PHŒNIX CONTACT

Panel feed-through terminal block - UW 16/S - 3073351

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Panel feed-through terminal block, connection method: Screw connection with tension sleeve, Screw connection with tension sleeve, number of positions: 1, load current: 76 A, cross section: 6 mm² - 25 mm², connection direction of the conductor to plug-in direction: 0 °, width: 12.1 mm, color: gray

Your advantages

- ☑ Easy grouping with engagement pin versions
- ☑ Both terminal halves can be easily assembled by simply snapping them together
- ☑ Molded versions ensure maximum tightness of seal
- ☑ Touch-proof insulating housing in a new design
- ☑ Automatic compensation of the panel thickness via the snap principle integrated in the insulation housing
- ☑ Spacer plates increase clearances and creepage distances
- ☑ Universal screw connection with screw locking
- ☑ 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

RoHS

Key Commercial Data

Packing unit	50 pc
Minimum order quantity	50 pc
GTIN	4 046356 344609
GTIN	4046356344609

Technical data

Item properties

Brief article description	Panel feed-through terminal block
Range of articles	UW 16
Pitch	12.1 mm
Number of positions	1
Connection method	Screw connection with tension sleeve

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Technical data

Item properties

Number of connections	2
Number of potentials	1

Electrical parameters

Nominal current	76 A
Nom. voltage	500 V (without spacer plate)
Rated voltage	500 V
Rated surge voltage (III/3)	6 kV

Connection capacity, external

Connection method	Screw connection with tension sleeve
Connection direction of the conductor to plug-in direction	0 °
Conductor cross section solid	6 mm² ... 25 mm²
Conductor cross section flexible	6 mm² ... 16 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	6 mm² ... 16 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	6 mm² ... 16 mm²
2 conductors with same cross section, solid	2.5 mm² ... 10 mm²
2 conductors with same cross section, flexible	2.5 mm² ... 6 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	4 mm² ... 6 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	4 mm² ... 6 mm²
Internal cylindrical gage	B7
Stripping length	16 mm
Torque	2 Nm ... 2.3 Nm

Connection capacity, internal

Connection method	Screw connection with tension sleeve
Connection direction of the conductor to plug-in direction	0 °
Conductor cross section solid	6 mm² ... 25 mm²
Conductor cross section flexible	6 mm² ... 16 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	6 mm² ... 16 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	6 mm² ... 16 mm²
2 conductors with same cross section, solid	2.5 mm² ... 10 mm²
2 conductors with same cross section, flexible	2.5 mm² ... 6 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	4 mm² ... 6 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	4 mm² ... 6 mm²
Internal cylindrical gage	B7
Stripping length	16 mm
Torque	2 Nm ... 2.3 Nm

Material data - contact

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Technical data

Material data - contact

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/ JEDEC JESD 201
Contact material	Cu 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]	12.1 mm
Pitch	12.1 mm

Dimensions for mounting cutout

Plate thickness	1 mm ... 6 mm

Packaging information

Type of packaging	packed in cardboard
Pieces per package	50
Denomination packing units	Pcs.

General product information

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	6 mm² / solid / > 80 N

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Technical data

Pull-out test

	6 mm² / flexible / > 80 N
	25 mm² / stranded / > 135 N
	16 mm² / flexible / > 100 N

Mechanical tests according to standard

Test specification	IEC 60947-7-1 (following)

Electrical tests

Rated current	76 A
Conductor cross section	16 mm²

Air clearances and creepage distances

Clearances and creepage distances	without spacer plate IEC 60947-7-1:2009-04
Application	without spacer plate
Specification	IEC 60947-7-1:2009-04
Minimum clearance - inhomogeneous field (III/3)	5.5 mm
Minimum creepage distance value (III/3)	6.3 mm

Temperature-rise test

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

Current carrying capacity / derating curves

Caption	Type: UW 16
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	UL
	IEC 60947-7-1
Flammability rating according to UL 94	V0
Safety note	• 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.
	• The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product.
	• 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.

Glow-wire test

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Technical data

Glow-wire test

Specification	IEC 60695-2-11:2000-10
Result	Test passed
Temperature	960 °C
Time of exposure	30 s

Needle flame test

Specification	IEC 60947-7-1:2009-04
Result	Test passed
Time of exposure	30 s

Environmental Product Compliance

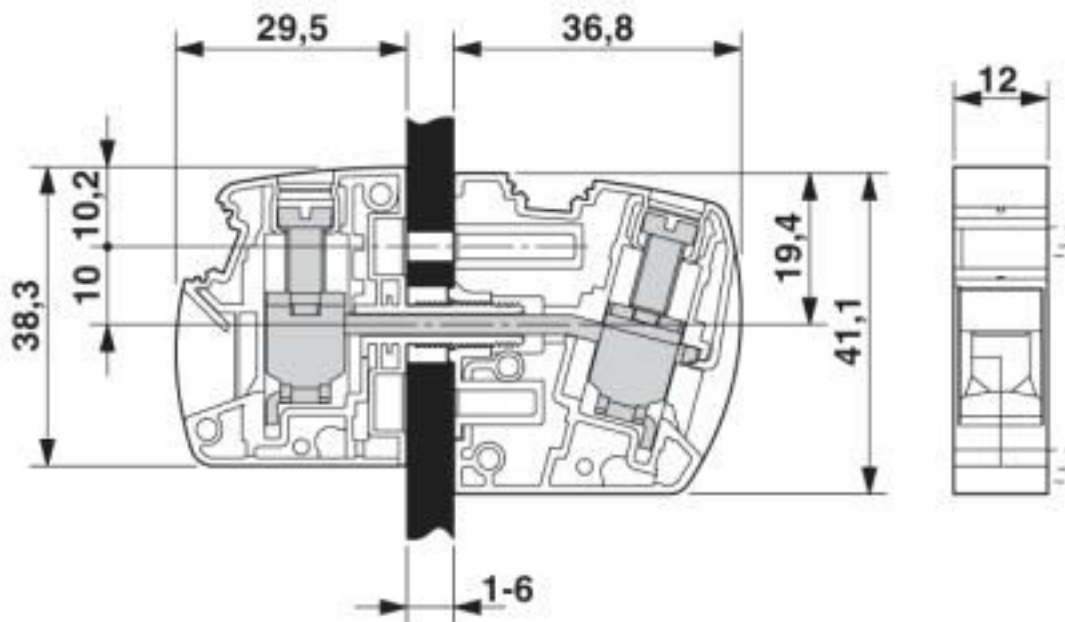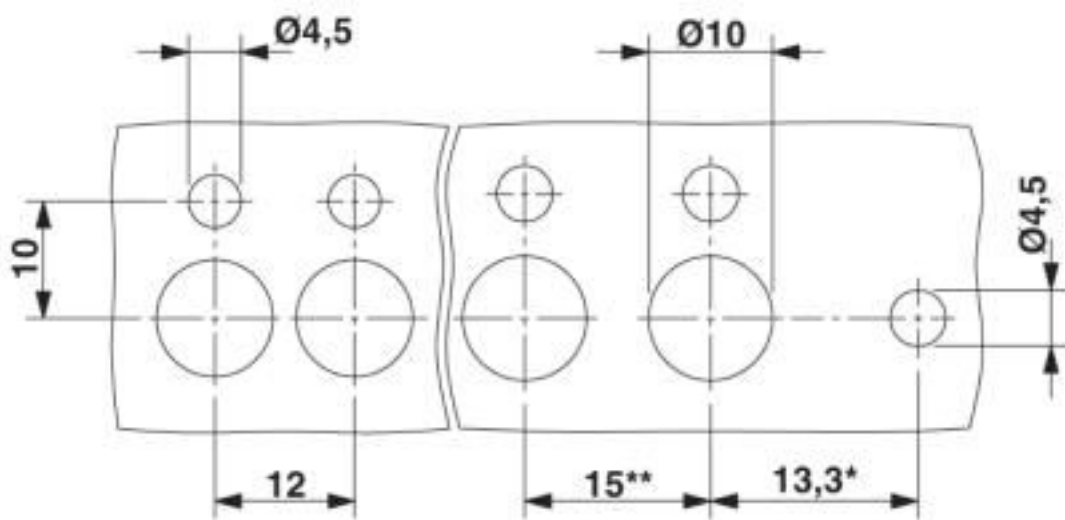| China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Diagram
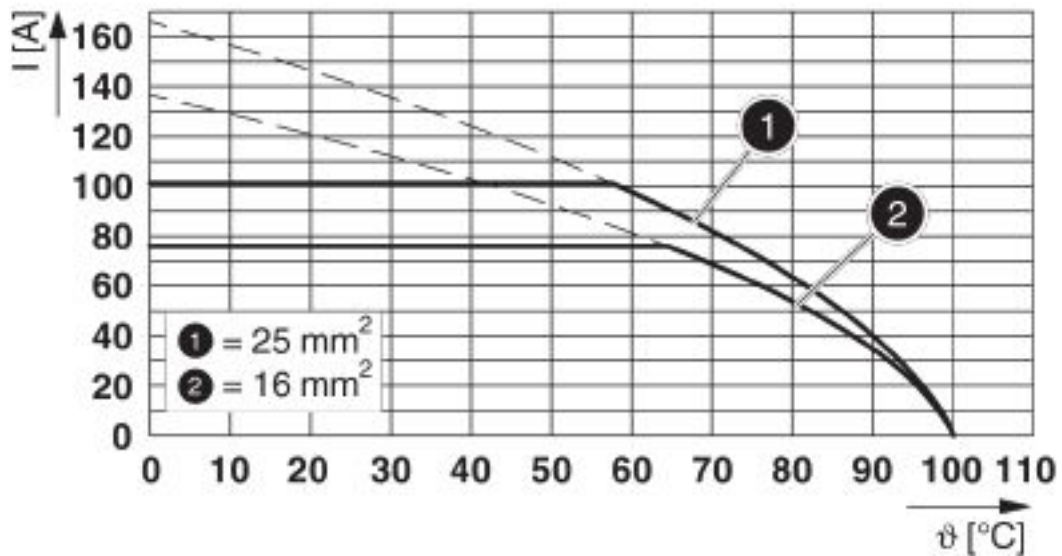
Type: UW 16

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Dimensional drawing

Dimensional drawing

* Only when using the UW...-F flange plate
** Dimensions when using the DP-UW... spacer plate

Classifications

eCl@ss

eCl@ss 10.0.1	27141134
eCl@ss 4.0	27141100
eCl@ss 4.1	27141100
eCl@ss 5.0	27141100

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Classifications

eCl@ss

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

ETIM

ETIM 2.0	EC001283
ETIM 3.0	EC001283
ETIM 4.0	EC001283
ETIM 5.0	EC001283
ETIM 6.0	EC001283
ETIM 7.0	EC001283

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

CSA / EAC / cULus Recognized

Ex Approvals

Approval details

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Approvals

CSA		http://www.csagroup.org/services-industries/product-listing/	2618381-158887
	B		C
Nominal voltage UN	600 V		600 V
Nominal current IN	80 A		80 A
mm²/AWG/kcmil	10-4		10-4

EAC			B.01687

cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	E60425-20100423
	B		C
Nominal voltage UN	600 V		600 V
Nominal current IN	85 A		85 A
mm²/AWG/kcmil	10-4		10-4

Accessories

Accessories

Flange

Flange cover - UW 16-F - 3074538

Flange, number of positions: 0, color: gray

Partition plate

Spacer plate - DP-UW 16 - 3074392

Spacer plate, number of positions: 0, pitch: 0 mm, color: gray

Screwdriver tools

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Accessories

Screwdriver - SZS 1,0X4,0 VDE - 1205066

Screwdriver, slot-headed, VDE insulated, size: 1.0 x 4.0 x 100 mm, 2-component grip, with non-slip grip

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Terminal marking

Marker for terminal blocks - UC-TM 12 - 0819194

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: 12 mm, lettering field size: 11.45 x 10.5 mm, Number of individual labels: 40

Marker for terminal blocks - UC-TMF 12 - 0819233

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 flat marker groove, for terminal block width: 12 mm, lettering field size: 11.45 x 5.1 mm, Number of individual labels: 40

Zack marker strip - ZB 12:UNPRINTED - 0812120

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: 12.2 mm, lettering field size: 12 x 10.5 mm, Number of individual labels: 5

Zack Marker strip, flat - ZBF 12:UNBEDRUCKT - 0809735

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: 12 mm, lettering field size: 5.15 x 12.15 mm, Number of individual labels: 5

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Accessories

Marker for terminal blocks - TMT 100 R - 0816605

Marker for terminal blocks, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, unperforated, mounting type: snap into universal marker groove, snap into flat marker groove, for terminal block width: 100 mm, lettering field size: 6.35 x 101.5 mm, Number of individual labels: 1000

Marker for terminal blocks - TMT (EX9,5)R - 0828295

Marker for terminal blocks, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: snap into universal marker groove, snap into tall marker groove, for terminal block width: 50000 mm, lettering field size: 9.5 x 50000 mm, Number of individual labels: 1

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