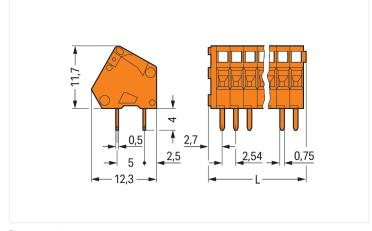
PCB terminal block; 0.5 mm²; Pin spacing 2.54 mm; 8-pole; CAGE CLAMP[®]; orange

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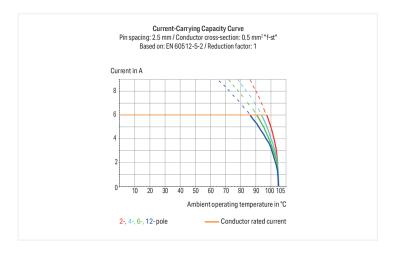






Color: ■ orange Similar to illustration

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



PCB terminal block, 233 Series, CAGE CLAMP®

Our PCB terminal block (item number 233-408) makes connections quick and easy. It is a universal connector that can be used practically anywhere, e. g., as a pluggable PCB connector, panel feedthrough header, connector for rail-mount terminal blocks, or a floating connector for different mounting methods. This PCB terminal block has a rated voltage of 160 V and can handle currents up to 6 A. Strip lengths must be between 5 mm and 6 mm when connecting conductors to this PCB terminal block. Featuring one conductor terminal along with CAGE CLAMP®, this product delivers reliable performance. Our reliable and maintenance-free CAGE CLAMP® connection makes it easy to connect all types of conductors without having to prepare the conductor. For example, you don't need to crimp ferrules. The dimensions are 22.62 x 15.7 x 12.1 mm (width x height x depth). This PCB terminal block is suitable for conductor cross sections ranging from 0.08 mm² to 0.5 mm². It features one level and eight clamping points that you can use to connect eight potentials / 8 poles. The clamping spring is made of chrome-nickel spring steel (CrNi), the orange housing is made of polyamide (PA66) for insulation, and the contacts are made of electrolytic copper (ECu). Tin is used for coating the contact surfaces. This PCB terminal block is operated with an operating tool. The PCB terminal block is designed for THT soldering. The conductor is designed to be inserted at a 30° angle. The solder pins, which are 0.5 x 0.75 mm in cross-section and 4 mm long, are set out over the entire terminal strip (in-line). There are two solder pins per potential.

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	IEG	C/EN 60664	-1
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	63 V	160 V	320 V
Rated surge voltage	2.5 kV	2.5 kV	2.5 kV
Rated current	6 A	6 A	6 A

Use group B C D Rated voltage 150 V	Approvals per		UL 1059	
Rated voltage 150 V	Use group	В	С	D
	Rated voltage	150 V	-	-
Rated current 4 A	Rated current	4 A	-	-

Approvals per		CSA	
Use group	В	С	D
Rated voltage	150 V	-	-
Rated current	4 A	_	-

Connection data				
Clamping units	8		Connection 1	
Total number of potentials	8		Connection technology	CAGE CLAMP®
Number of connection types	1		Actuation type	Operating tool
Number of levels	1		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 mm²/18 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	8		

Physical data	
Pin spacing	2.54 mm / 0.1 inches
Width	22.62 mm / 0.891 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

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

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Material data	
Note (material data)	
	Information on material specifications can be found here
Color	orange
Material group	
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	VO
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E _{Cu})
Contact Plating	Tin
Fire load	0.044 MJ
Weight	2.8 g

Environmental	radiliramante
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Limit temperature range -60 ... +105 °C

Commercial data	
Product Group	4 (Printed Circuit Connectors)
PU (SPU)	220 (55) pcs
Packaging type	Вох
Country of origin	СН
GTIN	4045454049997
Customs tariff number	85369010000

Product classification	
UNSPSC	39121409
eCl@ss 10.0	27-44-04-01
eCl@ss 9.0	27-44-04-01
ETIM 9.0	EC002643
ETIM 8.0	EC002643
ECCN	NO US CLASSIFICATION

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals









CC/1		
Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60998	NTR NL 6946
CCA DEKRA Certification B.V.	EN 60998	2153951.01
CCA DEKRA Certification B.V.	EN 60947-7-4	NTR NL 7786
CSA DEKRA Certification B.V.	C22.2	1465035
KEMA/KEUR DEKRA Certification B.V.	EN 60947-7-4	71-111040
UL UL International Germany GmbH	UL 1059	E45172

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

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Approvals for marine applications

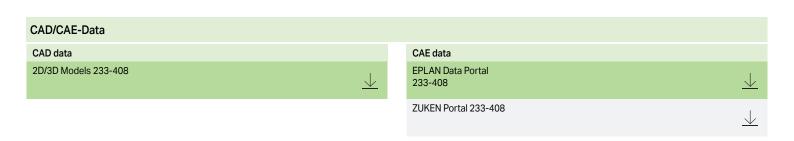


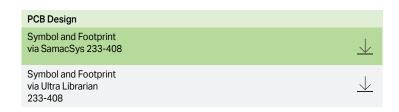


Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	19-HG1869876-PDA
DNV DNV GL SE	-	TAE000016Z

Downloads Environmental Product Compliance Compliance Search Environmental Product Compliance 233-408

Documentation			
Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	$\underline{\downarrow}$





https://www.wago.com/233-408



1 Compatible Products

1.1 Optional Accessories

1.1.1 Ferrule

1.1.1.1 Ferrule

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

Item No.: 216-151

Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated

Item No.: 216-131

Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored

1.1.2 Marking

1.1.2.1 Marking strip

Item No.: 210-331/250-202

Marking strips; as a DIN A4 sheet; MAR-KED; 1-16 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

Item No.: 210-331/254-202

Marking strips; as a DIN A4 sheet; MAR-KED; 1-16 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

Item No.: 210-331/250-207

Marking strips; as a DIN A4 sheet; MAR-KED; 1-48 (100x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

Item No.: 210-331/254-207

Marking strips; as a DIN A4 sheet; MAR-KED; 1-48 (100x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

Item No.: 210-331/250-204

Marking strips; as a DIN A4 sheet; MAR-KED; 17-32 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

Item No.: 210-331/254-204

Marking strips; as a DIN A4 sheet; MAR-KED; 17-32 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

Item No.: 210-331/250-206

Marking strips; as a DIN A4 sheet; MAR-KED; 33-48 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

Item No.: 210-331/254-206

Marking strips; as a DIN A4 sheet; MAR-KED; 33-48 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

1.1.3 Tool

1.1.3.1 Operating tool

Item No.: 210-719

Operating tool; Blade: 2.5×0.4 mm; with a partially insulated shaft

Item No.: 210-648

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short

Item No.: 210-647

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

Item No.: 233-335

Operating tool; green



Operating tool; insulated; yellow

Item No.: 233-332

Operating tool; made of insulating material; white

Installation Notes

Conductor termination



Inserting a conductor via 3.5 mm screwdriver.

Screwdriver actuation parallel to conductor entry



Inserting a conductor via 3.5 mm screwdriver.

Screwdriver actuation perpendicular to conductor entry



Inserting a conductor via operating tool.



Compared to standard screwdrivers, these operating tools are far more convenient for wiring PCB terminal strips at factory.

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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





Optional: Labeling via factory direct marking.

Optional: Labeling with self-adhesive marking strips possible

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