

Data Sheet | Item Number: 812-103

Busbar terminal block; for (10 x 3) mm busbars; without push-buttons; Push-in CAGE CLAMP®; red

<https://www.wago.com/812-103>



Color: ■ red

Common potential terminal block, 812 Series, operating tool

This common potential terminal block (item number 812-103) streamlines wire connections, making them both quick and easy. Ensure that the strip lengths are 11 mm when connecting conductors to this common potential terminal block. This product features conductor terminals and utilizes Push-in CAGE CLAMP®. Our Push-in CAGE CLAMP® is a universal, maintenance-free connection solution for all conductor types, featuring a winning design: both solid and fine-stranded conductors with ferrules can be directly inserted without the need for tools or any preparation, such as crimping the ferrule. The item's dimensions are 75 x 30 x 27.5 mm (width x height x depth). Depending on the conductor type, this common potential terminal block is designed for conductor cross sections ranging from 0.5 mm² to 4 mm². It features one level and twelve clamping points for connecting a single potential. The red housing is made of polyamide (PA66) for insulation.

Electrical data		
Ratings per IEC/EN		Ratings per IEC/EN – Notes
Nominal voltage (III/3)	1000 V	Rated current (note)  Current carrying capacity: With a maximum total current of 96 A, the clamping units of the busbar terminal block can be loaded with the rated current of the conductor cross-sections approved. This only applies when (10 x 3) mm busbars are used.
Rated impulse withstand voltage (III / 3)	6 kV	
Rated current	96 A	
Legend (ratings)	(III / 3) △ Overvoltage category III / Pollution degree 3	

Connection data			
Clamping units	12	Connection 1	
Total number of potentials	1	Connection technology	Push-in CAGE CLAMP®
Number of levels	1	Actuation type	Operating tool
		Connectable conductor materials	Copper
		Solid conductor	0.5 ... 4 mm² / 20 ... 12 AWG
		Solid conductor; push-in termination	0.5 ... 4 mm² / 20 ... 12 AWG
		Stranded conductor	0.5 ... 4 mm² / 20 ... 12 AWG
		Fine-stranded conductor	0.5 ... 4 mm² / 20 ... 12 AWG
		Strip length	11 mm / 0.43 inches
		Wiring direction	Front-entry wiring



Physical data	
Width	75 mm / 2.953 inches
Height	30 mm / 1.181 inches
Depth	27.5 mm / 1.083 inches

Material data	
Note (material data)	<a href="#">Information on material specifications can be found here</a>
Color	red
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.823 MJ
Weight	35.7 g

Environmental requirements	
Continuous operating temperature	-35 ... +85 °C

Commercial data	
Product Group	12 (Matrix Patch Board)
eCl@ss 10.0	27-14-11-46
eCl@ss 9.0	27-14-11-46
ETIM 9.0	EC000001
ETIM 8.0	EC000001
PU (SPU)	10 pcs
Packaging type	Box
Country of origin	PL
GTIN	4044918253284
Customs tariff number	85369010000

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-7153
CSA CSA Group	C22.2 No. 158	2131504
KEMA/KEUR DEKRA Certification B.V.	EN 60947	2160584.49
UL Underwriters Laboratories Inc.	UL 1059	UL-US- L45172-6187154-31109002-1
		Approval
		EU-Declaration of Confor- mity WAGO GmbH & Co. KG
		UK-Declaration of Confor- mity WAGO GmbH & Co. KG



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1 Compatible Products

1.1 Optional Accessories

1.1.1 Ferrule

1.1.1.1 Ferrule



Item No.: 216-110  
Ferrule; Sleeve for 16 mm² / AWG 6; unin-sulated; electro-tin plated; brown metallic

1.1.2 N-busbar

1.1.2.1 Busbar



Item No.: 210-133  
Busbar; tin-plated; 1000 mm long; Cu 10 mm x 3 mm; white

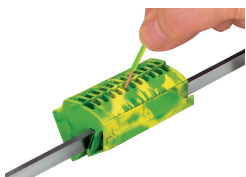
## Installation Notes

### Installation

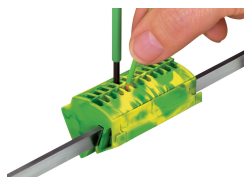


Unlock right and left positions to remove the ground busbar terminal block. Then pull up the block from the busbar.

### Conductor termination



Conductor termination (4 mm<sup>2</sup>/12 AWG): With Push-in CAGE CLAMP®, solid conductors can be terminated by simply pushing them into the 12 x 4 mm<sup>2</sup> busbar terminal block, significantly reducing wiring time.



Conductor removal (4 mm<sup>2</sup>/12 AWG and 16 mm<sup>2</sup>/6 AWG): Open the clamping unit using an operating tool.