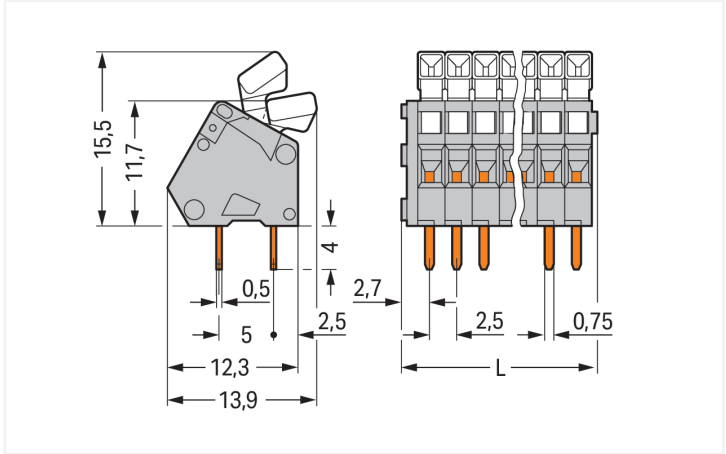
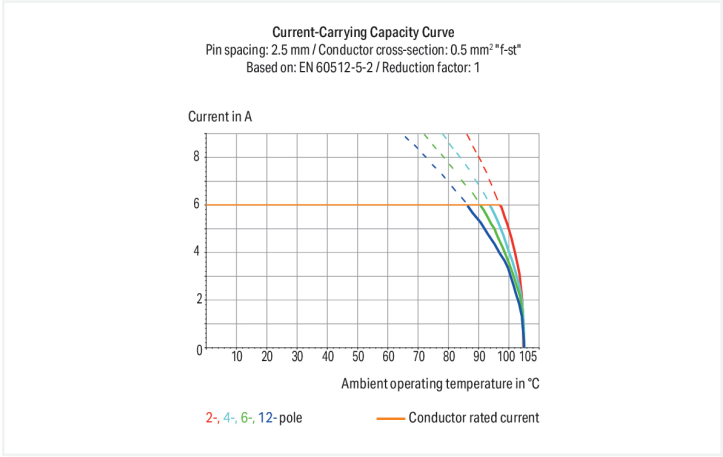


Color: ■ gray

Similar to illustration



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



PCB terminal block, 233 Series, with 2.5 mm pin spacing

This PCB terminal block (item number 233-210) is designed for quick and easy connections. You can rely on proven safety with these PCB terminal blocks, perfect for a host 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. Ensure that the strip lengths are 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 highly-rated 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 27.3 x 19.5 x 13.9 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 ten clamping points that you can use to connect ten potentials / 10 poles. The gray housing is made of polyamide (PA66) for insulation, the contacts are made of electrolytic copper (ECu), and the clamping spring is made of chrome-nickel spring steel (CrNi). 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 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		IEC/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		CSA		
Use group	B	C	D	
Rated voltage	150 V	-	-	
Rated current	4 A	-	-	

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

Connection data						
Clamping units		10		Connection 1		
Total number of potentials		10		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 mm²
				Fine-stranded conductor; with uninsulated ferrule		0.25 mm²
				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		10
Physical data						
Pin spacing			2.5 mm / 0.098 inches			
Width			27.3 mm / 1.075 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			



Material data		
Note (material data)		Information on material specifications can be found here
Color		gray
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		0.094 MJ
Weight		4 g

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

Commercial data	
Product Group	4 (Printed Circuit Connectors)
PU (SPU)	180 (45) pcs
Packaging type	Box
Country of origin	CH
GTIN	4045454049522
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		Declarations of conformity and manufacturer's declarations									
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									
		<table><tr><th>Approval</th><th>Standard</th><th>Certificate Name</th></tr><tr><td>EU-Declaration of Confor- mity WAGO GmbH & Co. KG</td><td>-</td><td>-</td></tr><tr><td>UK-Declaration of Confor- mity WAGO GmbH & Co. KG</td><td>-</td><td>-</td></tr></table>	Approval	Standard	Certificate Name	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-	UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
Approval	Standard	Certificate Name									
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-									
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-									




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 233-210




Documentation

Additional Information
Technical Section
03.04.2019
pdf 2027.26 KB


CAD/CAE-Data

CAD data
2D/3D Models 233-210


CAE data
EPLAN Data Portal 233-210

ZUKEN Portal 233-210


PCB Design
Symbol and Footprint via SamacSys 233-210

Symbol and Footprint via Ultra Librarian 233-210




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; MARKED; 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; MARKED; 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; MARKED; 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; MARKED; 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; MARKED; 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; MARKED; 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; MARKED; 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; MARKED; 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

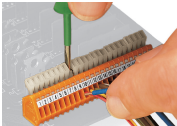


Item No.: 210-648

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



Marking



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