

## Data sheet | Item number: 745-843/999-950

Stackable PCB terminal block; 6 mm<sup>2</sup>; Pin spacing 10 mm; 1-pole; suitable for Ex-e applications; CAGE CLAMP®; commoning option; 6,00 mm<sup>2</sup>; light gray



[www.wago.com/745-843/999-950](http://www.wago.com/745-843/999-950)

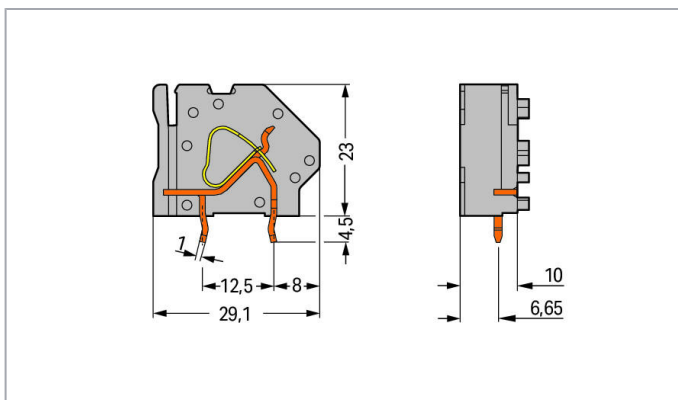
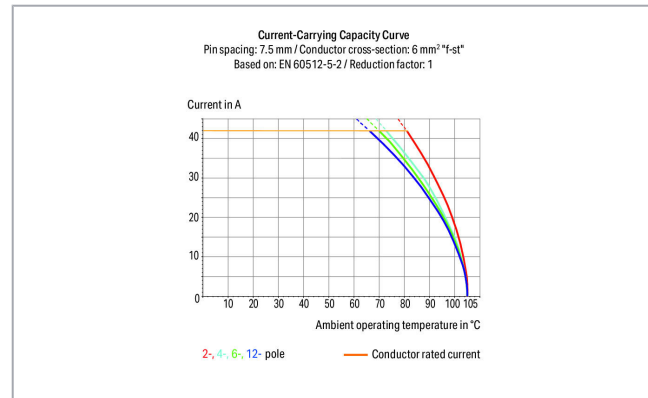


 Picture differs from the item.

RoHS  Compliant



Color: 



### 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

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

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- 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)	440 V
Rated current (Ex e II)	31 A

### Connection data

Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Solid conductor	0.2 ... 6 mm <sup>2</sup> / 24 ... 10 AWG
Fine-stranded conductor	0.2 ... 6 mm <sup>2</sup> / 24 ... 10 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 4 mm <sup>2</sup>
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 4 mm <sup>2</sup>
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

### Physical data

Pin spacing	10 mm / 0.394 inch
Width	11.5 mm / 0.453 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	1.8 <sup>(+0.1)</sup> mm

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## 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	light 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 <sub>Cu</sub> )
Contact plating	tin-plated
Fire load	0.097 MJ
Weight	5.6 g

## Environmental requirements


Limit temperature range	-60 ... +105 °C
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## Commercial data

Product Group	4 (Printed Circuit)
Packaging type	BOX
Country of origin	PL
GTIN	4050821387442
Customs tariff number	85369010000

## 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

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



## Downloads

### Documentation

#### Additional Information

Technical explanations	3. 4. 2019	pdf 2.0 MB	Download
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## CAD/CAE-Data

### PCB Design

Symbol and Footprint 745-843/999-950	URL	Download
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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
- 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

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

- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

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

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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 745-843/999-950

URL

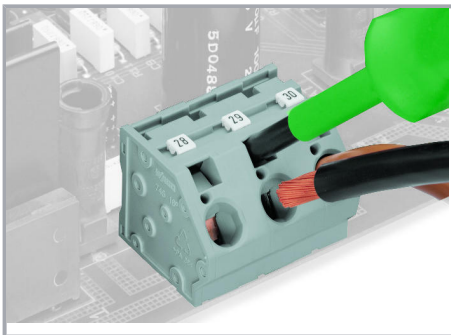
Download

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## Installation Notes

### Conductor termination



Inserting/removing a conductor via 5.5 mm screwdriver – 745 Series, 16 mm<sup>2</sup>.

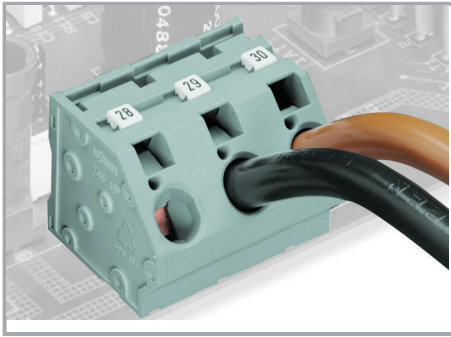
### Marking

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

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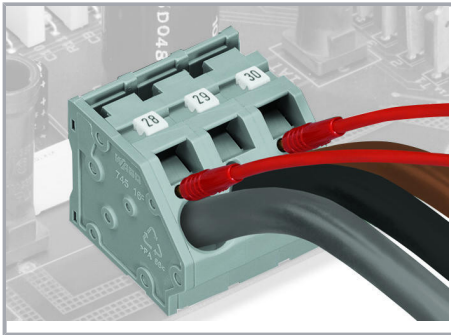
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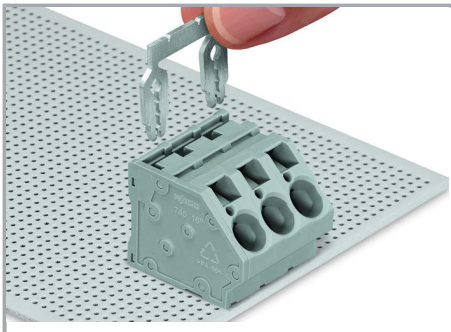
Marking via Mini-WSB and WMB markers or factory direct marking – 745 Series.

### Testing

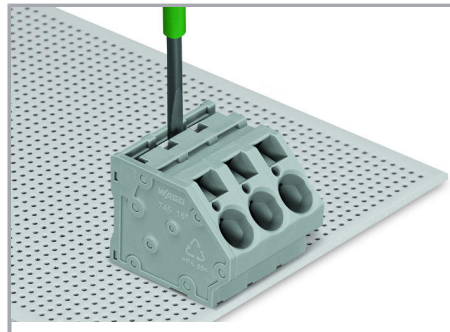


Testing with test plug – 745 Series.

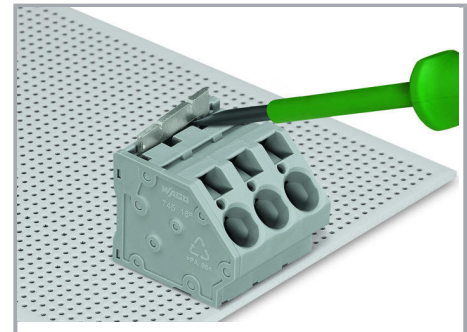
### Commoning



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.

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