

MELTRIC Corporation

The best in industrial wiring devices



At MELTRIC Corporation, our only business is electrical plugs and receptacles. We are focused on providing our customers with the best overall value by offering the safest, highest quality and most reliable plugs and receptacles, and by backing them with outstanding service and support.

DS100 Switch-Rated Plugs & Receptacles – 100 A

Dead Front Construction

Most MELTRIC products feature dead front construction, which greatly enhances safety by eliminating any unintended access to live parts. On most MELTRIC products, the dead front is accomplished with a safety shutter that can be opened only by an appropriate mating plug. The live receptacle contacts can only be accessed by the plug, after its insertion into the receptacle. The design of the product also ensures that the plug contacts are dead before the user can remove the plug from the receptacle.

By contrast, pin and sleeve and twist-type devices do not have a safety shutter. Access to live receptacle contacts is possible, and on some devices the plug contacts may be live and accessible when the plug is being removed.



Lockout-Tagout Capability

Most MELTRIC plugs and receptacles facilitate compliance with OSHA lockout-tagout requirements. Only a lock or lockout hasp and tag are needed to ensure that the plug is properly locked out and tagged out. Additional mechanisms are not required because the lockout provision is integral to the device – it is always available when you need it. On most models the lockout provision is a simple 5/16" hole in the plug shroud that facilitates the insertion of a typical padlock or lockout hasp which prevents the plug from being inserted into a receptacle.

An optional provision for locking out MELTRIC receptacles is also available. In most cases this is accomplished via a specially machined hole in the receptacle casing which allows insertion of a padlock to secure the receptacle lid in a closed position. This same optional provision can be used to prevent removal of the plug if desired.

By comparison, in order to lockout most competitive pin and sleeve type plugs, an additional third-party 'lockout shield' or 'plug cap' is required. These devices can be expensive and are often times lost, broken, or not available when you need them.



Enclosed Arc Chambers

The contacts on most MELTRIC products make and break within enclosed arc chambers. This ensures that the arcing which normally occurs during the making and breaking of the contacts is contained inside the device. This greatly enhances safety and avoids potential injury to users and/or harm to the outside environment.



Push-Button Circuit Disconnection

To disconnect most MELTRIC products, the user simply needs to press the pawl. This causes the circuit to be disconnected and the plug to be ejected to its rest (off) position in the receptacle. If desired, the user can then remove the plug from the receptacle by rotating it slightly and then withdrawing it. This mode of operation ensures that it is only possible to remove the plug after its contacts have been deenergized.



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DS100 Switch-Rated Plugs & Receptacles – 100 A

UL/CSA Ratings

- Max Amperage & Voltage**
100 A, 600 VAC
- Switch-Rating (AC Only)**
Branch Circuit & Motor Circuit Disconnect Switching
- Horsepower Ratings**

| | | |
|------|----|--------|
| 120V | 1Ø | 3 hp |
| 240V | 1Ø | 7.5 hp |
| 208V | 3Ø | 10 hp |
| 240V | 3Ø | 10 hp |
| 480V | 3Ø | 30 hp |
- Short Circuit Rating**
65kA Close & Withstand
Testing was performed with RK5 time delay fuses sized at 100% of the devices rated ampacity. Alternate testing was performed with 175 A RK1 non-time delay Mersen fuses.
- Environmental Ratings**
Type 4X (Poly Standard)
Type 3R (Metal Standard)
Type 4X (Metal Optional)
- Temperature Range**
Min -40°F/Max 140°F
See pg 258 for temps below -15°F.
- Wiring Capacity**
Min 4 AWG Max 2/0 AWG
Aux Contacts - Max 14 AWG
Based on THHN wire sizes
- Certifications**
UL 2682, UL 1682, CSA 182.1

Receptacle (female)

Inlet (male)



H If you have an existing removable and/or permanently attached drawbar, contact customer service.

! Don't forget to add installation accessories to your order

North American UL/CSA Configuration

| Voltage | Polarity | Part # | | Part # | |
|----------|----------|----------|----------|----------|----------|
| | | Poly | Metal | Poly | Metal |
| 120V | 1P+N+G | 33-94165 | 37-94165 | 33-98165 | 37-98165 |
| 120 208V | 3P+N+G | 33-94167 | 37-94167 | 33-98167 | 37-98167 |
| 125V | 1P+N+G | 33-94075 | 37-94075 | 33-98075 | 37-98075 |
| 125 250V | 2P+N+G | 33-94076 | 37-94076 | 33-98076 | 37-98076 |
| 208V | 2P+G | 33-94162 | 37-94162 | 33-98162 | 37-98162 |
| 208V | 3P+G | 33-94163 | 37-94163 | 33-98163 | 37-98163 |
| 250V | 2P+G | 33-94072 | 37-94072 | 33-98072 | 37-98072 |
| 250V | 3P+G | 33-94073 | 37-94073 | 33-98073 | 37-98073 |
| 277V | 1P+N+G | 33-94045 | 37-94045 | 33-98045 | 37-98045 |
| 277 480V | 3P+N+G | 33-94047 | 37-94047 | 33-98047 | 37-98047 |
| 347 600V | 3P+N+G | 33-94147 | 37-94147 | 33-98147 | 37-98147 |
| 480V | 2P+G | 33-94042 | 37-94042 | 33-98042 | 37-98042 |
| 480V | 3P+G | 33-94043 | 37-94043 | 33-98043 | 37-98043 |
| 600V | 2P+G | 33-94142 | 37-94142 | 33-98142 | 37-98142 |
| 600V | 3P+G | 33-94143 | 37-94143 | 33-98143 | 37-98143 |

Main Options



| Receptacle Options | Suffix # | Inlet Options | Suffix # |
|------------------------------------|----------------------------|---------------------------------|---------------------------|
| With 2 Auxiliary/Pilot Contacts | Recept # - 262 | With 2 Auxiliary/Pilot Contacts | Inlet # - 262 |
| With 3 Auxiliary/Pilot Contacts | Recept # - 263 | With 3 Auxiliary/Pilot Contacts | Inlet # - 263 |
| With 4 Auxiliary/Pilot Contacts | Recept # - 264 | With 4 Auxiliary/Pilot Contacts | Inlet # - 264 |
| With 5 Auxiliary/Pilot Contacts | Recept # - 975 | With 5 Auxiliary/Pilot Contacts | Inlet # - 975 |
| With 6 Auxiliary/Pilot Contacts | Recept # - 976 | With 6 Auxiliary/Pilot Contacts | Inlet # - 976 |
| Type 4X & Closed Lid Configuration | Recept # - 4X ⁱ | Type 4X Watertightness | Inlet # - 4X ⁱ |
| Straight Insertion | Recept # - 352 | Self-Ejecting Plug Release | Inlet # - 338 |
| Self-Ejecting Connector Release | Recept # - 354 | With No Lockout Hole | Inlet # - A155 |
| Mushroom Pawl | Recept # - 375 | For Auxiliary Switch | Inlet # - NNF* |
| Padlock Pawl | Recept # - 843 | | |
| Padlockable Mushroom Pawl | Recept # - 375-843 | | |
| Screw-Type Locking Pawl | Recept # - 845 | | |
| Metal Pawl (on Poly Receptacle) | Recept # - 824 | | |
| 180° Opening Lid (metal only) | Recept # - 180++ | | |
| Closed Lid Configuration | Recept # - NC | | |
| With Auxiliary Switch | Recept # - 270+ | | |

Notes: * Order inlet with P+N+G configuration and receptacle with P+G configuration.
i Metal devices only.



Notes: + Not UL/CSA listed.
++ Required when mating to rigid mounted male inlet.
i Metal devices only.

Order Example: 480V DS100 + 2 auxiliary contacts
DS100 Poly inlet 3P+G = 33-98043-262


INSTALLATION ACCESSORIES – SIZE 5

Unless indicated otherwise, accessories can be used with either poly or metal plugs and receptacles.

HANDLES


| HANDLE w/NPT | Part # Poly | Part # Metal |
|---|-------------|--------------|
|  Poly 3/4" | 515P0N07 | 595P0N07 |
| 1" | 515P0N10 | 595P0N10 |
| 1 1/4" | 515P0N12 | 595P0N12 |
|  Metal 1 1/2" | 515P0N15 | 595P0N15 |
| For metal devices only 2" | 515P0N20 | 595P0N20 |

For available cord grips, see page 167.


| POLY HANDLE w/CORD GRIP | Cable Range | Part # |
|---|----------------|----------|
|  | .980 - 1.260" | 715P0EP4 |
| | 1.260 - 1.560" | 715P0FP1 |
| | 1.520 - 1.860" | 715P0GP2 |


| METAL HANDLE w/CORD GRIP | Part # |
|---|-----------|
|  | 795P0FS1 |
| | 795P0FS2* |
| | 795P0FS3* |
| For metal devices only | 795P0GS1 |

*May require stripping of cable jacket.

| METAL OVERSIZED HANDLE w/NPT | Part # |
|--|----------|
|  | 795P0N07 |
| 3/4" | 795P0N10 |
| 1" | 795P0N12 |
| 1 1/4" | 795P0N15 |
| 1 1/2" | 795P0N20 |
| For metal devices only | 795P0N25 |
| 2" | |
| 2 1/2" | |

For available cord grips, see page 167.

| SANTOPRENE HANDLE | Part # |
|---|----------|
|  | 555P0D25 |
| .70 - 1.000" | 555P0D35 |
| .984 - 1.377" | 555P0D45 |
| IP66/IP67 | |


| POLY HANDLE w/CLAMP & BUSHING | Part # |
|---|----------|
|  | 715P0S22 |
| 1.250 - 1.375" | 715P0S25 |
| 1.438 - 1.562" | 715P0S27 |
| 1.562 - 1.688" | 715P0S29 |
| 1.688 - 1.812" | |


ANGLES

| POLY ANGLE | Part # |
|---|--------|
|  30° | 515M3 |


| METAL ANGLE | Part # |
|--|--------|
|  0° | 595M0 |

| | |
|---|-------|
|  30° | 595M3 |
|---|-------|

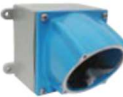
| | | |
|---|-------|--|
|  Oversized 30° | 795M3 | Mounts on oversize box only. Order with 7T6F0N25XL. See pg 52. |
|---|-------|--|

| | |
|---|-------|
|  70° | 595M7 |
|---|-------|


BOXES

| POLY ANGLE WITH METAL BOX w/NPT | Part # |
|--|----------|
|  30° 1 1/4" | 715C3N12 |
| 30° 1 1/2" | 715C3N15 |
| 30° 2" | 715C3N20 |
| * 108.7 in ³ 30° 2 1/2" | 715C3N25 |

* Interior volume with receptacle installed.

| METAL ANGLE WITH METAL BOX w/NPT | Part # |
|--|----------|
|  30° 1 1/4" | 795C3N12 |
| 30° 1 1/2" | 795C3N15 |
| 30° 2" | 795C3N20 |
| * 111.8 in ³ 30° 2 1/2" | 795C3N25 |

* Interior volume with receptacle installed.

| METAL BOX w/NPT | Part # |
|---|----------|
|  0° 1 1/4" | 7T5F0N12 |
| 0° 1 1/2" | 7T5F0N15 |
| 0° 2" | 7T5F0N20 |
| 0° 2 1/2" | 7T5F0N25 |


NPT on top or bottom (if rotated). For other NPT configurations, contact customer service.

MISCELLANEOUS ACCESSORIES

| PROTECTIVE INLET/PLUG CAP | Part # | Description |
|---|----------|---|
|  | 31-9A426 | For Inlets/Plugs Only. Covers lockout hole for watertight seal on inlet. Consult Customer Service for availability. |

| PADLOCKABLE INLET/PLUG CAP | Part # | Description |
|---|--------|---|
|  | DS9MC | Aluminum – For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection. |

| CORD GRIP with MESH | Part # |
|---|------------|
|  | see pg 167 |

| EASY RETROFIT ADAPTER PLATES | Part # | Description |
|---|------------|--------------------------|
|  | see pg 164 | Mount to existing boxes. |

| RECEPTACLE LOCKING PIN | Part # | Description |
|---|--------|--|
|  | LP-843 | Requires Padlockable Pawl option (-843) on receptacle. |

