PCB terminal block; 0.5 mm²; Pin spacing 2.5 mm; 16-pole; CAGE CLAMP®; 0.50 mm^2 ; gray



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Color	

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L = (pole no. x pin spacing) + 2.3 mm

Item description

- Compact terminal strips with CAGE CLAMP® connection and screwdriver actuation parallel or perpendicular to conductor entry
- Double solder pins for high mechanical stability
- Custom color combinations

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

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Data Notes

Variants: Other pole numbers

Other colors

Mixed-color PCB connector strips

Direct marking

Other versions (or variants) can be requested from WAGO Sales or

configured at https://configurator.wago.com/.

Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	63 V
Rated impulse voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated impulse voltage (III/2)	2.5 kV
Nominal voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
Rated current	6 A
Legend (ratings)	(III / 2) ≙ Overvoltage category III / Pollution degree 2

Ratings per UL

Approvals per	UL 1059
Rated voltage UL (Use Group B)	150 V
Rated current UL (Use Group B)	4 A

Ratings per CSA

Approvals per	CSA
Rated voltage CSA (Use Group B)	150 V
Rated current CSA (Use Group B)	4 A

Connection data

Connection points	16
Total number of potentials	16
Number of connection types	1

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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Number of levels 1

Connection 1

Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Solid conductor	0.08 0.5 mm² / 28 20 AWG
Fine-stranded conductor	0.08 0.5 mm² / 28 20 AWG
Fine-stranded conductor; with insulated ferrule	0.25 mm ²
Fine-stranded conductor; with uninsulated ferrule	0.25 mm ²
Note (conductor cross-section)	Terminating 0.75 mm ² /18 AWG conductors is possible; however insulation diameter allows only every other clamping unit to be terminated with this conductor size.
Strip length	5 6 mm / 0.2 0.24 inches
Conductor connection direction to PCB	30 °
Pole number	16

Physical data

Pin spacing	2.5 mm / 0.098 inches
Width	42.3 mm / 1.665 inches
Height	15.7 mm / 0.618 inches
Height from the surface	11.7 mm / 0.461 inches
Depth	12.1 mm / 0.476 inches
Solder pin length	4 mm
Solder pin dimensions	0.5 x 0.75 mm
Drilled hole diameter with tolerance	1.1 ^(±0.1) mm

Plug-in connection

Plugging without loss of pin spacing

PCB contact

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

Material Data

Note (material data)

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Information on material specifications can be found here

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
Fire load	0.068 MJ
Weight	5.5 g

Environmental requirements

l imit temperature range	-60 +105 °C

Commercial data

Product Group	4 (Printed Circuit Connectors)
eCl@ss 10.0	27-44-04-01
eCl@ss 9.0	27-44-04-01
ETIM 8.0	EC002643
ETIM 7.0	EC002643
PU (SPU)	100 (25) pcs
Packaging type	box
Country of origin	СН
GTIN	4045454049294
Customs tariff number	85369010000

Environmental Product Compliance

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA	EN 60998	NTR NL
	DEKRA Certification B.V.		6946
	CCA	FN 60998	2153951 01

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	DEKRA Certification B.V.		
	CCA	EN 60947-7-4	NTR NL
	DEKRA Certification B.V.		7786
	CSA	C22.2	1465035
	DEKRA Certification B.V.		
	KEMA/KEUR	EN 60947-7-4	71-111040
	DEKRA Certification B.V.		
	UL	UL 1059	E45172
	UL International Germany GmbH		
Declaration	ns of conformity and manufacturer's declarations		
			Certificate
Logo	Approval	Additional Approval Text	name
	EU-Declaration of Conformity	-	-
	WAGO GmbH & Co. KG		

Approvals for	marine	applications
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UK-Declaration of Conformity WAGO GmbH & Co. KG

Logo	Approval	Additional Approval Text	Certificate name
	ABS	-	19-
	American Bureau of Shipping		HG1869876-
			PDA
	DNV GL	-	TAE000016Z
	Det Norske Veritas, Germanischer Lloyd		

Optional accessories

Ferrule

Ferrule		
	Item no.: 216-131	www.wogo.com/016_121
	Ferrule; Sleeve for 0.25 mm ² / AWG 24; uninsulated; electro-tin plated; silver-colored	www.wago.com/216-131
	Item no.: 216-151	
	Ferrule; Sleeve for 0.25 mm ² / AWG 24; uninsulated; electro-tin plated	www.wago.com/216-151
	Item no.: 216-301	
	Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored Item no.: 216-151 Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated Item no.: 216-301 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow Item no.: 216-321 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow	www.wago.com/216-301
	Item no.: 216-321	
	Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow	www.wago.com/216-321
arking acc	cessories	
Marking s	trip	

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	Item no.: 210-331/250-207 Marking strips; as a DIN A4 sheet; MARKED; 1-48 (100x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white	www.wago.com/210-331 /250-207
	Item no.: 210-331/250-202	
	Marking strips; as a DIN A4 sheet; MARKED; 1-16 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white	www.wago.com/210-331 /250-202
	Item no.: 210-331/254-204	
	Marking strips; as a DIN A4 sheet; MARKED; 17-32 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white	www.wago.com/210-331 /254-204
	Item no.: 210-331/250-204	
	Marking strips; as a DIN A4 sheet; MARKED; 17-32 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white	www.wago.com/210-331 /250-204
	Item no.: 210-331/254-206	
	Marking strips; as a DIN A4 sheet; MARKED; 33-48 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white	www.wago.com/210-331 /254-206
	Item no.: 210-331/250-206	www.waga.gom/210.221
	Marking strips; as a DIN A4 sheet; MARKED; 33-48 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white	www.wago.com/210-331 /250-206
	Item no.: 210-331/254-202	
	Marking strips; as a DIN A4 sheet; MARKED; 1-16 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white	www.wago.com/210-331 /254-202
	Item no.: 210-331/254-207	
	Marking strips; as a DIN A4 sheet; MARKED; 1-48 (100x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white	www.wago.com/210-331 /254-207
ool		
Operatin	g tool	
	Item no.: 210-648	www.wago.com/210-648
	Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short	g
	Item no.: 210-647	MANA MOGO COM/010 C47
	Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured	www.wago.com/210-647
	Item no.: 210-719	
	Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft	www.wago.com/210-719
	Item no.: 233-332	(000
	Operating tool; made of insulating material; white	www.wago.com/233-332
	Item no.: 233-331	
	Operating tool; insulated; yellow	www.wago.com/233-331
	Item no.: 233-335	/222
	Operating tool; green	www.wago.com/233-335

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PCB Design

Symbol and Footprint 233-116

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

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- 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 (lltra Librarian		
Environmental Product Compliance			
Compliance Search			
Environmental Product Compliance 233-116			Download
PCB terminal block; 0.5 mm²; Pin spacing 2.5 mm; 1 gray			
Installation Notes			
Conductor termination		_	

Inserting a conductor via 3.5 mm screwdriver.

Inserting a conductor via 3.5 mm screwdriver.

Screwdriver actuation parallel to conductor entry

Screwdriver actuation perpendicular to conductor entry

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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Data sheet | Item number: 233-116 www.wago.com/233-116



Inserting a conductor via operating tool.	Compared to standard screwdrivers, these operating tools are far more convenient for wiring PCB terminal strips at factory.	
Installation		
PCB Terminal Strips placed behind each other save space – staggering them by half the pin spacing simplifies subsequent wiring of the first row.		
Installation		
Combining PCB terminal blocks with different pin spacing.		
Marking		
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Optional: Labeling via factory direct marking.

Optional: Labeling with self-adhesive marking strips possible

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