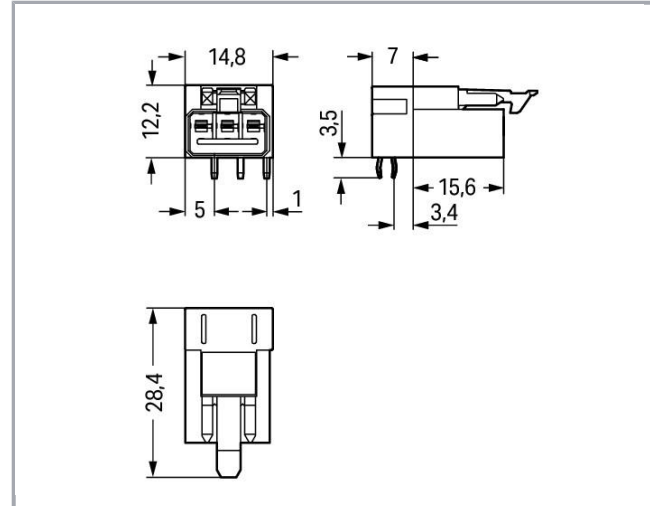


Data sheet | Item number: 890-813/011-000

Plug for PCBs; angled; 3-pole; Cod. A; black

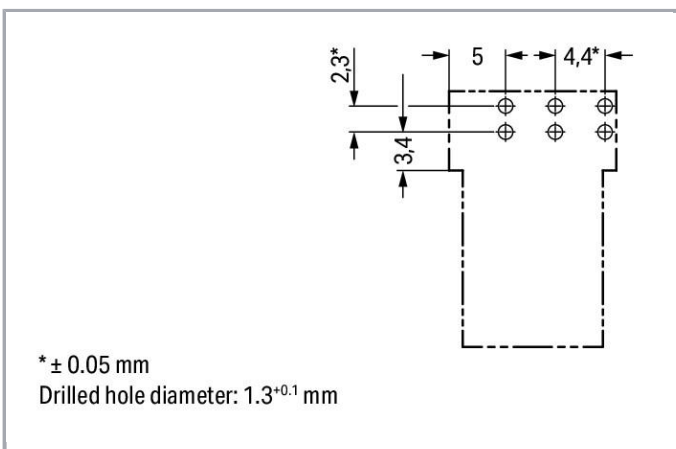
[www.wago.com/890-813/011-000](http://www.wago.com/890-813/011-000)



RoHS  Compliant

[BOMcheck.net](https://www.bomcheck.net)

Color:



### Item description

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

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- Protected against mismatching and maintenance-free
- Push-in CAGE CLAMP® spring pressure connection technology allows solid conductors to be simply pushed into a unit
- Compact design with 4.4 mm pole spacing

**Note:**

All connectors for mounted installations (snap-in versions for lighting fixtures or devices, all types of PCB and distribution connectors) are factory-equipped with locking levers to ensure plugs and sockets are securely locked. Additional locking levers are only required for flying leads (plug /socket).

**Note on mismatching protection:**

All WINSTA® components are 100% protected against mismatching when:

- a.) plugging different numbers of poles
- b.) plugging while rotated 180
- c.) plugging while laterally staggered
- d.) plugging one pole

**Safety information 1:**

Application note for the U.S. market (USR): Some versions may also be used for current interruption in accordance with the UL certificate in select applications with currents below 5 A and voltages up to 600 V. For further information, please contact your local sales office.

**Data****Electrical data**

Note on Contact Resistance	approx. 1 mΩ of contact resistance approx. 0.25 mΩ contact transition plug/socket
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**Ratings per IEC/EN 60664-1**

Ratings per	IEC/EN 60664-1
Rated voltage (III / 3)	250 V
Rated impulse voltage (III / 3)	4 kV
Rated current	16 A
Legend (ratings)	(III / 3) ≙ Overvoltage category III / Pollution degree 3

**Approvals per UL 1977**

Rated voltage per UL 1977 (factory wiring only)	600 V
Rated current per UL 1977 (factory wiring only)	14 A

**Connection data**

No. of poles	3
Total number of potentials	3
Number of levels	1

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Ground function

with preceding ground contact

## Geometrical Data

Pin spacing	4,4 mm / 0.173 inch
Width	14,8 mm / 0.583 inch
Height	15,7 mm / 0.618 inch
Height from the surface	12,2 mm / 0.48 inch
Depth	28,4 mm / 1.118 inch
Solder pin length	3.5 mm
Solder pin dimensions	1 x 0,8 mm
Drilled hole diameter (tolerance)	1,3 <sup>(-0,1 ... +0,1)</sup> mm

## Mechanical data

Coding	A
Mating force of a plug-in connection	approx. 20 ... 70 N (depending on pole number)
Retention force of a plug-in connection	Locked: > 80 N
Unmating force of a plug-in connection	Unlocked: approx. 20 ... 70 N (depending on pole number)
Number of mating cycles	200, without resistive load 100, with resistive load $I_N = 16$ A, tested (1.5 mm <sup>2</sup> /16 AWG)
Design	angled
Marking	L N
Potential marking	L N
Application	General mains applications

## Plug connection

Contact type (pluggable connector)	Male connector/plug
Connector connection type	for PCB
Mismating protection	Yes
Mating direction to the PCB	0°
Locking of plug-in connection	locking lever
Locking lever	yes

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

## PCB contact

PCB contact	THT
Solder pin arrangement	2 in-line solder pins/pole
Number of solder pins per potential	2

## Material Data

Color	black
Insulating material	Polyamide 66 (PA 66)
Clamping spring material	Chrome nickel spring steel (CrNi)
Contact material	Copper or copper alloy (surface-treated)
Fire load	0.065 MJ
Weight	3.3 g

## Environmental Requirements


Processing temperature	-5 ... +40 °C
Continuous operating temperature	-35 ... +85 °C
Note on Continuous Service Temperature	Insulating parts for temperatures ≤ 105 °C

## Commercial data

Packaging type	BOX
Country of origin	PL
GTIN	4050821695691
Customs Tariff No.	85366990990

## Approvals / Certificates




### Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 61535	71- 102984
	CCA DEKRA Certification B.V.	IEC 61535	NL-49482


### Ship Approvals

Certificate





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

Logo	Approval	Additional Approval Text	name
	<b>ABS</b> American Bureau of Shipping	Steel Vessel Rules	19- HG1869855- PDA
	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z6
	<b>LR</b> Lloyds Register	EN 61535	08/20047 (E2)

#### UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>cURus</b> Underwriters Laboratories Inc.	UL 1977	E45171

#### Counterpart

	<b>Item no.890-203</b> Socket; 3-pole; Cod. A; 1,50 mm <sup>2</sup> ; black	<a href="http://www.wago.com/890-203">www.wago.com/890-203</a>
	<b>Item no.890-103</b> Socket; with strain relief housing; 3-pole; Cod. A; 1,50 mm <sup>2</sup> ; black	<a href="http://www.wago.com/890-103">www.wago.com/890-103</a>
	<b>Item no.891-8993/005-101</b> pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. A; 1 m; 1,00 mm <sup>2</sup> ; black	<a href="http://www.wago.com/891-8993/005-101">www.wago.com/891-8993/005-101</a>
	<b>Item no.891-8993/105-101</b> pre-assembled connecting cable; Eca; Socket/open-ended; 3-pole; Cod. A; 1 m; 1,00 mm <sup>2</sup> ; black	<a href="http://www.wago.com/891-8993/105-101">www.wago.com/891-8993/105-101</a>

#### Downloads

##### CAD/CAE-Data

##### CAD data

2D/3D Models 890-813/011-000	URL	Download

##### PCB Design

Symbol and Footprint 890-813/011-000

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[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
- Altium 6 to current version
- 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

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

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## Installation Notes

### Product family

**<i>WINSTA</i>® MINI**

[Show all products from the family](#)

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

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