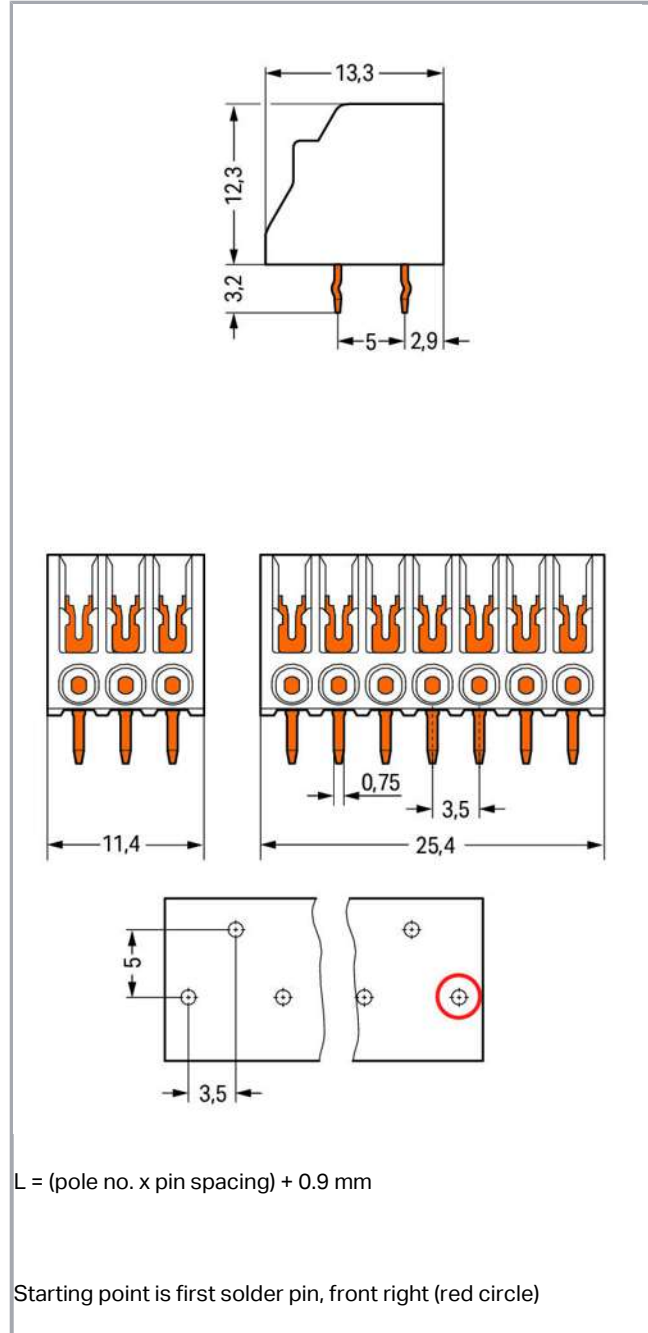


Data sheet | Item number: 251-303

PCB terminal block; 1 mm²; Pin spacing 3.5 mm; 3-pole; PUSH WIRE® & FIT CLAMP®; 1,00 mm²; white



www.wago.com/251-303



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

WAGO Kontakttechnik GmbH & Co. KG
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Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



Item description

- Compact Combi PCB terminal blocks ideal for automated wiring in the lighting industry
- Low conductor insertion forces
- PUSH WIRE[®] and IDC connections – ideal for automated wiring systems.

Data

Electrical data

Ratings per IEC/EN 60664-1

Ratings per	IEC/EN 60664-1
Rated 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
Rated voltage (II / 2)	630 V
Rated impulse voltage (II / 2)	4 kV
Rated current	6 A
Legend (ratings)	(III / 2) $\hat{=}$ Overvoltage category III / Pollution degree 2

Approvals per UL 1059

Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	4 A
Rated voltage UL (Use Group D)	300 V
Rated current UL (Use Group D)	4 A
Approvals per	UL 1059

Connection data

Connection technology	PUSH WIRE [®]
Number of connection points (connection type)	1
Actuation type	Operating tool
Solid conductor	0,5 ... 1 mm ² / 20 ... 18 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inch
Conductor entry angle to the PCB	0°
No. of poles	3
Connection technology 2	IDC

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



Number of connection points	1
Solid conductor (2)	0,5 mm ² / 20 AWG
Fine-stranded conductor (2)	0,75 mm ² / 18 ... 18 AWG
Note (conductor cross-section) 2	IDC connection: PVC insulation, single
Strip length (2)	7.5 ... 8.5 mm / 0.3 ... 0.33 inch
Conductor entry angle to the PCB 2	0°
Total number of connection points	3
Total number of potentials	3
Number of connection types	2
Number of levels	2
Note (conductor cross-section)	IDC-Anschluss: PVC-Isolierung, einfach

Geometrical Data

Pin spacing	3,5 mm / 0.138 inch
Width	11,4 mm / 0.449 inch
Height	15,5 mm / 0.61 inch
Height from the surface	12,3 mm / 0.484 inch
Depth	13,3 mm / 0.524 inch
Solder pin length	3.2 mm
Solder pin dimensions	0,5 x 0,75 mm
Drilled hole diameter (tolerance)	1,1 ^(+0,1) mm

Mechanical data

Design	Low Version
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PCB contact

PCB contact	THT
Solder pin arrangement	over the entire terminal strip (staggered)
Number of solder pins per potential	1

Material Data

Color	white
Material group	I
Insulating material	Polyamide 66 (PA 66)
Flammability class per UL94	V0
Clamping spring material	Chrome nickel spring steel (CrNi)

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Contact material	Copper alloy
Contact plating	tin-plated
Fire load	0.025 MJ
Weight	1.3 g

Environmental Requirements




Limit temperature range	-60 ... +105 °C
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Commercial data


Product Group	4 (Printed Circuit)
Packaging type	BOX
Country of origin	CH
GTIN	4055143636155
Customs Tariff No.	85369010000

Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60998	NTR-NL 6286
	CCA DEKRA Certification B.V.	EN 60998	2110204.10
	VDE VDE Prüf- und Zertifizierungsinstitut	EN 60998	40028031

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL UL International Germany GmbH	UL 1059	20160630- E45172

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

Counterpart

Compatible products

tools

	Item no.: 206-830 Disconnection tool	www.wago.com/206-830
	Item no.: 206-831 Operating tool	www.wago.com/206-831

Downloads

Documentation

Additional Information

Technical explanations	Apr 3, 2019	pdf 3.6 MB	Download
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CAD/CAE-Data

CAD data

2D/3D Models 251-303	URL	Download
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CAE data

EPLAN Data Portal 251-303	URL	Download
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PCB Design

Symbol and Footprint 251-303	URL	Download
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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
- Altium 6 to current version
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad

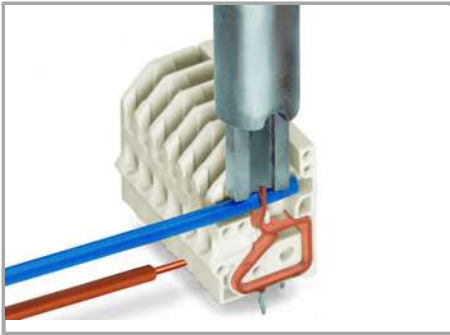
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Subject to changes. Please also observe the further product documentation!

- 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

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

Installation Notes

Conductor termination



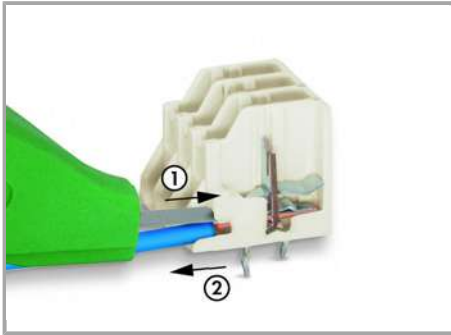
Conductor termination:

PUSH WIRE®: Simply push in conductor.

IDC: Push in conductor via 206-831
Operating Tool.

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

Conductor removal



Conductor removal:

PUSH WIRE®: Twist conductor and pull out, or fully insert 206-830 Disconnection Tool over the conductor (1) and pull it out (2).

IDC: Pull up vertically on conductor to remove it (10x reconnection cycles possible when used properly – before re-using, cut off old contact point from conductor).

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