TW 95/ 5-CL - Panel feed-through terminal block

1708756

https://www.phoenixcontact.com/us/products/1708756

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Figure shows the standard item

Panel feed-through terminal block, connection method: T-LOX knee lever connection, Cable lug connection, number of positions: 5, load current: 232 A, connection direction of the conductor to plug-in direction: 0 °, width: 149 mm, color: gray

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	1708756
Packing unit	5 pc
Minimum order quantity	5 pc
Note	Made to order (non-returnable)
Sales key	AA28
Product key	AA1GFA
GTIN	4055626020419
Weight per piece (including packing)	1,085.2 g
Weight per piece (excluding packing)	1,016.4 g
Customs tariff number	85369010
Country of origin	PL

Technical data

Product properties

Product type	Panel feed-through terminal block
Product family	TW 95/..-CL
Number of positions	5
Pitch	26 mm
Number of connections	10
Number of rows	1
Number of potentials	5

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Fitting of components

Partial assembly	No

Electrical properties

Properties

Nominal current I_N	232 A
Nominal voltage U_N	1000 V
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 mm²

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 mm² ... 95 mm²
Conductor cross-section flexible	25 mm² ... 95 mm²
Conductor cross-section, flexible, with ferrule, without plastic sleeve	25 mm² ... 95 mm²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	25 mm² ... 95 mm²
Stripping length	25 mm

Conductor connection interior

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

Mounting

Panel thickness	1 mm...5 mm

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

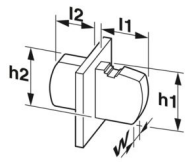
Color (Housing)	gray (7042)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2-13	775
Temperature for the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

Notes

Safety note

Safety note	• 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.
	• 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.
	• 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.

Dimensions

Dimensional drawing	

Pitch	25 mm
	25 mm
Width [w]	149 mm

External dimensions

Height [h1]	81.8 mm
Length [l1]	50.9 mm

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 mm² / solid / > 135 N
	25 mm² / flexible / > 135 N
	95 mm² / solid / > 351 N
	95 mm² / flexible / > 351 N
	25 mm² / flexible with ferrule / > 135 N
	95 mm² / 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

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

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
Test directions	X-, Y- and Z-axis

Glow-wire test

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

Ambient conditions

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

Ambient conditions

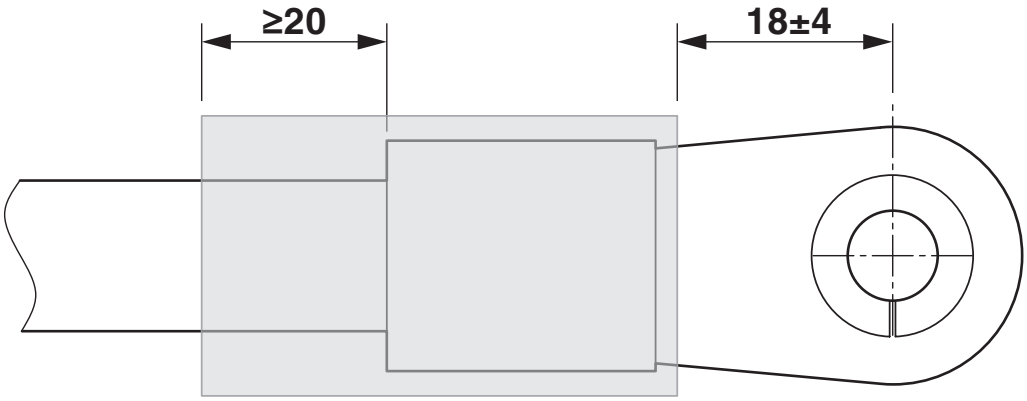
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Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C

Packaging specifications

Type of packaging	packed in cardboard

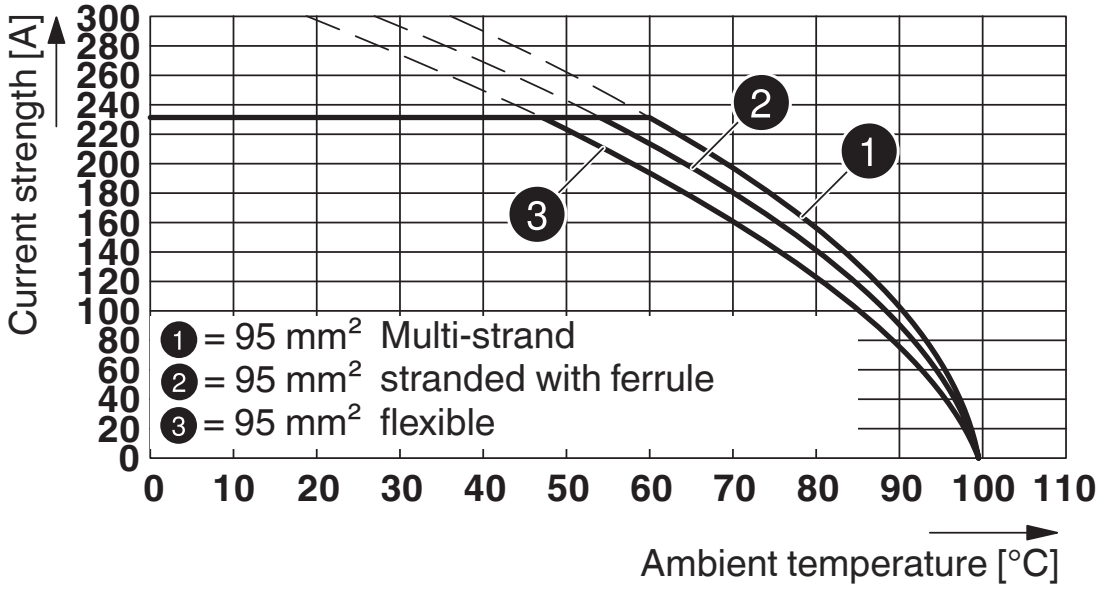
Drawings

Dimensional drawing



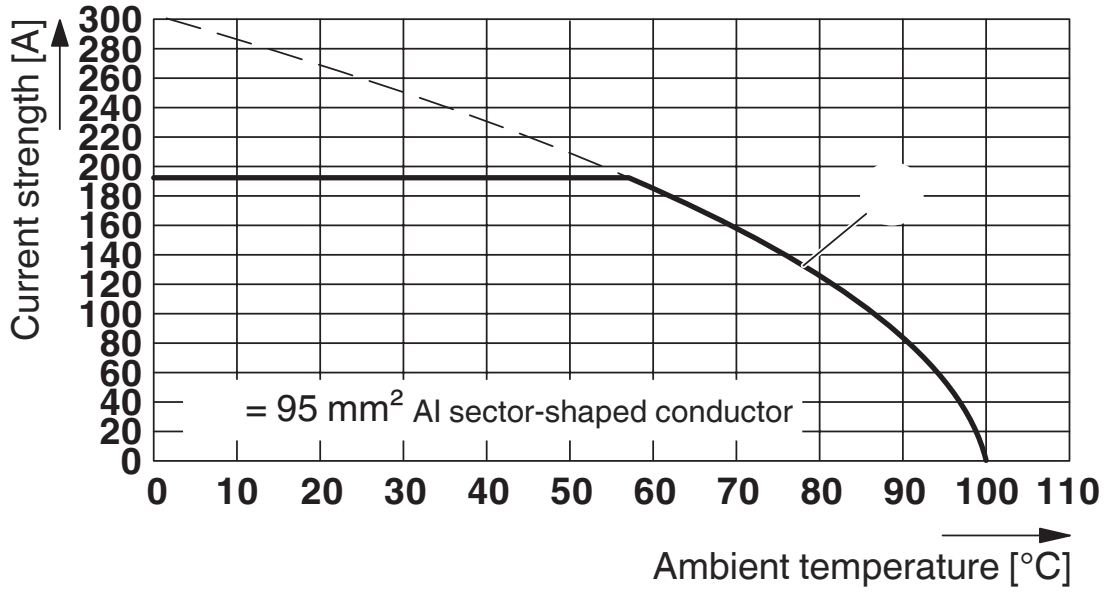
Electric strength > 19.7 kV/mm (IEC243), min. Wall thickness, fully shrunk ≥ 0.5 mm

Diagram



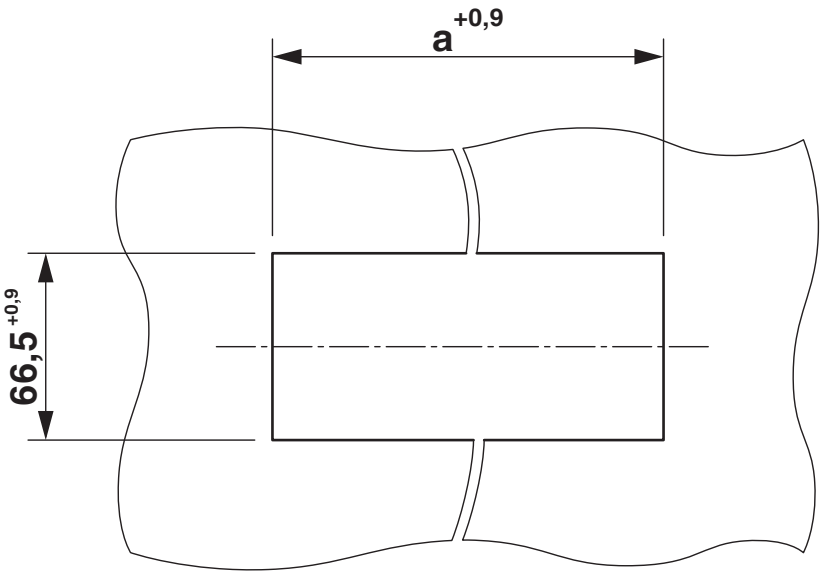
Type: TW 95/...-CL

Diagram



Type: TW 95/...-CL

Drilling plan/solder pad geometry



Dimension a = 139 mm

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1708756

cULus Recognized
Approval ID: E60425-20160914

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
C				
	600 V	200 A	4 - 3/0	-

VDE approval of drawings
Approval ID: 40045667

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	1000 V	232 A	-	25 - 95

Classifications

ECLASS

ECLASS-13.0	27141134
ECLASS-15.0	27141134

ETIM

ETIM 10.0	EC001283

UNSPSC

UNSPSC 21.0	39121400

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%

EF3.1 Climate Change

CO2e kg	21.757 kg CO2e

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