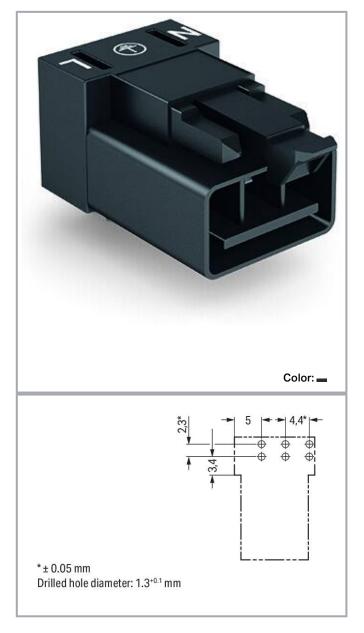
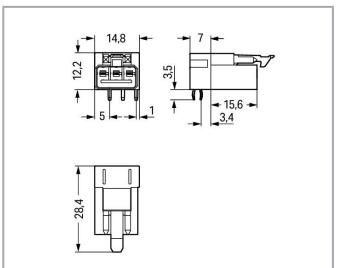
Plug for PCBs; angled; 3-pole; Cod. A; black

www.wago.com/890-813/011-000







 $\label{lem:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$



Item description

Male connector/plug WINSTA® MINI with protection against mismating

The WINSTA® MINI male connector/plug with protection against mismating are compact but outstanding PCB terminal blocks. They offer convenient operation and the greatest flexibility for installation. The pluggable PCB connectors with spring pressure connection technology and Push-in CAGE CLAMP® technology from WAGO allow maintenance free terminal connections. The coding options reduce installation errors, allowing fast, maintenance-free wiring of all components. Standard mains applications for almost any domain of use can be implemented with WINSTA® MINI pcb connectors with A coding. Due to its particularly compact dimensions, our WINSTA® MINI Pluggable Connection System with Push-in CAGE CLAMP® spring pressure connection technology is especially suitable in very restricted spaces, i.e., for connections when very little room is available.

WINSTA® MINI solutions for your electrical installation – protected against mismating and maintenance-free

The WINSTA® Pluggable Connection System is ideally tailored to the strict requirements of building installation. It makes electrical installation pluggable, and consequently more efficient, even more reliable, and error-free. Using this pre-assembled system decreases assembly times and errors during installation at the construction site. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with protection against mismating from WAGO.

- pcb connectors with protection against mismating
- easy tool-free operation, a wide range of coding options
- with A coding for use in many general mains applications
- fast, secure installation

Data

Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal 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

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

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Ratings per UL 1977

Note for the US market	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.
Rated voltage (UL 1977)	600 V
Rated current UL 1977	14 A

General information

approx. $0.25~\text{m}\Omega$ contact transition plug/socket	Note on contact resistance	approx. 1 $m\Omega$ of contact resistance
		approx. 0.25 m Ω contact transition plug/socket

Connection data

Total number of potentials	3
Number of levels	1
PE function	Preceding PE contact

Connection 1

Physical data

Pin spacing	4.4 mm / 0.173 inches
Width	14.8 mm / 0.583 inches
Height	15.7 mm / 0.618 inches
Height from the surface	12.2 mm / 0.48 inches
Depth	28.4 mm / 1.118 inches
Solder pin length	3.5 mm
Solder pin dimensions	1 x 0.8 mm
Drilled hole diameter with tolerance	1.3 ^(±0.1) mm

Mechanical data

Application	General mains applications
Coding	A
Variable coding	No
Marking	N ↓ L

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Potential marking	N ↓ L
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
Design	angled

Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
Mismating protection	Yes
Note on mismating protection	All WINSTA® components are 100% protected against mismating when: a.) plugging different numbers of poles b.) plugging while rotated 180 c.) plugging while laterally staggered d.) plugging one pole
Mating direction to the PCB	0°
Locking lever	yes
Locking of plug-in connection	locking lever
Note on locking system	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).

PCB contact

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

Material data

Noto	(material	40+01
NOTE	unarenai	ualai

Information on material specifications can be found here

Color	black
Cover color	gray
Material group	I
Insulation material	Polyamide (PA66)

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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Flammability class per UL94	Vo
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.07 MJ
Weight	3.3 g

Environmental requirements

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

Commercial data

eCl@ss 10.0	27-44-06-05
eCl@ss 9.0	27-44-06-05
ETIM 8.0	EC002560
ETIM 7.0	EC002560
ECCN	NO DATA
PU (SPU)	100 pcs
Packaging type	box
Country of origin	PL
GTIN	4050821695691
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

Logo	Approval	Additional Approval Text	Certificate name
KEMA	CCA DEKRA Certification B.V.	EN 61535	71- 123231
	CCA DEKRA Certification B.V.	IEC 61535	NL-85020
	cURus	UL 1977	E45171

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Underwriters Laboratories Inc.



Declaration	Declarations of conformity and manufacturer's declarations		
Logo	Approval	Additional Approval Text	Certificate name
(EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK	WAGO GmbH & Co. KG	-	-

Approvals for marine applications Certificate Approval Additional Approval Text Logo name Steel Vessel Rules 19-American Bureau of Shipping HG1869855-PDA **DNV GL** TAE00001Z6 Det Norske Veritas, Germanischer Lloyd DNV LR EN 61535 08/20047 Lloyds Register (E2)

Counterpart

Counterpar	Item no.890-203 Socket; 3-pole; Cod. A; 1,50 mm²; black	www.wago.com/890-203
AF TO	Item no.890-103 Socket; with strain relief housing; 3-pole; Cod. A; 1,50 mm²; black	www.wago.com/890-103
-00	Item no.891-8993/005-101 pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. A; 1 m; 1,00 mm²; black	www.wago.com/891-8993/005-101
-01	Item no.891-8993/105-101 pre-assembled connecting cable; Eca; Socket/open-ended; 3-pole; Cod. A; 1 m; 1,00 mm²; black	www.wago.com/891-8993/105-101

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Download

Downloads CAD/CAE-Data

CAD data

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

PCB Design

Symbol and Footprint 890-813/011-000 URL

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

CAE data

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Asset Administration Shell

Asset Administration Shell 890-813/011-000 URL Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 890-813/011-000 URL Download

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

Installation Notes

Product family

WINSTA® MINI

Show all products from the family

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