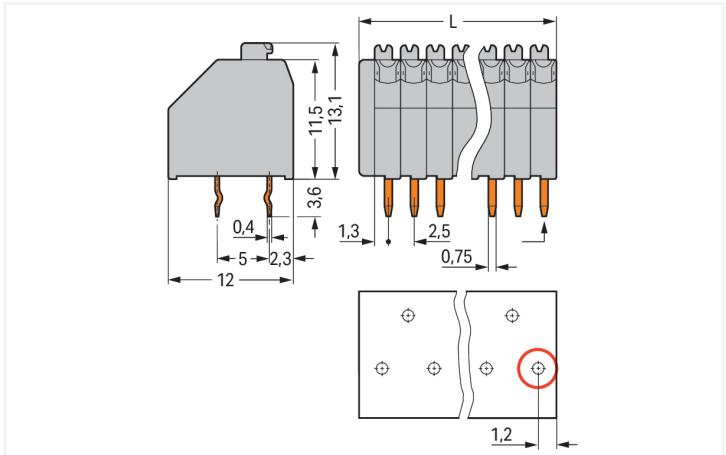


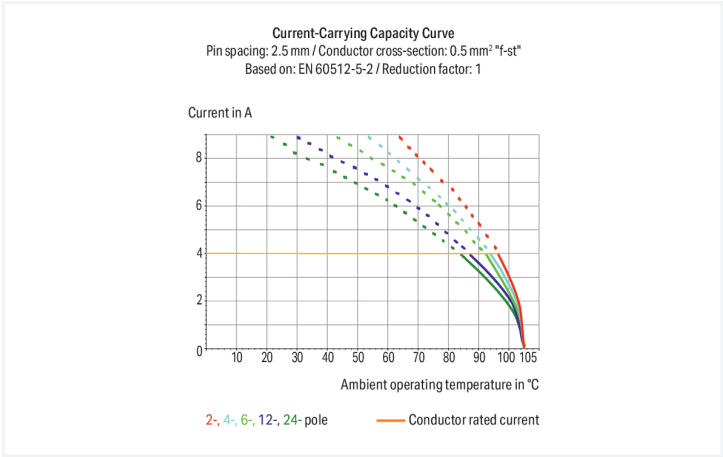


Color: ■ blue

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, 45 °conductor entry to board

Quick and easy connections are guaranteed with this PCB terminal block (item number 250-405/000-006). It offers the flexibility needed for different mounting types. Our PCB terminal block is rated for 160 V and is designed for use with a rated current of up to 4 A. Strip lengths must be between 8.5 mm and 9.5 mm when connecting conductors to this PCB terminal block. Featuring one conductor terminal along with Push-in CAGE CLAMP®, this connector is highly versatile. Push-in CAGE CLAMP® connection technology is ideal for connecting all conductor types. Both solid and fine-stranded conductors with ferrules can be inserted without the need for tools—all thanks to its pluggable design. Dimensions: 14 x 16.7 x 12 mm (width x height x depth). Depending on the conductor type, this PCB terminal block is designed for conductor cross sections ranging from 0.14 mm² to 0.5 mm². It has one level. Five potentials can connect five poles using the five clamping points. The blue housing is made of polyamide (PA66) for insulation and the clamping spring is made of a Copper alloy. 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 45° angle.. The solder pins are organized over the entire terminal strip (staggered). They are 0.4 x 0.75 mm cross-section and 3.6 mm in length. Each potential has one solder pin.

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 https://configurator.wago.com/ .



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	5		Connection 1		
Total number of potentials	5		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	5	
Physical data					
Pin spacing			2.5 mm / 0.098 inches		
Width			14 mm / 0.551 inches		
Height			16.7 mm / 0.657 inches		
Height from the surface			13.1 mm / 0.516 inches		
Depth			12 mm / 0.472 inches		
Solder pin length			3.6 mm		
Solder pin dimensions			0.4 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 (staggered)		
Number of solder pins per potential			1		
Material data					
Note (material data)			[Information on material specifications can be found here](#)		
Color			blue		
Material group			I		
Insulation material (main housing)			Polyamide (PA66)		
Flammability class per UL94			V0		
Clamping spring material			Copper alloy		
Contact Plating			Tin		
Fire load			0.006 MJ		
Weight			1.9 g		



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

Commercial data	
Product Group	4 (Printed Circuit Connectors)
PU (SPU)	340 (85) pcs
Packaging type	Box
Country of origin	CH
GTIN	4044918642910
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
CSA DEKRA Certification B.V.	C22.2	1132097
UL UL International Germany GmbH	UL 1059	E45172

Downloads

Environmental Product Compliance

Compliance Search	
Environmental Product Compliance 250-405/000-006	

Documentation

Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	

CAD/CAE-Data

CAD data	CAE data
2D/3D Models 250-405/000-006 	EPLAN Data Portal 250-405/000-006 
	ZUKEN Portal 250-405/000-006 

PCB Design	
Symbol and Footprint via SamacSys 250-405/000-006 	
Symbol and Footprint via Ultra Librarian 250-405/000-006 	

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

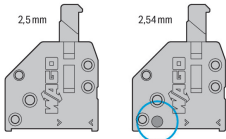
1.1.3.1 Operating tool



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

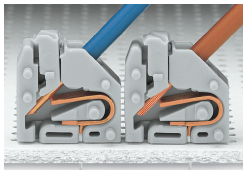
Item No.: 210-647
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

Installation Notes



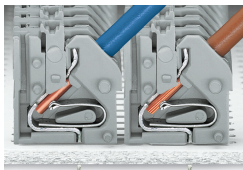
A groove at the back of the terminal strip differentiates between the two pin spacings.

Conductor termination



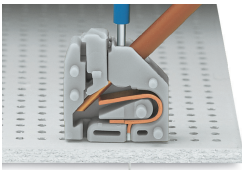
Inserting solid conductors via push-in termination.
Inserting fine-stranded conductors via push-buttons, 250 Series – 3.5 mm pin spacing.

Conductor termination

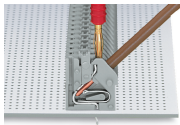


Space-saving wiring, 250 Series – 5 mm pin spacing.

Testing

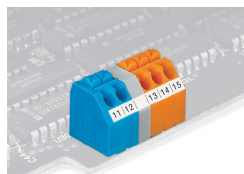
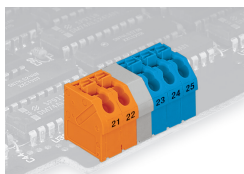


Testing with 11 mm Ø test pin, on the conductor, 250 Series – 2.5 ... 3.5 mm pin spacing.



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.