</sup>
2 conductors with same cross section, solid min.	35 mm <sup>2</sup>
2 conductors with same cross section, solid max.	95 mm <sup>2</sup>
2 conductors with same cross section, stranded min.	50 mm <sup>2</sup>
2 conductors with same cross section, stranded max.	95 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	35 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	50 mm <sup>2</sup>
Cable lug connection according to standard	DIN 46,235
Min. cross section for cable lug connection	50 mm <sup>2</sup>
Max. cross section for cable lug connection	185 mm <sup>2</sup>
Cable lug connection according to standard	DIN 46 234
Min. cross section	25 mm <sup>2</sup>
Max. cross section	240 mm <sup>2</sup>
Stripping length	34 mm

# High Current Connectors - UHV240-AS 16/AS 10 - 3061473

## Technical data

### Connection data

Tightening torque, min	25 Nm
Tightening torque max	30 Nm
Power rail	40 mm x 5 mm

## 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

### ETIM

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

### Approvals

---

Approvals

UL Recognized / EAC

---

Ex Approvals

---

Approvals submitted

---

Approval details

# High Current Connectors - UHV240-AS 16/AS 10 - 3061473

## Approvals

UL Recognized		
	B	C
mm <sup>2</sup> /AWG/kcmil	2/0-500	2/0-500
Nominal current I <sub>N</sub>	380 A	380 A
Nominal voltage U <sub>N</sub>	600 V	600 V

EAC
-----

## Accessories

### Accessories

#### Bridge

Connection rail - UHV240-VS 3 - 2130680



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

Connection rail - UHV240-VS 2 - 2130677



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

#### Cover

Covering hood - UHV240-AH - 2130473



Covering hood, Width: 49.8 mm, Height: 77 mm, Color: gray

#### End block

## High Current Connectors - UHV240-AS 16/AS 10 - 3061473

### Accessories

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

---

### Flange

Flange cover - UHV -E - 2130428



Flange cover, Length: 43.3 mm, Width: 5.2 mm, Color: gray

---

### Labeled terminal marker

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: 10.15 x 10.5 mm

---

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



Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 991 - 1000, Mounting type: Snap into tall marker groove, for terminal block width: 10.2 mm, Lettering field: 10.15 x 10.5 mm

---

## High Current Connectors - UHV240-AS 16/AS 10 - 3061473

### Accessories

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



Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed vertically: Consecutive numbers 1 - 10, 11 - 20, etc. up to 991 - 1000, Mounting type: Snap into tall marker groove, for terminal block width: 10.2 mm, Lettering field: 10.15 x 10.5 mm

#### Zack marker strip - ZB10,LGS:GLEICHE ZAHLEN - 1053030



Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed horizontally: Identical numbers 1 or 2, etc. up to 100, Mounting type: Snap into tall marker groove, for terminal block width: 10.2 mm, Lettering field: 10.15 x 10.5 mm

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



Marker for terminal blocks, Strip, white, labeled, can be labeled with: 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: 10.15 x 10.5 mm

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



Marker for terminal blocks, Strip, white, labeled, can be labeled with: 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: 10.15 x 10.5 mm

#### 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: 9.6 x 10.5 mm

## High Current Connectors - UHV240-AS 16/AS 10 - 3061473

### Accessories

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: 8.9 x 9.6 mm

---

### Mounting material

Insertion profile - UKH 150/240 EP - 3009244



Insertion profile, Color: silver

---

### Mounting rail

DIN rail perforated - NS 32 PERF 2000MM - 1201002



G-profile DIN rail, material: Steel, perforated, height 15 mm, width 32 mm, length 2 m

---

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



G-profile DIN rail, material: Steel, unperforated, height 15 mm, width 32 mm, length 2 m

---

### Partition plate

Separating plate - UHV -TP2 - 2130415



Separating plate, Width: 2 mm, Height: 67.5 mm, Color: gray

---

### Socket spanner

## High Current Connectors - UHV240-AS 16/AS 10 - 3061473

### Accessories

Tool - VDE-ISS 8 - 1201947



Allen wrench, fully insulated, safety tool in accordance with EN 60900, length: 150 mm, handle width: 110 mm, for all terminal blocks with 10 mm Allen screw

---

### Terminal marking

Marker card - SBS10:UNBEDRUCKT - 1007248



Marker card, Card, white, unlabeled, can be labeled with: Plotter, Perforated, Mounting type: Snap into tall marker groove, Snap into flat marker groove, for terminal block width: 10 mm, Lettering field: 6 x 10.1 mm

Zack marker strip - ZB 10:UNBEDRUCKT - 1053001



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 10.2 mm, Lettering field: 10.5 x 10.15 mm

Marker for terminal blocks - UC-TM 10 - 0818069



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK CLED, BLUEMARK LED, Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 10.2 mm, Lettering field: 9.6 x 10.5 mm

Marker for terminal blocks - UCT-TM 10 - 0829142



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, TOPMARK LASER, Mounting type: Snap into tall marker groove, for terminal block width: 10.2 mm, Lettering field: 8.9 x 9.6 mm

---

### Drawings

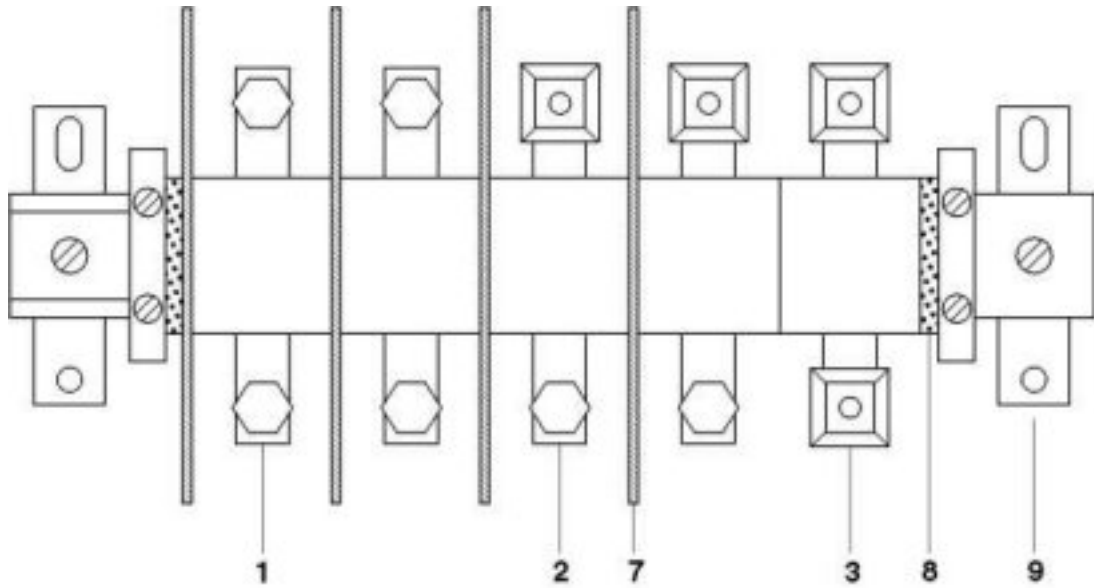


## High Current Connectors - UHV240-AS 16/AS 10 - 3061473

Circuit diagram



Circuit 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