Data sheet | Item number: 745-501/011-000

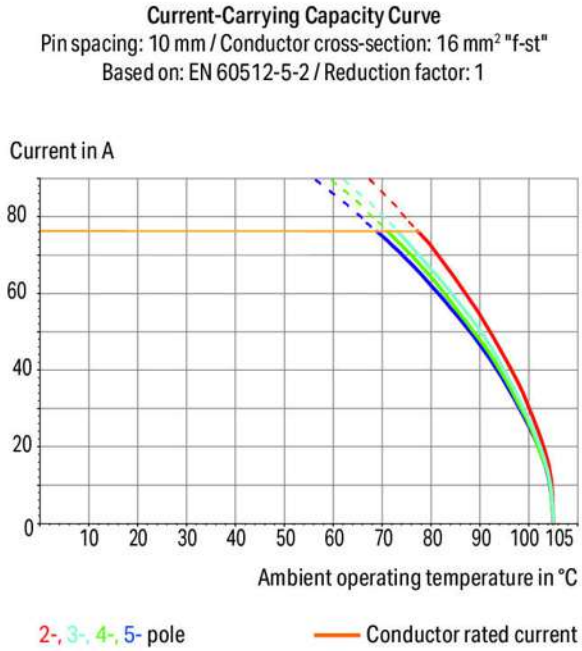
PCB terminal block; 16 mm²; Pin spacing 10 mm; 1-pole; CAGE CLAMP®; commoning option; 16,00 mm²; gray

www.wago.com/745-501_011-000

RoHS ✓ Compliant

BOMcheck.net

Color:



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

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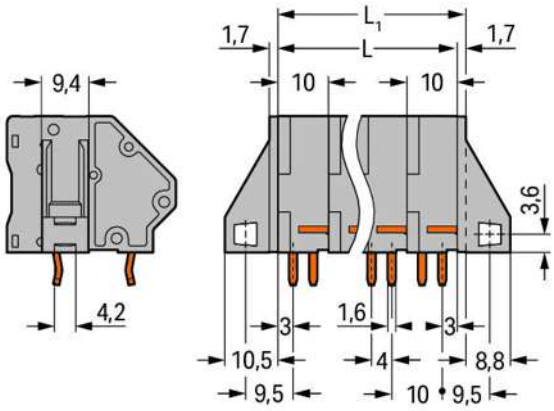

L = (pole no. − 1) x pin spacing + 10 mm

L_1 = L + 1.7 mm ≙ version **without** mounting flanges

Item description

- PCB terminal strips with screwdriver-actuated CAGE CLAMP® connection
- Versions with Ex approval
- Unrestricted UL approval up to 600 V with 20 mm pin spacing
- Common and distribute potentials via comb-style jumper bars
- Four solder pins for high mechanical stability
- Integrated testing tap
- Marker slot for Mini-WSB markers

Data

Electrical data

Ratings per IEC/EN 60664-1

Ratings per	IEC/EN 60664-1
Rated voltage (III / 3)	320 V
Rated impulse voltage (III / 3)	4 kV
Rated voltage (III / 2)	250 V
Rated impulse voltage (III / 2)	4 kV
Rated voltage (II / 2)	630 V

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Rated impulse voltage (II / 2)	4 kV
Rated current	76 A
Legend (ratings)	(III / 2) ≙ Overvoltage category III / Pollution degree 2

Approvals per UL 1059

Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	10 A
Rated voltage UL (Use Group D)	300 V
Rated current UL (Use Group D)	10 A
Approvals per	UL 1059

Approvals per CSA

Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	10 A
Rated voltage CSA (Use Group D)	300 V
Rated current CSA (Use Group D)	10 A

Connection data

Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Solid conductor	0,2 … 16 mm² / 24 … 6 AWG
Fine-stranded conductor	0,2 … 16 mm² / 24 … 6 AWG
Fine-stranded conductor with ferrule with plastic collar	0,25 … 10 mm²
Fine-stranded conductor with ferrule without plastic collar	0,25 … 10 mm²
Strip length	5 … 6 mm / 0.2 … 0.24 inch
Conductor entry angle to the PCB	45 °
No. of poles	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

Geometrical Data

Pin spacing	10 mm / 0.394 inch
Width	31 mm / 1.22 inch

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Height	33,5 mm / 1.319 inch
Height from the surface	27 mm / 1.063 inch
Depth	33,4 mm / 1.315 inch
Solder pin length	6.5 mm
Solder pin dimensions	1,2 x 1,6 mm
Drilled hole diameter (tolerance)	2,2 $^{(+0,1)}$ mm

Mechanical data

Mounting type	Mounting flange
Type of mounting	Panel mounting

PCB contact

PCB contact	THT
Solder pin arrangement	over the entire terminal strip (in-line)
Number of solder pins per potential	4

Material Data

Color	gray
Material group	I
Insulating material	Polyamide 66 (PA 66)
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	0.237 MJ
Weight	12.6 g

Environmental Requirements

Limit temperature range	-60 … +105 °C

Commercial data

Product Group	4 (Printed Circuit)
Packaging type	BOX
Country of origin	PL
GTIN	4044918302814

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Customs Tariff No.	85369010000

Counterpart

Downloads

Documentation

Additional Information

Technical explanations	Apr 3, 2019	pdf 3.6 MB	Download

CAD/CAE-Data

CAD data

2D/3D Models 745-501/011-000	URL	Download

CAE data

EPLAN Data Portal 745-501/011-000	URL	Download

PCB Design

Symbol and Footprint 745-501/011-000 CAx data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.	URL	Download

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

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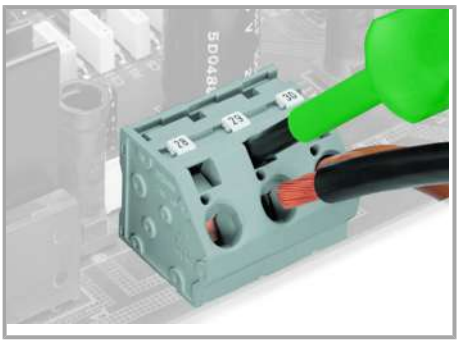
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

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

Installation Notes

Conductor termination

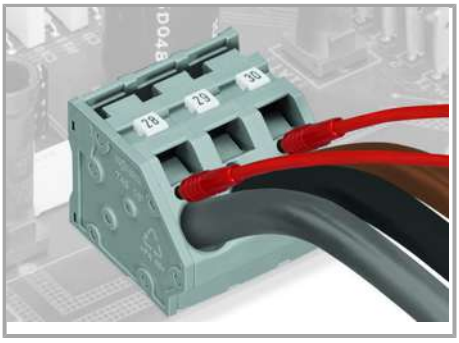


Inserting/removing a conductor via 5.5 mm screwdriver – 745 Series, 16 mm².

Marking

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

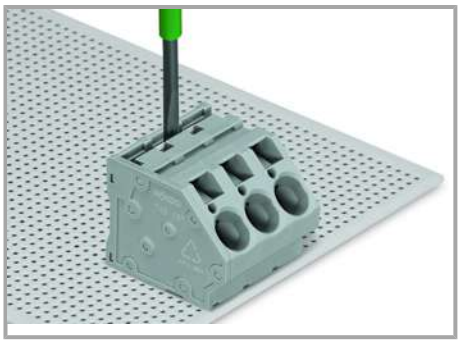
Testing



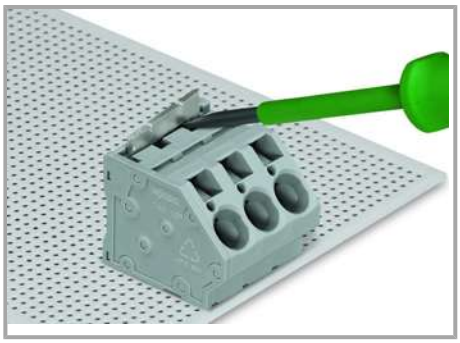
Testing with test plug – 745 Series.

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 comb-style jumper bar, lift it up using a screwdriver – 745 Series.

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