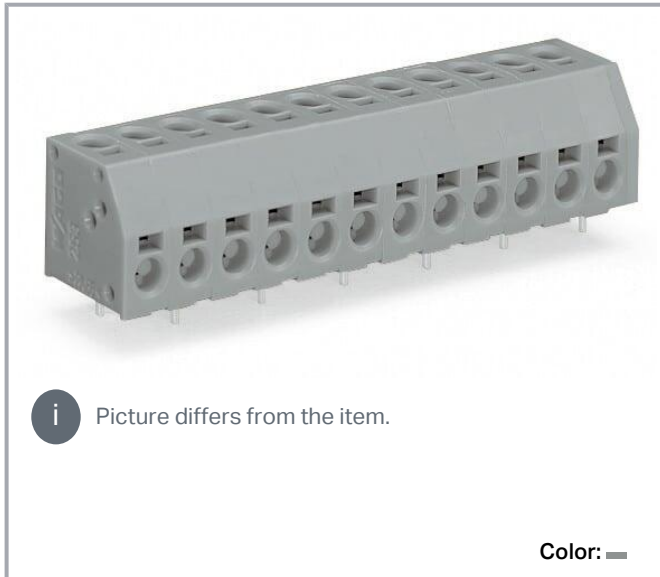# Data sheet | Item number: 253-107
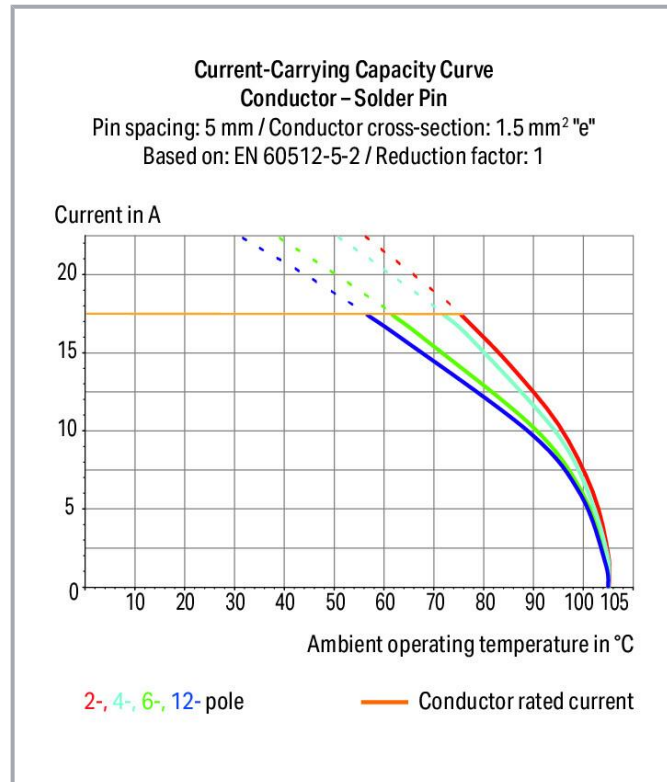
2-conductor PCB terminal block; 1.5 mm²; Pin spacing 5 mm; 7-pole; PUSH WIRE®; 1,50 mm²; gray

www.wago.com/253-107
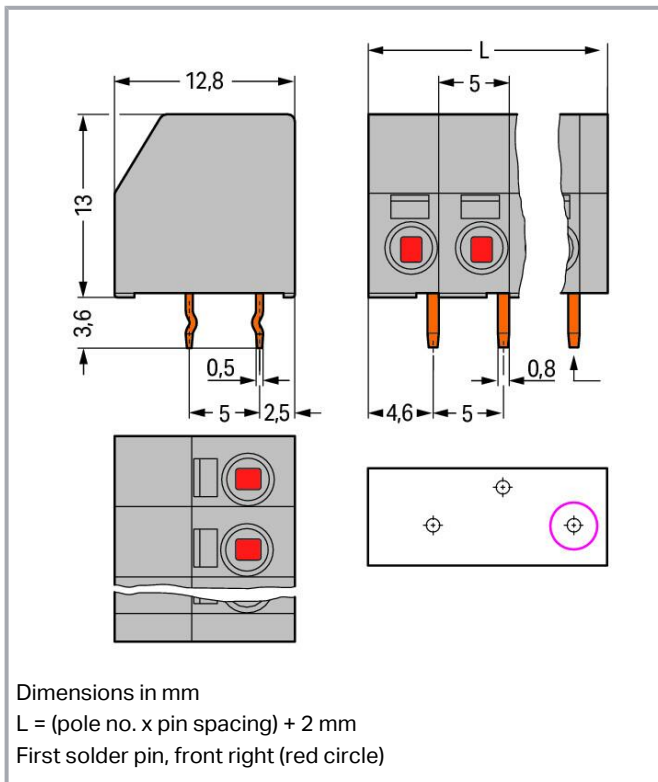
i Picture differs from the item.

Color:

Current-Carrying Capacity Curve
Conductor – Solder Pin
Pin spacing: 5 mm / Conductor cross-section: 1.5 mm² "e"
Based on: EN 60512-5-2 / Reduction factor: 1

Current in A

Ambient operating temperature in °C

2-, 4-, 6-, 12- pole　　Conductor rated current

Subject to changes. Please also observe the further product documentation!

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

Item description

- PCB terminal strips with screwdriver-actuated PUSH WIRE® termination
- Double-conductor connection provides top-entry (vertical) and/or side-entry (horizontal) wiring
- Push-in termination of solid conductors
- Double entries for power supply and potential distribution

Data
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

Subject to changes. Please also observe the further product documentation!

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

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Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	320 V
Rated impulse voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated impulse voltage (III/2)	4 kV
Nominal voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV
Rated current	17.5 A
Legend (ratings)	(III / 2) ≙ Overvoltage category III / Pollution degree 2

Ratings per UL

Approvals per	UL 1059
Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	8 A
Rated voltage UL (Use Group D)	300 V
Rated current UL (Use Group D)	5 A

Ratings per CSA

Approvals per	CSA
Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	8 A
Rated voltage CSA (Use Group D)	300 V
Rated current CSA (Use Group D)	5 A

Connection data

Connection points	14
Total number of potentials	7
Number of connection types	2
Number of levels	1

Connection 1

Connection type 1	PUSH WIRE® connection
Connection technology	PUSH WIRE®
Number of connection points	1
Actuation type	Operating tool

Subject to changes. Please also observe the further product documentation!

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	7

Connection 2

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

Physical data

Pin spacing	5 mm / 0.197 inches
Width	37 mm / 1.457 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

Subject to changes. Please also observe the further product documentation!

Insulation material	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	0.129 MJ
Weight	6.2 g

Environmental requirements

Limit temperature range	-60 … +105 °C

Commercial data

Product Group	4 (Printed Circuit Connectors)
eCl@ss 10.0	27-44-04-01
eCl@ss 9.0	27-44-04-01
ETIM 8.0	EC002643
ETIM 7.0	EC002643
ECCN	NO DATA
PU (SPU)	120 (30) pcs
Packaging type	box
Country of origin	CN
GTIN	4044918689403
Customs tariff number	85369010000

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
CCA	**CCA** DEKRA Certification B.V.	EN 60947	NTR NL-7649
	CCA DEKRA Certification B.V.	EN 60998	NTR NL 6580

Subject to changes. Please also observe the further product documentation!

CCA

	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

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
C E	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK CA	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Optional accessories

Tool

Operating tool

	Item no.: 210-648 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short	www.wago.com/210-648
	Item no.: 210-647 Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured	www.wago.com/210-647

Subject to changes. Please also observe the further product documentation!

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

www.wago.com/210-719

Marking accessories

Marking strip

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

www.wago.com/210-833

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

www.wago.com/210-332/500-202

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

www.wago.com/210-332/500-206

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

www.wago.com/210-332/500-205

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

www.wago.com/210-332/500-204

Downloads
Documentation

Additional Information

Technical Section Technical explanations	2019 Apr 3	pdf 2.1 MB	Download

CAD/CAE-Data

CAD data

2D/3D Models 253-107	URL	Download

CAE data

EPLAN Data Portal 253-107	URL	Download
ZUKEN Portal 253-107	URL	Download

Subject to changes. Please also observe the further product documentation!

PCB Design

Symbol and Footprint via Ultra Librarian 253-107   URL   Download

CAx data for your PCB design, consisting of "schematic symbols and PCB footprints",
allow easy integration of the WAGO component into your development environment.

Supported formats:

- Accel EDA 14 & 15
- Altair
- Altium 6 to current version
- Autodesk Fusion 360
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics
- BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design
- Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000
- Zuken eCADSTAR 2020 and 2021Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

Symbol and Footprint via SamacSys 253-107   URL   Download

Subject to changes. Please also observe the further product documentation!

CAx data for your PCB design, consisting of "schematic symbols and PCB footprints",
allow easy integration of the WAGO component into your development environment.

Supported formats:

- 3D (stp)
- Altium
- CADSTAR
- Capture
- CircuitStudio
- CR-5000
- CR-8000
- DEHDL
- DesignSpark PCB
- DesignSpark PCB PRO
- DipTrace
- EAGLE
- Easy-PC
- EasyEDA
- eCADSTAR
- KiCad
- OrCAD_Allegro16
- PADS
- Proteus
- Pulsonix
- Quadcept
- SOLIDWORKS PCB
- TARGET 3001!
- xDX Designer
- Xpedition

PCB Component Libraries (EDA), PCB CAD Library SamacSys Electronic Component
Search Engine

Asset Administration Shell

Asset Administration Shell 253-107	URL	Download

Environmental Product Compliance

Subject to changes. Please also observe the further product documentation!

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Compliance Search
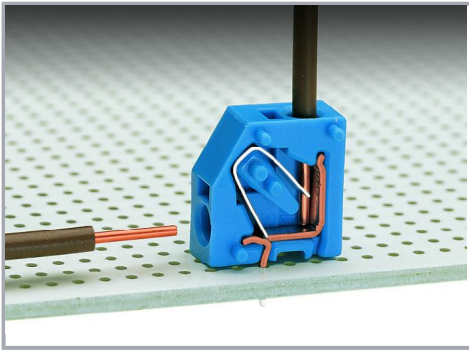
Environmental Product Compliance 253-107

URL   Download

2-conductor PCB terminal block; 1.5 mm²; Pin spacing 5 mm; 7-pole; PUSH WIRE®;
1,50 mm²; gray
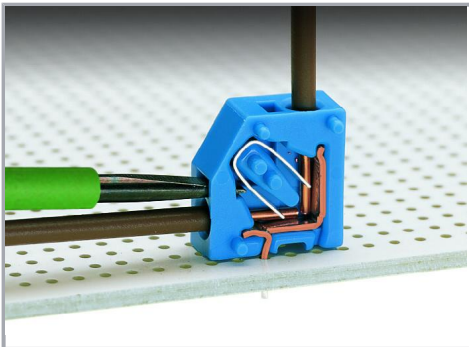
Installation Notes

Conductor termination

Inserting a conductor via push-in termination.
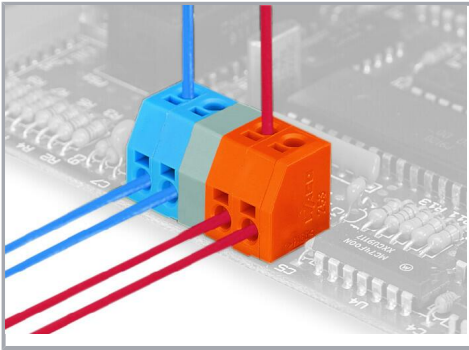
Conductor removal

Removing a conductor via 2.5 mm screwdriver.

Installation

Subject to changes. Please also observe the further product documentation!

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

Subject to changes. Please also observe the further product documentation!

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