

# Panel feed-through terminal block - UW 50-POT/S - 1713843

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Panel feed-through terminal block, connection method: Screw connection with tension sleeve, Cable lug connection, number of positions: 1, load current: 150 A, connection direction of the conductor to plug-in direction: 0 °, width: 18.8 mm, color: gray

The figure shows the standard item

## Your advantages

- Well-known connection principle allows worldwide use
- Low temperature rise, thanks to maximum contact force
- Tool-free snap-in principle enables easy mounting on the device panel
- Automatic panel thickness compensation enables universal use
- Reliable seal even with low-viscosity molding compounds



## Key Commercial Data

Packing unit	25 pc
Minimum order quantity	25 pc
GTIN	
GTIN	4055626326016

## Technical data

### Item properties

Brief article description	Panel feed-through terminal block
Range of articles	UW 50-POT
Pitch	18.8 mm
Number of positions	1
Connection method	Screw connection with tension sleeve
Number of connections	2
Number of potentials	1

### Electrical parameters

Nominal current	150 A
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# Panel feed-through terminal block - UW 50-POT/S - 1713843

## Technical data

### Electrical parameters

Nom. voltage	800 V
Rated voltage	800 V

### Connection capacity, external

Connection method	Screw connection with tension sleeve
Connection direction of the conductor to plug-in direction	0 °
Single-conductor/terminal point multi-stranded	16 mm <sup>2</sup> ... 50 mm <sup>2</sup>
Conductor cross section flexible	16 mm <sup>2</sup> ... 50 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve	10 mm <sup>2</sup> ... 50 mm <sup>2</sup>
Conductor cross section, flexible, with ferrule, with plastic sleeve	10 mm <sup>2</sup> ... 50 mm <sup>2</sup>
2 conductors with same cross section, solid	6 mm <sup>2</sup> ... 16 mm <sup>2</sup>
2 conductors with same cross section, flexible	10 mm <sup>2</sup> ... 16 mm <sup>2</sup>
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	6 mm <sup>2</sup> ... 16 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	6 mm <sup>2</sup> ... 10 mm <sup>2</sup>
Internal cylindrical gage	A10 / B10
Stripping length	24 mm
Torque	6 Nm ... 8 Nm

### Connection capacity, internal

Connection method	Cable lug connection
Connection direction of the conductor to plug-in direction	0 °
Cable lug connection according to standard	DIN 46234:1980-03 16 mm <sup>2</sup> 50 mm <sup>2</sup> M8 6 Nm 8 Nm

### Material data - contact

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/ JEDEC JESD 201
Contact material	Al alloy
Surface characteristics	tin-plated

### Material data - housing

Housing color	gray (7042)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2-13	775
Temperature for the ball pressure test according to EN 60695-10-2	125 °C

### Dimensions for the product

Width [ w ]	18.8 mm
Pitch	18.8 mm

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## Technical data

### Dimensions for mounting cutout

Plate thickness	1 mm ... 4 mm
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### Packaging information

Type of packaging	packed in cardboard
Pieces per package	25
Denomination packing units	Pcs.

### General product information

Type of note	Notes on safety
	Note on application
Note	The cable entry funnel is not touch-proof. Never connect or disconnect the terminal when it is energized. Take appropriate steps to ensure touch proofness.
	To maintain the nominal voltage, align the cable lugs straight and centered, and cast the terminals on the inside.
Type of note	Notes on safety
Note	The cable entry funnel is not touch-proof. Never connect or disconnect the terminal when it is energized. Take appropriate steps to ensure touch proofness.

### Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °C
Ambient temperature (assembly)	-5 °C ... 100 °C
Ambient temperature (operation)	-40 °C ... 100 °C (Depending on the current carrying capacity/derating curve)

### Termination and connection method

Test for conductor damage and slackening	IEC 60947-7-1:2009-04
	Test passed

### Pull-out test

Pull-out test	IEC 60947-7-1:2009-04
	Test passed
Conductor cross section / conductor type / tensile force	16 mm <sup>2</sup> / solid / > 100 N
	16 mm <sup>2</sup> / flexible / > 100 N
	50 mm <sup>2</sup> / solid / > 236 N
	50 mm <sup>2</sup> / flexible / > 236 N

### Mechanical tests according to standard

Test specification	IEC 60947-7-1
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### Electrical tests

Rated current	150 A
Conductor cross section	50 mm <sup>2</sup>

### Air clearances and creepage distances

Clearances and creepage distances	IEC 60947-1:2007-06 + A1:2010-12
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## Panel feed-through terminal block - UW 50-POT/S - 1713843

### Technical data

#### Air clearances and creepage distances

Specification	IEC 60947-1:2007-06 + A1:2010-12
Minimum clearance - inhomogeneous field (III/3)	8 mm
Minimum clearance - inhomogeneous field (III/2)	8 mm
Minimum clearance - inhomogeneous field (II/2)	5.5 mm
Minimum creepage distance value (III/3)	10 mm
Minimum creepage distance value (III/2)	8 mm
Minimum creepage distance value (II/2)	5.5 mm

#### Temperature-rise test

Specification	IEC 60947-7-1:2009-04
Result	Test passed
Requirement temperature-rise test	Increase in temperature $\leq 45$ K

#### Current carrying capacity / derating curves

Caption	Type: UW 50-POT/S
Specification	IEC 60947-7-1:2009-04
Number of positions	5
Reduction factor	1
Note	Representation based on IEC 60512-5-2:2002-02

#### Standards and Regulations

Connection in acc. with standard	IEC 60947-7-1
Flammability rating according to UL 94	V0
Safety note	<ul style="list-style-type: none"> <li>• WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.</li> <li>• The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.</li> <li>• The cable entry funnel is not safe to touch. Never connect or disconnect the terminal when it is energized. Take appropriate steps to ensure touch protection.</li> <li>• To maintain the nominal voltage, align the cable lugs straight and centered, and cast the terminals on the inside.</li> </ul>

#### Vibration test

Specification	IEC 60068-2-6:2007-12
Result	Test passed
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 - 60.1 Hz)
Acceleration	5 g (60.1 - 150 Hz)
Test duration per axis	2.5 h

#### Glow-wire test

# Panel feed-through terminal block - UW 50-POT/S - 1713843

## Technical data

### Glow-wire test

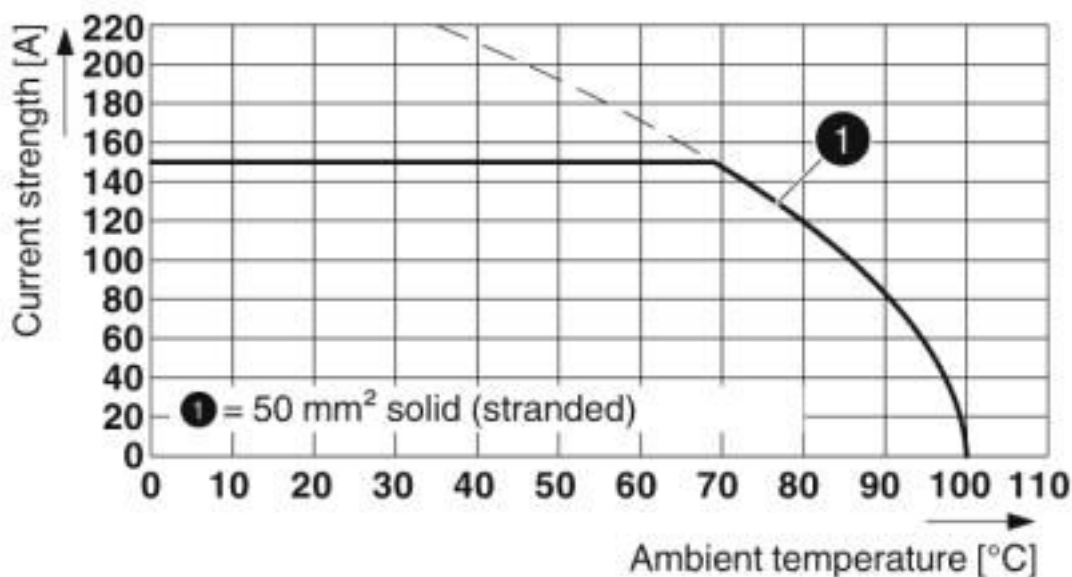
Specification	IEC 60695-2-11:2014-02
Result	Test passed
Temperature	960 °C
Time of exposure	30 s

### Needle flame test

Specification	IEC 60695-11-5:2004-12
Result	Test passed
Time of exposure	30 s

## Drawings

Diagram



Type: UW 50-POT/S

## Classifications

eCl@ss

eCl@ss 10.0.1	27141134
eCl@ss 5.0	27141100
eCl@ss 5.1	27141100
eCl@ss 6.0	27141100
eCl@ss 7.0	27141134
eCl@ss 8.0	27141134
eCl@ss 9.0	27141134

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## Classifications

### ETIM

ETIM 6.0	EC001283
ETIM 7.0	EC001283

## Approvals

### Approvals

#### Approvals

VDE Zeichengenehmigung / cULus Recognized / EAC

#### Ex Approvals

### Approval details

VDE Zeichengenehmigung		<a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a>	40047737
Nominal voltage UN	1000 V		
Nominal current IN	150 A		
mm <sup>2</sup> /AWG/kcmil	16-50		

cULus Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	E60425-20171107
	B	C	
Nominal voltage UN	600 V	600 V	
Nominal current IN	151 A	151 A	
mm <sup>2</sup> /AWG/kcmil	6	6	

EAC		B.01687
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## Accessories

### Accessories

Crimping tool

## Panel feed-through terminal block - UW 50-POT/S - 1713843

### Accessories

#### Crimping pliers - CRIMPFOX 50R - 1212041



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 35 mm<sup>2</sup> ... 50 mm<sup>2</sup>, lateral entry, WM crimp

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#### Crimping pliers - CRIMPFOX 25R - 1212039



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 10 mm<sup>2</sup> ... 25 mm<sup>2</sup>, lateral entry, WM crimp

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#### Crimping pliers - CRIMPFOX-RC 25 - 1212065



Crimping pliers, for non-insulated cable lugs, 10 ... 25 mm<sup>2</sup>, indent crimp

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### Labeled terminal marker

#### Zack marker strip - ZB 15 CUS - 0824945



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 15.2 mm, lettering field size: 10.5 x 15.1 mm, Number of individual labels: 5

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#### Zack Marker strip, flat - ZBF 15 CUS - 0825019



Zack Marker strip, flat, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 15 mm, lettering field size: 5.15 x 15.1 mm, Number of individual labels: 5

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### Screwdriver tools

## Panel feed-through terminal block - UW 50-POT/S - 1713843

### Accessories

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

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Philips screwdriver - SZK PZ2 VDE - 1206463



Screwdriver, PZ crosshead, VDE insulated, size: PZ 2 x 100 mm, 2-component grip, with non-slip grip

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### Terminal marking

Zack Marker strip, flat - ZBF 15:UNBEDRUCKT - 0811202



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 15 mm, lettering field size: 15 x 5.2 mm, Number of individual labels: 5

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Zack marker strip - ZB 15:UNBEDRUCKT - 0811972



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: 15.2 mm, lettering field size: 10.5 x 15.1 mm, Number of individual labels: 5

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