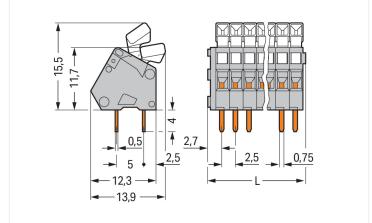
PCB terminal block; push-button; 0.5 mm<sup>2</sup>; Pin spacing 2.5 mm; 2-pole; CAGE

CLAMP®; gray

https://www.wago.com/233-202





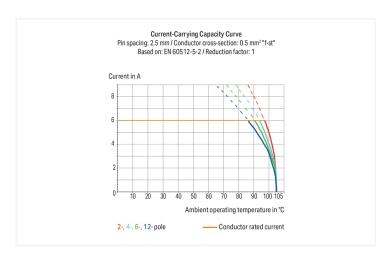


Color: I gray

Similar to illustration

Dimensions in mm

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



PCB terminal block, 233 Series, 30 °conductor entry to board

This PCB terminal block (item number 233-202) is designed for easy and secure connections. It is a universal connector that can be used almost 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. This product features one conductor terminal and utilizes CAGE CLAMP®. Our CAGE CLAMP® connection offers a secure and maintenance-free way to connect all types of conductors. You do not need to prepare the conductor in any way, such as crimping ferrules. The dimensions are 7.3 x 19.5 x 13.9 mm (width x height x depth). Depending on the type of conductor, this PCB terminal block is suitable for conductor cross sections ranging from 0.08 mm² to 0.5 mm². It comes with one level and two clamping points that you can use to connect two potentials / 2 poles. The contacts are made of electrolytic copper (ECu), the clamping spring is made of chrome-nickel spring steel (CrNi), and the gray housing is made of polyamide (PA66) for insulation. The contact surface is coated with tin. A push-button is used to operate this PCB terminal block. THT is used to assemble the PCB terminal block. Insert the conductor into the board at a 30° angle. The solder pins, which are 0.5 x 0.75 mm in cross-section and 4 mm long, are arranged 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	IE	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

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

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

Connection data				
Clamping units	2		Connection 1	
Total number of potentials	2		Connection technology	CAGE CLAMP®
Number of connection types	1		Actuation type	Push-button
Number of levels	1	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 <sup>2</sup>	
		Fine-stranded conductor; with uninsulated ferrule	0.25 mm <sup>2</sup>	
	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	2

Physical data	
Pin spacing	2.5 mm / 0.098 inches
Width	7.3 mm / 0.287 inches
Height	19.5 mm / 0.768 inches
Height from the surface	15.5 mm / 0.61 inches
Depth	13.9 mm / 0.547 inches
Solder pin length	4 mm
Solder pin dimensions	0.5 x 0.75 mm
Drilled hole diameter with tolerance	1.1 <sup>(+0.1)</sup> mm

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

https://www.wago.com/233-202



Material data	
Note (material data)	Information on material specifications can be found here
Color	·
	gray
Material group	1
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	VO
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact Plating	Tin
Fire load	0.022 MJ
Weight	0.9 g

# **Environmental requirements**

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

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 9.0	EC002643
ETIM 8.0	EC002643
PU (SPU)	600 (100) pcs
Packaging type	Box
Country of origin	CH
GTIN	4045454049423
Customs tariff number	85369010000

### **Environmental Product Compliance**

RoHS Compliance Status Compliant, No Exemption

# Approvals / Certificates

### General approvals









	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



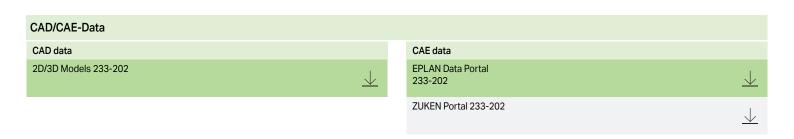


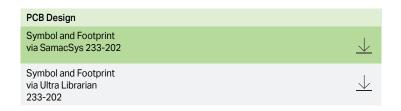


Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	19-HG1869876-PDA
BV Bureau Veritas S.A.	IEC 60998	11915/D0 BV
DNV DNV GL SE	-	TAE000016Z

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 233-202	$\perp$

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





https://www.wago.com/233-202



#### 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 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow

Item No.: 216-321

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow

Item No.: 216-151

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated

Item No.: 216-131

Ferrule; Sleeve for 0.25 mm<sup>2</sup> / 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 x 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

### **Installation Notes**

#### Conductor termination



Inserting/removing a conductor.



Nominal cross-section: 0.5 mm² (20 AWG), 0.75 mm² (18 AWG) only in every other position

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# Marking



Labeling via self-adhesive marking strips or factory direct marking.

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