PCB terminal block; 0.5 mm²; Pin spacing 2.54 mm; 24-pole; CAGE CLAMP®; 0,50 mm²; orange



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Picture differs from the item.	
Ficture differs from the item.	
	0-1
	Color:

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

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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	24
Total number of potentials	24
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	24

Physical data

Pin spacing	2.54 mm / 0.1 inches
Width	63.26 mm / 2.491 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	orange
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	0.124 MJ
Weight	8.3 g

Environmental requirements

Limit temperature range	-60 +105 °C
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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)	80 (20) pcs
Packaging type	box
Country of origin	CH
GTIN	4045454050191
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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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	71-1110
DEKRA Certification B.V.		
UL	UL 1059	E45172
UL International Germany GmbH		

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications

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

Marking accessories

Marking	strip	
	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	www.wago.com/210-331 /250-204

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	length 182 mm; Horizontal marking; Self-adhesive; white	
	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 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
ГооІ		
Operating	tool	
	Item no.: 210-648 Operating tool; Blade: 2.5×0.4 mm; with a partially insulated shaft; angled; short	www.wago.com/210-648
	Item no.: 210-647 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 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 Operating tool; green	www.wago.com/233-335
Ferrule		
Ferrule		
	Item no.: 216-131 Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored	www.wago.com/216-131
	Item no.: 216-151 Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated	www.wago.com/216-151
	Item no.: 216-301 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

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Downloads

Documentation

Additional Information

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 2.0 MB

CAD/CAE-Data

CAD data

2D/3D Models 233-424 URL Download

CAE data

EPLAN Data Portal 233-424 URL Download

ZUKEN Portal 233-424 URL Download

PCB Design

Symbol and Footprint 233-424 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
- 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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URL

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- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

Environmental Product Compliance 233-424

Screwdriver actuation parallel to conductor

entry

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

Environmental Product Compliance		
Compliance Search		

Screwdriver actuation perpendicular to

conductor entry

PCB terminal block; 0.5 mm²; Pin spacing 2.54 mm; 24-pole; CAGE CLAMP®; 0,50 mm²; orange

Conductor termination

Inserting a conductor via 3.5 mm screwdriver.

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Data sheet | Item number: 233-424 www.wago.com/233-424



Inserting a conductor via operating tool.	Compared to standard screwdrivers, these
	operating tools are far more convenient for wiring PCB terminal strips at factory.
	J
Installation	
PCB Terminal Strips placed behind each other	
save space – staggering them by half the pin	
spacing simplifies subsequent wiring of the first row.	
illstrow.	
Installation	
Installation	1
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

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

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