

Data sheet | Item number: 770-2313

Snap-in plug; 3-pole; Cod. P; 4,00 mm²; red

www.wago.com/770-2313



Color:

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

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Dimensions in mm

Plate thickness: 0.5 ... 2 mm

Cutout tolerance: + 0.1 mm

Please note!

Item description

Male connector/plug *WINSTA*® MIDI 3-pole

For power and signal transmission: The *WINSTA*® MIDI male connector/plug with locking latch. The pluggable installation connectors with spring pressure connection technology function completely without screw connections. They allow flexible, error-free installation in a large number of

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applications. The coding options reduce installation errors, allowing fast, maintenance-free wiring of all components. The pluggable installation connector is protected against ingress by solid objects in accordance with protection type IP20 (When mated: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!)). *WINSTA*® MIDI pluggable installation connectors with P coding are used for applications involving uninterruptible power supplies. This pluggable installation connector can be used for electrical currents up to 25 A. Thus the product is especially suitable for high power loads. *WINSTA*® MIDI with Push-in CAGE CLAMP® spring pressure connection technology is found in a broad range of individual products you can use for quick, easy and maximally flexible installation.

Lower costs through fast commissioning and elimination of service expenses – solutions from *WINSTA*® MIDI

The *WINSTA*® Pluggable Connection System allows pluggable electrical installation. This saves time, lowers costs, and reduces the need for servicing. Enjoy the benefits of the pluggable version of our maintenance-free spring pressure connection technology too! Plan your installation with with locking lever from WAGO.

-
- pluggable installation connectors with protection against mismatching
- for automation controllers
- for UPS applications
- ready to install and use immediately
- fast, secure installation

Data

Notes

| | |
|------|--|
| Note | The snap-in connectors must be relieved of tensile and transverse forces. A surface finish can influence the edge radius of the cutouts. This may affect the snap-in socket fit, so ensure an adequate fit before use. In addition, the punched edge should be on the inside for punched cutouts. The wings of the snap-in connectors must not be mechanically stressed for a long period before use (e.g., due to a pre-locking position). |
|------|--|

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 |

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| | |
|------------------|---|
| Rated current | 25 A |
| Legend (ratings) | (III / 3) $\hat{=}$ 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 16 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 | 23 A |

General information

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

Connection data

| | |
|----------------------------|----------------------|
| Connection points | 6 |
| Total number of potentials | 3 |
| PE function | Preceding PE contact |

Connection 1

| | |
|--|--|
| Connection technology | Push-in CAGE CLAMP [®] |
| Actuation type | Operating tool Push-in |
| Nominal cross-section | 4 mm ² / 12 AWG |
| Solid conductor | 0.5 ... 4 mm ² / 20 ... 12 AWG |
| Solid conductor; push-in termination | 1.5 ... 4 mm ² / 16 ... 12 AWG |
| Stranded conductor | 0.5 ... 2.5 mm ² / 20 ... 14 AWG |
| Fine-stranded conductor | 0.5 ... 4 mm ² / 20 ... 12 AWG |
| Fine-stranded conductor; with insulated ferrule | 0.25 ... 1.5 mm ² / 20 ... 16 AWG |
| Fine-stranded conductor; with uninsulated ferrule | 0.25 ... 2.5 mm ² / 20 ... 14 AWG |
| Fine-stranded conductor; with ferrule; push-in termination | 1.5 mm ² / 16 AWG |
| Strip length | 9 mm / 0.35 inches |
| Pole number | 3 |
| Conductor entry direction to mating direction | 0° |

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Physical data

| | |
|-------------|------------------------|
| Pin spacing | 10 mm / 0.394 inches |
| Width | 35.5 mm / 1.398 inches |
| Height | 17.5 mm / 0.689 inches |
| Depth | 41.1 mm / 1.618 inches |

Mechanical Data

| | |
|---|---|
| Application | EDV (UPS) |
| Coding | P |
| Variable coding | No |
| Marking | N ∇ L |
| 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 |
| Housing sheet thickness | 0.5 ... 2 mm / 0.02 ... 0.079 inches |
| Mounting type | Snap-in flange |
| Protection type | IP20; When mated: IP2xC (These compact connectors are not designed for use in open, easily accessible areas!) |

Plug-in connection

| | |
|------------------------------------|--|
| Contact type (pluggable connector) | Male connector/plug |
| 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 | 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 |

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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 | red |
| 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 | 0.272 MJ |
| Weight | 12.1 g |

Environmental requirements

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

Commercial data

| | |
|-----------------------|---------------|
| Product Group | 20 (Winsta) |
| eCl@ss 10.0 | 27-44-06-02 |
| eCl@ss 9.0 | 27-44-06-02 |
| ETIM 8.0 | EC002566 |
| ETIM 7.0 | EC002566 |
| PU (SPU) | 100 pcs |
| Packaging type | box |
| Country of origin | DE |
| GTIN | 4045454396886 |
| Customs tariff number | 85366990990 |

Environmental Product Compliance

| | |
|------------------------|-------------------------|
| RoHS Compliance Status | Compliant, No Exemption |
|------------------------|-------------------------|

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Approvals / Certificates

General approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------|--|--------------------------|------------------|
| | CCA DEKRA Certification B.V. | EN 61535 | 71-123228 |
| | CCA DEKRA Certification B.V. | IEC 61535 | NL -84761 |
| | cURus Underwriters Laboratories Inc. | UL 1977 | E45171 |
| | cURus Underwriters Laboratories Inc. | UL 1059 | E 45172 |

Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications

| Logo | Approval | Additional Approval Text | Certificate name |
|------|---|--------------------------|------------------|
| | ABS American Bureau of Shipping | - | 19-HG1868589-PDA |
| | DNV GL Det Norske Veritas, Germanischer Lloyd | - | TAE00001Z6 |

Counterpart

| | |
|---|--|
| Item no.770-1303 Socket; 3-pole; Cod. P; 4,00 mm ² ; red | www.wago.com/770-1303 |
| Item no.771-9973/106-101 pre-assembled connecting cable; Eca; Socket/open-ended; 3-pole; Cod. P; H05VV-F 3G 1.5 mm ² ; 1 m; 1,50 mm ² ; red | www.wago.com/771-9973/106-101 |
| Item no.771-9973/006-101 pre-assembled interconnecting cable; Eca; Socket/plug; 3-pole; Cod. P; H05VV-F 3G 1.5 mm ² ; 1 m; 1,50 mm ² ; red | www.wago.com/771-9973/006-101 |

Optional accessories

Coding

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Coding

Item no.: 770-401

Coding pin; for plugs; Plastic; gray

www.wago.com/770-401

Cover

Cover

Item no.: 770-693

Lockout cap; 3-pole; for cutouts; Plastic; white

www.wago.com/770-693**Item no.: 770-643**

Lockout cap; 3-pole; for cutouts; Plastic; black

www.wago.com/770-643**Item no.: 770-360**

Lockout cap; for plugs; 5-pole; separable; yellow

www.wago.com/770-360

Tool

Operating tool

Item no.: 210-719

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

www.wago.com/210-719**Item no.: 770-383**

Operating tool; 3-way; green

www.wago.com/770-383

Downloads

Documentation

Bid Text

| | | | |
|-------------------------|-------------|----------------|----------|
| 770-2313 X81 - Datei | 2019 年2月19日 | xml 3.0 kB | Download |
| 770-2313 doc - Datei | 2015 年6月8日 | doc 23.6 kB | Download |

CAD/CAE-Data

CAE data

| | | |
|----------------------------|-----|----------|
| EPLAN Data Portal 770-2313 | URL | Download |
| WSCAD Universe 770-2313 | URL | Download |
| ZUKEN Portal 770-2313 | URL | Download |

CAD data

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 770-2313

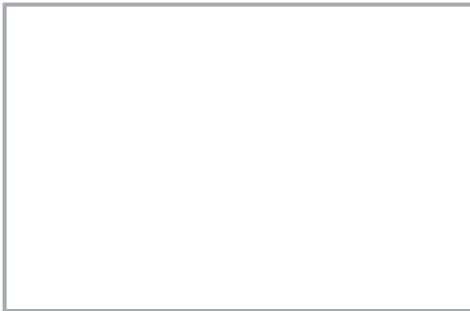
[URL](#)

[Download](#)

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Installation Notes

Conductor termination



1. Strip length, outer insulation = 35 mm (2-pole), 55 mm (3- to 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.



Insert the stripped solid conductor until it hits the backstop.



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.

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Conductor removal



To remove the conductor, actuate the clamp via screwdriver (2.5 mm blade width) and pull out the conductor.



Seal unused cutout with lockout cap.

Product family

WINSTA® MIDI

[Show all products from the family](#)

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