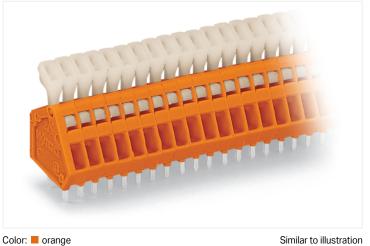
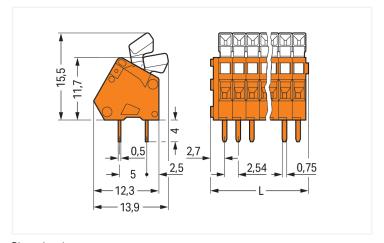
PCB terminal block; push-button; 0.5 mm²; Pin spacing 2.54 mm; 2-pole; CAGE

CLAMP®; orange

https://www.wago.com/233-502

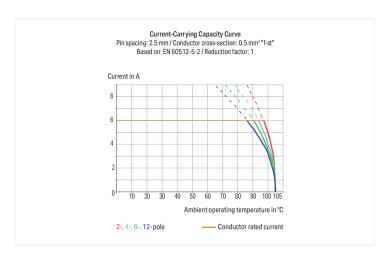






Similar to illustration

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



PCB terminal block, 233 Series, solder pin dimensions 0.5 x 0.75 mm

Our PCB terminal block (item number 233-502) simplifies electrical installations. You can count on trusted safety with these PCB terminal blocks, perfect for a wide variety of applications when designing your devices. This PCB terminal block has a rated voltage of 160 V and can handle currents up to 6 A. Conductors should only be connected to this PCB terminal block if their strip length is between 5 mm and 6 mm. Featuring one conductor terminal along with CAGE CLAMP®, this connector outperforms the competition. Our celebrated universal connection known as CAGE CLAMP® is industry-leading when it comes to connection technology and electrical interconnections. Dimensions: 7.38 x 19.5 x 13.9 mm (width x height x depth). Depending on the type of conductor, this PCB terminal block is ideal for conductor cross sections ranging from 0.08 mm2 to 0.5 mm2. It has one level. You can connect two potentials / two poles using the two clamping points. The contacts are made of electrolytic copper (ECu), the clamping spring is made of chromenickel spring steel (CrNi), and the orange 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. The PCB terminal block is designed for THT soldering. Insert the conductor into the board at a 30° angle.. The solder pins are organized over the entire terminal strip (in-line). They are 0.5 x 0.75 mm cross-section and 4 mm in length. Each potential has two solder pins.

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		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	2

Physical data	
Pin spacing	2.54 mm / 0.1 inches
Width	7.38 mm / 0.291 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 ^(+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

https://www.wago.com/233-502



Material data	
Note (material data)	Information on material specifications can be found here
	information on material specifications can be found here
Color	orange
Material group	I
Insulation material (main housing)	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	0.022 MJ
Weight	0.9 g

Environmental requirements

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

Commercial data	
Product Group	4 (Printed Circuit Connectors)
PU (SPU)	600 (100) pcs
Packaging type	Box
Country of origin	CH
GTIN	4045454050269
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

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



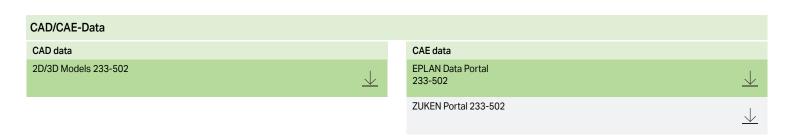


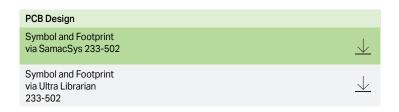


	Approval	Standard	Certificate Name		
	ABS American Bureau of Ship- ping	-	19-HG1869876-PDA		
	BV Bureau Veritas S.A.	IEC 60998	11915/D0 BV		
	DNV DNV GL SE	-	TAE000016Z		

Downloads				
Environmental Product Compliance				
Compliance Search				
Environmental Product Compliance 233-502	\perp			

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





https://www.wago.com/233-502



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 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

https://www.wago.com/233-502

MAGO

Marking



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

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

Current addresses can be found at:: www.wago.com