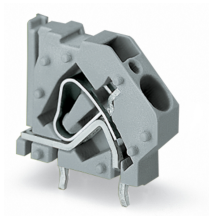


Data Sheet | Item Number: 745-831/999-950

Stackable PCB terminal block; 6 mm²; Pin spacing 7.5 mm; 1-pole; suitable for Ex-e applications; CAGE CLAMP®; commoning option; 6,00 mm²; gray

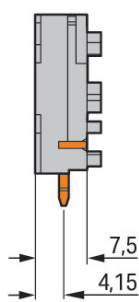
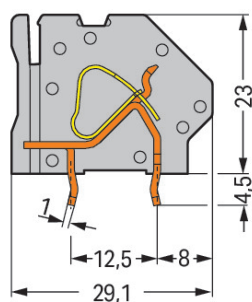
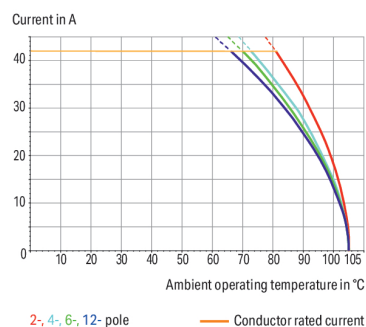
<https://www.wago.com/745-831/999-950>



Color: ■ gray

Similar to illustration

Current-Carrying Capacity Curve
Pin spacing: 7.5 mm / Conductor cross-section: 6 mm² "f-st"
Based on: EN 60512-5-2 / Reduction factor: 1



Dimensions in mm

PCB terminal block, 745 Series, CAGE CLAMP®

Easily, quickly and safely connect conductors with this PCB terminal block (item number 745-831/999-950). It offers the flexibility needed for different mounting types. Strip lengths must be between 11 and 12 mm when connecting conductors to this PCB terminal block. This product features one conductor terminal and utilizes CAGE CLAMP®. Our trusted universal connection known as CAGE CLAMP® is the industry standard when it comes to connection technology and electrical interconnections. The item's dimensions are (9 x 27.5 x 29.1) mm (width x height x depth). Depending on the type of conductor, this PCB terminal block is suitable for conductor cross sections ranging from 0.2 mm² to 6 mm².

Tin is used for coating the contact surfaces. This PCB terminal block is operated with an operating tool. The PCB terminal block is designed for THT soldering. The conductor is designed to be inserted into the board at a 45° angle..



Electrical data

Ex information	
Ratings per	ATEX: PTB 06 ATEX 1061 U / IECEx: PTB 06.0042 U
Rated voltage EN (Ex e II)	275 V
Rated current (Ex e II)	37 A
Rated current (Ex e II) with jumper	31 A

Connection Data

Clamping units	1	Connection 1	
Total number of potentials	1	Connection technology	CAGE CLAMP®
Number of connection types	1	Actuation type	Operating tool
Number of levels	1	Solid conductor	0.2 ... 6 mm² / 24 ... 10 AWG
Number of jumper slots	1	Fine-stranded conductor	0.2 ... 4 mm² / 24 ... 12 AWG
		Fine-stranded conductor; with insulated ferrule	0.25 ... 4 mm²
		Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm²
		Strip length	11 ... 12 mm / 0.43 ... 0.47 inches
		Conductor connection direction to PCB	45 °
		Pole number	1

Physical data

Pin spacing	7.5 mm / 0.295 inches
Width	9 mm / 0.354 inches
Height	27.5 mm / 1.083 inches
Height from the surface	23 mm / 0.906 inches
Depth	29.1 mm / 1.146 inches
Solder pin length	4.5 mm
Solder pin dimensions	1 x 1.4 mm
!	1.5 ^(+0.1) mm

PCB contact

PCB contact	THT
Solder pin arrangement	over the entire terminal strip (in-line)
Number of solder pins per potential	2

Material data

Note (material data)	Information on material specifications can be found here
Color	gray
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E _{Cu})
Contact Plating	Tin
Fire load	0.073 MJ
Weight	4.8 g



Environmental requirements	
Limit temperature range	-60 ... +105 °C

Commercial data	
Product Group	4 (Printed Circuit Connectors)
PU (SPU)	100 (50) pcs
Packaging type	Box
Country of origin	PL
GTIN	4066966614732
Customs tariff number	85369010000

Product Classification	
UNSPSC	39121409
ETIM 9.0	EC002643
ETIM 10.0	EC002643
ECCN	NO US CLASSIFICATION

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates			
Declarations of conformity and manufacturer's declarations			Approvals for hazardous areas
Approval	Standard	Certificate Name	
ATEX-Attestation of Conformity WAGO GmbH & Co. KG	-	-	
Approval	Standard	Certificate Name	
ATEX Physikalisch Technische Bundesanstalt (PTB)	EN 60079	PTB 06 ATEX 1014 U (II 2 G Ex eb IIC Gb bzw. I M 2 Ex eb I Mb)	
CCC CNEX	GB/T 3836.3	2020312313000272 (Ex eb IIC Gb, Ex eb I Mb)	
IECEx Physikalisch Technische Bundesanstalt	IEC 60079	IECEx PTB 06.0039 U (Ex e IIC Gb or Ex e I Mb)	

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 745-831/999-950	

Documentation

Additional Information

Technical Section	03.04.2019	pdf 2027.26 KB	
-------------------	------------	-------------------	---

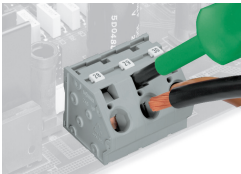
CAD/CAE-Data

PCB Design

Symbol and Footprint via SamacSys 745-831/999-950	
Symbol and Footprint via Ultra Librarian 745-831/999-950	

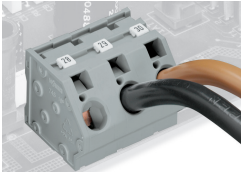
Installation Notes

Conductor termination



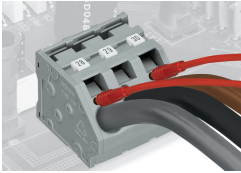
Inserting/removing a conductor via 5.5 mm screwdriver – 745 Series, 16 mm².

Marking



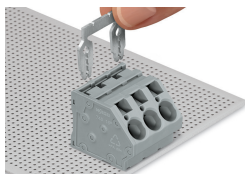
Marking via Mini-WSB and WMB markers or factory direct marking – 745 Series.

Testing

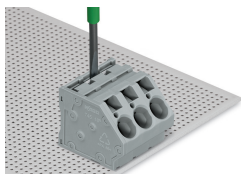


Testing with test plug – 745 Series.

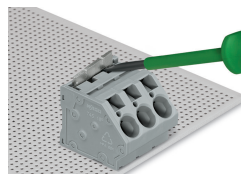
Commoning



Inserting a comb-style jumper bar.



To insert a comb-style jumper bar, push it down using a screwdriver until it hits the backstop – 745 Series.



To remove the jumper bar, lift it up using a screwdriver – 745 Series.