

# TW 95/ 3-CL - Panel feed-through terminal block



1708754

<https://www.phoenixcontact.com/us/products/1708754>

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Panel feed-through terminal block, connection method: T-LOX knee lever connection, Cable lug connection, number of positions: 3, load current: 232 A, connection direction of the conductor to plug-in direction: 0 °, width: 97 mm

## 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

## Commercial data

Item number	1708754
Packing unit	5 pc
Minimum order quantity	5 pc
Sales key	AA28
Product key	AA1GFA
GTIN	4055626020396
Weight per piece (including packing)	679.6 g
Weight per piece (excluding packing)	679 g
Customs tariff number	85369010
Country of origin	PL

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## Technical data

### Product properties

Product type	Panel feed-through terminal block
Product family	TW 95/...-CL
Number of positions	3
Pitch	26 mm
Number of connections	6
Number of rows	1
Number of potentials	3

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Nominal current $I_N$	232 A
Nominal voltage $U_N$	1000 V
Degree of pollution	3
Rated voltage (III/3)	1000 V
Rated surge voltage (III/3)	8 kV
Rated voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
Rated voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV

## Connection data

### Connection technology

Connector system	TW 95
Nominal cross section	95 mm <sup>2</sup>

### Conductor connection exterior

Connection method	T-LOX knee lever connection
Connection direction of the conductor to plug-in direction	0 °
Single-conductor/terminal point multi-stranded	25 mm <sup>2</sup> ... 95 mm <sup>2</sup>
Conductor cross section flexible	25 mm <sup>2</sup> ... 95 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve	25 mm <sup>2</sup> ... 95 mm <sup>2</sup>
Conductor cross section, flexible, with ferrule, with plastic sleeve	25 mm <sup>2</sup> ... 95 mm <sup>2</sup>
Stripping length	25 mm

### Conductor connection interior

Connection method	Cable lug connection
Connection direction of the conductor to plug-in direction	0 °

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## Material specifications

### 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

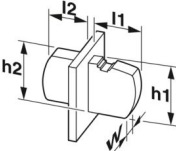
Color (Housing)	gray (7042)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2-13	775
Temperature for the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

## Notes

### Safety note

Safety note	<ul style="list-style-type: none"><li>• Only electrically qualified personnel may install and operate the product. To recognize and prevent danger, the qualified personnel must be familiar with the basics of electrical engineering.</li><li>• Observe the technical data provided here and refer to the documents listed under “Downloads”. The download area contains important information, such as installation notes, technical drawings, and 3D data.</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></ul>
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## Dimensions

Dimensional drawing	
Pitch	26 mm
Width [w]	97 mm
Height [h]	81.8 mm
Length [l]	120.05 mm

### External dimensions

Height [h1]	75.75 mm
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Length [l1]	52.9 mm
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## Internal dimensions

Height [h2]	65.6 mm
Length [l2]	67.15 mm

## Mechanical tests

### Test for conductor damage and slackening

Specification	IEC 60947-7-1:2009-04
Result	Test passed

### Pull-out test

Specification	IEC 60947-7-1:2009-04
Conductor cross section/conductor type/tractive force setpoint/actual value	25 mm <sup>2</sup> / solid / > 135 N
	25 mm <sup>2</sup> / flexible / > 135 N
	95 mm <sup>2</sup> / solid / > 351 N
	95 mm <sup>2</sup> / flexible / > 351 N
	25 mm <sup>2</sup> / flexible with ferrule / > 135 N
	95 mm <sup>2</sup> / flexible with ferrule / > 351 N

## Electrical tests

### Temperature-rise test

Specification	IEC 60947-7-1:2009-04 (following)
Requirement temperature-rise test	Increase in temperature ≤ 45 K

### Short-time withstand current

Specification	IEC 60947-7-1:2009-04
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### Air clearances and creepage distances | 1. Insulation coordination

Specification	IEC 60947-1:2007-06 + A1:2010-12
Insulating material group	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	1000 V
Rated surge voltage (III/3)	8 kV
minimum clearance value - non-homogenous field (III/3)	8 mm
minimum creepage distance (III/3)	12.5 mm
Rated insulation voltage (III/2)	1000 V
Rated surge voltage (III/2)	8 kV
minimum clearance value - non-homogenous field (III/2)	8 mm
minimum creepage distance (III/2)	8 mm
Rated insulation voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV
minimum clearance value - non-homogenous field (II/2)	5.5 mm
minimum creepage distance (II/2)	5.5 mm

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## Environmental and real-life conditions

### Vibration test

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

### Glow-wire test

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

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 100 °C (Depending on the current carrying capacity/derating curve)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C

## Packaging specifications

Type of packaging	packed in cardboard
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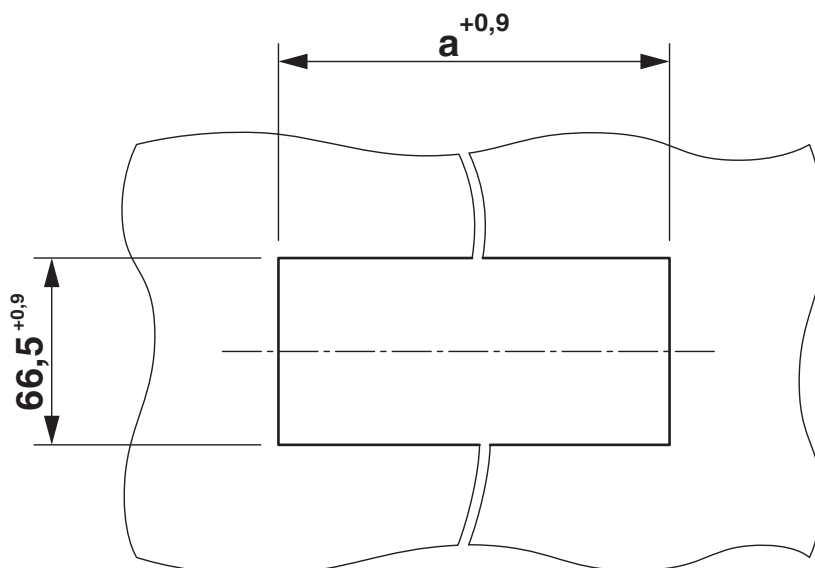


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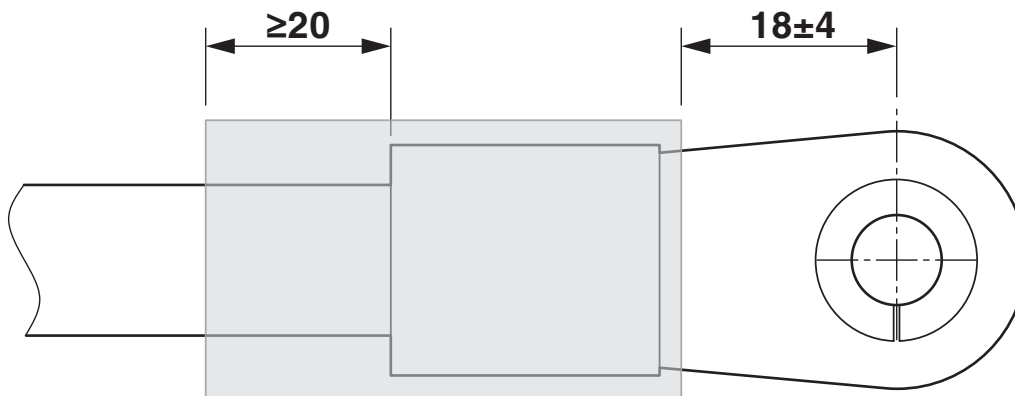
## Drawings

Drilling plan/solder pad geometry

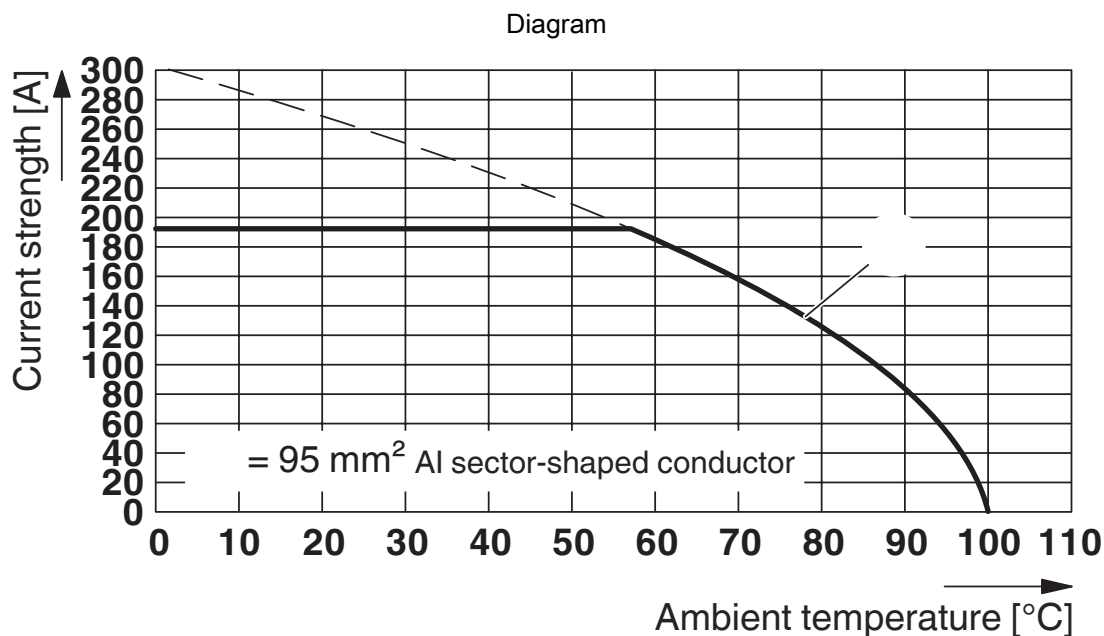


Dimension a = 87 mm

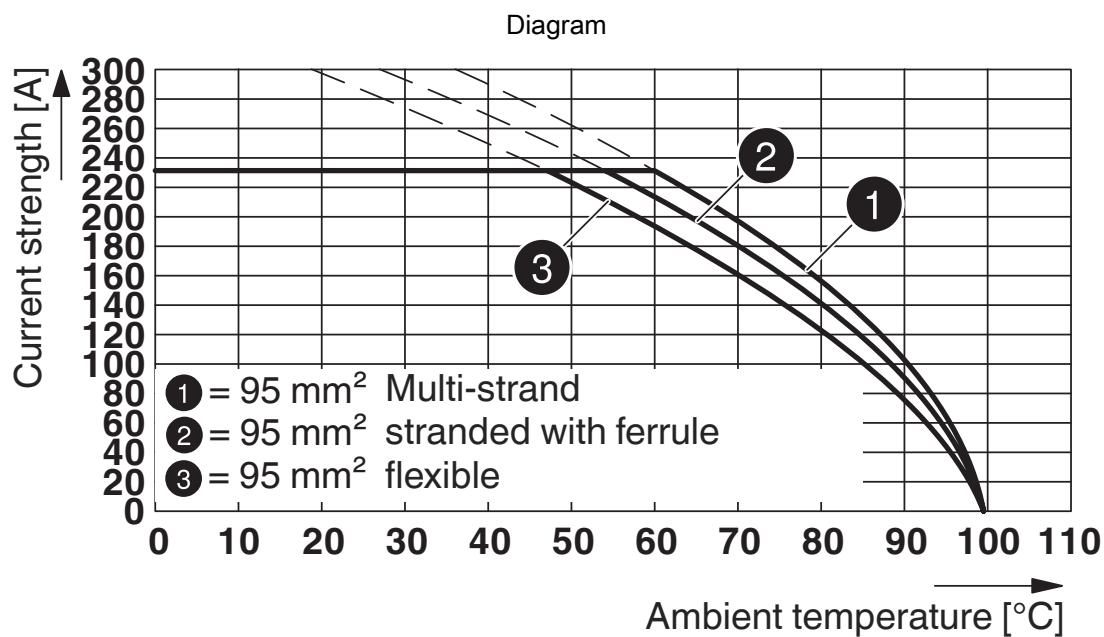
Dimensional drawing



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



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1708754>

 <b>cULus Recognized</b> Approval ID: E60425-20160914				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group C				
	600 V	200 A	4 - 3/0	-

 <b>VDE Zeichengenehmigung</b> Approval ID: 40045667				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	1000 V	232 A	-	25 - 95



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## Classifications

### ECLASS

ECLASS-11.0	27141134
ECLASS-12.0	27141134
ECLASS-13.0	27141134

### ETIM

ETIM 9.0	EC001283
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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## Accessories

### SZK PZ2 VDE - Screwdriver

1206463

<https://www.phoenixcontact.com/us/products/1206463>



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

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

0810627

<https://www.phoenixcontact.com/us/products/0810627>



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

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

0825021

<https://www.phoenixcontact.com/us/products/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

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## ZB 18:UNBEDRUCKT - Zack marker strip

0811833

<https://www.phoenixcontact.com/us/products/0811833>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 18 mm, lettering field size: 10.5 x 17.4 mm, Number of individual labels: 5

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

0811846

<https://www.phoenixcontact.com/us/products/0811846>



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

## ZB 18 CUS - Zack marker strip

0824947

<https://www.phoenixcontact.com/us/products/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

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)