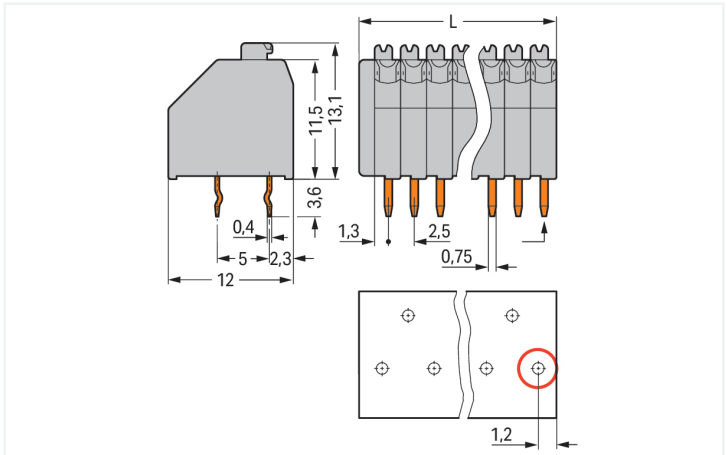


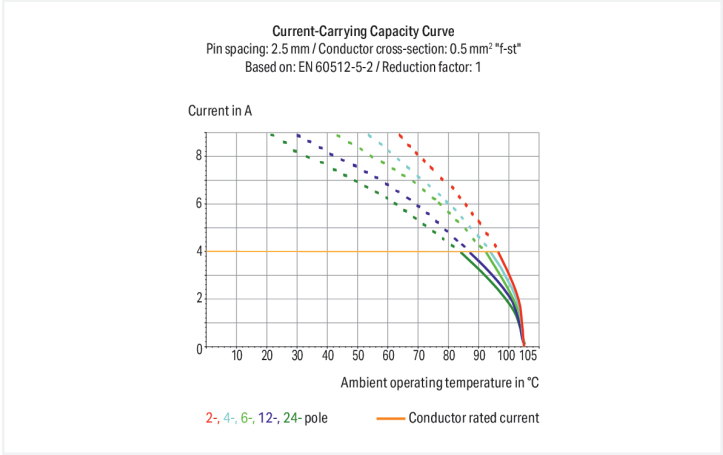


Color: ■ gray

Similar to illustration



Dimensions in mm  
L = (pole no. x pin spacing) + 1.5 mm  
First solder pin, front right (red circle)



PCB terminal block, 250 Series, push-button

This PCB terminal block (item number 250-403) streamlines wire connections, making them both quick and easy. You can rely on tried and tested 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 4 A. Strip lengths must be between 8.5 mm and 9.5 mm when connecting conductors to this PCB terminal block. This product features one conductor terminal and utilizes Push-in CAGE CLAMP®. Push-in CAGE CLAMP® technology provides a universal connection solution for all conductor types. It allows both solid and fine-stranded conductors with ferrules to be inserted directly into the clamping point without the need for tools. The item's dimensions are 9 x 16.7 x 12 mm (width x height x depth). Depending on the conductor type, this PCB terminal block is suitable for conductor cross sections ranging from 0.14 mm² to 0.5 mm². It has one level. You can connect three potentials / three poles using the three clamping points. The gray housing is made of polyamide (PA66) for insulation and the clamping spring is made of a Copper alloy. Tin is used for coating the contact surfaces. This PCB terminal block is operated with a push-button. The PCB terminal block is designed for THT soldering. Insert the conductor into the board at an angle of 45°. The solder pins, which are 0.4 x 0.75 mm in cross-section and 3.6 mm long, are laid out over the entire terminal strip (staggered). There are one solder pin per potential.

Notes	
Variants:	Other pole numbers Other colors Mixed-color PCB connector strips Terminal strips with spacers Direct marking Other versions (or variants) can be requested from WAGO Sales or configured at <a href="https://configurator.wago.com/">https://configurator.wago.com/</a> .



Electrical data				
Ratings per		IEC/EN 60664-1		
Overvoltage category	III	III	II	
Pollution degree	3	2	2	
Nominal voltage	160 V	160 V	320 V	
Rated surge voltage	2.5 kV	2.5 kV	2.5 kV	
Rated current	4 A	4 A	4 A	
Approvals per		CSA		
Use group	B	C	D	
Rated voltage	300 V	-	300 V	
Rated current	5 A	-	5 A	

Approvals per		UL 1059		
Use group	B	C	D	
Rated voltage	300 V	-	300 V	
Rated current	5 A	-	5 A	

Connection data				
Clamping units	3	Connection 1		
Total number of potentials	3	Connection technology	Push-in CAGE CLAMP®	
Number of connection types	1	Actuation type	Push-button	
Number of levels	1	Solid conductor	0.14 ... 0.5 mm² / 24 ... 20 AWG	
		Fine-stranded conductor	0.2 ... 0.5 mm² / 24 ... 20 AWG	
		Conductor diameter	0.4 ... 0.8 mm / 24 ... 20 AWG	
		Strip length	8.5 ... 9.5 mm / 0.33 ... 0.37 inches	
		Conductor connection direction to PCB	45 °	
		Pole number	3	
Physical data				
Pin spacing	Pin spacing		2.5 mm / 0.098 inches	
Width	Width		9 mm / 0.354 inches	
Height	Height		16.7 mm / 0.657 inches	
Height from the surface	Height from the surface		13.1 mm / 0.516 inches	
Depth	Depth		12 mm / 0.472 inches	
Solder pin length	Solder pin length		3.6 mm	
Solder pin dimensions	Solder pin dimensions		0.4 x 0.75 mm	
Drilled hole diameter with tolerance	Drilled hole diameter with tolerance		1.1 <sup>(+0.1)</sup> mm	
PCB contact				
PCB contact	PCB contact		THT	
Solder pin arrangement	Solder pin arrangement		over the entire terminal strip (staggered)	
Number of solder pins per potential	Number of solder pins per potential		1	
Material data				
Note (material data)	Note (material data)		[Information on material specifications can be found here](#)	
Color	Color		gray	
Material group	Material group		I	
Insulation material (main housing)	Insulation material (main housing)		Polyamide (PA66)	
Flammability class per UL94	Flammability class per UL94		V0	
Clamping spring material	Clamping spring material		Copper alloy	
Contact Plating	Contact Plating		Tin	
Fire load	Fire load		0.03 MJ	
Weight	Weight		1.2 g	



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

Commercial data	
Product Group	4 (Printed Circuit Connectors)
PU (SPU)	520 (130) pcs
Packaging type	Box
Country of origin	CH
GTIN	4044918642828
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 60947	NTR NL 7833/2	
CCA DEKRA Certification B.V.	EN 60998	NTR NL-7705/1	
CSA DEKRA Certification B.V.	C22.2	1132097	
DEKRA DEKRA Certification B.V.	EN 60947-7-4	71-141963	
KEMA/KEUR DEKRA Certification B.V.	EN 60947	2160584.18	
KEMA/KEUR DEKRA Certification B.V.	EN 60998	71-124629	
UL UL International Germany GmbH	UL 1059	E45172	
		Approval	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
DNV DNV GL SE	-	TAE000016Z

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 250-403



Documentation

Additional Information
Technical Section
03.04.2019
pdf 2027.26 KB



CAD/CAE-Data

CAD data
2D/3D Models 250-403



CAE data
EPLAN Data Portal 250-403
ZUKEN Portal 250-403



PCB Design

Symbol and Footprint via SamacSys 250-403
Symbol and Footprint via Ultra Librarian 250-403



1 Compatible Products

1.1 Optional Accessories

1.1.1 Marking

1.1.1.1 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.: 210-331/250-207**  
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.: 210-331/250-204**  
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.: 210-331/250-206**  
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

1.1.2 Test and measurement

1.1.2.1 Testing accessories



**Item No.: 735-500**  
WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 6 mm uninsulated; Test lead for soldering up to 0,5mm²

1.1.3 Tool

1.1.3.1 Operating tool

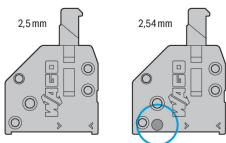


**Item No.: 210-719**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft



**Item No.: 210-647**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

Installation Notes



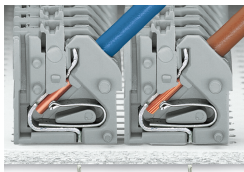
A groove at the back of the terminal strip differentiates between the two pin spacings.

Conductor termination



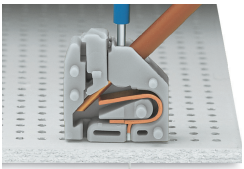
Inserting solid conductors via push-in termination.  
Inserting fine-stranded conductors via push-buttons, 250 Series – 3.5 mm pin spacing.

Conductor termination

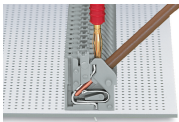


Space-saving wiring, 250 Series – 5 mm pin spacing.

Testing

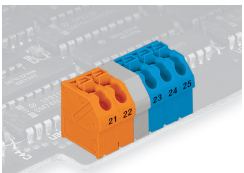


Testing with 11 mm Ø test pin, on the conductor, 250 Series – 2.5 ... 3.5 mm pin spacing.

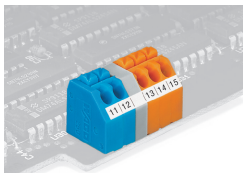


Testing with 2 mm Ø test plug, touch contact, 250 Series – 5 mm pin spacing.

Marking



Labeling via self-adhesive strips or direct marking. Mixed-color terminal strips (with or without spacer) are available upon request.



Labeling via self-adhesive strips or direct marking. Mixed-color terminal strips (with or without spacer) are available upon request.