Data sheet | Item number: 890-223 Socket; 3-pole; Cod. A; 1,50 mm²; white www.wago.com/890-223 N/AG0





Item description

Female connector/socket *WINSTA®* MINI with protection type IP20

The *WINSTA®* MINI female connector/socket with protection against mismating supports fast, reliable installation. WAGO pluggable installation connectors are useful when specifications repeat or are distributed on a specified grid, for example for installing grid lighting or flush-mount lighting. The coding options reduce installation errors, allowing fast, secure wiring of all components. Standard mains applications for almost any domain of use can be implemented with *WINSTA®* MINI pluggable installation connectors with A coding. *WINSTA®* MINI satisfies the demand for miniaturisation. Our smallest pluggable connection system is especially suitable for lights, for example, since due to LED technology, these offer much less space for the connection technology.

Push-in CAGE CLAMP[®] spring pressure connection technology – pluggable installation instead of laborious screw connections!

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

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The WINSTA® Pluggable Connection System is ideally tailored to the very strict requirements of building installation. It makes electrical installation pluggable, and thus more efficient, even more reliable, and error-free. Using this pre-assembled system decreases time spent on assembly and installation errors at the construction site. Now you can also cut installation costs without compromising quality and safety: The *WINSTA®* MINI pluggable installation connector with protection against mismating eliminates the need for servicing and prevents unnecessary downtime.

- pluggable installation connectors with protection against mismating
- compact design for conductors with a cross-section up to 1.5 mm²
- with A coding for use in a large number of general mains applications
- ready for immediate use
- 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

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

Note on contact resistance	approx. 1 m Ω of contact resistance
	approx. 0.25 m Ω contact transition plug/socket

Connection data

Connection points

3

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Total number of potentials

3

Connection 1

Connection technology	Push-in CAGE CLAMP [®]
Actuation type	Operating tool
	Push-in
Nominal cross-section	1.5 mm² / 16 AWG
Solid conductor	0.25 1.5 mm² / 22 16 AWG
Solid conductor; push-in termination	0.75 1.5 mm² / 20 16 AWG
Stranded conductor	0.25 1 mm² / 22 18 AWG
Fine-stranded conductor	0.25 1.5 mm² / 22 16 AWG
Fine-stranded conductor; with insulated ferrule	0.25 0.75 mm² / 22 20 AWG
Fine-stranded conductor; with uninsulated ferrule	0.25 0.75 mm² / 22 20 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.75 mm² / 20 AWG
Strip length	9 mm / 0.35 inches
Pole number	3
Conductor entry direction to mating direction	0 °

Physical data

Pin spacing	4.4 mm / 0.173 inches
Width	15 mm / 0.591 inches
Height	11.7 mm / 0.461 inches
Depth	34.1 mm / 1.343 inches

Mechanical Data

General mains applications
A
No
$L \stackrel{.}{\Rightarrow} N$
$L \neq N$
approx. 20 70 N (depending on pole number)
Locked: > 80 N
Unlocked: approx. 20 70 N (depending on pole number)
200, without resistive load
IP20; IP40 with strain relief housing

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Plug-in connection

Contact type (pluggable connector)	Female connector/socket
Connector (connection type)	for conductor
Mismating protection	Yes
Note on mismating protection	All <i>WINSTA[®]</i> 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
Locking lever	Can be retrofitted
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).

Material Data

Note (material data)

Information on material specifications can be found here

Color	white
Cover color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Copper or copper alloy; surface-treated
Contact plating	Tin
Fire load	0.104 MJ
Weight	3.8 g

Environmental requirements

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

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Commercial data

Product Group	20 (Winsta)
eCl@ss 10.0	27-44-06-05
eCl@ss 9.0	27-44-06-05
ETIM 8.0	EC002560
ETIM 7.0	EC002560
PU (SPU)	50 pcs
Packaging type	box
Country of origin	PL
GTIN	4055143548526
Customs tariff number	85366990990

Environmental Product Compliance

RoHS Compliance Status

Compliant,No Exemption

Approvals / Certificates

General approvals

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

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
Ce	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
	LIK Declaration of Conformity		

UK-Declaration of Conformity WAGO GmbH & Co. KG

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UK CA

Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name	
ABS.	ABS American Bureau of Shipping	Steel Vessel Rules	19- HG1869855 PDA	
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001Z	
THE APPENDIX	LR Lloyds Register	EN 61535	08/20047 (E2)	
Counterpar	t			
	Item no.890-233 Plug; 3-pole; Cod. A; 1,50 mm²; white		www.wago.com/890-233	
in the second	n no.890-133 g; with strain relief housing; 3-pole; 1,50 mm²; white		www.wago.com/890-133	
	Item no.890-656 T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 2 locking levers; white		www.wago.com/890-656	
No Po	Item no.890-665 T-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; 3 locking levers; for flying leads; white		www.wago.com/890-665	
and and	Item no.890-684 h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; white	outputs on one side; 2 locking levers;	www.wago.com/890-684	
	ltem no.890-686			

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Data sheet | Item number: 890-223 www.wago.com/890-223





h-distribution connector; 3-pole; Cod. A; 1 input; 2 outputs; outputs on one side; 3 locking levers; for flying leads; white www.wago.com/890-686

	Item no.890-733 Snap-in plug; 3-pole; Cod. A; 1,50 mm²; white	www.wago.com/890-733	
D.	ltem no.890-833	www.wago.com/890-833	
	Plug for PCBs; straight; 3-pole; Cod. A; white	www.wago.com/890-835	
Ter.	ltem no.890-833/011-000	www.wago.com/890-833/011-	
- Ce	Plug for PCBs; angled; 3-pole; Cod. A; white	000	
-10 (m)	Item no.891-8993/005-102	www.wago.com/891-8993	
	pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. A; 1 m; 1,00 mm²; white	/005-102	
	ltem no.891-8993/205-102	www.wago.com/891-8993	
	pre-assembled connecting cable; Eca; Plug/open-ended; 3-pole; Cod. A; 1 m; 1,00 mm²; white	/205-102	

Required accessories

Strain relief

Strain relief housing



Item no.: 890-513 Strain relief housing; 3-pole; with locking clip; for 1 cable; 4.5 ... 10.0 mm; 37 mm; white

www.wago.com/890-513

www.wago.com/890-503

www.wago.com/890-111

www.wago.com/890-101

www.wago.com/890-121

22	I
60	ç

Item no.: 890-503

Strain relief housing; 3-pole; with locking clip; for 1 cable; 4.5 ... 10.0 mm; 37 mm; black

Locking levers







ltem no.: 890-101

Locking lever; for manual operation; black



Item no.: 890-121 Locking lever; for manual operation; white

www.wago.com/890-131

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Locking lever; for flying leads; for tool operation; white

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Item no.: 890-131



Cover				
Cover				
	ltem no.: 897-2001			a a m /007, 0001
	Protective cap; Type1; for sockets and plugs; PVC; red		www.wago	.com/897-2001
Shield termin	nation			
Shield term	ination			
- to	ltem no.: 890-523			aam/000 E00
p	Shield connecting plate; 3-pole; for sockets and plugs; silver-colored		www.wago	.com/890-523
Mounting				
Mounting a	ccessories			
Bait	ltem no.: 890-310		www.wago.com/890-310	
1	Mounting carrier; 2- to 5-pole; for flying leads; black			
6.00	ltem no.: 890-311			1000 011
10	Mounting carrier; 2- to 5-pole; for flying leads; white		www.wago.com/890-311	
Tool				
Operating t	cool			
P	Item no.: 210-719			
	Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft		www.wago.com/210-719	
	ltem no.: 890-383			/222.222
-	Operating tool; 3-way; green		www.wago.com/890-383	
Downloads Documenta				
Bid Text				
890-223		2019 Feb 19	xml	Download
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23.0 kB



CAD/CAE-Data

CAD data		
2D/3D Models 890-223	URL	Download
CAE data		
EPLAN Data Portal 890-223	URL	Download
WSCAD Universe 890-223	URL	Download
ZUKEN Portal 890-223	URL	Download
Environmental Product Compliance		
-		
Compliance Search		
Environmental Product Compliance 890-223	URL	Download
Socket; 3-pole; Cod. A; 1,50 mm²; white		

Installation Notes

Conductor termination



1. Strip length, outer insulation = 30 mm (2-pole), 37 mm (3-pole), 45 mm (4- and 5-pole)

2. Strip length = 9 mm

3. Extended ground conductor = 8 mm



To terminate fine-stranded conductors, open the clamping unit via screwdriver – 2.5 mm blade width – and insert a stripped conductor until it hits the backstop. Terminate solid conductors by simply pushing them in.

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Data sheet | Item number: 890-223 www.wago.com/890-223





To terminate fine-stranded conductors, open clamping units via operating tool (890-382) and insert stripped conductors until they hit backstop.



To terminate fine-stranded conductors, open clamping units via operating tool (890-383) and insert stripped conductors until they hit backstop.

Terminate solid conductors by simply pushing Terminate solid conductors by simply pushing them in.

Installation

them in.



Latch the wired connector into the base of the strain relief housing.



Push down strain relief clamp by hand.

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Push down strain relief clamp with 2.5 mm screwdriver alternately on both sides.



Latch the top of the strain relief housing.



The printed marking of the connector is clearly visible in the openings of the strain relief housing.

Shield termination



Connector with shield termination

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Apply the shield to the sheathed cable.

Strip length, outer insulation = 30 mm

Shield length = 8 mm

Push the shield connecting plate into the connector until fully inserted.



First insert the wired connector into strain relief housing, then snap clamp and cover.

Product family

WINSTA® MINI Show all products from the family

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