

Data Sheet | Item Number: 745-837/999-950

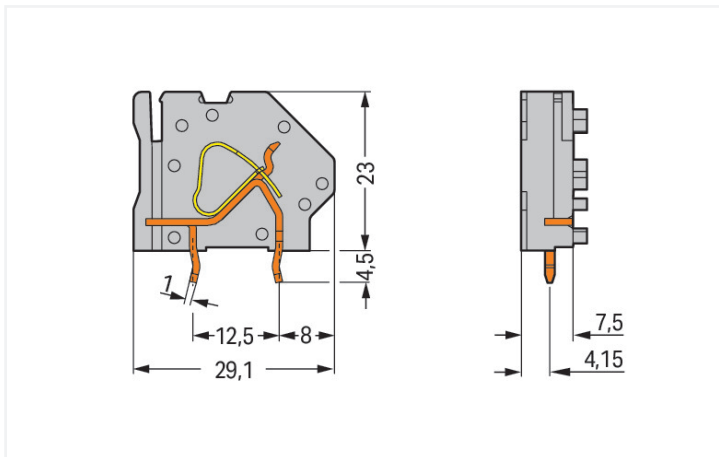
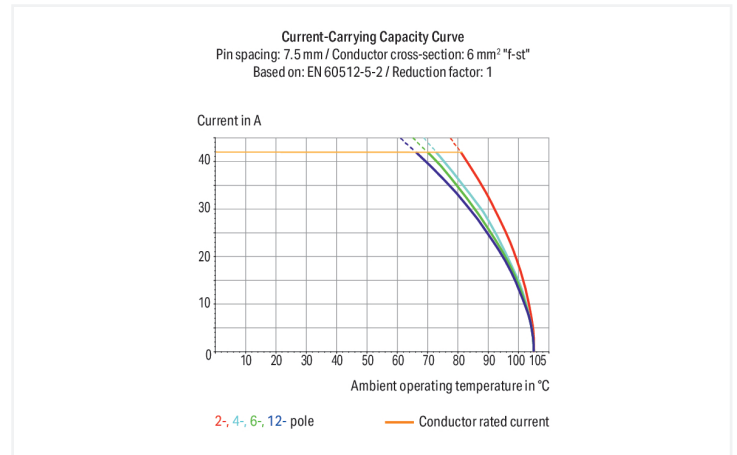
Stackable PCB terminal block; 6 mm²; Pin spacing 7.5 mm; 1-pole; suitable for Ex-e applications; CAGE CLAMP®; commoning option; 6,00 mm²; green-yellow

<https://www.wago.com/745-837/999-950>



Color: ■ green-yellow

Similar to illustration



Dimensions in mm

PCB terminal block, 745 Series, 45 °conductor entry to board

Our PCB terminal block (item number 745-837/999-950) is the perfect way to connect conductors quickly and securely. It is a universal connector that can be used almost anywhere, for example, as a pluggable PCB connector, panel feedthrough header, connector for rail-mount terminal blocks, or a floating connector for different mounting methods. 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 reliable and maintenance-free CAGE CLAMP® connection makes it easy to connect all conductor types without having to prepare the conductor. For example, you don't need to crimp ferrules. The dimensions are (9 x 27.5 x 29.1) mm (width x height x depth). Depending on the conductor type, this PCB terminal block is designed for conductor cross sections ranging from 0.2 mm² to 6 mm².

Tin is used for coating the contact surfaces. An operating tool is used to operate this PCB terminal block. The PCB terminal block is designed for THT soldering. Insert the conductor into the board at an angle of 45°..



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
Drilled hole diameter with tolerance	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	green-yellow
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	0.071 MJ
Weight	4.7 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	4066966614763
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

General approvals			Declarations of conformity and manufacturer's declarations		
					
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
CSA DEKRA Certification B.V.	C22.2 No. 158	1604421	ATEX-Attestation of Con- formity WAGO GmbH & Co. KG	-	-

Approvals for hazardous areas

  		
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	745-837/999-950		

Documentation

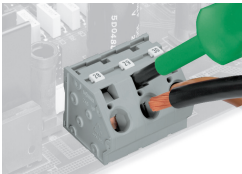
Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	

CAD/CAE-Data

PCB Design			
Symbol and Footprint via SamacSys	745-837/999-950		
Symbol and Footprint via Ultra Librarian	745-837/999-950		

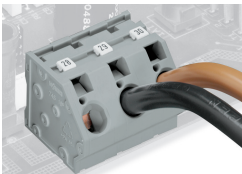
Installation Notes

Conductor termination



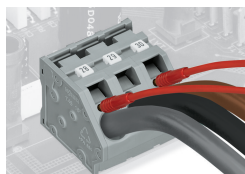
Inserting/removing a conductor via 5.5 mm screwdriver – 745 Series, 16 mm².

Marking



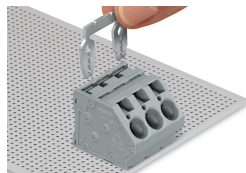
Marking via Mini-WSB and WMB markers or factory direct marking – 745 Series.

Testing

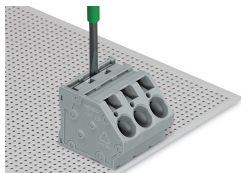


Testing with test plug – 745 Series.

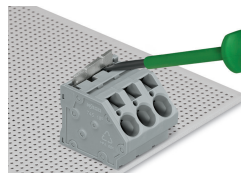
Commoning



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.