

DR400

High Amperage Plug and Receptacle



Main Advantages

- ▶ Exclusive contact technology maximizes performance and durability
- ▶ Safety features protect workers
- ▶ Easy plug insertion and removal



Watch the DR400 video and other product videos at meltric.com/video

- ▶ Features and Ratings p. 130
- ▶ DR400 p. 131
- ▶ Dimensions p. 132

PRODUCT FEATURES

Locking Pawl (padlockable)

Prevents accidental disconnection and makes lockout-tagout easy.

Easy Closing Mechanism

Users can mate the plug to the receptacle with relative ease.

5/16" hole

Safety Shutter

Helps prevent user access to live parts.

Spring Assisted Screw Terminals

Patented design assures "Tighten and Forget" confidence.

Silver-Nickel Contact Material

Solid silver-nickel contact surfaces provide superior conductivity, durability and corrosion resistance.

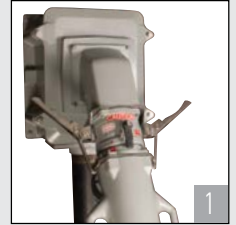
2 Pilot Contacts (not visible)

Provides a secondary circuit to monitor parameters or control equipment.

Plug Lockout Provision (not visible)

Lockout hole on inlet allows plug to be lock and tagged.

Operating Instructions



Partially insert the plug.



Place the closing mechanism around tabs on inlet.



Push the handles up, the plug is fully drawn into the receptacle.



Use the locking tool and turn clockwise to tighten screw.

HIGH AMPACITY

General Ratings

| | |
|----------------------|--------------------------------------|
| Amperage | 400 A at 480 VAC 350 A at 600 VAC |
| Environmental | IP54 (IP66/IP67 optional) |
| Temperature | min -40°F/max 140°F |

Listings

| Category | UL | CSA |
|-----------------------|---------|-----------------|
| Plugs and Receptacles | UL 1682 | C22.2 No. 182.1 |

Highlighted Feature

Silver-Nickel, Spring-Loaded Butt-Style Contacts



Solid Silver-Nickel, Spring-Loaded Butt Style Contacts maintain optimal contact pressure and superior conductivity even in dirty, corrosive environments.

DR400 Standard Duty Plugs & Receptacles – 400 A

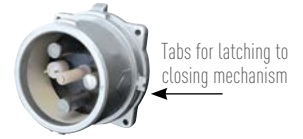
UL/CSA Ratings

- Max Amperage & Voltage**
 400 A Max at 480 VAC
 350 A Max at 600 VAC
- Current Interruption Capability**
 Not for current interrupting
- Short Circuit Rating**
 18kA
 A withstand test was performed with RK1 current limiting fuses sized at at least 100% of the devices ampacity rating.
- Environmental Ratings**
 IP54/IP55*
 *IP54 when the plug & receptacle are mated. IP55 on the receptacle alone when the lid is latched closed.
- Temperature Range**
 Min -40°F / Max 140°F
 See pg 258 for temps below -15°F.
- Wiring Capacity**
 Min 2 AWG Max 500 MCM*
 Aux Contacts – 14 AWG (prewired)
 * Wire size to 500 MCM can be accommodated through use of Cable Reducing Adapters. See Accessory Spotlight.
- Certifications**
 UL 1682
 CSA 182.1

Receptacle (female)



Inlet (male)



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

North American UL/CSA Configuration

| Voltage | Polarity | Part # Metal | Part # Metal |
|---------|-----------|-----------------|-----------------|
| 208V | 3P+G+2PIL | 39-44163-172 | 39-48163-172 |
| 250V | 3P+G+2PIL | 39-44073-172 | 39-48073-172 |
| 480V | 3P+G+2PIL | 39-44043-172 | 39-48043-172 |
| 600V | 3P+G+2PIL | 39-44143-172* | 39-48143-172* |

* 350 A only for 600V models
 Other voltage configurations are available - contact customer service at 800-433-7642

For international configurations and ratings (IEC,CE) visit meltric.com/international-catalog or contact customer service at 800-433-7642.

Key Feature

Standard Locking Pawl



DR400 receptacles are provided with a screw-type locking pawl that prevents accidental disconnections under load.

| Receptacle Options | Suffix # | Inlet Options | Suffix # |
|--------------------------|---------------|----------------------|----------------|
| IP66/IP67 | Recept # - 4X | IP66/IP67 | Inlet # - 4X |
| Closed Lid Configuration | Recept # - NC | With No Lockout Hole | Inlet # - A155 |

Order Example: DR400 with Cable Reducing Adapters

To accommodate 500 MCM cable, cable reducing adapters and an extended angle with spacer accessory is required.

Typical order: 480V 3P+G+2PIL



! See pages 235-244 for detailed information on these options


INSTALLATION ACCESSORIES – SIZE 7

HANDLES

LARGE HANDLE w/NPT Part #

| | | |
|---|--------|-----------------|
|  | 2" | 5T7P0N20 |
| | 2 1/2" | 5T7P0N25 |
| | 3" | 5T7P0N30 |

LARGE HANDLE w/CORD GRIP w/MESH w/Cable Range

| | | |
|---|----------------|------------------|
|  | 2.062 - 2.188" | 5T7P0JT1 |
| | 2.188 - 2.312" | 5T7P0JT2 |
| | 2.312 - 2.438" | 5T7P0JT3* |
| | 2.437 - 2.625" | 5T7P0KT1 |
| | 2.625 - 2.812" | 5T7P0KT2 |




*May require stripping of cable jacket.

STRAIGHT HANDLE W/BUSHING w/Cable Range

| | | |
|---|--------------|-----------------|
|  | 2.09 - 2.25" | 5T7P0D57 |
| | 2.25 - 2.44" | 5T7P0D62 |
| | 2.44 - 2.67" | 5T7P0D68 |
| | 2.67 - 2.87" | 5T7P0D73 |


ANGLES

METAL ANGLE

| | | | |
|---|---------------------------------|-----------------|---|
|  | 0° | 5T7M0 | |
|  | Extended 60° | 5T7M6 | |
|  | Extended 60° with 68 mm spacer. | 5T7M6-68 | Provides space for Cable Reducing Adapters. |


BOXES

METAL ANGLE WITH METAL BOX w/NPT Part #

| | | | |
|---|----|--------|-----------------|
|  | 0° | 2" | 7T7F0N20 |
| | 0° | 2 1/2" | 7T7F0N25 |
| | 0° | 3" | 7T7F0N30 |
| | 0° | 3 1/2" | 7T7F0N35 |
| | 0° | 4" | 7T7F0N40 |

MISCELLANEOUS ACCESSORIES

PROTECTIVE INLET/PLUG CAP

| | | |
|---|-----------------|-----------------------|
|  | 39-2A426 | For Inlet/Plugs Only. |
|---|-----------------|-----------------------|


CABLE REDUCING ADAPTERS

| | | |
|---|---------------------|---|
|  | PT535FX350-3 | Reducer for 500 MCM Fine Stranded or Flexible Wire. |
|  | PT500R350-3 | Reducer for 500 MCM Coarse Stranded or Building Wire. |
|  | PT400R350-3 | Reducer for 400 MCM Wire. |


SPACER

| | | |
|---|------------------|--|
|  | 5T7M0-68 | 68mm (2.68") spacer is used (included) with metal 60° angle. |
|  | 5T7M0-115 | 115mm can be used when mounting to a panel - though the metal straight adapter is preferred. |

PADLOCKABLE INLET/PLUG CAP

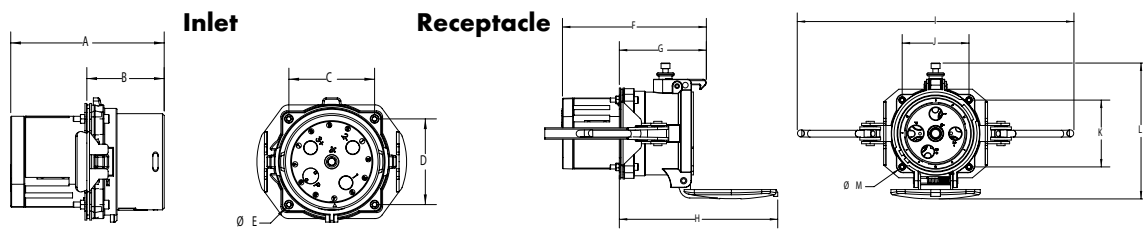
| | | |
|---|--------------|--|
|  | DS2MC | Aluminum – For Inlets/Plugs Only. -A155 suffix required to maintain water ingress protection. |
|---|--------------|--|

RECEPTACLE LOCKING PIN

| | | |
|---|---------------|--|
|  | LP-843 | Requires Padlockable Pawl option (-843) on receptacle. |
|---|---------------|--|

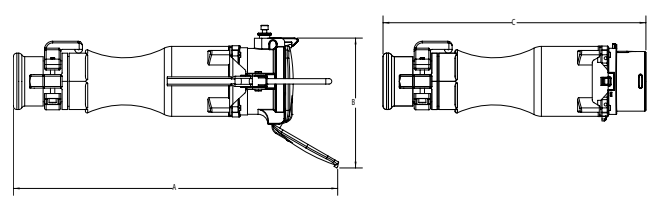
DIMENSIONS – Provided in inches

Dimensions are for reference only and may change depending on accessories used. For precise dimensions contact MELTRIC Engineering.



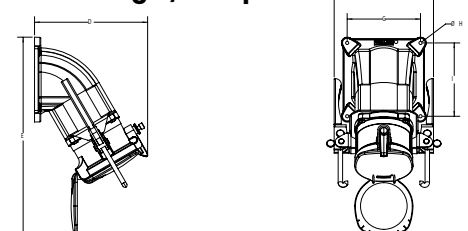
| PRODUCT | A | B | C | D | E | F | G | H | I | J | K | L | øM |
|---------|------|------|------|------|------|------|------|------|-------|------|------|------|------|
| DR400 | 6.61 | 3.48 | 3.86 | 3.86 | 0.26 | 8.31 | 5.03 | 9.15 | 15.98 | 3.86 | 3.86 | 7.85 | 0.26 |

Plug



| PRODUCT | A | B | C | D |
|---------|-------|------|-------|-------|
| DR400 | 23.56 | 9.43 | 19.10 | 10.02 |

Angle/Receptacle



| PRODUCT | E | F | G | H | I |
|---------|-------|------|------|------|------|
| DR400 | 17.64 | 8.80 | 6.50 | 6.50 | 0.28 |

HIGH AMPACITY

