Russellstoll*



In this section...



MaxGard® Interconnection Systems

| Overview | 8–12 |
|---|-------|
| Competitive Checklist and Catalog Numbering System | 13 |
| Load-Breaking Plugs, Receptacles and Connectors — 30 Amp | 14–17 |
| Load-Breaking Plugs, Receptacles and Connectors — 60 Amp | 18–21 |
| Load-Breaking Plugs, Receptacles and Connectors — 100 Amp | 22–25 |
| Load-Breaking Plugs, Receptacles and Connectors — 200 Amp | 26–29 |
| Load-Breaking Plugs, Receptacles and Connectors — 400 Amp | 30–33 |
| Accessories | 34–37 |
| Engineering Specifications | 38–39 |
| Voltage Selector | 40 |
| Dimensions | 41–42 |
| Industrial Interlocked Receptacles | 43–49 |
| GSUL Safe Ground Indicator System | 50–52 |







30A-400A (30-200A Load Breaking), Maximum 600VAC/250VDC
Receptacles, Inlets, Plugs, Connectors, Interlocked Receptacles, Explosion-Proof Interlocked Receptacles



Safety

- Different power supply ratings can't mix: 24 single-rate device polarizations ensure exact voltage, frequency and phase differentiation
- Safe connections: Safely connect and disconnect, even in the most extreme conditions such as heavy industrial and explosion-proof environments
- Added safety measures:
 Explosion-proof rating on all plugs
- Plugs stay in: Standard delayedaction pull-and-turn withdrawal offers all plugs an explosion-proof rating
- Waterproof construction: Standard O-ringed interior components provide environmental separation; watertight mated or unmated

Durability

- Built for durability: Rugged cast aluminum housings with an electrostatic epoxy coating are standard, along with stainless steel hardware
- The best connections for life: Pins and sleeves are made from Marine-grade CDA 485 brass; 200- and 400-amp pins and sleeves are silver plated

Performance

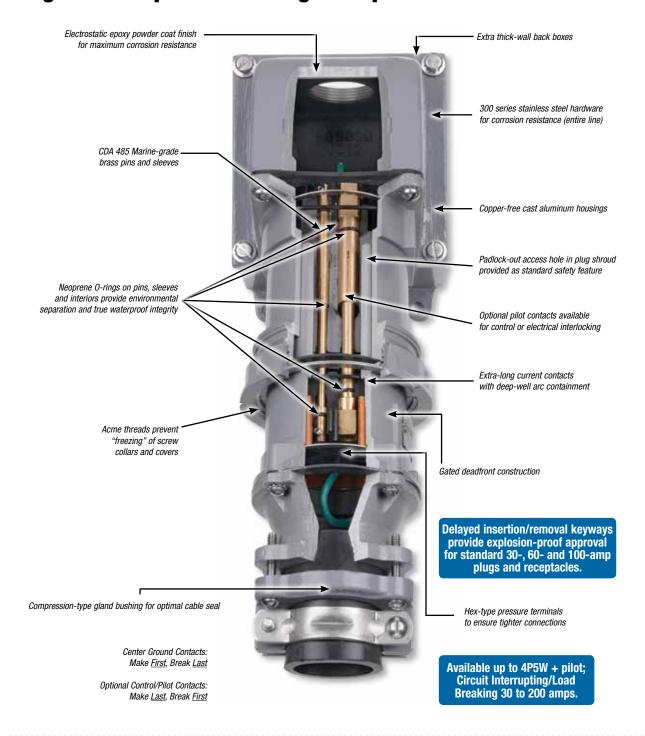
- Foreign objects stay out: All receptacles and connectors have a gated rotating disk (gated deadfront) on the face of the interior, which engages upon insertion
- Any configuration you need:
 Through 4-pole 5-wire configurations, all have a safety center earth ground pin design that makes first and breaks last
- Ease of assembly: Solderless pressure-type screw terminals with hex socket heads and rear-access, take-apart housings provide quick wiring access — no interior removal required for wiring receptacles and connectors
- More control available: Two optional pilot/control pins for contactors, load monitoring circuit, shunt trip or any other communication function you need
- More power: 150% non UL® rating enables MaxGard® installations to be extended up to 600-amp custom loads with separate disconnect service





30A-400A (30-200A Load Breaking), Maximum 600VAC/250VDC Receptacles, Inlets, Plugs, Connectors, Interlocked Receptacles, Explosion-Proof Interlocked Receptacles

Plug and Receptacle with Angle Adapter and Junction Box







30A-400A (30-200A Load Breaking), Maximum 600VAC/250VDC Receptacles, Inlets, Plugs, Connectors, Interlocked Receptacles, Explosion-Proof Interlocked Receptacles

Cast Aluminum Circuit Breaker Interlocked Receptacle (Cutaway View)





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Technical Services Tel: 888.862.3289





30A-400A (30-200A Load Breaking), Maximum 600VAC/250VDC Receptacles, Inlets, Plugs, Connectors, Interlocked Receptacles, Explosion-Proof Interlocked Receptacles

Fused-Disconnect Switch* Interlocked Receptacle

Available in 30-, 60- and 100-amp sizes, all polarizations through 600VAC.





Fax: 901.252.1354

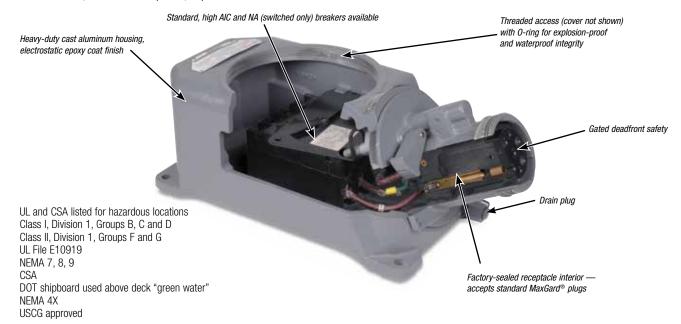
800.816.7809

30A-400A (30-200A Load Breaking), Maximum 600VAC/250VDC Receptacles, Inlets, Plugs, Connectors, Interlocked Receptacles, Explosion-Proof Interlocked Receptacles

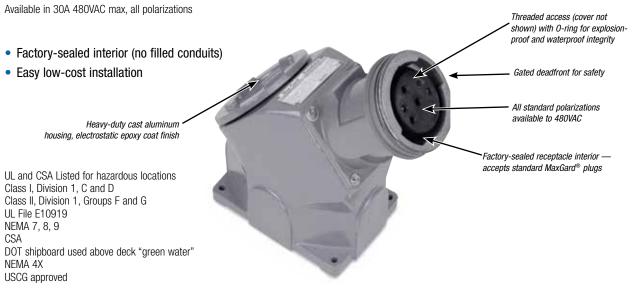
MaxGard® DBRE and DSRE series interlocks are explosion proof and waterproof (0-ring sealed), along with optional control contacts, and are fully UL® Listed.

Explosion-Proof Waterproof Circuit Breaker Interlocked Receptacle

Available in 30-, 60- and 100-amp sizes, all polarizations.



Explosion-Proof Waterproof Non-Interlocked Receptacle

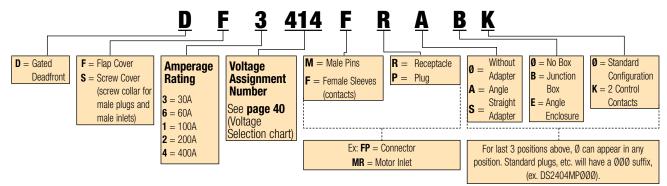




30A-400A Plugs, Connectors, Receptacles, Inlets and Interlocked Receptacles

Receptacles, Plugs and Connectors

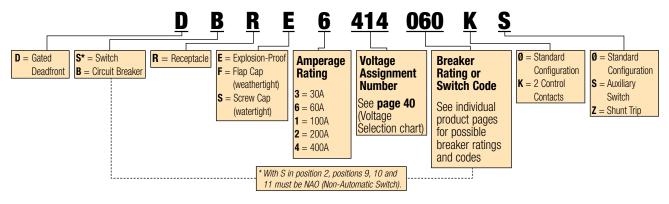
| FEATURE | RUSSELLSTOLL MAXGARD® | CROUSE-HINDS ARKTITE®** | APPLETON POWERTITE®*** |
|--|-----------------------|-------------------------|------------------------|
| Center ground contact | Yes | No | No |
| 24 single-rated factory polarizations | Yes | No | No |
| Gated deadfront construction | Yes | No | No |
| Two optional control contacts | Yes | No | No |
| Marine-grade CDA485 brass pins/sleeves | Yes | No | No |
| (200-400 amp silver-plated) | | | |
| O-rings/environmental separation, full line | Yes | No | No |
| Available to 5-wire (4-pole, 5-wire) | Yes | 30 and 60 amp only | No |
| Complete line epoxy powder coated — standard | Yes | No | Some |



Interlocked Receptacles

| FEATURE | RUSSELLSTOLL DBRE/DSRE SERIES | CROUSE-HINDS EPC SERIES | APPLETON EBR SERIES (WITH FB BREAKER) |
|--|-------------------------------|-------------------------|---------------------------------------|
| Waterproof (DurORing™) O-ring sealing | Yes | No | No |
| Available to 5-wire (4-pole, 5-wire) through 100 amp | Yes | No | No |
| Gated deadfront | Yes | No | No |
| Center ground sleeve contact | Yes | No | No |
| 24 single-rated factory polarizations | Yes | No | No |
| Class I, Div. 1, Groups B, C, D | Yes | Yes | Yes |
| Class II, Div. 1, Groups F and G | Yes | Yes | Yes* |
| Meets Coast Guard (was CG259) approvals | Yes | No | No |

^{*} Group F excepting electrically conductive dusts. ** Crouse-Hinds and Arktite are trademarks of Cooper Industries, Inc. *** Appleton and Powertite are trademarks of Appleton Electric Inc.



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30 Amp Standard Service

- ** If receptacle is desired with a Straight Adapter instead of standard Angle Adapter, substitute "S" for the "A" in the catalog number of the Receptacle with Angle Adapter or Adapter and Box.
- † Standard cable bushings shown; see page 34 for other sizes available at no extra cost if specified on order.
- ^{††} Always furnished with screw collar. We recommend cup cap with male plug; order catalog number DS3CC.

Maximum lug wire 8 AWG 7-strand or flexible. cable entrance .187" diameter.

Receptacles furnished with flap cap also have screw thread to accept male collar on plug.

Catalog numbers shown are for flap cap receptacles; change "DF" to "DS" for ordering screw cap.

Boldface figures are for voltage assignment. For different ratings, see page 40.

Outlet furnished at location "B" unless otherwise specified. 1" NPT.



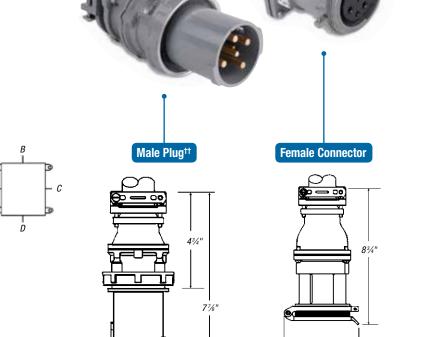
▼ Control contacts for plug/receptacles: Use "K" where noted. Ex: DS3104MP00K

For Adapters, Junction Boxes and Accessories, see pages 34-37.

Device Ratings and Polarizations

Maximum 600VAC or 250VDC

(For full polarization, see page 40)



| POLE | WIRE | CONDUCTOR PLACEMENT | VOLTAGE 60 HZ | CAT. NO. | STANDARD BUSHING I.D.† | CAT. NO. | STANDARD BUSHING I.D.† | | | | | | | | | |
|------|------|---|-------------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|--|----------------------|--|--|--|--|--|----------------------|
| | | | | V | | | | | | | | | | | | |
| 2 | 3 | (• • | 277 | DS3104MPØØØ | 7/8" | DF31 04 FPØØØ | 7/8" | | | | | | | | | |
| 2 | 3 | 1 × N | 125 | DS3 107 MPØØØ | 78 | DF3 107 FPØØØ | 78 | | | | | | | | | |
| | | 2, , | 480 | DS3 204 MPØØØ | | DF3 204 FPØØØ | | | | | | | | | | |
| 2 | 3 | | 250 | DS3 207 MPØØØ | 7/8" | DF3 207 FPØØØ | 7/8" | | | | | | | | | |
| ۷ | 3 | 1 | 600 | DS3 214 MPØØØ | 78 | DF3 214 FPØØØ | 78 | | | | | | | | | |
| | | _ | 208 | DS3 216 MPØØØ | | DF3 216 FPØØØ | | | | | | | | | | |
| | 2 | | | | | 2 | 277/480 | DS3 304 MPØØØ | | DF3 304 FPØØØ | | | | | | |
| 3 | 4 | 1 N | 125/250 DS3307MPØØØ 1" | 1" | DF3 307 FPØØØ | 1" | | | | | | | | | | |
| | | | 120/208 | DS3 316 MPØØØ | | | | | | DF3 316 FPØØØ | | | | | | |
| | | | 3Ø 480 | DS3 404 MPØØØ | | DF3 404 FPØØØ | | | | | | | | | | |
| | | 2 3 | 3Ø 250 | DS3 407 MPØØØ | | DF3 407 FPØØØ | | | | | | | | | | |
| 3 | 4 | 4 30 600 DS3414MP000 30 208 DS3416MP000 | 1" | DF3414FPØØØ | 1" | | | | | | | | | | | |
| | | | 3Ø 208 DS3416MPØØØ | | | | | | | | | | | | | DF3 416 FPØØØ |
| | | | 3Ø 440 | DS3 421 MPØØØ | | DF3 421 FPØØØ | | | | | | | | | | |
| | | 2 3 | 3ØY 277/480 | DS3 504 MPØØØ | | DF3 504 FPØØØ | | | | | | | | | | |
| 4 | | \(\hat{1}\) | 3ØY 347/600 | DS3 514 MPØØØ | 13/ 11 | DF3 514 FPØØØ | 13/ 11 | | | | | | | | | |
| 4 |) 0 | 5 | 3ØY 120/208 | DS3 516 MPØØØ | 13/16" | DF3 516 FPØØØ | 1¾6" | | | | | | | | | |
| | | 1' \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 3ØY 250/440 | DS3 521 MPØØØ | | DF3 521 FPØØØ | | | | | | | | | | |



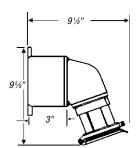


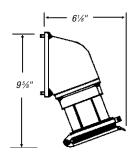


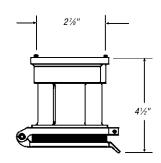
Female Receptacle with Angle Adapter**



63/8" 97/8'







| CAT. NO. | CAT. NO. | CAT. NO. | CAT. NO. |
|----------------------|----------------------|----------------------|----------------------|
| | • | | V |
| DF3 104 FRØEØ | DF3104FRABØ | DF3 104 FRAØØ | DF31 04 FRØØØ |
| DF3 107 FRØEØ | DF3 107 FRABØ | DF3 107 FRAØØ | DF3 107 FRØØØ |
| DF3 204 FRØEØ | DF3 204 FRABØ | DF3 204 FRAØØ | DF3 204 FRØØØ |
| DF3 207 FRØEØ | DF3 207 FRABØ | DF3 207 FRAØØ | DF3 207 FRØØØ |
| DF3 214 FRØEØ | DF3 214 FRABØ | DF3 214 FRAØØ | DF3 214 FRØØØ |
| DF3 216 FRØEØ | DF3 216 FRABØ | DF3 216 FRAØØ | DF3 216 FRØØØ |
| DF3 304 FRØEØ | DF3 304 FRABØ | DF3 304 FRAØØ | DF3 304 FRØØØ |
| DF3 307 FRØEØ | DF3 307 FRABØ | DF3 307 FRAØØ | DF3 307 FRØØØ |
| DF3 316 FRØEØ | DF3 316 FRABØ | DF3 316 FRAØØ | DF3 316 FRØØØ |
| DF3 40 4FRØEØ | DF3404FRABØ | DF3 404 FRAØØ | DF3 404 FRØØØ |
| DF3 407 FRØEØ | DF3 407 FRABØ | DF3 407 FRAØØ | DF3 407 FRØØØ |
| DF3414FRØEØ | DF3414FRABØ | DF3 414 FRAØØ | DF3414FRØØØ |
| DF3 416 FRØEØ | DF3 416 FRABØ | DF3 416 FRAØØ | DF3 416 FRØØØ |
| DF3 421 FRØEØ | DF3 421 FRABØ | DF3 421 FRAØØ | DF3 421 FRØØØ |
| DF3 504 FRØEØ | DF3 504 FRABØ | DF3 504 FRAØØ | DF3 504 FRØØØ |
| DF3 514 FRØEØ | DF3 514 FRABØ | DF3 514 FRAØØ | DF3 514 FRØØØ |
| DF3 516 FRØEØ | DF3 516 FRABØ | DF3 516 FRAØØ | DF3 516 FRØØØ |
| DF3 521 FRØEØ | DF3 521 FRABØ | DF3 521 FRAØØ | DF3 521 FRØØØ |

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30 Amp Reverse Service

- ** If receptacle is desired with a Straight Adapter instead of standard Angle Adapter, substitute "S" for the "A" in the catalog number of the Receptacle with Angle Adapter or Adapter and Box.
- [†] Standard cable bushings shown; see **page 34** for other sizes available at no extra cost if specified on order.
- ^{††} Always furnished with screw collar. We recommend cup cap with male plug; order catalog number DS3CC.

Maximum lug wire 4 AWG 7-strand or flexible, cable entrance .187" diameter.

Receptacles furnished with flap cap also have screw thread to accept male collar on plug.

Catalog numbers shown are for flap cap receptacles; change "DF" to "DS" for ordering screw cap.

Boldface figures are for voltage assignment. For different ratings, see **page 40**.

Outlet furnished at location "B" unless otherwise specified. 1" NPT.

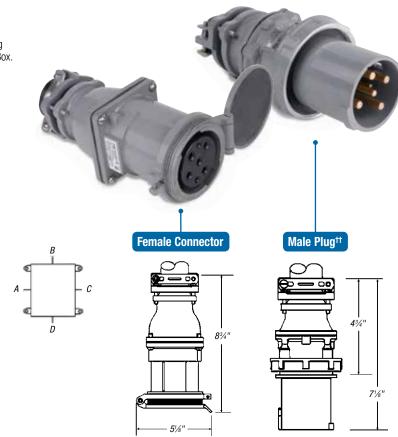
▼ Control contacts for plug/receptacles: Use "K" where noted. Ex: DS3104MR00K

For Adapters, Junction Boxes and Accessories, see pages 34–37.

Device Ratings and Polarizations

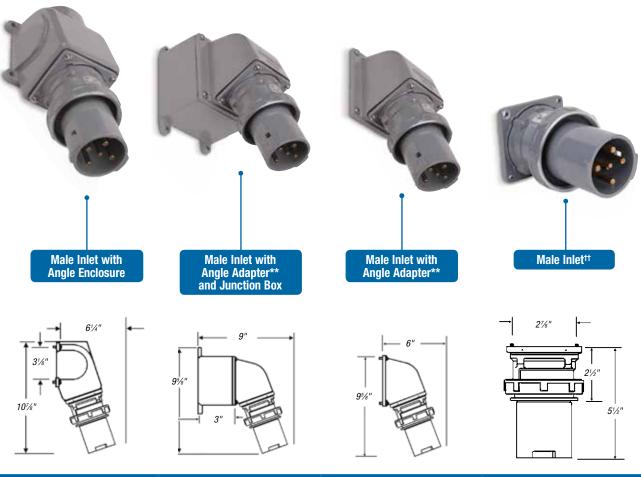
Maximum 600VAC or 250VDC

(For full polarization, see page 40)



| POLE | WIRE | CONDUCTOR PLACEMENT | VOLTAGE 60 HZ | CAT. NO. | STANDARD Bushing I.D.† | CAT. NO. | STANDARI Bushing I.D.† |
|------|---|------------------------|----------------------|----------------------|------------------------------|----------------------|------------------------------|
| | | | | V | | • | |
| 0 | | | 277 | DF3 104 FPØØØ | 7/8" | DS3 104 MPØØØ | 7/8" |
| 2 | 3 | 1 × N | 125 | DF3 107 FPØØØ | 78 | DS3 107 MPØØØ | 78 |
| | | 2, | 480 | DF3 204 FPØØØ | | DS3 204 MPØØØ | |
| 2 | 3 | | 250 | DF3 207 FPØØØ | 7/8" | DS3 207 MPØØØ | 7/8" |
| 2 | 3 | | 600 | DF3 214 FPØØØ | 78 | DS3 214 MPØØØ | 1/8 |
| | | 11 🔾 | 208 | DF3 216 FPØØØ | | DS3 216 MPØØØ | |
| | | 2 | 277/480 | DF3 304 FPØØØ | | DS3 304 MPØØØ | 1" |
| 3 | 4 | | 125/250 | DF3307FPØØØ | 1" | DS3 307 MPØØØ | |
| | | 1 × N | 120/208 | DF3 316 FPØØØ | | DS3 316 MPØØØ | |
| | | | 3Ø 480 | DF3 404 FPØØØ | | DS3 404 MPØØØ | |
| | | 2 3 | 3Ø 250 | DF3 407 FPØØØ | | DS3 407 MPØØØ | |
| 3 | 4 | (G) | 3Ø 600 | DF3414FPØØØ | 1" | DS3 414 MPØØØ | 1" |
| | \(\psi_1\ps | 3Ø 208 | DF3 416 FPØØØ | | DS3 416 MPØØØ | | |
| | | | 3Ø 440 | DF3 421 FPØØØ | | DS3 421 MPØØØ | |
| | | 2 3 | 3ØY 277/480 | DF3 504 FPØØØ | | DS3 504 MPØØØ | |
| 4 | 5 | | 3ØY 347/600 | DF3 514 FPØØØ | 13/16" | DS3 514 MPØØØ | 13/16" |
| 4 | 5 | | 3ØY 120/208 | DF3 516 FPØØØ | 1 7/16 | DS3 516 MPØØØ | 1 716 |
| | | 1 N | 3ØY 250/440 | DF3 521 FPØØØ | | DS3 521 MPØØØ | |





| CAT. NO. | CAT. NO. | CAT. NO. | CAT. NO. | |
|----------------------|----------------------|----------------------|----------------------|--|
| • | | V | | |
| DS3104MRØEØ | DS3 104 MRABØ | DS3 104 MRAØØ | DS3 104 MRØØØ | |
| DS3107MRØEØ | DS3 107 MRABØ | DS3 107 MRAØØ | DS3 107 MRØØØ | |
| DS3 204 MRØEØ | DS3 204 MRABØ | DS3 204 MRAØØ | DS3 204 MRØØØ | |
| DS3 207 MRØEØ | DS3 207 MRABØ | DS3 207 MRAØØ | DS3 207 MRØØØ | |
| DS3 214 MRØEØ | DS3214MRABØ | DS3 214 MRAØØ | DS3 214 MRØØØ | |
| DS3 216 MRØEØ | DS3 216 MRABØ | DS3 216 MRAØØ | DS3 216 MRØØØ | |
| DS3 304 MRØEØ | DS3 304 MRABØ | DS3 304 MRAØØ | DS3 304 MRØØØ | |
| DS3 307 MRØEØ | DS3 307 MRABØ | DS3 307 MRAØØ | DS3 307 MRØØØ | |
| DS3 316 MRØEØ | DS3 316 MRABØ | DS3 316 MRAØØ | DS3 316 MRØØØ | |
| DS3 404 MRØEØ | DS3 404 MRABØ | DS3 404 MRAØØ | DS3 404 MRØØØ | |
| DS3 407 MRØEØ | DS3 407 MRABØ | DS3 407 MRAØØ | DS3 407 MRØØØ | |
| DS3414MRØEØ | DS3414MRABØ | DS3 414 MRAØØ | DS3 414 MRØØØ | |
| DS3 416 MRØEØ | DS3 416 MRABØ | DS3 416 MRAØØ | DS3 416 MRØØØ | |
| DS3 421 MRØEØ | DS3421MRABØ | DS3 421 MRAØØ | DS3 421 MRØØØ | |
| DS3 504 MRØEØ | DS3 504 MRABØ | DS3 504 MRAØØ | DS3 504 MRØØØ | |
| DS3 514 MRØEØ | DS3 514 MRABØ | DS3 514 MRAØØ | DS3 514 MRØØØ | |
| DS3 516 MRØEØ | DS3 516 MRABØ | DS3 516 MRAØØ | DS3 516 MRØØØ | |
| DS3 521 MRØEØ | DS3 521 MRABØ | DS3 521 MRAØØ | DS3 521 MRØØØ | |



60 Amp Standard Service

- ** If receptacle is desired with a Straight Adapter instead of standard Angle Adapter, substitute "S" for the "A" in the catalog number of the Receptacle with Angle Adapter or Adapter and Box.
- † Standard cable bushings shown; see page 34 for other sizes available at no extra cost if specified on order.
- ^{††} Always furnished with screw collar. We recommend cup cap with male plug order catalog number DS6CC.

Maximum lug wire 4 AWG 7-strand or flexible, cable entrance .302" diameter.

Receptacles furnished with flap cap also have screw thread to accept male collar on plug.

Catalog numbers shown are for flap cap receptacles; change "DF" to "DS" for ordering screw cap.

Boldface figures are for voltage assignment. For different ratings, see page 40.

Outlet furnished at location "B" unless otherwise specified. 11/2" NPT.



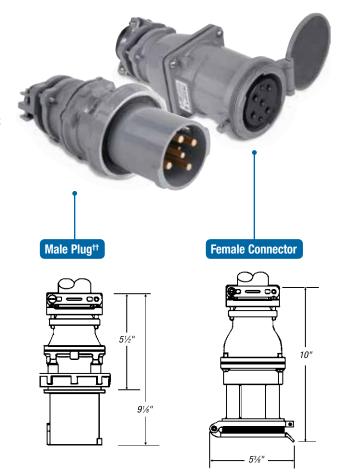
▼ Control contacts for plug/receptacles: Use "K" where noted. Ex: DS6104MP00K

For Adapters, Junction Boxes and Accessories, see pages 34-37.

Device Ratings and Polarizations

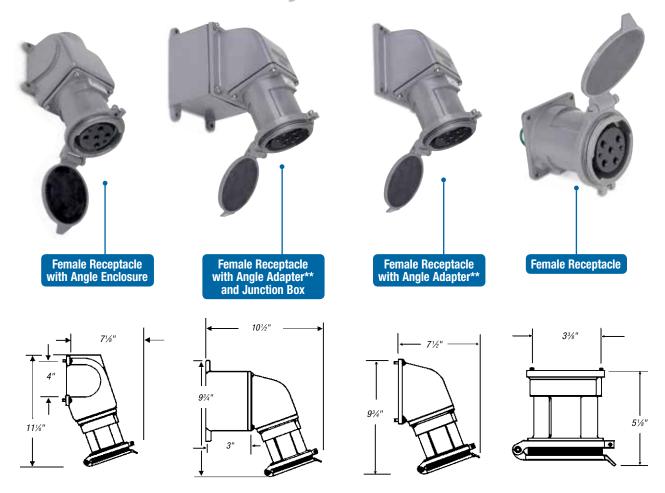
Maximum 600VAC or 250VDC

(For full polarization, see page 40)



| POLE | WIRE | CONDUCTOR PLACEMENT | VOLTAGE 60 HZ | CAT. NO. | STANDARD BUSHING I.D. † | CAT. NO. | STANDARD BUSHING I.D. † |
|------|------|---------------------------------------|------------------|----------------------|-------------------------------|----------------------|-------------------------------|
| | | | | | | • | |
| 2 | 3 | (((((((((((((((((((| 277 | DS6 104 MPØØØ | 13/16" | DF6 104 FPØØØ | 13/16" |
| ۷ | 3 | 1 × N | 125 | DS61 07 MPØØØ | 1 /16 | DF61 07 FPØØØ | 1 /16 |
| | | 2 | 480 | DS6 204 MPØØØ | | DF6 204 FPØØØ | |
| 0 | | | 250 | DS6 207 MPØØØ | 42/ 11 | DF6207FPØØØ | 42/11 |
| 2 | 3 | ⟨ Ø G J | 600 | DS6 214 MPØØØ | 13/16" | DF6 214 FPØØØ | 13/16" |
| | | 1' 🛈 | 208 | DS6 216 MPØØØ | | DF6 216 FPØØØ | |
| | | 2 | 277/480 | DS6 304 MPØØØ | | DF6 304 FPØØØ | |
| 3 | 4 | | 125/250 | DS6 307 MPØØØ | 15/16" | DF6 307 FPØØØ | 15/16" |
| | | 1 × N | 120/208 | DS6 316 MPØØØ | i | DF6 316 FPØØØ | |
| | | 3Ø 480 DS6404MPØØØ | | DF6 404 FPØØØ | | | |
| | | 2 3 | 3Ø 250 | DS6 407 MPØØØ | i | DF6 407 FPØØØ | |
| 3 | 4 | | 3Ø 600 | DS6414MPØØØ | 15/16" | DF6414FPØØØ | 15/16" |
| | | 120 | 3Ø 208 | DS6 416 MPØØØ | | DF6 416 FPØØØ | |
| | | | 3Ø 440 | DS6 421 MPØØØ | | DF6 421 FPØØØ | |
| | | 2 3 | 3ØY 277/480 | DS6 504 MPØØØ | | DF6 504 FPØØØ | |
| | _ | | 3ØY 347/600 | DS6 514 MPØØØ | 4.77 | DF6 514 FPØØØ | 4.49 |
| 4 | 5 - | | 3ØY 110/208 | DS6 516 MPØØØ | 1½" | DF6 516 FPØØØ | 1½" |
| | | 1 N | 3ØY 250/440 | DS6 521 MP000 | | DF6 521 FPØØØ | |





| CAT. NO. | CAT. NO. | CAT. NO. | CAT. NO. |
|----------------------|----------------------|----------------------|----------------------|
| | V | <u> </u> | V |
| DF61 04 FRØEØ | DF61 04 FRABØ | DF6 104 FRAØØ | DF61 04 FRØØØ |
| DF61 07 FRØEØ | DF61 07 FRABØ | DF6 107 FRAØØ | DF6 107 FRØØØ |
| DF6 204 FRØEØ | DF6 204 FRABØ | DF6 204 FRAØØ | DF6 204 FRØØØ |
| DF6 207 FRØEØ | DF6207FRABØ | DF6 207 FRAØØ | DF6 207 FRØØØ |
| DF6214FRØEØ | DF6214FRABØ | DF6 214 FRAØØ | DF6 214 FRØØØ |
| DF6 216 FRØEØ | DF6 216 FRABØ | DF6 216 FRAØØ | DF6 216 FRØØØ |
| DF6 304 FRØEØ | DF6 304 FRABØ | DF6 304 FRAØØ | DF6 304 FRØØØ |
| DF6 307 FRØEØ | DF6 307 FRABØ | DF6 307 FRAØØ | DF6 307 FRØØØ |
| DF6 316 FRØEØ | DF6 316 FRABØ | DF6 316 FRAØØ | DF6 316 FRØØØ |
| DF6 404 FRØEØ | DF6 404 FRABØ | DF6 404 FRAØØ | DF6 404 FRØØØ |
| DF6 407 FRØEØ | DF6 407 FRABØ | DF6 407 FRAØØ | DF6 407 FRØØØ |
| DF6414FRØEØ | DF6414FRABØ | DF6 414 FRAØØ | DF6 414 FRØØØ |
| DF6 416 FRØEØ | DF6 416 FRABØ | DF6 416 FRAØØ | DF6 416 FRØØØ |
| DF6 421 FRØEØ | DF6 421 FRABØ | DF6 421 FRAØØ | DF6 421 FRØØØ |
| DF6 504 FRØEØ | DF6 504 FRABØ | DF6 504 FRAØØ | DF6 504 FRØØØ |
| DF6 514 FRØEØ | DF6 514 FRABØ | DF6 514 FRAØØ | DF6 514 FRØØØ |
| DF6 516 FRØEØ | DF6 516 FRABØ | DF6 516 FRAØØ | DF6 516 FRØØØ |
| DF6 521 FRØEØ | DF6 521 FRABØ | DF6 521 FRAØØ | DF6 521 FRØØØ |

60 Amp Reverse Service

- ** If receptacle is desired with a Straight Adapter instead of standard Angle Adapter, substitute "S" for the "A" in the catalog number of the Receptacle with Angle Adapter or Adapter and Box.
- † Standard cable bushings shown; see page 34 for other sizes available at no extra cost if specified on order.
- ^{††} Always furnished with screw collar. We recommend cup cap with male plug; order catalog number DS6CC.

Maximum lug wire 4 AWG 7-strand or flexible, cable entrance .302" diameter.

Receptacles furnished with flap cap also have screw thread to accept male collar on plug.

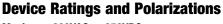
Catalog numbers shown are for flap cap receptacles; change "DF" to "DS" for ordering screw cap.

Boldface figures are for voltage assignment. For different ratings, see page 40.

Outlet furnished at location "B" unless otherwise specified. 11/2" NPT.

▼ Control contacts for plug/receptacles: Use "K" where noted, Ex: DS3104MP00K

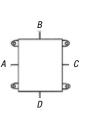
For Adapters, Junction Boxes and Accessories, see pages 34-37.

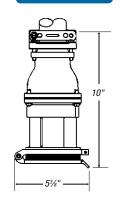


Maximum 600VAC or 250VDC

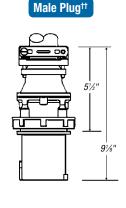
(For full polarization, see page 40)







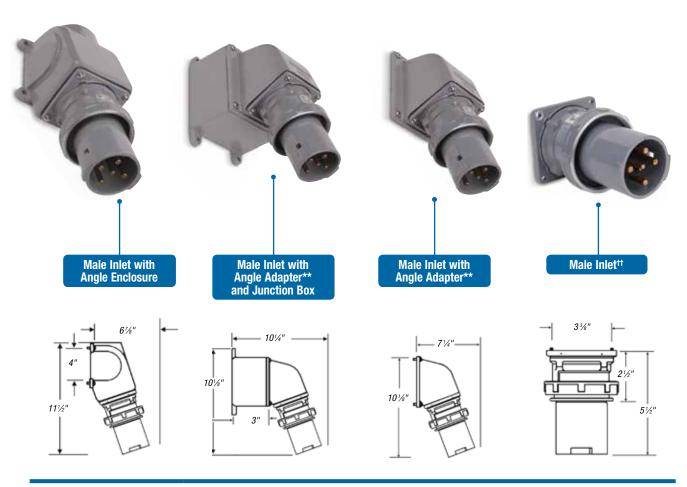
Female Connector



| POLE | WIRE | CONDUCTOR PLACEMENT | VOLTAGE 60 HZ | CAT. NO. | STANDARD Bushing I.D.† | CAT. NO. | STANDARD Bushing I.D.† |
|------|------------|------------------------|------------------|----------------------|------------------------------|----------------------|------------------------------|
| | | | | V | | V | |
| 2 | 3 | | 277 | DF61 04 FPØØØ | 13/16" | DS6 104 MPØØØ | 13/16" |
| 2 | 3 | 1 × N | 125 | DF61 07 FPØØØ | 1716 | DS6 107 MPØØØ | I 716 |
| | | 2 | 480 | DF6 204 FPØØØ | | DS6 204 MPØØØ | |
| 2 | | | 250 | DF6 207 FPØØØ | 43/ 11 | DS6 207 MPØØØ | 43/11 |
| 2 | 3 | 1 | 600 | DF6 214 FPØØØ | 13/16" | DS6 214 MPØØØ | 13/16" |
| | | | 208 | DF6 216 FPØØØ | | DS6 216 MPØØØ | |
| | | 2 | 277/480 | DF6 304 FPØØØ | | DS6 304 MPØØØ | |
| 3 | 4 | | 125/250 | DF6 307 FPØØØ | 15/16" | DS6 307 MPØØØ | 15/16" |
| | | 1 × N | 120/208 | DF6 316 FPØØØ | | DS6 316 MPØØØ | |
| | | | 3Ø 480 | DF6 404 FPØØØ | | DS6 404 MPØØØ | |
| | | 2 3 | 3Ø 250 | DF6 407 FPØØØ | | DS6 407 MPØØØ | |
| 3 | 4 | | 3Ø 600 | DF6414FPØØØ | 15/16" | DS6414MPØØØ | 15/16" |
| | 1 30 208 D | DF6 416 FPØØØ | | DS6 416 MPØØØ | | | |
| | | | 3Ø 440 | DF6 421 FPØØØ | | DS6 421 MPØØØ | |
| | | | 3ØY 277/480 | DF6 504 FPØØØ | | DS6 504 MPØØØ | |
| 4 | _ | 2 | 3ØY 347/600 | DF6 514 FPØØØ | 41/11 | DS6 514 MPØØØ | 41/11 |
| 4 | 5 | (() () | 3ØY 120/208 | DF6 516 FPØØØ | 1½" | DS6 516 MPØØØ | 11/2" |
| | | 1 X N | 3ØY 250/440 | DF6 521 FPØØØ | | DS6 521 MPØØØ | |



Fax: 901.252.1354



| CAT. NO. | CAT. NO. | CAT. NO. | CAT. NO. |
|----------------------|----------------------|----------------------|----------------------|
| • | V | V | V |
| DS6 104 MRØEØ | DS6104MRABØ | DS6 104 MRAØØ | DS6 104 MRØØØ |
| DS6107MRØEØ | DS6107MRABØ | DS61 07 MRAØØ | DS6107MRØØØ |
| DS6 204 MRØEØ | DS6 204 MRABØ | DS6 204 MRAØØ | DS6 204 MRØØØ |
| DS6 207 MRØEØ | DS6 207 MRABØ | DS6 207 MRAØØ | DS6 207 MRØØØ |
| DS6 214 MRØEØ | DS6214MRABØ | DS6 214 MRAØØ | DS6214MRØØØ |
| DS6 216 MRØEØ | DS6 216 MRABØ | DS6 216 MRAØØ | DS6 216 MRØØØ |
| DS6 304 MRØEØ | DS6 304 MRABØ | DS6 304 MRAØØ | DS6 304 MRØØØ |
| DS6 307 MRØEØ | DS6307MRABØ | DS6 307 MRAØØ | DS6 307 MRØØØ |
| DS6 316 MRØEØ | DS6 316 MRABØ | DS6 316 MRAØØ | DS6 316 MRØØØ |
| DS6 404 MRØEØ | DS6404MRABØ | DS6 404 MRAØØ | DS6 404 MRØØØ |
| DS6 407 MRØEØ | DS6407MRABØ | DS6 407 MRAØØ | DS6 407 MRØØØ |
| DS6414MRØEØ | DS6414MRABØ | DS6414MRAØØ | DS6414MRØØØ |
| DS6 416 MRØEØ | DS6 416 MRABØ | DS6 416 MRAØØ | DS6 416 MRØØØ |
| DS6 421 MRØEØ | DS6421MRABØ | DS6 421 MRAØØ | DS6 421 MRØØØ |
| DS6 504 MRØEØ | DS6 504 MRABØ | DS6 504 MRAØØ | DS6 504 MRØØØ |
| DS6 514 MRØEØ | DS6 514 MRABØ | DS6 514 MRAØØ | DS6 514 MRØØØ |
| DS6 516 MRØEØ | DS6 516 MRABØ | DS6 516 MRAØØ | DS6 516 MRØØØ |
| DS6 521 MRØEØ | DS6 521 MRABØ | DS6 521 MRAØØ | DS6 521 MRØØØ |





100 Amp Standard Service

- ** If receptacle is desired with a Straight Adapter instead of standard Angle Adapter, substitute "S" for the "A" in the catalog number of the Receptacle with Angle Adapter or Adapter and Box.
- [†] Standard cable bushings shown; see **page 34** for other sizes available at no extra cost if specified on order.
- ^{††} Always furnished with screw collar. We recommend cup cap with male plug; order catalog number DS1CC.

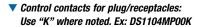
Maximum lug wire 0 AWG 19-strand or 1 AWG flexible, cable entrance .386" diameter.

Receptacles furnished with flap cap also have screw thread to accept male collar on plug.

Catalog numbers shown are for flap cap receptacles; change "DF" to "DS" for ordering screw cap.

Boldface figures are for voltage assignment. For different ratings, see **page 40**.

Outlet furnished at location "B" unless otherwise specified. 2" NPT.

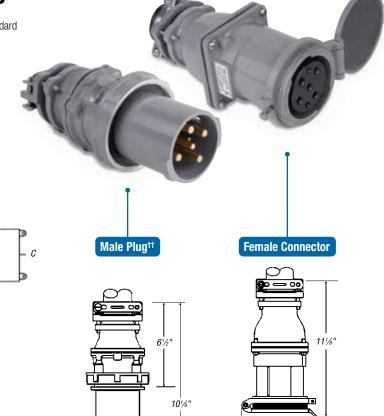


For Adapters, Junction Boxes and Accessories, see pages 34–37.

Device Ratings and Polarizations

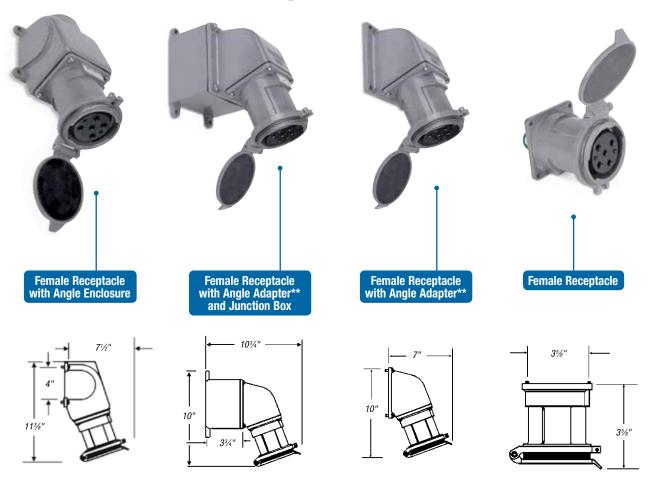
Maximum 600VAC or 250VDC

(For full polarization, see page 40)



| POLE | WIRE | CONDUCTOR PLACEMENT | VOLTAGE 60HZ | CAT. NO. | STANDARD BUSHING I.D. † | CAT. NO. | STANDARD BUSHING I.D. † | | | | | | |
|------|------|------------------------|-----------------|----------------------|-------------------------------|----------------------|-------------------------------|-----|---------|----------------------|--|----------------------|--|
| | | | | V | | V | | | | | | | |
| 2 | 3 | (200) | 277 | DS1 104 MPØØØ | 111/16" | DF1 104 FPØØØ | 111/16" | | | | | | |
| 2 | 3 | 1 × N | 125 | DS1 107 MPØØØ | 1 /16 | DF1 107 FPØØØ | 1 716 | | | | | | |
| | | 2 | 480 | DS1 204 MPØØØ | | DF1 204 FPØØØ | | | | | | | |
| 0 | 2 | | 250 | DS1 207 MPØØØ | 4.117.11 | DF1 207 FPØØØ | 4 11 / 11 | | | | | | |
| 2 | 3 | ∫ G G | 600 | DS1 214 MPØØØ | 111/16" | DF1 214 FPØØØ | 111/16" | | | | | | |
| | | | | 208 | DS1 216 MPØØØ | | DF1 216 FPØØØ | | | | | | |
| | | 2 | 277/480 | DS1 304 MPØØØ | | DF1 304 FPØØØ | | | | | | | |
| 3 | 4 | | 125/250 | DS1 307 MPØØØ | 113/16" | DF1 307 FPØØØ | 1 13/16" | | | | | | |
| | | | | | | | | 1 N | 120/208 | DS1 316 MPØØØ | | DF1 316 FPØØØ | |
| | | - | 3Ø 480 | DS1 404 MPØØØ | | DF1 404 FPØØØ | | | | | | | |
| | | 2 3 | 3Ø 250 | DS1 407 MPØØØ | | DF1 407 FPØØØ | | | | | | | |
| 3 | 4 | | 3Ø 600 | DS1414MPØØØ | 113/16" | DF1414FPØØØ | 113/16" | | | | | | |
| | | 1 | 3Ø 208 | DS1 416 MPØØØ | | DF1 416 FPØØØ | 1710 | | | | | | |
| | | | 3Ø 440 | DS1 421 MPØØØ | | DF1 421 FPØØØ | | | | | | | |
| | | | 3ØY 277/480 | DS1 504 MPØØØ | | DF1 504 FPØØØ | | | | | | | |
| | | 2 3 | 3ØY 347/600 | DS1 514 MPØØØ | | DF1 514 FP000 | | | | | | | |
| 4 | 5 | | 3ØY 118/208 | DS1 516 MPØØØ | 2" | DF1 516 FP000 | 2" | | | | | | |
| | | 1 × N | 3ØY 250/440 | DS1 521 MPØØØ | | DF1 521 FP000 | | | | | | | |





| CAT. NO. | CAT. NO. | CAT. NO. | CAT. NO. |
|----------------------|----------------------|----------------------|----------------------|
| V | | V | V |
| DF1 104 FRØEØ | DF1 104 FRABØ | DF1 104 FRAØØ | DF1 104 FRØØØ |
| DF1 107 FRØEØ | DF1107FRABØ | DF1 107 FRAØØ | DF1 107 FRØØØ |
| DF1 204 FRØEØ | DF1 204 FRABØ | DF1 204 FRAØØ | DF1 204 FRØØØ |
| DF1 207 FRØEØ | DF1 207 FRABØ | DF1 207 FRAØØ | DF1 207 FRØØØ |
| DF1 214 FRØEØ | DF1 214 FRABØ | DF1 214 FRAØØ | DF1 214 FRØØØ |
| DF1 216 FRØEØ | DF1 216 FRABØ | DF1 216 FRAØØ | DF1 216 FRØØØ |
| DF1 304 FRØEØ | DF1 304 FRABØ | DF1 304 FRAØØ | DF1 304 FRØØØ |
| DF1 307 FRØEØ | DF1 307 FRABØ | DF1 307 FRAØØ | DF1 307 FRØØØ |
| DF1 316 FRØEØ | DF1 316 FRABØ | DF1 316 FRAØØ | DF1 316 FRØØØ |
| DF1 404 FRØEØ | DF1 404 FRABØ | DF1 404 FRAØØ | DF1 404 FRØØØ |
| DF1 407 FRØEØ | DF1 407 FRABØ | DF1 407 FRAØØ | DF1 407 FRØØØ |
| DF1 414 FRØEØ | DF1 414 FRABØ | DF1 414 FRAØØ | DF1 414 FRØØØ |
| DF1 416 FRØEØ | DF1 416 FRABØ | DF1 416 FRAØØ | DF1 416 FRØØØ |
| DF1 421 FRØEØ | DF1 421 FRABØ | DF1 421 FRAØØ | DF1 421 FRØØØ |
| DF1 504 FRØEØ | DF1 504 FRABØ | DF1 504 FRAØØ | DF1 504 FRØØØ |
| DF1 514 FRØEØ | DF1 514 FRABØ | DF1 514 FRAØØ | DF1 514 FRØØØ |
| DF1 516 FRØEØ | DF1 516 FRABØ | DF1 516 FRAØØ | DF1 516 FRØØØ |
| DF1 521 FRØEØ | DF1 521 FRABØ | DF1 521 FRAØØ | DF1 521 FRØØØ |

100 Amp Reverse Service

- ** If receptacle is desired with a Straight Adapter instead of standard Angle Adapter, substitute "S" for the "A" in the catalog number of the Receptacle with Angle Adapter or Adapter and Box.
- [†] Standard cable bushings shown; see **page 34** for other sizes available at no extra cost if specified on order.
- ^{††} Always furnished with screw collar. We recommend cup cap with male plug; order catalog number DS1CC.

Maximum lug wire 0 AWG 19-strand or 1 AWG flexible, cable entrance .386" diameter.

Receptacles furnished with flap cap also have screw thread to accept male collar on plug.

Catalog numbers shown are for flap cap receptacles; change "DF" to "DS" for ordering screw cap.

Boldface figures are for voltage assignment. For different ratings, see page 40.

Outlet furnished at location "B" unless otherwise specified. 2" NPT.

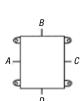
▼ Control contacts for plug/receptacles: Use "K" where noted, Ex: DS1104MR00K

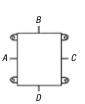
For Adapters, Junction Boxes and Accessories, see pages 34-37.

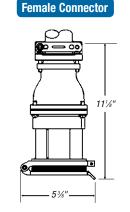
Device Ratings and Polarizations

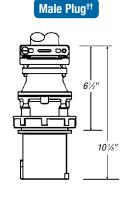
Maximum 600VAC or 250VDC

(For full polarization, see page 40)









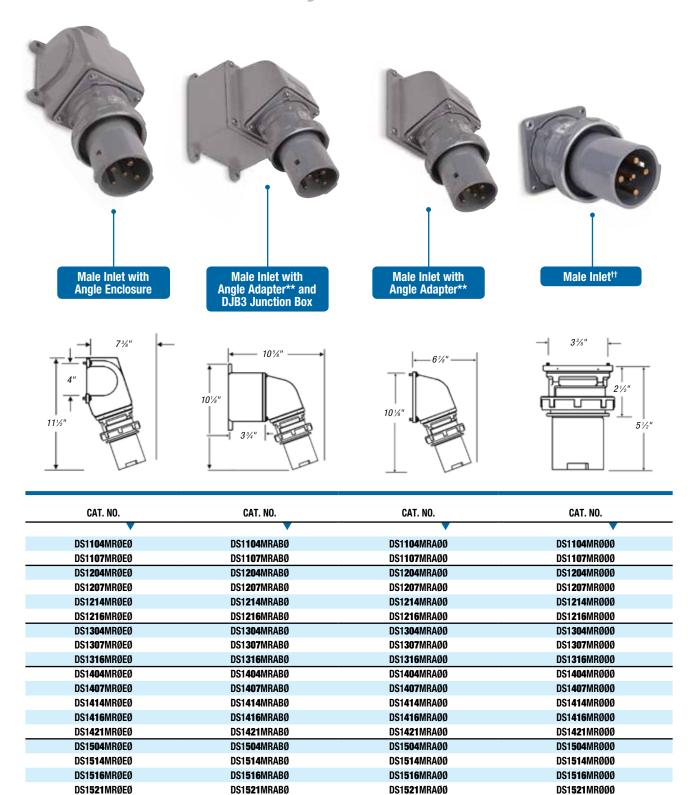
| POLE | WIRE | CONDUCTOR PLACEMENT | VOLTAGE 60 HZ | CAT. NO. | STANDARD BUSHING I.D. † | CAT. NO. | STANDARD BUSHING I.D.† | | | | | | | | |
|------|------|---|------------------|----------------------|-----------------------------------|----------------------|------------------------------|--|--|---|---------|----------------------|--|----------------------|--|
| | | \Box | | • | | • | | | | | | | | | |
| 2 | 3 | | 277 | DF1 104 FPØØØ | 111/16" | DS1 104 MPØØØ | 111/16" | | | | | | | | |
| ۷ | 3 | 1 N | 125 | DF1 107 FPØØØ | 1.716 | DS1 107 MPØØØ | 1 716 | | | | | | | | |
| | | 2 | 480 | DF1 204 FPØØØ | | DS1 204 MPØØØ | | | | | | | | | |
| 0 | 2 | | 250 | DF1 207 FPØØØ | 4117 11 | DS1 207 MPØØØ | 111/16" | | | | | | | | |
| 2 | 3 | 1 | 600 | DF1214FPØØØ | 111/16" | DS1 214 MPØØØ | | | | | | | | | |
| | | | 208 | DF1 216 FPØØØ | | DS1 216 MPØØØ | | | | | | | | | |
| | | | | | | | | | | 2 | 277/480 | DF1 304 FPØØØ | | DS1 304 MPØØØ | |
| 3 | 4 | | 125/250 | DF1 307 FPØØØ | 1 ¹³ / ₁₆ " | DS1 307 MPØØØ | 113/16" | | | | | | | | |
| | | 1 × N | 120/208 | DF1 316 FPØØØ | | DS1 316 MPØØØ | | | | | | | | | |
| | | | 3Ø 480 | DF1 404 FPØØØ | | DS1 404 MPØØØ | | | | | | | | | |
| | | 2 3 | 3Ø 250 | DF1 407 FPØØØ | | DS1 407 MPØØØ | | | | | | | | | |
| 3 | 4 | | 3Ø 600 | DF1414FPØØØ | 113/16" | DS1 414 MPØØØ | 113/16" | | | | | | | | |
| | | 1,200 | 3Ø 208 | DF1 416 FPØØØ | | DS1 416 MPØØØ | | | | | | | | | |
| | | | 3Ø 440 | DF1 421 FPØØØ | | DS1 421 MPØØØ | | | | | | | | | |
| | | _ | 3ØY 277/480 | DF1 504 FPØØØ | | DS1 504 MPØØØ | | | | | | | | | |
| | _ | | 3ØY 347/600 | DF1 514 FPØØØ | 011 | DS1 514 MPØØØ | 2" | | | | | | | | |
| 4 | 5 | | 3ØY 110/208 | DF1 516 FPØØØ | 2" | DS1 516 MPØØØ | | | | | | | | | |
| | | 1 1 | 3ØY 250/440 | DF1 521 FPØØØ | | DS1 521 MPØØØ | | | | | | | | | |



Fax: 901.252.1354

Technical Services Tel: 888.862.3289





Fax: 901.252.1354

800.816.7809

200 Amp Standard Service

- ** If receptacle is desired with a Straight Adapter instead of standard Angle Adapter, substitute "S" for the "A" in the catalog number of the Receptacle with Angle Adapter or Adapter and Box.
- † Standard cable bushings shown; see page 34 for other sizes available at no extra cost if specified on order.
- ^{††} Always furnished with screw collar. We recommend cup cap with male plug; order catalog number DS2CC.

Maximum lug wire 4/0 AWG 19-strand or flexible. cable entrance .625" diameter.

Receptacles furnished with flap cap also have screw thread to accept male collar on plug.

Catalog numbers shown are for flap cap receptacles; change "DF" to "DS" for ordering screw cap.

Boldface figures are for voltage assignment. For different ratings, see page 40.

Outlet furnished at location "B" unless otherwise specified. 3" NPT.

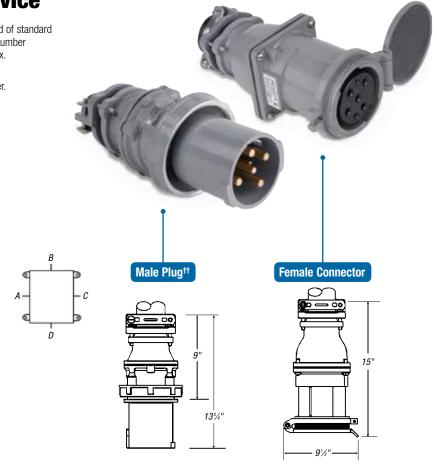
▼ Control contacts for plug/receptacles: Use "K" where noted. Ex: DS2104MP00K

For Adapters, Junction Boxes and Accessories, see pages 34-37.

Device Ratings and Polarizations

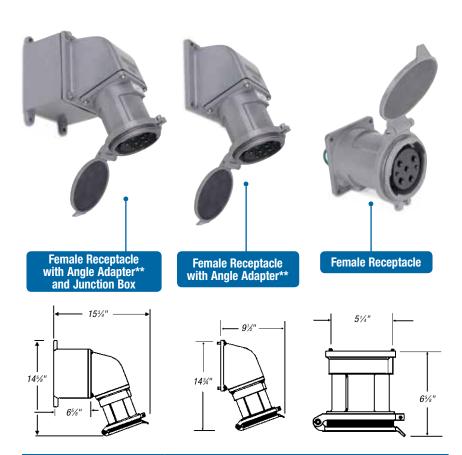
Maximum 600VAC or 250VDC

(For full polarization, see page 40)

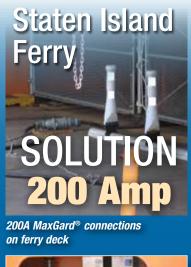


| POLE | WIRE | CONDUCTOR PLACEMENT | VOLTAGE 60 HZ | CAT. NO. | STANDARD Bushing I.D.† | CAT. NO. | STANDARD Bushing I.D.† | |
|------|------|------------------------|------------------|----------------------|------------------------------|----------------------|------------------------------|-------|
| | | | | • | | • | | |
| 2 | 3 | (e s | 277 | DS2 104 MPØØØ | 21/8" | DF21 04 FPØØØ | 21/8" | |
| 2 | 3 | 1 N | 125 | DS21 07 MPØØØ | Z/8 | DF21 07 FPØØØ | Z/8 | |
| | | 2 | 480 | DS2 204 MPØØØ | | DF2 204 FPØØØ | | |
| 2 | 3 | | 250 | DS2 207 MPØØØ | 21/8" | DF2 207 FPØØØ | 21/8" | |
| ۷ | 3 | 1 | 600 | DS2 214 MPØØØ | 278 | DF2 214 FPØØØ | | |
| | | · | 208 | DS2 216 MPØØØ | | DF2 216 FPØØØ | | |
| | | 2 | 277/480 | DS2 304 MPØØØ | | DF2 304 FPØØØ | 21/4" | |
| 3 | 4 | | 125/250 | DS2 307 MPØØØ | 21/4" | DF2 307 FPØØØ | | |
| | | 1 × N | 120/208 | DS2 316 MPØØØ | | DF2 316 FPØØØ | | |
| | | | 3Ø 480 | DS2 404 MPØØØ | | DF2 404 FPØØØ | | |
| | | 2 | 3Ø 250 | DS2 407 MPØØØ | | DF2 407 FPØØØ | | |
| 3 | 4 | (G) | 3Ø 600 | DS2414MPØØØ | 21/4" | DF2414FPØØØ | 21/4" | |
| | | 1~ | 3Ø 208 | DS2 416 MPØØØ | | DF2 416 FPØØØ | | |
| | | | 3Ø 440 | DS2 421 MPØØØ | | DF2 421 FPØØØ | | |
| | | , , | 3ØY 277/480 | DS2 504 MPØØØ | | DF2 504 FPØØØ | | |
| 4 | 5 | | 3ØY 347/600 | DS2 514 MPØØØ | 2½" | DF2 514 FPØØØ | 01/11 | |
| 4 | 5 | , 大学 , | 大 | 3ØY 110/208 | DS2 516 MPØØØ | Z/2 | DF2 516 FPØØØ | 21/2" |
| | | ' • " | 3ØY 250/440 | DS2 521 MPØØØ | | DF2 521 FPØØØ | | |





| CAT. NO. | CAT. NO. | CAT. NO. |
|----------------------|----------------------|----------------------|
| V | | <u> </u> |
| DF2 104 FRABØ | DF2104FRAØØ | DF2 104 FRØØØ |
| DF2 107 FRABØ | DF2 107 FRAØØ | DF2 107 FRØØØ |
| DF2 204 FRABØ | DF2 204 FRAØØ | DF2 204 FRØØØ |
| DF2 207 FRABØ | DF2 207 FRAØØ | DF2 207 FRØØØ |
| DF2 214 FRABØ | DF2 214 FRAØØ | DF2 214 FRØØØ |
| DF2 216 FRABØ | DF2 216 FRAØØ | DF2 216 FRØØØ |
| DF2 304 FRABØ | DF2 304 FRAØØ | DF2 304 FRØØØ |
| DF2 307 FRABØ | DF2 307 FRAØØ | DF2 307 FRØØØ |
| DF2 316 FRABØ | DF2 316 FRAØØ | DF2 316 FRØØØ |
| DF2 404 FRABØ | DF2404FRAØØ | DF2 404 FRØØØ |
| DF2 407 FRABØ | DF2 407 FRAØØ | DF2 407 FRØØØ |
| DF2414FRABØ | DF2414FRAØØ | DF2 414 FRØØØ |
| DF2 416 FRABØ | DF2 416 FRAØØ | DF2 416 FRØØØ |
| DF2 421 FRABØ | DF2 421 FRAØØ | DF2 421 FRØØØ |
| DF2 504 FRABØ | DF2 504 FRAØØ | DF2 504 FRØØØ |
| DF2 514 FRABØ | DF2 514 FRAØØ | DF2 514 FRØØØ |
| DF2 516 FRABØ | DF2 516 FRAØØ | DF2 516 FRØØØ |
| DF2 521 FRABØ | DF2 521 FRAØØ | DF2 521 FRØØØ |





200A MaxGard® inlets with disconnects



30A and 200A MaxGard® interlocks





200 Amp Reverse Service

- ** If receptacle is desired with a Straight Adapter instead of standard Angle Adapter, substitute "S" for the "A" in the catalog number of the Receptacle with Angle Adapter or Adapter and Box.
- [†] Standard cable bushings shown; see **page 34** for other sizes available at no extra cost if specified on order.
- ^{††} Always furnished with screw collar. We recommend cup cap with male plug; order catalog number DS2CC.

Maximum lug wire 4/0 AWG 19-strand or flexible, cable entrance .625" diameter.

Receptacles furnished with flap cap also have screw thread to accept male collar on plug.

Catalog numbers shown are for flap cap receptacles; change "DF" to "DS" for ordering screw cap.

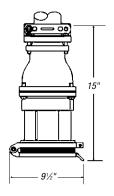
Boldface figures are for voltage assignment. For different ratings, see **page 40**.

Outlet furnished at location "B" unless otherwise specified. 3" NPT.

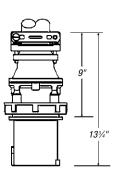
▼ Control contacts for plug/receptacles: Use "K" where noted. Ex: DS2104MR00K

For Adapters, Junction Boxes and Accessories, see pages 34–37.





Female Connector



Male Plug^{tt}

Device Ratings and Polarizations

Maximum 600VAC or 250VDC

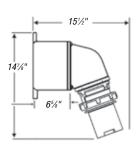
(For full polarization, see page 40)

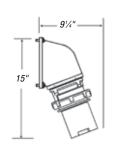
| POLE | WIRE | CONDUCTOR PLACEMENT | VOLTAGE 60 HZ | CAT. NO. | STANDARD BUSHING I.D. † | CAT. NO. | STANDARD Bushing I.D.† | | | | | |
|------|------|------------------------|------------------|----------------------|-------------------------------|----------------------|------------------------------|---------|----------------------|--|----------------------|--|
| | | \Box | | V | | V | | | | | | |
| 2 | 3 | (ø•s) | 277 | DF2 104 FPØØØ | 21/8" | DS2 104 MPØØØ | 21/8" | | | | | |
| ۷ | 3 | 1 N | 125 | DF2 107 FPØØØ | 278 | DS2 107 MPØØØ | 278 | | | | | |
| | | 2 | 480 | DF2 204 FPØØØ | | DS2 204 MPØØØ | | | | | | |
| 0 | 3 | | 250 | DF2 207 FPØØØ | 01/1 | DS2 207 MPØØØ | 21/8" | | | | | |
| 2 | 3 | 1 | 600 | DF2 214 FPØØØ | 21/8" | DS2 214 MPØØØ | | | | | | |
| | | | 208 | DF2 216 FPØØØ | | DS2 216 MPØØØ | | | | | | |
| | | | | | | | 2 | 277/480 | DF2 304 FPØØØ | | DS2 304 MPØØØ | |
| 3 | 4 | | 125/250 | DF2 307 FPØØØ | 21/4" | DS2 307 MPØØØ | 21/4" | | | | | |
| | | 1 × N | 120/208 | DF2 316 FPØØØ | | DS2 316 MPØØØ | | | | | | |
| | | | 3Ø 480 | DF2 404 FPØØØ | | DS2 404 MPØØØ | | | | | | |
| | | 2 3 | 3Ø 250 | DF2 407 FPØØØ | | DS2 407 MPØØØ | | | | | | |
| 3 | 4 | () () | 3Ø 600 | DF2414FPØØØ | 21/4" | DS2414MPØØØ | 21/4" | | | | | |
| | | 12 | 3Ø 208 | DF2 416 FPØØØ | | DS2 416 MPØØØ | | | | | | |
| | | | 3Ø 440 | DF2 421 FPØØØ | | DS2 421 MPØØØ | | | | | | |
| | | | 3ØY 277/480 | DF2 504 FPØØØ | | DS2 504 MPØØØ | | | | | | |
| | _ | | 3ØY 347/600 | DF2 514 FPØØØ | 01/1 | DS2 514 MPØØØ | 2½" | | | | | |
| 4 | 5 | ₩ | 3ØY 110/208 | DF2 516 FPØØØ | 2½" | DS2 516 MPØØØ | | | | | | |
| | | ' → " | 3ØY 250/440 | DF2 521 FPØØØ | | DS2 521 MPØØØ | | | | | | |

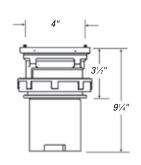


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| va | A 11A | |
|----------------------|----------------------|----------------------|
| CAT. NO. | CAT. NO. | CAT. NO. |
| V | • | V |
| DS2 104 MRABØ | DS2 104 MRAØØ | DS2 104 MRØØØ |
| DS2 107 MRABØ | DS21 07 MRAØØ | DS2 107 MRØØØ |
| DS2 204 MRABØ | DS2 204 MRAØØ | DS2 204 MRØØØ |
| DS2 207 MRABØ | DS2 207 MRAØØ | DS2 207 MRØØØ |
| DS2 214 MRABØ | DS2 214 MRAØØ | DS2 214 MRØØØ |
| DS2 216 MRABØ | DS2 216 MRAØØ | DS2 216 MRØØØ |
| DS2 304 MRABØ | DS2 304 MRAØØ | DS2 304 MRØØØ |
| DS2 307 MRABØ | DS2 307 MRAØØ | DS2 307 MRØØØ |
| DS2 316 MRABØ | DS2 316 MRAØØ | DS2 316 MRØØØ |
| DS2 404 MRABØ | DS2 404 MRAØØ | DS2 404 MRØØØ |
| DS2 407 MRABØ | DS2 407 MRAØØ | DS2 407 MRØØØ |
| DS2414MRABØ | DS2414MRAØØ | DS2414MRØØØ |
| DS2 416 MRABØ | DS2 416 MRAØØ | DS2 416 MRØØØ |
| DS2 421 MRABØ | DS2 421 MRAØØ | DS2 421 MRØØØ |
| DS2 504 MRABØ | DS2 504 MRAØØ | DS2 504 MRØØØ |
| DS2 514 MRABØ | DS2 514 MRAØØ | DS2 514 MRØØØ |
| DS2 516 MRABØ | DS2 516 MRAØØ | DS2 516 MRØØØ |
| DS2 521 MRABØ | DS2 521 MRAØØ | DS2 521 MRØØØ |

MMI Trailer



SOLUTION 200 Amp

Application:

Electrical hook-up of mobile medical imaging (MMI) trailers

Mobile medical units provide trailer-transportable blood banks, dental clinics, magnetic resonance imaging (MRI), X-ray and other diagnostic equipment to many hospitals and clinics throughout the country on a regular leased basis. Safe outdoor usage connections are required for up to 200-amp power supplies at each facility. Major specialized custom trailer manufacturers rely on the MaxGard® 200-amp interface.

Installation:

Site-mounted 200-amp receptacles with trailer-mounted plugs and connectors

When a mobile medical unit trailer is at the desired location, a heavy-duty MaxGard® 200-amp cable assembly connects the trailer with a corresponding receptacle or connector at each site, usually mounted on an outside wall. A primary safety feature is the receptacle's gated deadfront construction that ensures no exterior access to live receptacle contacts. With so many different hands involved on a daily basis, the MaxGard epoxy powder-coat finish and rugged



400 Amp Standard Service

- ** If receptacle is desired with a Straight Adapter instead of standard Angle Adapter, substitute "S" for the "A" in the catalog number of the Receptacle with Angle Adapter or Adapter and Box.
- † Standard cable bushings shown; see page 34 for other sizes available at no extra cost if specified on order.
- ^{††} Always furnished with screw collar. We recommend cup cap with male plug; order catalog number DS4CC.

Maximum lug wire 500 kcmil 37-strand or flexible, cable entrance .937" diameter.

Receptacles furnished with flap cap also have screw thread to accept male collar on plug.

Catalog numbers shown are for flap cap receptacles; change "DF" to "DS" for ordering screw cap.

Boldface figures are for voltage assignment. For different ratings, see page 40.

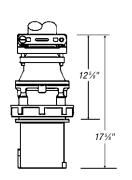
Outlet furnished at location "B" unless otherwise specified. 4" NPT.

▼ Control contacts for plug/receptacles: Use "K" where noted. Ex: DS4104MP00K

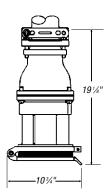
For Adapters, Junction Boxes and Accessories, see pages 34-37.







Male Plug^{††}



Female Connector

Device Ratings and Polarizations

Maximum 600VAC or 250VDC

(For full polarization, see page 40)

| POLE | WIRE | CONDUCTOR PLACEMENT | VOLTAGE 60 HZ | CAT. NO. | STANDARD Bushing I.D. † | CAT. NO. | STANDARD BUSHING I.D. † | |
|------|------|------------------------|------------------|----------------------|-------------------------------|----------------------|-------------------------------|--|
| | | | | V | | V | | |
| 2 | 3 | (• • | 277 | DS4 104 MPØØØ | | DF4 104 FPØØØ | | |
| 2 | 3 | 1 N | 125 | DS4107MPØØØ | | DF4 107 FPØØØ | | |
| | | 2 | 480 | DS4 204 MPØØØ | 23/4" | DF4 204 FPØØØ | 23/4" | |
| 2 | 3 | | 250 | DS4 207 MPØØØ | 274 | DF4 207 FPØØØ | 294" | |
| 2 | 3 | 1 | 600 | DS4 214 MPØØØ | | DF4 214 FPØØØ | | |
| | | | 208 | DS4 216 MPØØØ | | DF4 216 FPØØØ | | |
| | | 2 | 277/480 | DS4 304 MPØØØ | | DF4 304 FPØØØ | | |
| 3 | 4 | | 125/250 | DS4 307 MPØØØ | | DF4 307 FPØØØ | 3" | |
| | | 1 X N | 120/208 | DS4 316 MPØØØ | | DF4 316 FPØØØ | | |
| | | | 3Ø 480 | DS4 404 MPØØØ | - | DF4 404 FPØØØ | | |
| | | ²×1׳ | 3Ø 250 | DS4 407 MPØØØ | 3" | DF4 407 FPØØØ | | |
| 3 | 4 | () () | 3Ø 600 | DS4 414 MPØØØ | | DF4 414 FPØØØ | | |
| | | 120 | 3Ø 208 | DS4 416 MPØØØ | | DF4 416 FPØØØ | | |
| | | | 3Ø 440 | DS4 421 MPØØØ | | DF4 421 FPØØØ | | |
| | | | 3ØY 277/480 | DS4 504 MPØØØ | | DF4 504 FPØØØ | | |
| 4 | _ | 2 3 | 3ØY 347/600 | DS4 514 MPØØØ | 01/11 | DF4 514 FPØØØ | 31/4" | |
| 4 | 5 | · 大学 · · | 3ØY 110/208 | DS4 516 MPØØØ | 31/4" | DF4 516 FPØØØ | | |
| | | ' → " | 3ØY 250/440 | DS4 521 MPØØØ | | DF4 521 FPØØØ | | |



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| CAT. NO. | CAT. NO. | CAT. NO. |
|----------------------|----------------------|----------------------|
| V | • | V |
| DF4 104 FRABØ | DF4 104 FRAØØ | DF4 104 FRØØØ |
| DF4 107 FRABØ | DF41 07 FRAØØ | DF4 107 FRØØØ |
| DF4 204 FRABØ | DF4 204 FRAØØ | DF4 204 FRØØØ |
| DF4 207 FRABØ | DF4 207 FRAØØ | DF4 207 FRØØØ |
| DF4 214 FRABØ | DF4 214 FRAØØ | DF4 214 FRØØØ |
| DF4 216 FRABØ | DF4 216 FRAØØ | DF4 216 FRØØØ |
| DF4 304 FRABØ | DF4 304 FRAØØ | DF4 304 FRØØØ |
| DF4 307 FRABØ | DF4 307 FRAØØ | DF4 307 FRØØØ |
| DF4 316 FRABØ | DF4 316 FRAØØ | DF4 316 FRØØØ |
| DF4 404 FRABØ | DF4 404 FRAØØ | DF4 404 FRØØØ |
| DF4 407 FRABØ | DF4 407 FRAØØ | DF4 407 FRØØØ |
| DF4 414 FRABØ | DF4 414 FRAØØ | DF4 414 FRØØØ |
| DF4 416 FRABØ | DF4 416 FRAØØ | DF4 416 FRØØØ |
| DF4 421 FRABØ | DF4 421 FRAØØ | DF4 421 FRØØØ |
| DF4 504 FRABØ | DF4 504 FRAØØ | DF4 504 FRØØØ |
| DF4 514 FRABØ | DF4 514 FRAØØ | DF4 514 FRØØØ |
| DF4 516 FRABØ | DF4 516 FRAØØ | DF4 516 FRØØØ |
| DF4 521 FRABØ | DF4 521 FRAØØ | DF4 521 FRØØØ |



Application:

Shore power to marine vessels — sightseeing boats

When docked, marine vessels need shore power when their engines aren't running. Dockside designs need to be as safe as possible during heavy use, rough treatment and adverse weather conditions. High amperage-rated systems are installed using parallel power delivery with crossnetwork protection.

Installation:

400-amp male inlets and power connectors with control contacts

Watertight devices are necessary for dockside installations. MaxGard® connections go further with O-rings on both pins and interiors for environmental separation and true waterproof performance. The male inlet center ground pin feature and keyed entry design align easily, make ground first and break last, while quarter-turn insertion delayed-action removal and locking screw collars provide accidental pull-out protection. Upon connector insertion, two auxiliary control contacts complete a contactor circuit, which powers the line through a make-last-and-break-first configuration. Contactors are installed separately in an on-shore sheltered power distribution panel

This can be wired for each contactor or for multiple connections; if one plug is removed, power is cut off.



400 Amp Reverse Service

** If receptacle is desired with a Straight Adapter instead of standard Angle Adapter, substitute "S" for the "A" in the catalog number of the Receptacle with Angle Adapter or Adapter and Box.

† Standard cable bushings shown; see page 34 for other sizes available at no extra cost if specified on order.

^{††} Always furnished with screw collar. We recommend cup cap with male plug; order catalog number DS4CC.

Maximum lug wire 500 kcmil 37-strand or flexible, cable entrance .937" diameter.

Receptacles furnished with flap cap also have screw thread to accept male collar on plug.

Catalog numbers shown are for flap cap receptacles; change "DF" to "DS" for ordering screw cap.

Boldface figures are for voltage assignment. For different ratings, see page 40.

Outlet furnished at location "B" unless otherwise specified. 4" NPT.

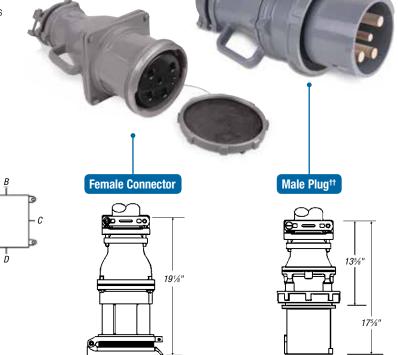
▼ Control contacts for plug/receptacles: Use "K" where noted. Ex: DS4104MR00K

For Adapters. Junction Boxes and Accessories. see pages 34-37.

Device Ratings and Polarizations

Maximum 600VAC or 250VDC

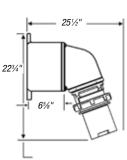
(For full polarization, see page 40)



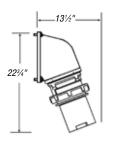
| POLE | WIRE | CONDUCTOR PLACEMENT | VOLTAGE 60 HZ | CAT. NO. | STANDARD Bushing I.D.† | CAT. NO. | STANDARD BUSHING I.D.† | | |
|------|------|---------------------------------------|------------------|----------------------|---------------------------|----------------------|------------------------------|---------------------------------------|--|
| | | | | • | | • | | | |
| 2 | 3 | | 277 | DF41 04 FPØØØ | | DS4 104 MPØØØ | | | |
| ۷ | 3 | 1 N | 125 | DF4 107 FPØØØ | | DS4 107 MPØØØ | | | |
| | | 2 | 480 | DF4 204 FPØØØ | 23/4" | DS4 204 MPØØØ | 23/4" | | |
| 2 | 3 | | 250 | DF4 207 FPØØØ | Z74 | DS4 207 MPØØØ | 274 | | |
| 2 | 3 | .ダブ | 600 | DF4 214 FPØØØ | | | | DS4 214 MPØØØ | |
| | | ' 🔾 | 208 | DF4 216 FPØØØ | | DS4 216 MPØØØ | | | |
| | | | 2 | 277/480 | DF4 304 FPØØØ | | DS4 304 MPØØØ | · · · · · · · · · · · · · · · · · · · | |
| 3 | 4 | | 125/250 | DF4 307 FPØØØ | | DS4 307 MPØØØ | | | |
| | | 1 × N | 120/208 | DF4 316 FPØØØ | | DS4 316 MPØØØ | | | |
| | | | 3Ø 480 | DF4 404 FPØØØ |] | DS4 404 MPØØØ | 011 | | |
| | | 2 3 | 3Ø 250 | DF4 407 FPØØØ | 3" | DS4 407 MPØØØ | 3" | | |
| 3 | 4 | | 3Ø 600 | DF4 414 FPØØØ | | DS4 414 MPØØØ | | | |
| | | 120 | 3Ø 208 | DF4 416 FPØØØ | | DS4 416 MPØØØ | | | |
| | | | 3Ø 440 | DF4 421 FPØØØ | | DS4 421 MPØØØ | | | |
| | | 2 3 | 3ØY 277/480 | DF4 504 FPØØØ | | DS4 504 MPØØØ | | | |
| | _ | \ \text{\sqrt{1}} | 3ØY 347/600 | DF4 514 FPØØØ | 01/# | DS4 514 MPØØØ | 01/11 | | |
| 4 | 5 | (((((((((((((((((((| 3ØY 120/208 | DF4 516 FPØØØ | 31/4" | DS4 516 MPØØØ | 31/4" | | |
| | | 1 N | 3ØY 250/440 | DF4 521 FPØØØ | | DS4 521 MPØØØ | | | |



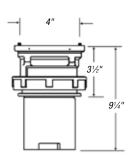












| CAT. NO. | CAT. NO. | CAT. NO. |
|----------------------|----------------------|----------------------|
| • | V | V |
| DS4 104 MRABØ | DS4 104 MRAØØ | DS4 104 MRØØØ |
| DS4 107 MRABØ | DS4 107 MRAØØ | DS4 107 MRØØØ |
| DS4 204 MRABØ | DS4 204 MRAØØ | DS4 204 MRØØØ |
| DS4 207 MRABØ | DS4 207 MRAØØ | DS4 207 MRØØØ |
| DS4 214 MRABØ | DS4 214 MRAØØ | DS4 214 MRØØØ |
| DS4 216 MRABØ | DS4 216 MRAØØ | DS4 216 MRØØØ |
| DS4 304 MRABØ | DS4 304 MRAØØ | DS4 304 MRØØØ |
| DS4 307 MRABØ | DS4 307 MRAØØ | DS4 307 MRØØØ |
| DS4 316 MRABØ | DS4 316 MRAØØ | DS4 316 MRØØØ |
| DS4 404 MRABØ | DS4 404 MRAØØ | DS4 404 MRØØØ |
| DS4 407 MRABØ | DS4 407 MRAØØ | DS4 407 MRØØØ |
| DS4414MRABØ | DS4 414 MRAØØ | DS4 414 MRØØØ |
| DS4 416 MRABØ | DS4 416 MRAØØ | DS4 416 MRØØØ |
| DS4 421 MRABØ | DS4 421 MRAØØ | DS4 421 MRØØØ |
| DS4 504 MRABØ | DS4 504 MRAØØ | DS4 504 MRØØØ |
| DS4 514 MRABØ | DS4 514 MRAØØ | DS4 514 MRØØØ |
| DS4 516 MRABØ | DS4 516 MRAØØ | DS4 516 MRØØØ |
| DS4 521 MRABØ | DS4 521 MRAØØ | DS4 521 MRØØØ |



Cable Bushings for MaxGard® Plugs and Connectors

To order non-standard bushing, add cable bushing number to the end of a catalog number. The bushing is furnished at no additional cost at time of order.

Ex: DF2504FP000/DF2032.

Shaded areas show Cable Bushings provided with a strain-relief neck; larger bushings are collar style.





Size No. 3 and 6 (Identification Letter Inside Hole)

Size No. 10, 20 and 40

| HOLE DIAMETER FOR CABLE | | ZE 3 AMP | | ZE 6 AMP | | ZE 10 AMP | | ZE 20 AMP | | E 40 AMP |
|----------------------------|-------|-------------|--------|-------------|--------|--------------|--------|--------------|--------|-------------|
| .625" | JG63 | | | | | | | | | |
| .750" | JG64 | | JG104 | | | | | | | |
| .875" | JG65 | Std. 2P3W | JG105 | | | | | | | |
| 1.000" | JG66 | Std. 2P3W | JG106 | | DF1020 | | DF2020 | | | |
| 1.188" | JG67 | Std. 3P4W | JG107 | Std. 2P3W | DF1022 | | DF2022 | | | |
| 1.313" | | | JG108 | Std. 3P4W | DF1024 | | DF2024 | | | |
| 1.375" | JG69 | | | | | | | | | |
| 1.500" | JG610 | | JG1010 | Std. 4P5W | DF1026 | | DF2026 | | | |
| 1.625" | | | | | | | | | | |
| 1.688" | | | JG1011 | | DF1027 | Std. 2P3W | DF2027 | | | |
| 1.813" | | | | | DF1029 | Std. 3P4W | DF2029 | | | |
| 1.875" | | | JG1013 | | DF1030 | | DF2032 | Std. 2P3W | | - |
| 2.000" | | | | | DF1032 | Std. 4P5W | | | | - |
| 2.125" | | | | | | | DF2034 | Std. 3P4W | | |
| 2.250" | | | | | | | DF2036 | Std. 4P5W | | |
| 2.500" | | | | | | | DF2040 | | | |
| 2.625" | | | | | | | | | DF4042 | |
| 2.750" | | | | | | | | | DF4044 | |
| 3.000" | | | | | | | | | DF4048 | Std. 3P4W |
| 3.250" | | | | | | | | | DF4054 | Std. 4P5W |

Standard Cable Bushings

Notes: When ordering, select bushing size slightly larger than your cable O.D. for best fit.

Material — Neoprene



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Adapters for Conduit and Fittings

Adapters are tapped NPT standard pipe thread to accommodate rigid conduit or standard connectors for armored and non-metallic cable or flexible conduit.





JPA Conduit Adapters

| 30 AMP Cat. No. | TAPPED HOLE SIZE NPT | 60 AMP CAT. NO. | TAPPED HOLE SIZE NPT | 100 AMP CAT. NO. | TAPPED HOLE SIZE NPT | 200 AMP CAT. NO. | TAPPED HOLE SIZE NPT | 400 AMP CAT. NO. | TAPPED HOLE SIZE NPT |
|--------------------|-------------------------|--------------------|-------------------------|---------------------|-------------------------|---------------------|-------------------------|---------------------|-------------------------|
| JPA62 | 3/4" | JPA104 | 11/4" | DFA14 | 11/4" | DFA25 | 1½" | DFA46 | 2" |
| JPA63 | 1" | JPA105 | 1½" | DFA15 | 1½" | DFA26 | 2" | DFA47 | 2½" |
| JPA64 | 11/4" | JPA 106 | 2" | DFA16 | 2" | DFA27 | 21/2" | DFA48 | 3" |
| JPA65 | 1½" | _ | _ | _ | _ | _ | _ | _ | _ |

Note:

Material — cast aluminum, corrosion-resistant copper-free alloy, electrostatic epoxy coated. Furnished complete with gasket and screws.

To specify standard plugs or connectors equipped with one of the above adapters, add the catalog number of the adapter selected to the catalog number of the plug or connector. Complete list price is the list price of the device plus list price of the adapter.

Ex.: Cat. No. DS3107MP000 with adapter tapped 1" would be Cat. No. DS3107MP000/JPA63.

Replacement Flap Covers and Screw Covers

· For connectors, receptacles and interlocks

| CAT. NO. | DESCRIPTION | AMPERAGE |
|----------|------------------------------------|----------|
| DFC3 | | 30 |
| DFC6 | Flore Course Assessable | 60 |
| DFC10 | Flap Cover Assembly (Weathertight) | 100 |
| DFC20 | (weathertight) | 200 |
| DFC40 | | 400 |
| DSC3 | | 30 |
| DSC6 | Screw Cap and STS — | 60 |
| DSC10 | Lanyard Assembly | 100 |
| DSC20 | (Watertight) | 200 |
| DSC40 | | 400 |





Accessories for Receptacles

| | DESCRIPTION | 30 AMP CAT. NO. | 60 AMP CAT. NO. | 100 AMP CAT. NO. | 200 AMP CAT. NO. | 400 AMP CAT. NO. |
|---|--|-------------------------------------|---------------------------------|--------------------------|--------------------------|------------------------|
| | Cup Caps For watertight plugs/inlets. Cup caps are used where portable equipment is on a standby basis and plugs are not in use. Effectively protect insulation and contacts from excessive moisture, dirt, dust and corrosion. Material — Cast aluminum, corrosion-resistant copper-free alloy, electrostatic epoxy coated with steel braid cable attached. | DS3CC | DS6CC | DS1CC | DS2CC | DS4CC |
| | Adapter Flush Frames — Single Gang Provide suitable means for mounting box covers of junction box receptacles flush in a wall. | JFA3 | JFA6 | JFA10 | JFA20 | - |
| | Adapters for Conduit Box Receptacles Adapters to fit existing boxes and for special mounting requirements can also be furnished. Consult your Thomas & Betts representative. 20° Vertical Angle Adapter 30° Vertical Angle Adapter 45° Vertical Angle Adapter Straight Adapter | JAA6-AB6 JAA6-45 JRA6-AB6 | JAA10 — JAA10-45 JRA10 | DAA10 — — DRA10 | DAA20 — — DRA20 | DAA40 DRA40 |
| | Junction Box — Single Gang | JB6-1 | JB10-B150 | JB10-B200 | DJB20 | DJB40 |
| 1 | Angle Enclosure | JE6 | JE10 | JE10M | _ | _ |
| | MACK Adapter Plates Enables mounting of MaxGard® receptacles to competitive existing back boxes. This involves removing the existing non-hazardous location receptacle from back box, inserting adapter plate and installing MaxGard® receptacle. Adapter plates are available for competitors' boxes including Hubbel, Killark, Appleton and Crouse-Hinds. | DCCA3 | DCCA6 | DCCA10 | DCCA20 | - |
| | Russellstoll® Adapter Plates Adapt MaxGard® receptacles to existing J-Line™, Angle Type and Heavy-Service Ever-Lok® back boxes. | DRCA3 | DRCA6 | DRCA10 | _ | N/A |



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Replacement Interiors for Receptacles, Connectors, Plugs and Male Inlets





| RATING | | VOLTAGE | | NDING MALE ASSEMBLY | CORRESPONDING FEMALE INTERIOR ASSEMBLY | | |
|--------|------|--------------|-------------|------------------------|--|-----------------|--|
| | | POLARIZATION | PLUG/INLET | MALE INTERIOR | CONNECTOR/RECEPTACLE* | FEMALE INTERIOR | |
| | 2P3W | 125VAC | DS3107MP000 | DFPU3107 | DF3107FP000 | DFRU3107 | |
| | 2P3W | 250VAC | DS3207MP000 | DFPU3207 | DF3207FP000 | DFRU3207 | |
| 30A | 3P4W | 125/250VAC | DS3307MP000 | DFPU3307 | DF3307FP000 | DFRU3307 | |
| | 3P4W | 3-ph 480VAC | DS3404MP000 | DFPU3404 | DF3404FP000 | DFRU3404 | |
| | 4P5W | 277/480VAC | DS3504MP000 | DFPU3504 | DF3504FP000 | DFRU3504 | |
| | 2P3W | 250VAC | DS6207MP000 | DFPU6207 | DF6207FP000 | DFRU6207 | |
| | 3P4W | 125/250VAC | DS6307MP000 | DFPU6307 | DF6307FP000 | DFRU6307 | |
| 60A | 3P4W | 3-ph 480VAC | DS6404MP000 | DFPU6404 | DF6404FP000 | DFRU6404 | |
| | 4P5W | 277/480VAC | DS6504MP000 | DFPU6504 | DF6504FP000 | DFRU6504 | |
| | 2P3W | 250VAC | DS1207MP000 | DFPU1207 | DF1207FP000 | DFRU1207 | |
| | 3P4W | 125/250VAC | DS1307MP000 | DFPU1307 | DF1307FP000 | DFRU1307 | |
| 100A | 3P4W | 3-ph 480VAC | DS1404MP000 | DFPU1404 | DF1404FP000 | DFRU1404 | |
| | 4P5W | 277/480VAC | DS1504MP000 | DFPU1504 | DF1504FP000 | DFRU1504 | |
| | 3P4W | 277/480VAC | DS2304MP000 | DFPU2304 | DF2304FP000 | DFRU2304 | |
| 200A | 3P4W | 3-ph 480VAC | DS2404MP000 | DFPU2404 | DF2404FP000 | DFRU2404 | |
| | 4P5W | 277/480VAC | DS2504MP000 | DFPU2504 | DF2504FP000 | DFRU2504 | |
| | 3P4W | 277/480VAC | DS4304MP000 | DFPU4304 | DF4304FP000 | DFRU4304 | |
| 400A | 3P4W | 3-ph 480VAC | DS4404MP000 | DFPU4404 | DF4404FP000 | DFRU4404 | |
| | 4P5W | 277/480VAC | DS4504MP000 | DFPU4504 | DF4504FP000 | DFRU4504 | |

Note: For other interiors not shown, use same polarization index as plug, connector, etc. Ex: DS6416MP000 plug uses a DFPU6416 interior. If your original product had option "K - Control Contacts," include a "K" at the end of the replacement part number. Ex: If your plug/inlet is a DS3404MP00K, then the male replacement interior would be a DFPU3404K. If your connector/ receptacle is a DF3404FP00K, then your female replacement/interior would be a DFRU3404K.

Accessories for Interlocked NEMA 12/3R Receptacles

| DESCRIPTION | 30 AMP CAT. NO. | 60 AMP CAT. NO. | 100 AMP CAT. NO. | 200 AMP CAT. NO. | 400 AMP CAT. NO. |
|--|--------------------|--------------------|---------------------|---------------------|---------------------|
| Fused Disconnect Interlocked Receptacle with Safety Switch | | | | | |
| 30–100A | | | | | |
| 1 NO — 1 NC Contact | F34757 | F34757 | F34757 | N/A | N/A |
| 2 NO — 2 NC Contact | F34758 | F34756B | N/A | N/A | N/A |
| Copper Body Lugs — 6 lugs per kit | F34756A | F34756B | F34756C | N/A | N/A |
| Type R Fuse Clips — 3 per kit | F34755A | F34755B | F34755C | N/A | N/A |
| Neutral Block | F34754A | F34754B | F34754B | N/A | N/A |



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^{*} To order replacement interior parts for the MaxGard Interlock, replace "DFRU" with "DFIU".

Russellstoll*

MaxGard® Interconnection Systems

Pin and Sleeve Plugs, Receptacles and Systems

1.0 Scope

- 1.1 This document covers multi-contact pin and sleeve, industrial grade, arc-quenching, circuit interrupting-rated electrical plugs, motor plugs, connectors, receptacles, mechanically interlocked receptacles and assorted accessories. Usable in dry, damp, wet, marine and/or hazardous locations for electrical power circuits. Devices are to be rated 30, 60, 100, 200 and/or 400 amperes at 600VAC, 50–400 Hz and 250VDC maximum. Devices are also rated for continuous use in temperatures from -40° C to +130° C. These devices must provide internal environmental seals for marine and extreme wet applications and can be electrically interlocked.
- 1.2 The devices described shall be Thomas & Betts/Russellstoll[®] MaxGard[®] catalog numbers as specified.

2.0 Product Classifications (Features)

- 2.1 Gated Deadfront All receptacles and connectors must have a rotating disk on the face of the interior, which provides live contact isolation and environmental separation.
- 2.2 Delayed Action Arc Containment All devices upon disconnect under load shall have provision so the arc is contained and extinguished within the insulation cavity, making it impossible to withdraw a live plug.
- 2.3 Flap Cover or Screw Cover Option Flap cover option must provide weathertight capability by utilizing a spring actuated selfclosing flap. Watertight capability shall be obtained by using a gasketed screw cap.
- 2.4 Polarization All devices shall be factory polarized for amperage, voltage, frequency and phase; thus providing a single voltage rating, single interface system.
- 2.5 Grounding The grounding of the device shall be accomplished through a separate center ground (earth) make-first and break-last pole on all devices for complete system grounding.

- 2.6 Pole Capabilities All devices shall accommodate up to four power pins plus a separate center ground pin and they shall be integral with the connector bodies (five pins total).
- 2.7 Interior Type Interiors must be male (pin type) or female (sleeve type). Pins and sleeves shall also be self-aligning and self-wiping/self-cleaning.
- 2.8 Control Contacts All devices must have an option for two control contacts, which shall be make-last and break-first for use in electrical interlocks and/or control circuits. See table below.
- 2.9 Conductor Terminals Pin and sleeve connections shall employ solderless pressure-type screw terminals and be sized to accept stranded or solid copper conductors in AWG sizes (max. O.D.s as noted). The screw terminals shall also have socket heads to ensure proper torquing of wires.
- 2.10 Environmental Seals Each device must have an environmental seal or 0-ring around all interiors and around each pin and sleeve to prevent water and contaminants from entering the wiring compartment. This provides waterproof capability, even when not mated
- 2.11 Hazardous Location All standard plugs 30, 60 and 100 amp shall be UL® and CSA listed for hazardous location Class I Division 1, Groups C and D; Class II Division 1, Groups F and G. A hazardous location circuit breaker-protected interlock shall also be applicable to the same environments and possess all the same product features as outlined above. Enclosures shall meet NEMA 8 hazardous outdoor-duty classifications and shall meet shipboard use above deck in accordance with the Department of Transportation (USCG "Green Water").
- 2.12 Lockout Devices Plug connection lockout is achieved by a padlock through plug sleeve housing hole provided for this purpose. On Hazardous Location/Explosion Proof Interlock Receptacles, lockout shall additionally be achieved by separate lockout accessory available from the factory. On standard Interlocks, lockout accessory/construction is available from the factory.

Rating for Pilot/Control Contacts

Contact Rating Code Designation A-600, Table 119.1 — UL 508 Heavy Pilot Duty Load (720 VA/600VAC) Maximum

| THERMAL MAXIMUM CURRENT AMPE | | RENT AMPERE | | | | | | | | |
|------------------------------|------|-------------|------|-------|------|-------|------|-------|----------|----------|
| CONTINUOUS CURRENT AMPS | 12 | 20V | 24 | 10V | 48 | 80V | 60 | ov | MAX. VOL | T AMPERE |
| | Make | Break | Make | Break | Make | Break | Make | Break | Make | Break |
| 10 (#12 AWG) | 60 | 6 | 30 | 3 | 15 | 1.5 | 12 | 1.2 | 7200 | 720 |



United States
Tel: 901.252.800

Tel: 901.252.8000 800.816.7809 Fax: 901.252.1354 Technical Services
Tel: 888.862.3289





3.0 Materials Requirements

- 3.1 Housings Plug, motor plug, receptacles, connectors and interlock housings, associated covers and caps, screw collars, and clamp holders shall be made of copper-free cast aluminum (max. .004% copper).
- 3.2 Finish All external surfaces except those that provide means of grounding shall be epoxy powder coated to resist corrosion.
- 3.3 Hardware All hardware, external and springs, shall be stainless steel. Cable clamps shall be stainless steel or epoxy powder coated, copper-free cast aluminum.
- 3.4 Insulators All device body insulators shall be molded from glass-reinforced high-strength thermoset polyester, minimum of UL® 94-V0 flammability rated.
- 3.5 Contacts Contacts base material shall be made of a conductive copper alloy (brass CDA485) to prevent dezincification. Accessory material of the contacts shall be made of a compatible corrosion resistant material.
- Environmental Seals Environmental gaskets and O-rings shall be made of Neoprene material.

4.0 Design and Construction Requirements

- 4.1 Circuit Interrupting Rating All devices 30, 60, 100 and 200 amperes shall be tested to be interrupted at 150% of rated current. Additionally, all devices shall be designed and tested to interrupt 100% of rated current.
- 4.2 Wiring All devices shall be wired from the rear requiring no disassembly of the pins and/or sleeves from the insulated body.
- 5.0 Applicable Documents (Compliances)
- 5.1 Underwriters Laboratories (UL) The devices specified herein shall be listed in applicable sections of UL Standards 1010, 231, 1682 and 1686, File Nos. E2630, E57324, E68085, E123752.
- 5.2 Canadian Standard Association (CSA) — The devices specified shall be listed in the applicable sections of CSA C22.2-182.1, File Number LR14096.
- 5.3 International Electro-Technical Commission (IEC) — The 30-, 60- and 100-ampere devices specified shall have been tested and comply with IEC 309-1.
- 5.4 Federal Department of Transportation
 Refrigerated National Shipboard location devices shall meet and comply with Federal Register volume 47, number 68, subpart 111.79.
- 5.5 Standards The devices specified shall comply with Military Standards MIL-STD-105 and 1344; ASTM Standards D570 and D2565: NEMA Standard PR4-1983; and OSHA regulations when installed in accordance with the National Electrical Code® (NEC®).

5.6 NEMA 250 Enclosures Standard

NEMA 1 — General Purpose for indoor use; guards against contact with equipment.

NEMA 3R — Outdoor use primarily to protect against rain, sleet, wind-blown dust and damage from external ice formation.

NEMA 4 — Indoor or outdoor use to protect against windblown dust and rain; splashing and hose-directed water.

NEMA 4X — Watertight, dust-tight corrosion-resistant for indoor or outdoor applications.

NEMA 6 — Watertight, casual/temporary immersion.

NEMA 7 — Class I (Hazardous) for indoor use in Class I areas, per NEC[®].

NEMA 8 — Class I (Hazardous) for indoor use in Class I, oil-immersed equipment.

NEMA 9 — Class II (Hazardous) for indoor use in Class II areas, per NEC[®].

NEMA 12 — Industrial use, dust-tight for indoor use to protect against dust, falling dirt and dripping non-corrosive liquids.

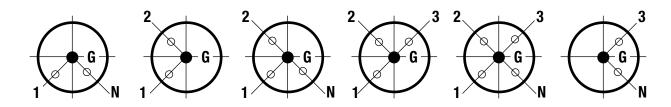
NEC and National Electrical Code are registered trademarks of the National Fire Protection Association, Inc.



Fax: 901.252.1354

800.816.7809

Single Polarization/Multiple Service* Assigned Voltages and Wiring Systems



N-R1-G R1-S2-G N-R1-S2-G R1-S2-T3-G N-R1-S2-T3-G 2P+G(DC)

| VOLTAGE ASSIGN. | | VOLTAGE ASSIGN. | | VOLTAGE ASSIGN. | | VOLTAGE ASSIGN. | | VOLTAGE ASSIGN. | | VOLTAGE ASSIGN. | | |
|--------------------|-------------|--------------------|-------------|--------------------|-----------------|--------------------|----------------|--------------------|--------------------|--------------------|---------|-------|
| NO. | VOLTAGE | NO. | VOLTAGE | NO. | VOLTAGE | NO. | VOLTAGE | NO. | VOLTAGE | NO. | VOLTAGE | INDEX |
| 101 | 220V-50 Hz | 201 | 380V-50 Hz | 301 | 220/380V-50 Hz | 401 | 380V-50 Hz | 501 | 220/380V-50 Hz | | | 01 |
| 103 | 127V-50 Hz | 203 | 220V-50 Hz | 303 | 220/127V-50 Hz | 403 | 220V-50 Hz | 503 | 220/127V-50 Hz | | | 03 |
| 104 | 277V-60 Hz | 204 | 480V-60 Hz | 304 | 277/480V-60 Hz | 404 | 3Ø 480V-60 Hz | 504 | 3ØY 277/480V-60 Hz | | | 04 |
| 105 | 250V-50 Hz | 205 | 440V-50 Hz | 305 | 250/440V-50 Hz | 405 | 3Ø 440V-50 Hz | 505 | 3Ø 250/440V-50 Hz | | | 05 |
| 107 | 125V-60 Hz | 207 | 250V-60 Hz | 307 | 125/250V-60 Hz | 407 | 3Ø 250V-60 Hz | 507 | 3ØY 125/250V-60 Hz | | | 07 |
| 108 | 220V-60 Hz | 208 | 380V-60 Hz | 308 | 220/380V-60 Hz | 408 | 3Ø 380V-60 Hz | 508 | 3Ø 220/380V-60 Hz | | | 08 |
| 109 | 100V-60 Hz | 209 | 220V-60 Hz | 309 | 100/220V-60 Hz | 409 | 3Ø 220V-60 Hz | 509 | 3Ø 100/220V-60 Hz | | | 09 |
| 111 | 115V-400 Hz | 211 | 220V-400 Hz | 311 | 220/115V-400 Hz | 411 | 220V-400 Hz | 511 | 220/115V-400 Hz | | | 11 |
| | _ | | _ | | _ | | _ | 513 | 230V DC | 613 | 250 VDC | 13 |
| 114 | 347V-60 Hz | 214 | 600V-60 Hz | 314 | 347/600V-60 Hz | 414 | 3Ø 600V–60 Hz | 514 | 3ØY 347/600V-60 Hz | | | 14 |
| 115 | 100V-50 Hz | 215 | 220V-50 Hz | 315 | 100/220V-50 Hz | 415 | 3Ø 220V–50 Hz | 515 | 3Ø 100/220V-50 Hz | | | 15 |
| 116 | 120V-60 Hz | 216 | 208V-60 Hz | 316 | 120/208V-60 Hz | 416 | 3Ø 208V-60 Hz | 516 | 3ØY 120/208V-60 Hz | | | 16 |
| 117 | 120V-400 Hz | 217 | 208V-400 Hz | 317 | 120/208V-400 Hz | 417 | 3Ø 208V-400 Hz | 517 | 3Ø 120/208V-400 Hz | | | 17 |
| | _ | | _ | | _ | | 208V | | _ | 618 | 28 VDC | 18 |
| | | | | | | | | | | | | 20 |
| | _ | 221 | 440V-60 Hz | 321 | 250/440V-60 Hz | 421 | 3Ø 440V-60 Hz | 521 | 3ØY 250/440V-60 Hz | | | 21 |
| | | | | | | | 250V | | Reserved | | | 22 |
| | | | | | | | 480V | | Reserved | | | 23 |
| | | | | | | | 600V | | Reserved | | | 24 |

MaxGard® receptacles and plugs may be furnished in any of the above voltage and phasing systems.

To order any device in a voltage and phasing not shown in the preceding catalog pages, substitute the Voltage Assignment Number in the above chart for that portion of the listed catalog number appearing in boldface type.

Example: 200 Amp Weathertight Receptacle with Flap Cover, Angle Adapter and Junction Box for 3Ø 480 volt (3-pole and ground) is DF2404FRAB0.

To change to 3Ø 208 volt, the catalog number becomes DF2416FRABO.

Note: All devices may be furnished with two control contacts. Add "K" to the end of the catalog number, in place of last position Ø.

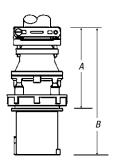
* Dual-Voltage or Multiple-Service Applications (for any given polarization number) — Example: A factory installation may consist of all receptacles specified and wired at polarization "507." This is a 3ph. Y-125/250V-60 Hz supply. However, all circuit requirements "below" (507) can also be met; for instance a "207" plug will draw phasing for 250V-60 Hz operation of equipment as well, while another ".507" receptacle supplies power for a 3-phase motor installation. See chart above.

For non-interrupting polarizations at 45, 90, 150, 300, 600A ratings, consult Technical Services.

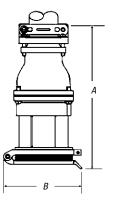




Male Plug



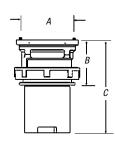
| Connector | • |
|-----------|---|
|-----------|---|



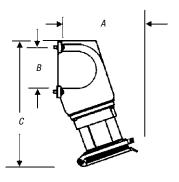
| AMP | A | В |
|-----|--------|--------|
| 30 | 43/4" | 7%" |
| 60 | 51/2" | 91/8" |
| 100 | 61/2" | 101/8" |
| 200 | 9" | 13¾" |
| 400 | 125/8" | 17%" |

| AMP | Α | В |
|-----|---------|-------|
| 30 | 83/4" | 51/8" |
| 60 | 10" | 53/8" |
| 100 | 111//8" | 53/8" |
| 200 | 15" | 91/2" |
| 400 | 191/8" | 10¾" |

Male Inlet



Receptacle with Angle Enclosure



| | AMP | Α | В | C |
|---|-----|-------|-------|-------|
| ĺ | 30 | 27/8" | 21/2" | 5½" |
| | 60 | 33/8" | 21/2" | 5½" |
| | 100 | 33/8" | 21/2" | 5½" |
| | 200 | 51/4" | 31/2" | 91/4" |
| | 400 | 35/8" | 43/8" | 91/4" |

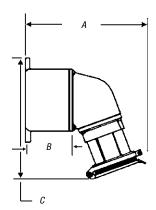
| AMP | Α | В | C |
|-----|-------|-------|--------|
| 30 | 6%" | 31/8" | 97/8" |
| 60 | 71/8" | 4" | 111/8" |
| 100 | 71/2" | 4" | 11%" |
| 200 | _ | _ | _ |
| 400 | _ | _ | _ |

(Flap covers shown — screw covers available. On all, screw covers have nominal effect on outside dimensions.)

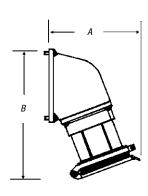




Receptacle with Angle Adapter and DJB Junction Box



Receptacle with Angle Adapter

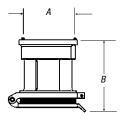


| AMP | А | В | С |
|-----|--------|-------|--------|
| 30 | 91/8" | 3" | 9%" |
| 60 | 10½" | 3" | 93/4" |
| 100 | 10¾" | 3¾" | 10" |
| 200 | 15¾" | 65/8" | 14%" |
| 400 | 251/4" | 12" | 203/4" |

| AMP | Α | В |
|-----|--------|-------|
| 30 | 61/8" | 95/8" |
| 60 | 7½" | 93/4" |
| 100 | 7" | 10" |
| 200 | 9½" | 14¾" |
| 400 | 131/4" | 20¾" |

(Flap covers shown — screw covers available. On all, screw covers have nominal effect on outside dimensions.)

Receptacle Only



| AMP | A | В |
|-----|-------|-------|
| 30 | 27/8" | 41/2" |
| 60 | 33/8" | 51/8" |
| 100 | 35/8" | 5%" |
| 200 | 51/4" | 65/8" |
| 400 | 7" | 71/8" |



Industrial interlocked receptacles are available in 30 through 400 Amp. Switched receptacles have mechanical linkages for added safety. Safety features include:

- Plugs cannot be inserted unless power is safely turned off
- · Plugs cannot be removed until power is safely turned off
- Specialty designs may also automatically disengage power if plug is removed while power is on, either mechanically or electrically

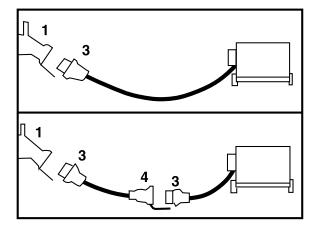
Applications

Applications where these units are most commonly used are:

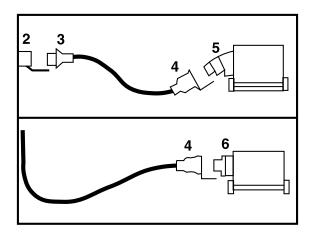
- Welding stations in automotive and heavy industry
- Temporary and portable power distribution for construction
- Marine shore-to-ship power
- Industrial machinery installation
- Portable power distribution, vehicle and gen-set power for aerospace
- Custom systems in all industries



Sample Installation: Fixed Power Source (Wall) to Remote/Portable Location



- 1. Receptacle (wall-mounted female)
- 2. Receptacle (panel-mounted female)
- 3. Plug (attachment)



- 4. Female connector
- 5. Male Inlet with angle adapter
- 6. Male inlet with straight adapter

Other installations: generator power sources, custom control circuits, multiple voltage service — contact Technical Services.





MaxGard® Fused-Disconnect** Interlocked Receptacle with Disconnect Switch

MaxGard® Fused-Disconnect Interlocked Receptacle with Safety Switch meets UL®, NEC® and major automotive specifications. This unit is the maximum in:

Safety

- Door safety switch with three external lockout points
- · Safety fuse pulls for standard class R fuses
- Backup door safety latch

Durability

- Heavy .060 steel galvaneel with baked enamel, NEMA 3R/12 construction
- Clear shield for test probes

Performance

- Standard 600V cartridge fuse clips and spacing
- Fully interlocked MaxGard® receptacle
- Angled front receptacle for easier access



ŲL) E5239

(UL) E5239

Ordering Information

Maximum 600VAC or 250VDC

Notes: **Non-fused, non UL version available:

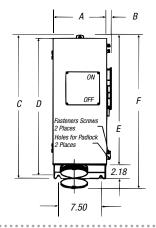
Specify DNRF _______.

Standard polarizations shown. Boldface figures are for voltage assignment; for different ratings, see page 40.

User Made Possible Conduit Hubs

| | STD. NPT | |
|-----|---------------|-------|
| AMP | THREAD OUTLET | MAX. |
| 30 | 1½" | 21/2" |
| 60 | 2" | 21/2" |
| 100 | 2" | 21/2" |

Specifications on pages 38-39.



| | POLES/ Wires | VOLTAGE | FUSED DISCONNECT** INTERLOCKED RECEPTACLE NEMA 12/3R CAT. NO. | MATING MAXGARD PLUG CAT. NO. | STD. Bushing ID |
|-----------|-----------------|---------|---|------------------------------------|------------------------------|
| | 2P3W | 125 | DFRF31 070 | DS3107MP000 | 7/8" |
| 20 | 2P3W | 250 | DFRF3 2070 | DS3 207 MP000 | 7/8" |
| 30 AMP | 3P4W | 3Ø250 | DFRF3 3070 | DS3 307 MP000 | 1" |
| 7 | 3P4W | 3Ø480 | DFRF3 4040 | DS3404MP000 | 1" |
| | 4P5W | 277/480 | DFRF3 5040 | DS3 504 MP000 | 13/16" |
| | 2P3W | 250 | DFRF6 2070 | DS6 207 MP000 | 13/16" |
| 60 | 3P4W | 125/250 | DFRF6 3070 | DS6 307 MP000 | 1 ½16" |
| AMP | 3P4W | 3Ø480 | DFRF6 4040 | DS6404MP000 | 1 ½6" |
| | 4P5W | 277/480 | DFRF6 5040 | DS6 504 MP000 | 11/2" |
| | 2P3W | 250 | DFRF1 2070 | DS1207MP000 | 1 11/ ₁₆ " |
| 100 | 3P4W | 125/250 | DFRF1 3070 | DS1307MP000 | 1 13/16" |
| AMP | 3P4W | 3Ø480 | DFRF1 4040 | DS1404MP000 | 1 13/16" |
| | 4P5W | 277/480 | DFRF1 5040 | DS1 504 MP000 | 2" |

▼ Control Contacts (position 9) use "K" example: DFRF1207K. Always use liquidtight fittings to limit condensation entry.

Dimensions

| ווטופווטוווע | 3 | | | | | _ |
|--------------|--------------------|-------|-------|-----|--------|-----|
| AMP | Α | В | С | D | E | F |
| 30 | 9½" | 3/4" | 25¾" | 25" | 22¾" | 30" |
| 60 | 9½" | 3/4" | 25¾" | 25" | 223/4" | 30" |
| 100 | Q1/ ₆ " | 3/,11 | 253/" | 25" | 223/" | 30" |



United States

Tel: 901.252.8000 800.816.7809 Fax: 901.252.1354 **Technical Services**

Tel: 888.862.3289



Maximum 600VAC/250VDC

MaxGard® NEMA 4X interlocks are ideal for demanding non-hazardous areas where dust, dirt, moisture and corrosion might be a problem such as shipyards, food processing facilities, manufacturing operations or similar areas.

Safety

- Gated deadfront waterproof receptacle
- Standard, high AIC or NA/switch circuit breaker
- · Protective screw cap for watertight protection

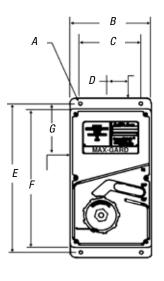
Durability

- Thick-wall cast copper-free aluminum housing with epoxy powder-coat finish
- Heavy-duty sliding bar interlock mechanism

Performance

- · Heavy on/off handle adds mechanical ability to electrical interlock function
- Standard conduit openings through top or side











Conduit Hubs: (at B or E)

| | STD. NPT | |
|-----|---------------|-------|
| AMP | THREAD OUTLET | MAX. |
| 30 | 1½" | 21/2" |
| 60 | 1½" | 21/2" |
| 100 | 2" | 21/2" |
| 200 | 2" | 3" |
| 400 | 4" | 4" |

▼ Control Contacts (position 12) use "K" example: DBRS6104060K0

Shunt Trip Breaker (position 13) add "Z" to above: DBRS6104060KZ

Breaker Trip Ratings (positions 9, 10, 11) 30 amp use 030; 60 amp use 060; alternate trip ratings available — consult **Technical Services**

Non-Auto Sw. NA0 (repl." DBRF" with "DSRF")

For additional full line and polarization options, see page 40.

Dimensions

| AMP | Α | В | C | D | E | F | G |
|-----|--------------------|--------|-------|-------|--------|--------|-------|
| 30 | 3/8" | 8¾" | 61/2" | 1½" | 161/4" | 151/8" | 31/8" |
| 60 | 3/8" | 83/4" | 61/2" | 1½" | 161/4" | 151/8" | 31/8" |
| 100 | 3/8" | 83/4" | 61/2" | 1½" | 161/4" | 151/8" | 31/8" |
| 200 | 9/ ₁₆ " | 121/4" | 9" | 21/2" | 261/4" | 24¾" | 5" |
| 400 | 9/16" | 151/2" | 12" | 3" | 301/2" | 29" | 6" |

| voltage as | e figures are ssignment; ratings, see POLES/ WIRES | for | MECHANICALLY INTERLOCKED RECEPTACLE NEMA 4X CAT. NO. | MATING MAXGARD PLUG CAT. NO. | STD. Bushing Id |
|------------|--|---------|--|------------------------------------|-----------------------------------|
| | ODOM | 105 | DDDC040700000 | DC0407MD000 | 7/8" |
| | 2P3W | 125 | DBRS310703000 | DS3107MP000 | , - |
| 30 | 2P3W | 250 | DBRS320703000 | DS3207MP000 | 7/8" |
| Amp | 3P4W | 3Ø250 | DBRS330703000 | DS3307MP000 | 1" |
| | 3P4W | 3Ø480 | DBRS340403000 | DS3404MP000 | 1" |
| | 4P5W | 277/480 | DBRS350403000 | DS3504MP000 | 13/16" |
| | 2P3W | 250 | DBRS620706000 | DS6207MP000 | 1 ¾16" |
| 60 | 3P4W | 125/250 | DBRS630706000 | DS6307MP000 | 1 ½16" |
| Amp | 3P4W | 3Ø480 | DBRS640406000 | DS6404MP000 | 1 5⁄16" |
| | 4P5W | 277/480 | DBRS650406000 | DS6504MP000 | 1½" |
| | 2P3W | 250 | DBRS120710000 | DS1207MP000 | 111/16" |
| 100 | 3P4W | 125/250 | DBRS130710000 | DS1307MP000 | 1 ¹³ / ₁₆ " |
| Amp | 3P4W | 3Ø480 | DBRS140410000 | DS1404MP000 | 113/16" |
| | 4P5W | 277/480 | DBRS150410000 | DS1504MP000 | 2" |
| 000 | 3P4W | 277/480 | DBRS230720000 | DS2307MP000 | 11/4" |
| 200 | 3P4W | 3Ø480 | DBRS240420000 | DS2404MP000 | 21/4" |
| Amp | 4P5W | 277/480 | DBRS250420000 | DS2504MP000 | 21/2" |
| 400 | 3P4W | 277/480 | DBRS430740000 | DS4307MP000 | 3" |
| 400 | 3P4W | 3Ø480 | DBRS440440000 | DS4404MP000 | 3" |
| Amp | 4P5W | 277/480 | DBRS450440000 | DS4504MP000 | 31/4" |

(Flap-Cap available by replacing "DBRS" with "DBRF")

Explosion-Proof Applications

Russellstoll® Hazardous-Duty Plugs, Receptacles and Interlocks are designed to support a variety of installation needs throughout 20A, 30A, 60A and 100A ranges where Division 1, Class 1 NEC® guidelines require the utmost in safety.

Unique among others, the Russellstoll® MaxGard® also offers true O-ring sealed waterproof design protection in addition to standard threaded flame-path construction employed elsewhere. In rough service, washdown and outdoor applications, MaxGard® performance goes beyond normal explosion-proof ratings.

With coming increases in harmonized designations for classifications between NFPA/NEC® and IEC (International) hazardous area standards, a quick reference classification chart is provided below. In all cases, the customer must determine and approve proper area classification standards and degree of harmonized standards acceptance.



| HAZARDOUS MATERIALS Environment | U.S. NEC STANDARDS | EURO IEC STANDARDS |
|------------------------------------|---------------------------------|----------------------------------|
| Gas or Vapor | Div. 1, Class I | Zone 0 and 1 |
| das di Vapoi | Div. 2, Class I | Zone 2 |
| Dust | Div. 1, Class II | Zone 10 |
| Dust | Div. 2, Class II | Zone 11 |
| Fibera/Flyings | Div. 1, Class III | Zone 10 |
| Fibers/Flyings | Div. 2, Class III | Zone 11 |
| GROUP APPLICATIONS | NEC ART. 500 CLASS I: GROUPS | NEC ART. 505 Zones 0, 1 and 2 |
| | A: Acetylene | IIC |
| Div 1 and 2 Class I | B: Hydrogen | IIU |
| Div. 1 and 2, Class I | C: Ethylene | IIB |
| | D: Propane | IIA |

The above chart is presented for quick reference only and should only be used in conjunction with noted Articles. Further definition of harmonized standards will be supported by Russellstoll through appropriate specification efforts whenever practical.

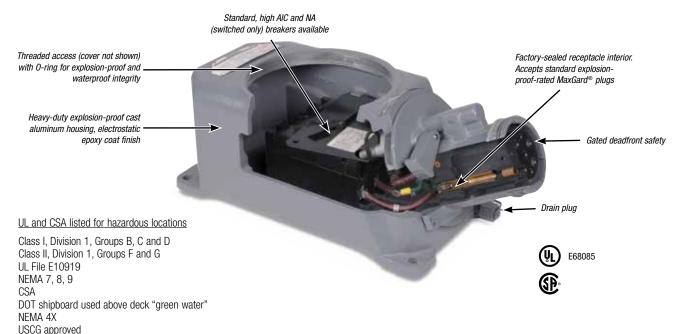


800.816.7809 Fax: 901.252.1354

MaxGard® DBRE and DSRE Series Interlocks are the only devices certified both explosion-proof and waterproof, along with optional control contacts, and are fully UL® Listed.

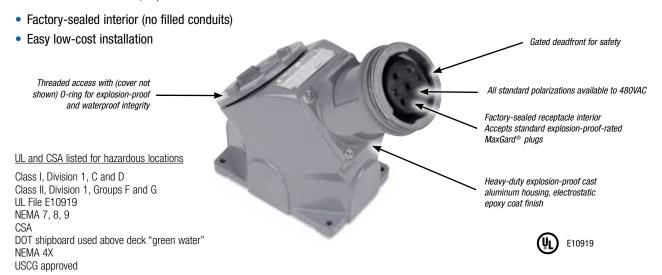
Explosion-Proof Waterproof Circuit Breaker Interlocked Receptacle

Available in 30-, 60- and 100-amp sizes, all polarizations. Division 1, Class I and II.



Explosion-Proof Non-Interlocked Receptacle

Available in 30A 480VAC max., all polarizations







Russellstoll°

MaxGard® Interconnection Systems

Maximum 600VAC or 250VDC



Explosion-Proof Interlocked Receptacle with Circuit Breaker Class I, Class II



Explosion-Proof Receptacle, Class I, Class II



Male Plug

| | POLES/ Wires | VOLTAGE (VAC) | CAT. NO. | CAT. NO. | CAT. NO. | STD. BUSHING I.D.* |
|--------|-----------------|------------------|------------------------|---------------------|----------------------|-----------------------------------|
| 30 Amp | | | • | • | • | |
| | 2P3W | 125 | DBRE310703000 | DSE3107FR0 | DS3107MP000 | 7/8" |
| | 2P3W | 250 | DBRE3 207 03000 | DSE3 207 FR0 | DS3 207 MP000 | 7/8" |
| | 3P4W | 3Ø250 | DBRE3 307 03000 | DSE3 307 FR0 | DS3 307 MP000 | 1" |
| | 3P4W | 3Ø480 | DBRE340403000 | DSE3404FR0 | DS3404MP000 | 1" |
| | 4P5W | 277/480 | DBRE3 504 03000 | DSE3 504 FR0 | DS3 504 MP000 | 1 ³ / ₁₆ " |
| 60 Amp | | | | | | |
| | 2P3W | 250 | DBRE6 207 06000 | _ | DS6 207 MP000 | 1¾16" |
| | 3P4W | 3Ø250 | DBRE630706000 | _ | DS6307MP000 | 15/16" |
| | 3P4W | 3Ø480 | DBRE640406000 | _ | DS6404MP000 | 15/16" |
| | 4P5W | 277/480 | DBRE6 504 06000 | _ | DS6 504 MP000 | 1½" |
| 00 Amp | | | | | | |
| | 2P3W | 250 | DBRE1 207 10000 | _ | DS1207MP000 | 111/16" |
| | 3P4W | 3Ø250 | DBRE130710000 | _ | DS1307MP000 | 1 ¹³ ⁄16" |
| | 3P4W | 3Ø480 | DBRE140410000 | _ | DS1404MP000 | 1 ¹³ / ₁₆ " |
| | 4P5W | 277/480 | DBRE1 504 10000 | _ | DS1504MP000 | 2" |
| | | | | | | |

Boldface figures are for voltage assignment; for different ratings, see page 40.

Note: For additional full line and polarization options, see page 40.

▼ Control Contacts (position 12) use "K" example: DBRE6404060K0

 $\textbf{Shunt Trip Breaker} \ (\text{position 13}) \ \text{add "Z" to above: DBRE6404060KZ}$

Breaker Trip Ratings (positions 9, 10, 11) 30 amp use 030; 60 amp use 060; alternate trip ratings are available — consult Technical Services

Non-Auto Sw. NA0 (repl. "DBRE" with "DSRE")



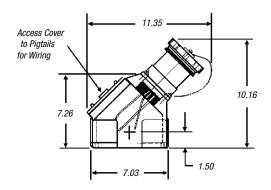
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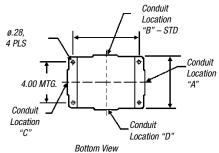


^{*} For additional bushing sizes, accessories and specification information, see pages 34–39.

Dimensions

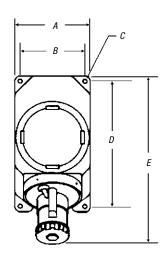
Explosion-Proof Receptacle





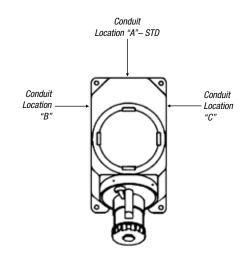
(possible conduit sizing are: 0.750-14 NPT, 1.00-11.5 NPT, 1.25-11.5 NPT with 1.00-11.5 NPT at location "B" as standard)

Explosion-Proof Interlocked Receptacle



| AMP | Α | В | C | D | E |
|-----|-------|-------|------|------|-----|
| 30 | 83/4" | 7½" | 1/2" | 14¾" | 20" |
| 60 | 83/4" | 7½" | 1/2" | 14¾" | 20" |
| 100 | 83/4" | 71/2" | 1/2" | 14¾" | 20" |

Conduit Sizing



| AMP | STANDARD |
|-----|----------|
| 30 | 1.25" |
| 60 | 1.50" |
| 100 | 2.00" |

Note: Range is 0.750-14 NPT through 2.00-11.5 NPT.

GSUL Safe Ground Indicator System

Prevents operation of pumps without a safe ground for static dissipation.

Class I, Division 1, Groups C, D, and Zone 1, Groups IIB, IIA; NEMA 7 Class II, Division 1, Groups E, F, G; NEMA 9

Instant Visual Confirmation of Safe Ground

The Russellstoll® GSUL Safe Ground Indicator System is designed to ensure that a safe ground has been established for dissipating everpresent static electricity from tank vehicles, carriers, drums and other conductive equipment before allowing the transfer of flammable materials. The GSUL indicates the establishment of a safe ground via two parallel-connected green signal lights. Two lights are used for redundancy — if one lamp burns out, visual indication of safe grounding will be maintained by the other.

Intrinsically Safe Circuitry

The GSUL Safe Ground Indicator System features an intrinsically safe, low-energy ground-sensing circuit, which does not carry sufficient electrical energy to cause ignition in classified Hazardous Locations.

In operation, the ground-sensing circuit extends through the grounding clamp and its connection to the ground indicator, the metal portion of the vehicle between the jaw terminals of the clamp and earth ground electrode.

Pumps Won't Operate Until Safe Ground Is Established

A control relay in the GSUL Safe Ground Indicator System provides interlocked control of pump motors at the loading platform. The electronic control circuit will be de-energized while the green lights are off. Attaching the clamps to the tank closes the interlocking contact and energizes the control circuits to the motors.



Applications

Volatile or classified areas such as:

- Tank farms
- Petrochem
- Cosmetics
- Grain mills
- · Vehicular or rail transport

...... Specifications

Enclosure: Cast copper-free aluminum with epoxy powder-coated finish

Outlets: Regularly furnished tapped 3/4" NPT

Relay Contacts: Rated 1/3 HP, 10A, 120VAC; 1/2 HP, 10A, 240VAC

Certifications: UL® Listed, CSA Certified



E33553





Unit shown with covers removed



United States

Tel: 901.252.8000 800.816.7809 Fax: 901.252.1354 **Technical Services** Tel: 888.862.3289



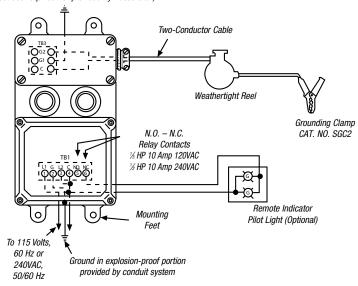
GSUL Safe Ground Indicator System

GSUL Safe Operating Features

- · Two redundant, parallel green indicator lights glow when safe ground is established
- Lamps offer approximately 20,000 hours of operating life
- Unit may be ordered without lights where remote visual indication is desired
- Intrinsically safe, simplified circuitry
- · Integral, intrinsically safe wiring compartment with approved strain-relief fitting for connection of cable from grounding clamp
- Solid-state actuating and control circuits mounted on removable printed circuit board
- Enclosure protects components against moisture
- Control relay provided for interlocked control of pump motor at loading rack
- Grounding clamp (ordered separately) provides dual isolated tip contacts in a heavy-duty cast-aluminum handle design

Wiring Diagram

Ground Electrode Connection (1 electrode required not provided by Russellstoll)





Aerospace/Industrial Static Ground Devices

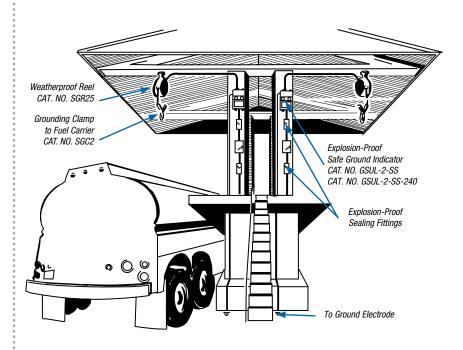
Static grounding receptacles are used in airport and aerospace installations worldwide during fueling, testing and maintenance procedures. Normal mounting is concrete/tarmac floor inset, threaded onto copper ground rod.

Heavy brass construction cup includes optional cover and receptacle's contact pin. Accommodates a wide variety of single-contact (copper on steel wire) static ground wire clamps in service.

| CAT. NO. | DESCRIPTION |
|----------|---------------------------|
| GCC1 | Ground cup with cover* |
| GC1 | Ground cup without cover* |
| F06146 | Replacement contact tip** |

^{*} Hub is tapped for 3/4"-10.

Typical Installation



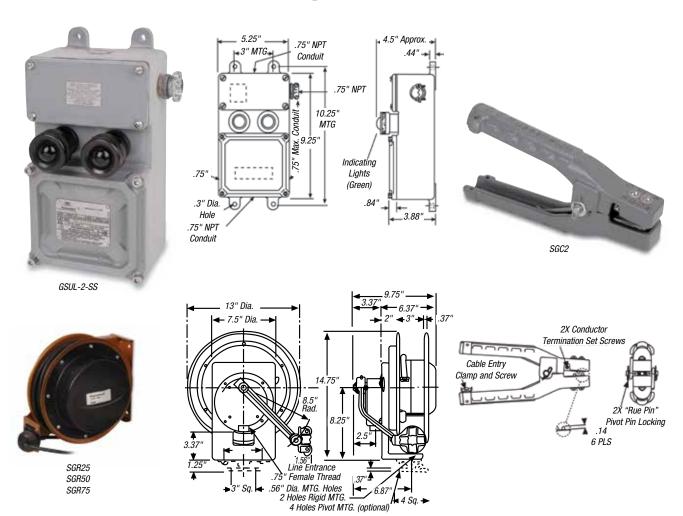
Loading rack illustration suggests a typical installation, which includes an Explosion-Proof Switch, Explosion-Proof Sealing Fittings, Weathertight Reel and the GSUL-2-SS Safe Ground indicator with 2-wire grounding clamp.





^{**} Hub is tapped for 1/2"-13.

GSUL Safe Ground Indicator System



| CAT. NO. |
|---|
| |
| GSUL2SS |
| GSUL2SS-240 |
| SGC2 |
| SGR25 |
| SGR50 |
| SGR75 |
| Replacement Parts for GSUL |
| C13662 |
| GX24RCB |
| F30674 |
| F30602 |
| ELAG |
| 310993 |
| Replacement Parts for SGC2 |
| GX2TK |
| \$GR75 Replacement Parts for GSUL C13662 GX24RCB F30674 F30602 ELAG 310993 Replacement Parts for SGC2 |



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