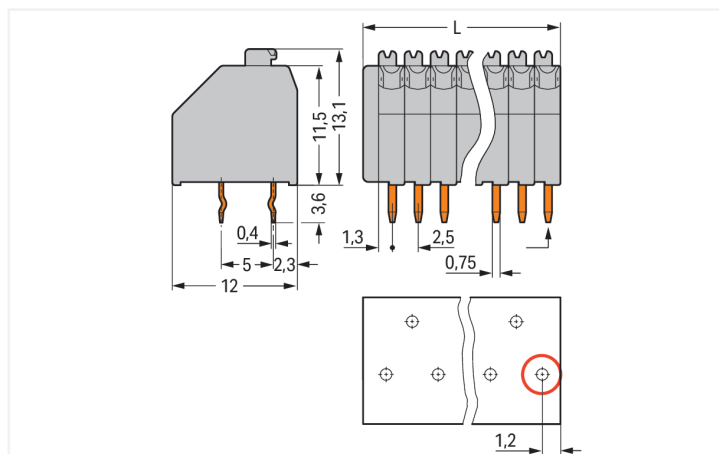


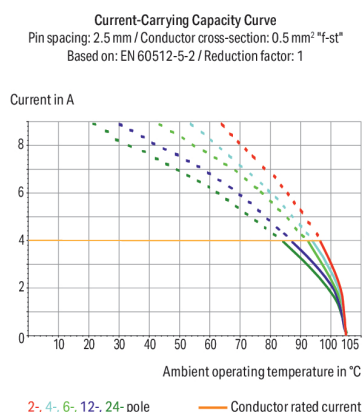
<https://www.wago.com/250-407>



Similar to illustration



First solder pin, front right (red circle)



This PCB terminal block (item number 250-407) is designed to connect conductors quickly and easily. You can rely on proven 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 4 A. Conductors can only be connected to this PCB terminal block if their strip length is between 8.5 mm and 9.5 mm. Featuring one conductor terminal along with Push-in CAGE CLAMP®, this product is highly versatile. Push-in CAGE CLAMP® technology provides a universal connection solution for any type of conductor. 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 19 x 16.7 x 12 mm (width x height x depth). 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 seven potentials / seven poles using the seven clamping points. The gray 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. 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 set out over the entire terminal strip (staggered). There are one solder pin per potential.

Variants:

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	7	Connection 1 Connection technology Push-in CAGE CLAMP® Actuation type Push-button 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 7		
Total number of potentials	7			
Number of connection types	1			
Number of levels	1			
Physical data				
Pin spacing	2.5 mm / 0.098 inches			
Width	19 mm / 0.748 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	gray			
Material group	I			
Insulation material (main housing)	Polyamide (PA66)			
Flammability class per UL94	V0			
Clamping spring material	Copper alloy			
Contact Plating	Tin			
Fire load	0.062 MJ			
Weight	2.6 g			



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

Commercial data	
Product Group	4 (Printed Circuit Connectors)
PU (SPU)	240 (60) pcs
Packaging type	Box
Country of origin	CH
GTIN	4044918642965
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	EU-Declaration of Confor- mity WAGO GmbH & Co. KG
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	



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 250-407



Documentation

Additional Information
Technical Section
03.04.2019
pdf 2027.26 KB



CAD/CAE-Data

CAD data
2D/3D Models 250-407



CAE data
EPLAN Data Portal 250-407
ZUKEN Portal 250-407



PCB Design

Symbol and Footprint via SamacSys 250-407
Symbol and Footprint via Ultra Librarian 250-407





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

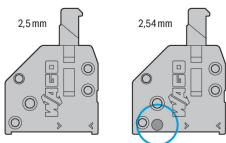


Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft



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

Installation Notes



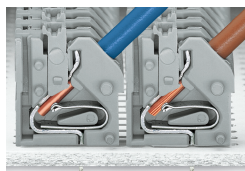
A groove at the back of the terminal strip differentiates between the two pin spacings.

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

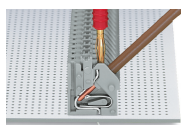


Space-saving wiring, 250 Series – 5 mm pin spacing.

Testing

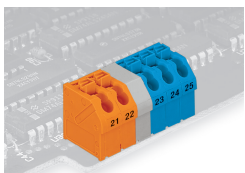


Testing with 11 mm Ø test pin, on the conductor, 250 Series – 2.5 ... 3.5 mm pin spacing.

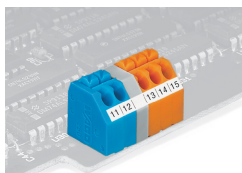


Testing with 2 mm Ø test plug, touch contact, 250 Series – 5 mm pin spacing.

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.