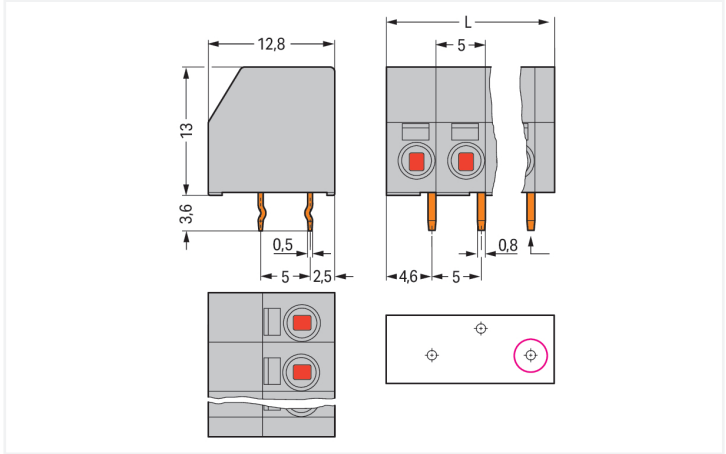
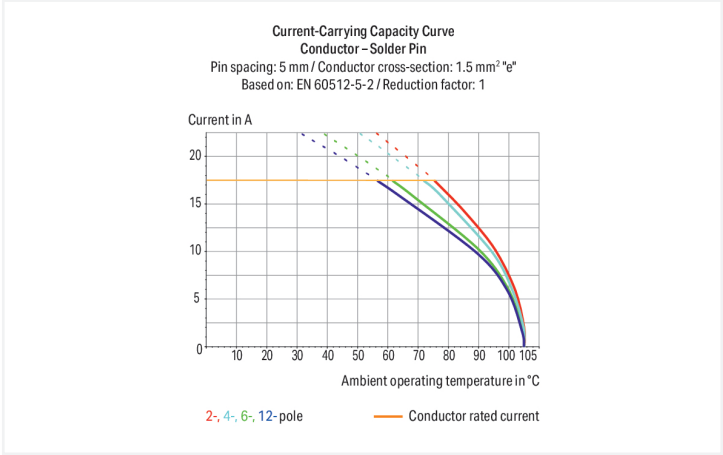


Color: ■ gray

Similar to illustration



Dimensions in mm
L = (pole no. x pin spacing) + 2 mm
First solder pin, front right (red circle)



PCB terminal block, 253 Series, 0 °conductor entry to board

This PCB terminal block (item number 253-103) is designed for easy and secure connections. It is ideal for custom installations with different mounting types. Rated current and voltage are key factors to consider when selecting a PCB terminal block, as they indicate possible applications and uses. This product has a rated voltage of 320 V and a rated current of 17.5 A, making it suitable for high-load applications. Ensure that the strip lengths are between 8.5 mm and 9.5 mm when connecting conductors to this PCB terminal block. This product features two conductor terminals and utilizes PUSH WIRE® and PUSH WIRE®. Our PUSH WIRE® connection offers a quick and easy solution for connecting solid conductors. The item's dimensions are 17 x 16.6 x 12.8 mm (width x height x depth). This PCB terminal block is suitable for conductor cross sections ranging from 0.5 mm² to 1.5 mm² on one side and for conductor cross sections ranging from 0.5 mm² to 1.5 mm² on the other side. Up to three potentials / three poles can be connected to this terminal strip using six clamping points on one level. 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). Tin is used for coating the contact surfaces. An operating tool 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 0° angle.. The solder pins, which are 0.5 x 0.8 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.



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		Approvals per		UL 1059	
Overvoltage category	III	III	II	Use group	B	C	D
Pollution degree	3	2	2	Rated voltage	300 V	-	300 V
Nominal voltage	320 V	320 V	630 V	Rated current	8 A	-	5 A
Rated surge voltage	4 kV	4 kV	4 kV				
Rated current	17.5 A	17.5 A	17.5 A				

Approvals per		CSA	
Use group	B	C	D
Rated voltage	300 V	-	300 V
Rated current	8 A	-	5 A

Connection data

Clamping units	6	Connection 1	
Total number of potentials	3	Connection type	PUSH WIRE® connection
Number of connection types	2	Connection technology	PUSH WIRE®
Number of levels	1	Number of connection points	1
		Actuation type	Operating tool
		Solid conductor	0.5 ... 1.5 mm² / 20 ... 16 AWG
		Strip length	8.5 ... 9.5 mm / 0.33 ... 0.37 inches
		Note (strip length)	7 ... 8 mm / 0.28 ... 0.31 inch (for wiring on both sides)
		Conductor connection direction to PCB	0 °
		Pole number	3

Connection 2	
Connection type	PUSH WIRE® connection
Connection technology	PUSH WIRE®
Number of connection points	1
Solid conductor	0.5 ... 1.5 mm² / 20 ... 16 AWG
Strip length	8.5 ... 9.5 mm / 0.33 ... 0.37 inches
Note (strip length)	7 ... 8 mm / 0.28 ... 0.31 inch (for wiring on both sides)
Conductor connection direction to PCB	90 °



Physical data		
Pin spacing	5 mm / 0.197 inches	
Width	17 mm / 0.669 inches	
Height	16.6 mm / 0.654 inches	
Height from the surface	13 mm / 0.512 inches	
Depth	12.8 mm / 0.504 inches	
Solder pin length	3.6 mm	
Solder pin dimensions	0.5 x 0.8 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	Chrome-nickel spring steel (CrNi)	
Contact material	Electrolytic copper (E _{Cu})	
Contact Plating	Tin	
Fire load	0.061 MJ	
Weight	2.9 g	






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

Commercial data		
Product Group	4 (Printed Circuit Connectors)	
PU (SPU)	280 (70) pcs	
Packaging type	Box	
Country of origin	CN	
GTIN	4044918689205	
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		
<div></div>					
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7649	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
CCA DEKRA Certification B.V.	EN 60998	NTR NL 6580	UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
CCA DEKRA Certification B.V.	EN 60998	2126302.02			
cURus Underwriters Laboratories Inc.	UL 1059	E45172			
ENEC DEKRA Certification B.V.	EN 60947	71-101931			
UL UL International Germany GmbH	UL 1977	E45171			




Downloads

Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 253-103	



Documentation

Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	

CAD/CAE-Data

CAD data		CAE data	
2D/3D Models 253-103		EPLAN Data Portal 253-103	
		ZUKEN Portal 253-103	



PCB Design	
Symbol and Footprint via SamacSys 253-103	
Symbol and Footprint via Ultra Librarian 253-103	

1 Compatible Products

1.1 Optional Accessories

1.1.1 Marking

1.1.1.1 Marking strip



Item No.: 210-833
Marking strips; 25 m on roll; 6 mm wide; plain; Self-adhesive; white



Item No.: 210-332/500-202
Marking strips; as a DIN A4 sheet; MARKED; 1-16 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white



Item No.: 210-332/500-205
Marking strips; as a DIN A4 sheet; MARKED; 1-32 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white



Item No.: 210-332/500-204
Marking strips; as a DIN A4 sheet; MARKED; 17-32 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white



Item No.: 210-332/500-206
Marking strips; as a DIN A4 sheet; MARKED; 33-48 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

1.1.2 Tool

1.1.2.1 Operating tool



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



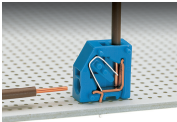
Item No.: 210-648
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short



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

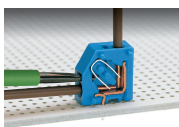
Installation Notes

Conductor termination



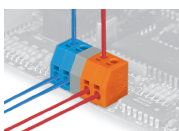
Inserting a conductor via push-in termination.

Conductor removal



Removing a conductor via 2.5 mm screwdriver.

Installation



Mixed-color terminal strips (with or without spacer) are available upon request.