

# Russellstoll®

## MaxGard® Interconnection Systems

30-400/600 Amp, (30-200A Load Breaking) Maximum 600 VAC/250 VDC

Receptacles, Inlets, Plugs, Connectors, Interlocked Receptacles, Explosion Proof Interlocked Receptacles

### Benefits

Russellstoll® builds a variety of benefits into one plug, receptacle and interlock system for your application.

### Safety

- **Waterproof construction:** standard neoprene "O" ringed interior components provide environmental separation at the front of each device; they don't have to be connected together just to be called "watertight."
- **Different power supply ratings can't mix:** 24 single rated device polarizations ensure exact voltage, frequency and phase differentiation plus a few specials too. In every current range.
- **Plugs stay in:** Standard delayed action pull & turn withdrawal offers all plugs an XP rating (30– 100 amps). All system components use mating screw collars.
- **Foreign objects stay out:** All receptacles and connectors have a gated rotating disk on the face of the interior, engaged on insertion.

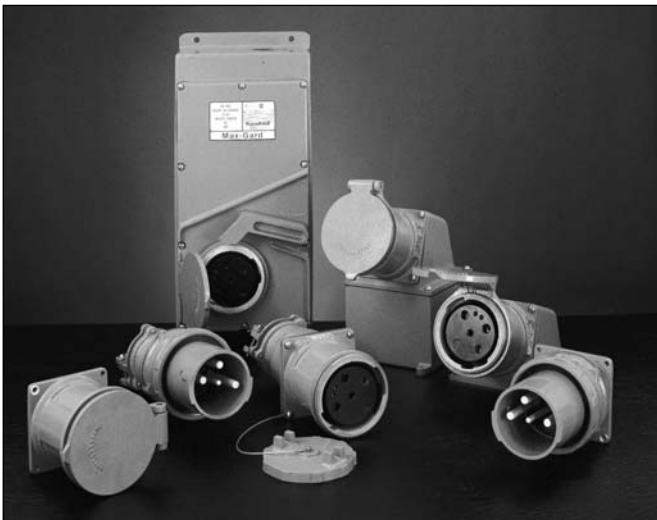
The MaxGard system. **MAXimum Safety, Durability and Performance** in electrical interconnections.

### Durability

- **At last – Durability:** Rugged cast aluminum housings with 2 layers of electrostatic epoxy coating are standard, along with stainless steel hardware. Available with flap or screw covers. Interiors are molded from a tough reinforced UL94 VØ thermoset polyester.
- **The best connections for life:** Pins and Sleeves are made from CDA 360 and Marine grade CDA 485 brass; 200 and 400 amp lines are silver-plated as well.
- **The most power available in the most packages:** 30, 60, 100, 200 and 400 amp lines in one system with cast aluminum NEMA 4X interlocks, steel 30, 60 and 100 amp NEMA 12 interlocks, or cast aluminum XP interlocks in 30, 60 and 100 amp ranges.

### Performance

- **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. This applies to all of our plugs, connectors, receptacles, male inlets and inter-lock systems.
- **More control available:** Two optional pilot/control pins for contactors, load monitor circuits, shunt trip or any other communication functions you need.
- **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 Power:** 150% non-UL ratings allow extending MaxGard installations to 600 AMP custom loads, with separate disconnect service.



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## Plug and Receptacle with Angle Adapter and Junction Box

Electrostatic epoxy powder coat finish for maximum corrosion resistance.

CDA 485 Marine grade brass pins and sleeves.

Neoprene "O" rings on pins, sleeves and interiors provide environmental separation and true waterproof integrity.

Acme threads prevent "freezing" of screw collars and covers.

Padlock-out access hole in plug shroud provided as standard safety feature.

Compression-type gland bushing for optimal cable seal.

Center Ground Contacts:  
Make First, Break Last

Optional Control/Pilot Contacts:  
Make Last, Break First

Extra thick-wall back boxes.

300 series stainless steel hardware for corrosion resistance (entire line).

Copper free cast aluminum housings.

Optional pilot contacts available for control or electrical interlocking.

Extra long current contacts with deep well arc containment.

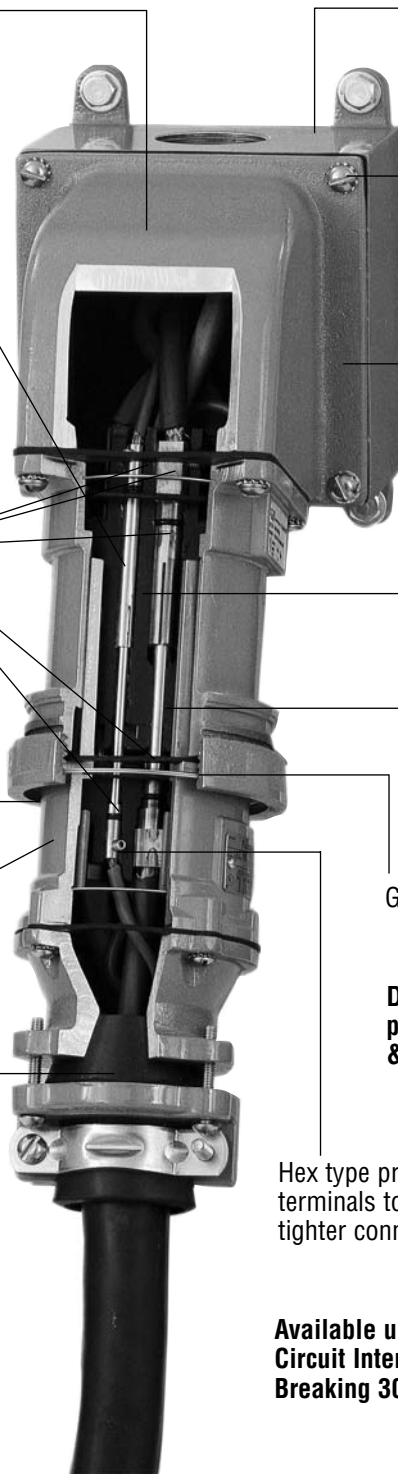
Gated dead front construction.

**Delayed insertion/removal keyways provide XP approval for standard 30, 60 & 100 amp plugs.**

Hex type pressure terminals to ensure tighter connections.

**Available up to 4P5W + pilot;  
Circuit Interrupting / Load  
Breaking 30 to 200 amps.**

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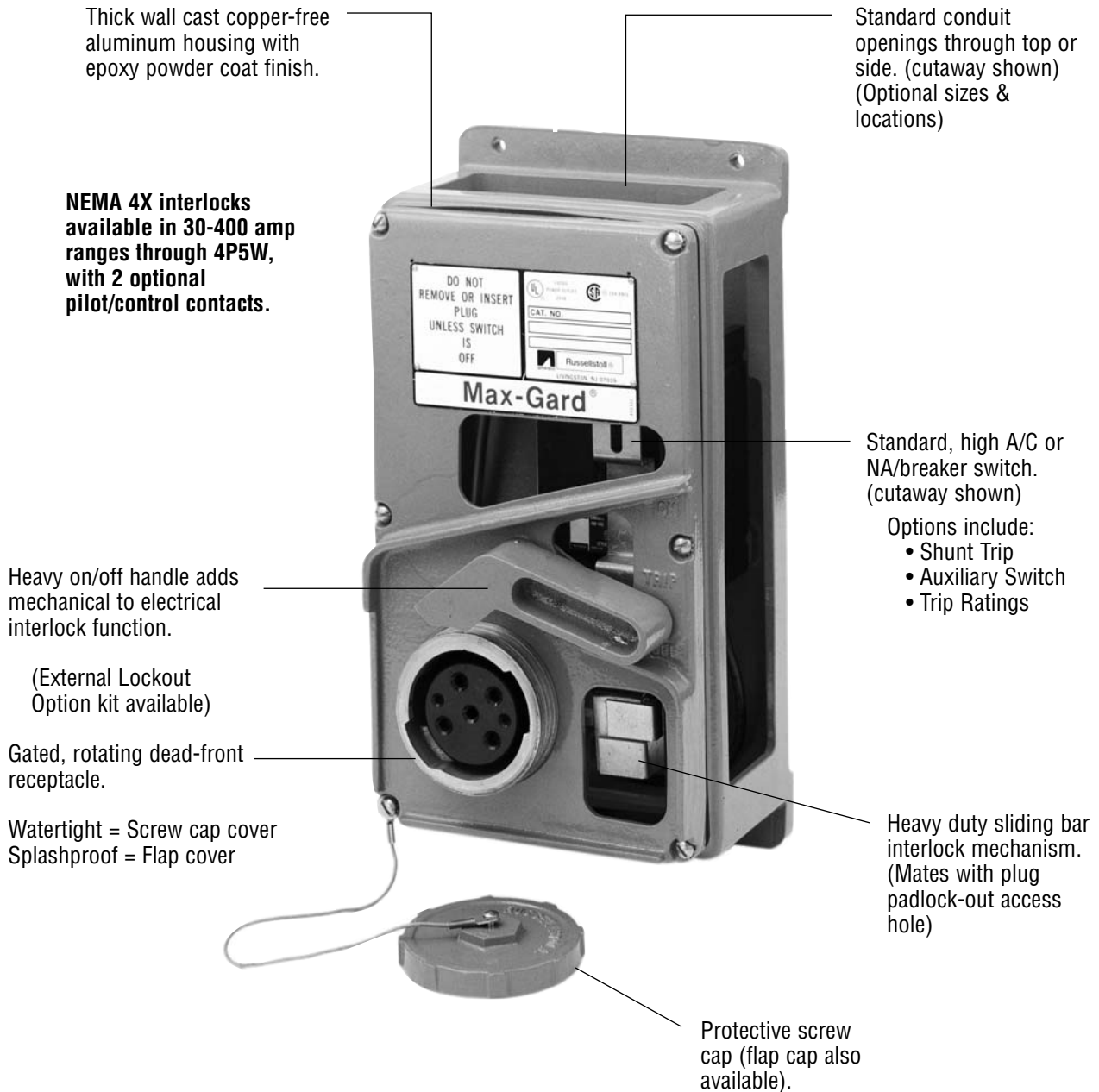


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## Cast Aluminum Circuit Breaker Interlocked Receptacle (Cutaway View)



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## Fused-Disconnect Switch\* Interlocked Receptacle

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

Standard 600V cartridge fuse clips and spacing.

Clear shield for test probes.

Safety fuse pulls.

Backup door safety latch.

Door safety switch.

Three external lockout points.

Heavy .060 steel galvaneel with baked enamel, NEMA 3R/12 construction.

Fully interlocked MaxGard receptacle.

Consult Technical Services for additional options.

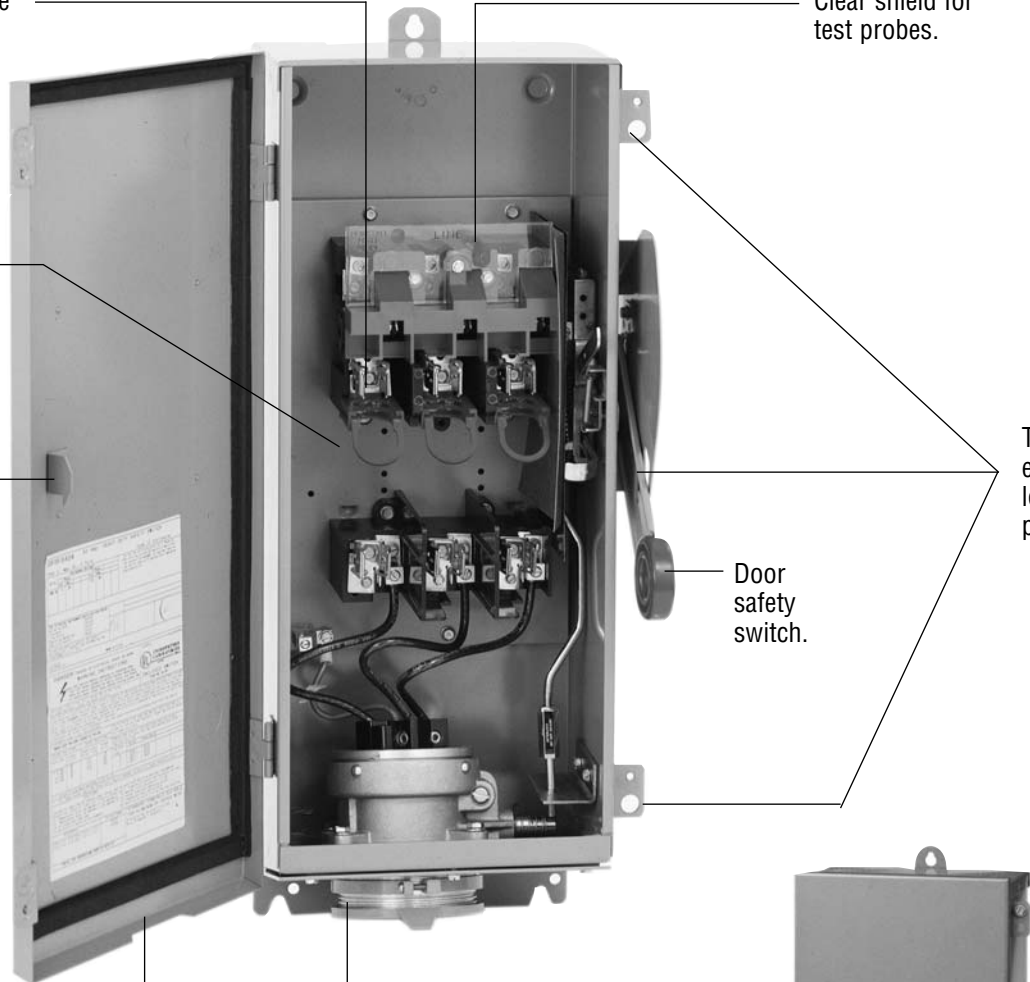
Meets Federal specification WS865C, UL File #E5239.  
Meets UL 98, 50, 1682, 508, 231  
Meets NEC Table 373-6(b).  
Meets major automotive specs.

\* Also available as switch-only

Angled front receptacle for easier access.



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**Thomas & Betts**

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## Explosion-Proof Waterproof Circuit Breaker Interlocked Receptacle

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

Heavy duty XP cast aluminum housing, electrostatic epoxy coat finish.

Standard, high AIC and NA (switched only) breakers available.

Threaded access (cover not shown) with "O" ring for XP and waterproof integrity.

Gated dead-front safety.

Drain Plug.

Factory sealed receptacle interior. Accepts standard XP rated MaxGard plugs.

UL and CSA listed for hazardous locations.

Class I, Division 1, Groups B, C and D

Class II, Division 1, Groups F and G

UL File E10919

NEMA 7, 8, 9

CSA

D.O.T. shipboard used above deck "green water"

NEMA 4X

USCG approved.

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

## Explosion-Proof Waterproof Non-Interlocked Receptacle

Available in 30A 480VAC max., all polarizations.

Heavy duty XP cast aluminum housing, electrostatic epoxy coat finish.

Threaded access with (cover not shown) "O" ring for XP and waterproof integrity.

Gated dead-front for safety.

All standard polarizations available to 480VAC.

Factory sealed receptacle interior. Accepts standard XP rated MaxGard plugs.

- **Factory Sealed Interior (no filled conduits).**
- **Easy low cost installation.**

UL and CSA listed for hazardous locations.

Class I, Division 1, C and D

Class II, Division 1, Groups F and G

UL File E10919

NEMA 7, 8, 9

CSA

D.O.T. shipboard used above deck "green water"

NEMA 4X

USCG approved.

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