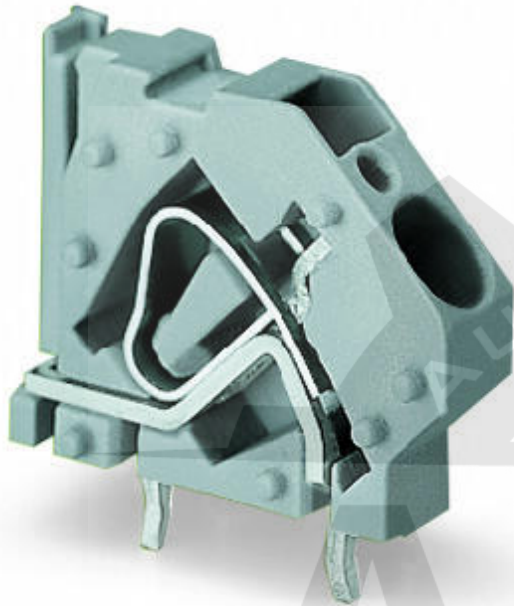# Data sheet | Item number: 745-831/999-950

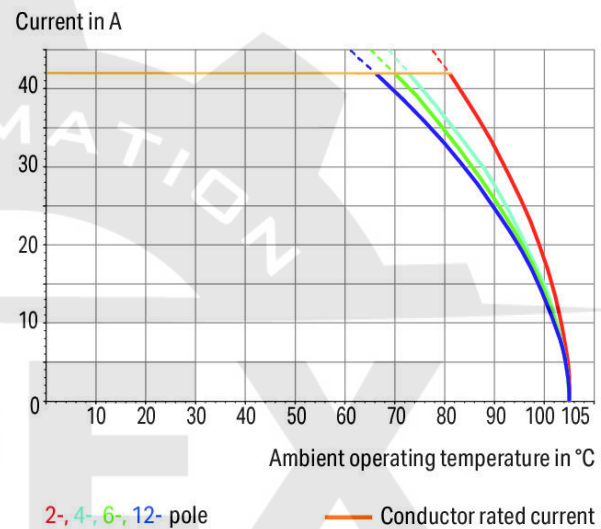Stackable PCB terminal block; 6 mm²; Pin spacing 7.5 mm; 1-pole; suitable
for Ex-e applications; CAGE CLAMP®; commoning option; 6,00 mm²; gray
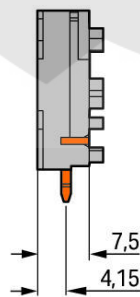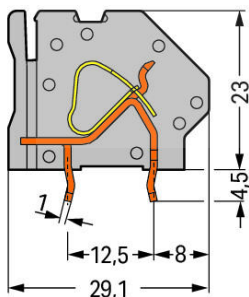
www.wago.com/745-831_999-950

ⓘ Picture differs from the item.

Color:

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

Current in A

Ambient operating temperature in °C

2-, 4-, 6-, 12- pole   Conductor rated current

Subject to changes. Please also observe the further product documentation!

Do you have any questions about our products?
We are always happy to take your call at (262) 255-6222 or 1 800-DIN-
RAIL.

Item description

- Modular terminal blocks with screwdriver-actuated CAGE CLAMP® for custom terminal strip assemblies
- Versions with Ex approval
- Common and distribute potentials via comb-style jumper bars
- Double solder pins for high mechanical stability
- Integrated testing tap
- Marker slot for Mini-WSB markers

Data
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

Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Solid conductor	0.2 … 6 mm² / 24 … 10 AWG
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 inch
Conductor connection direction to PCB	45 °
Pole No.	1
Total number of connection points	1
Total number of potentials	1
Number of connection types	1
Number of levels	1
Number of jumper slots	1

Subject to changes. Please also observe the further product documentation!

Physical data

Pin spacing	7.5 mm / 0.295 inch
Width	9 mm / 0.354 inch
Height	27.5 mm / 1.083 inch
Height from the surface	23 mm / 0.906 inch
Depth	29.1 mm / 1.146 inch
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

Color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Electrolytic copper (E_{Cu})
Contact plating	tin-plated
Fire load	0.073 MJ
Weight	4.8 g

Environmental requirements

Limit temperature range	-60 … +105 °C

Commercial data

Product Group	4 (Printed Circuit)
Packaging type	BOX
Country of origin	PL
GTIN	4045454548797

Subject to changes. Please also observe the further product documentation!

Customs tariff number	8536904000

Approvals / Certificates

Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ATEx Physikalisch Technische Bundesanstalt (PTB)	EN 60079	PTB 06 ATEX 1014 U (II 2 G Ex e II)
	IECEx Physikalisch Technische Bundesanstalt	IEC 60079	IECEx PTB 06.0039 U

Downloads
Documentation

Additional Information

Technical explanations	Apr 3, 2019	pdf 2.0 MB	Download

CAD files

PCB Design

Symbol and Footprint 745-831/999-950	URL	Download

CAx data for your PCB design, consisting of "schematic symbols and PCB footprints",
allow easy integration of the WAGO component into your development environment.

Supported formats:

- Accel EDA 14 & 15
- Altium 6 to current version
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design Expedition 99 and 2000

Subject to changes. Please also observe the further product documentation!

WAGO Corporation
Germantown, WI 53022
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Email: info.us@wago.com | Web: www.wago.us

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- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

Environmental Product Compliance

Compliance Search

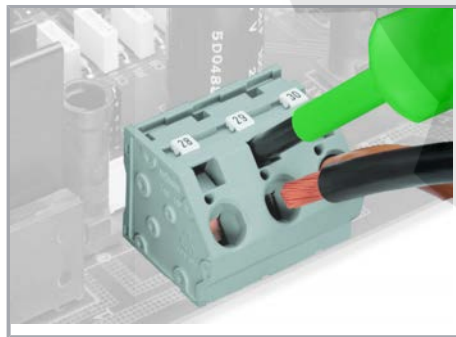|		
Environmental Product Compliance 745-831/999-950	URL	Download
Stackable PCB terminal block; 6 mm²; Pin spacing 7.5 mm; 1-pole; suitable for Ex-e applications; CAGE CLAMP®; commoning option; 6,00 mm²; gray		

Installation Notes

Conductor termination

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

Marking

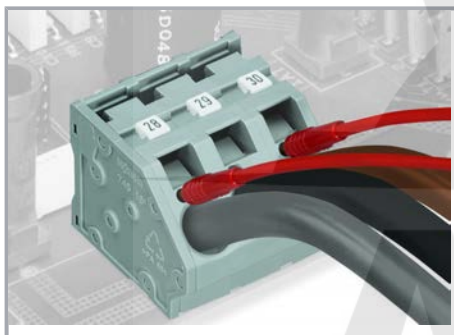Subject to changes. Please also observe the further product documentation!

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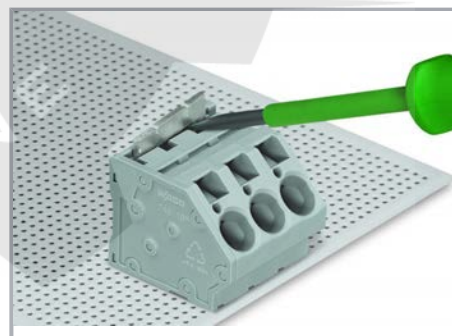
Testing

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.

Subject to changes. Please also observe the further product documentation!