

Panel feed-through terminal block - TW 95/ 4-CL - 1708755

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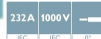


Panel feed-through terminal block, Cable lug connection, number of positions: 4, load current: 232 A, connection direction of the conductor to plug-in direction: 0 °, width: 123 mm, color: gray

The figure shows a 5-pos. version of the product

Your advantages

- Lever actuation enables time-saving and smooth connection of large conductors
- Defined contact force ensures that contact remains stable over the long term
- 90° open clamping space allows the conductor to be conveniently swiveled
- Quick, tool-free mounting on the housing wall using a fixing wedge



Key Commercial Data

| | |
|------------------------|---------------|
| Packing unit | 5 pc |
| Minimum order quantity | 5 pc |
| GTIN | |
| GTIN | 4055626020402 |

Technical data

Item properties

| | |
|---------------------------|-----------------------------------|
| Brief article description | Panel feed-through terminal block |
| Range of articles | TW 95/.. -CL |
| Number of positions | 4 |
| Connection method | T-LOX knee lever connection |
| Number of connections | 8 |
| Number of potentials | 4 |

Electrical parameters

| | |
|-----------------|--------|
| Nominal current | 232 A |
| Nom. voltage | 1000 V |
| Rated voltage | 1000 V |

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Technical data

Connection capacity, external

| | |
|---|---|
| Connection direction of the conductor to plug-in direction | 0 ° |
| Single-conductor/terminal point multi-stranded | 25 mm ² ... 95 mm ² |
| Conductor cross section flexible | 25 mm ² ... 95 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve | 25 mm ² ... 95 mm ² |
| Conductor cross section, flexible, with ferrule, with plastic sleeve | 25 mm ² ... 95 mm ² |
| Stripping length | 25 mm |

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 25 mm ² 95 mm ² 8.4 mm 24 mm M8 12 Nm 15 Nm |

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

| | |
|--------------|---|
| Caption | Electric strength > 19.7 kV/mm (IEC243), min. Wall thickness, fully shrunk ≥ 0.5 mm |
| Length [l] | 120.05 mm |
| Width [w] | 123 mm |
| Height [h] | 81.8 mm |
| Pitch | 25 mm |

Dimensions for mounting cutout

| | |
|-----------------|----------------------|
| Caption | Dimension a = 113 mm |
| Plate thickness | 1 mm ... 5 mm |

Packaging information

| | |
|----------------------------|------|
| Pieces per package | 5 |
| Denomination packing units | Pcs. |

General product information

Panel feed-through terminal block - TW 95/ 4-CL - 1708755

Technical data

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 | DIN EN 60947-7-1 (VDE 0611-1):2010-03 |
| | Test passed |
| Conductor cross section / conductor type / tensile force | 25 mm ² / solid / > 135 N |
| | 25 mm ² / flexible / > 135 N |
| | 95 mm ² / solid / > 351 N |
| | 95 mm ² / flexible / > 351 N |
| | 25 mm ² / flexible with ferrule / > 135 N |
| | 95 mm ² / flexible with ferrule / > 351 N |

Mechanical tests according to standard

| | |
|--------------------|---------------------------|
| Test specification | IEC 60947-7-1 (following) |
|--------------------|---------------------------|

Electrical tests

| | |
|-------------------------|--------------------|
| Rated current | 232 A |
| Conductor cross section | 95 mm ² |

Air clearances and creepage distances

| | |
|---|----------------------------------|
| Clearances and creepage distances | IEC 60947-1:2007-06 + A1:2010-12 |
| 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) | 12.5 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 (following) |
| Result | Test passed |
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |

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Technical data

Current carrying capacity / derating curves

| | |
|---------------------|---|
| Caption | Type: TW 95/...-CL |
| 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"> • 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. |

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

| | |
|------------------|---|
| Specification | DIN EN 60695-2-11 (VDE 0471-2-11):2014-11 |
| Result | Test passed |
| Temperature | 960 °C |
| Time of exposure | 30 s |

Needle flame test

| | |
|------------------|---|
| Specification | DIN EN 60695-11-5 (VDE 0471-11-5):2005-11 |
| Result | Test passed |
| Time of exposure | 10 s |

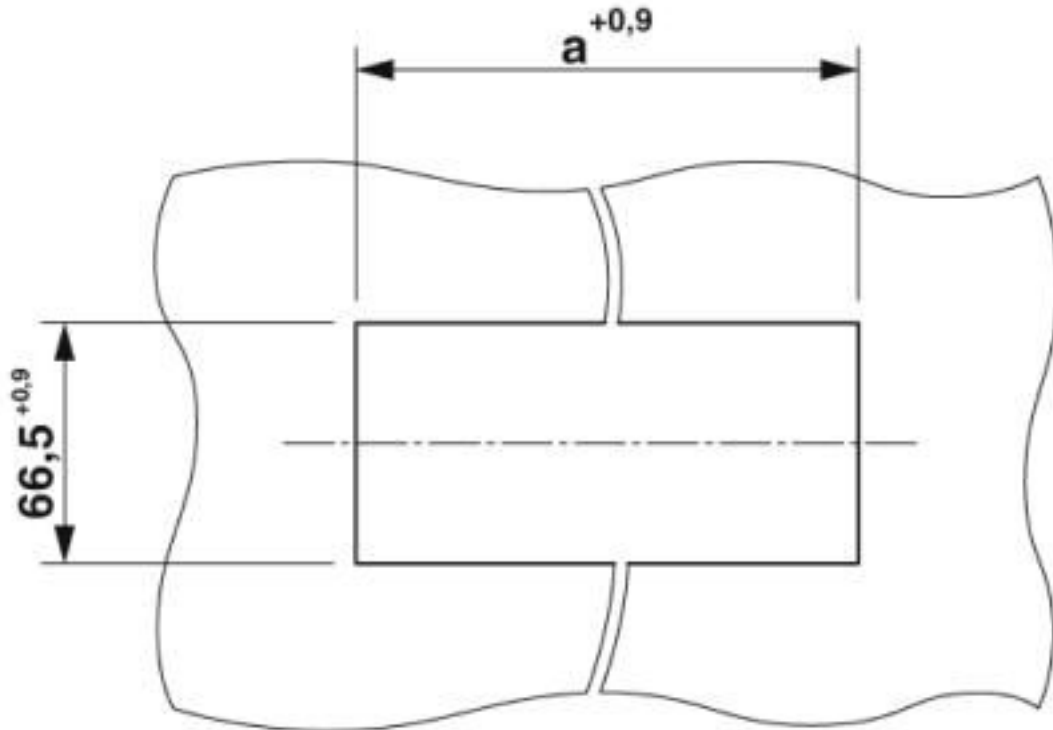
Environmental Product Compliance

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

Drawings

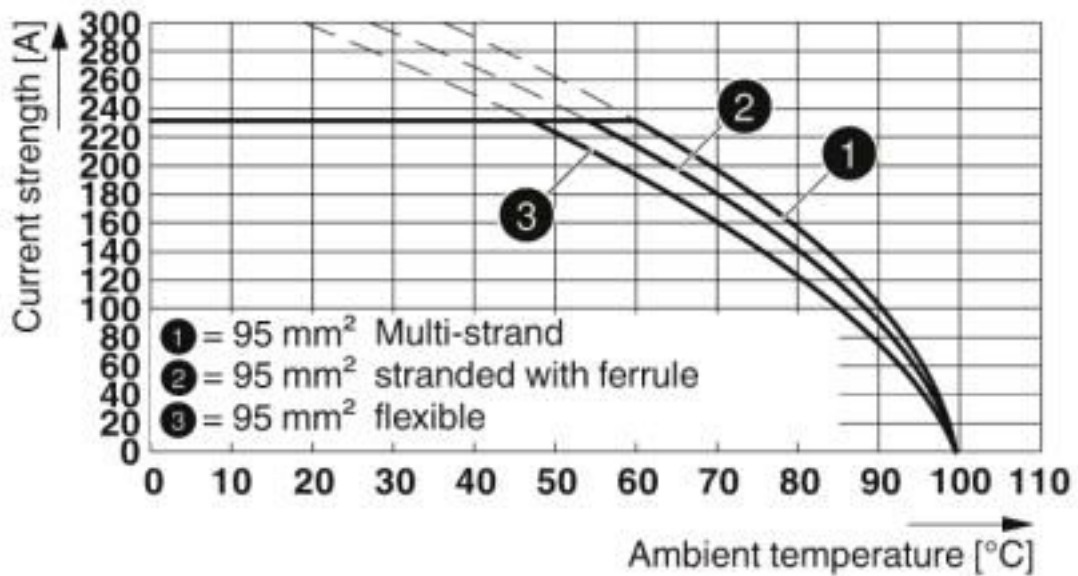
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Drilling diagram



Dimension a = 113 mm

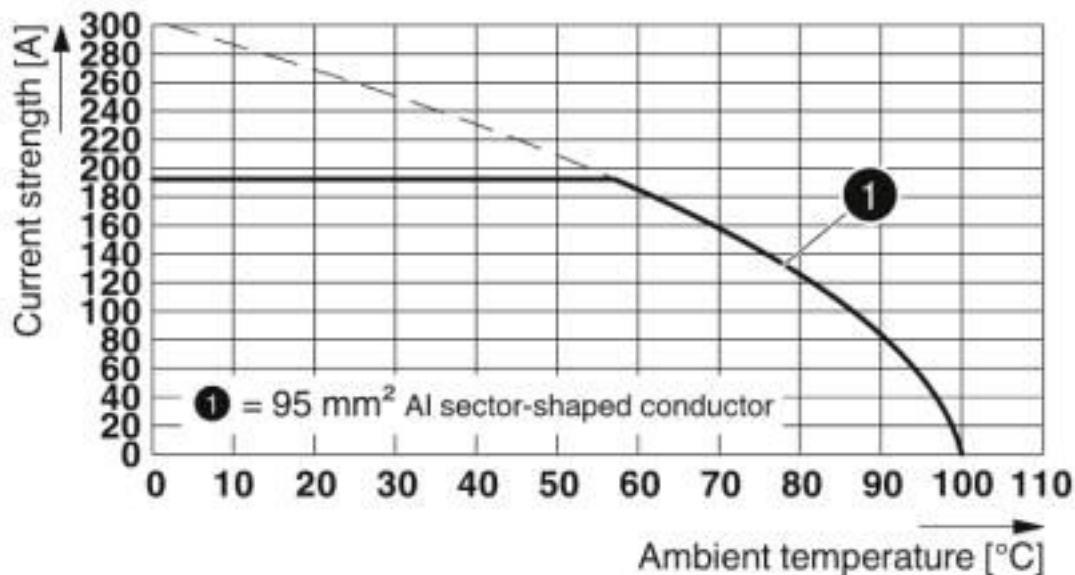
Diagram



Type: TW 95/...-CL

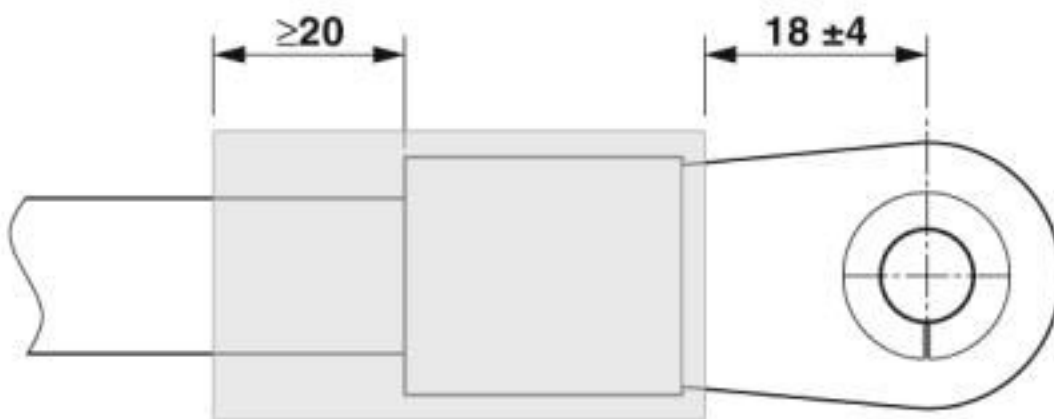
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Diagram



Type: TW 95/...-CL

Dimensional drawing



Electric strength > 19.7 kV/mm (IEC243), min. Wall thickness, fully shrunk ≥ 0.5 mm

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 |

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Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 9.0 | 27141134 |
|------------|----------|

ETIM

| | |
|----------|----------|
| ETIM 5.0 | EC001283 |
| ETIM 6.0 | EC001283 |
| ETIM 7.0 | EC001283 |

UNSPSC

| | |
|-------------|----------|
| UNSPSC 13.2 | 39121410 |
| UNSPSC 18.0 | 39121410 |
| UNSPSC 19.0 | 39121410 |
| UNSPSC 20.0 | 39121410 |
| UNSPSC 21.0 | 39121410 |

Approvals

Approvals

Approvals

VDE Zeichengenehmigung / cULus Recognized / EAC

Ex Approvals

Approval details

| | | | |
|----------------------------|--------|---|----------|
| VDE Zeichengenehmigung | | http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx | 40045667 |
| Nominal voltage UN | 1000 V | | |
| Nominal current IN | 232 A | | |
| mm ² /AWG/kcmil | 25-95 | | |

| | | | |
|----------------------------|-------|---|-----------------|
| cULus Recognized | | http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm | E60425-20160914 |
| | C | | |
| Nominal voltage UN | 600 V | | |
| Nominal current IN | 200 A | | |
| mm ² /AWG/kcmil | 4 | | |

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Approvals

| | | |
|-----|--|---------|
| EAC | | B.01687 |
|-----|--|---------|

Accessories

Accessories

Labeled terminal marker

Zack Marker strip, flat - ZBF 19,7 CUS - 0825021



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: 19.7 mm, lettering field size: 5.15 x 19.7 mm, Number of individual labels: 5

Zack marker strip - ZB 18,LGS:L1-N,PE - 0811846



Zack marker strip, Strip, white, labeled, printed horizontally: L1, L2, L3, N, PE, mounting type: snap into tall marker groove, for terminal block width: 18 mm, lettering field size: 10.5 x 17.4 mm, Number of individual labels: 5

Zack marker strip - ZB 18 CUS - 0824947



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 18 mm, lettering field size: 10.5 x 17.4 mm, Number of individual labels: 5

Screwdriver tools

Philips screwdriver - SZK PZ2 VDE - 1206463



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

Terminal marking

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Accessories

Zack marker strips off the roll, flat - ZBF 19,7:UNBEDRUCKT - 0810627



Zack marker strips off the roll, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 19.7 mm, lettering field size: 19.7 x 5.2 mm, Number of individual labels: 5

Zack marker strip - ZB 18:UNBEDRUCKT - 0811833



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: 18 mm, lettering field size: 10.5 x 17.4 mm, Number of individual labels: 5

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