



CHESS
CONTROLS

UL & CSA Switch-Rated Plugs and Receptacles

 **MELTRIC**

SAFETY ISSUES

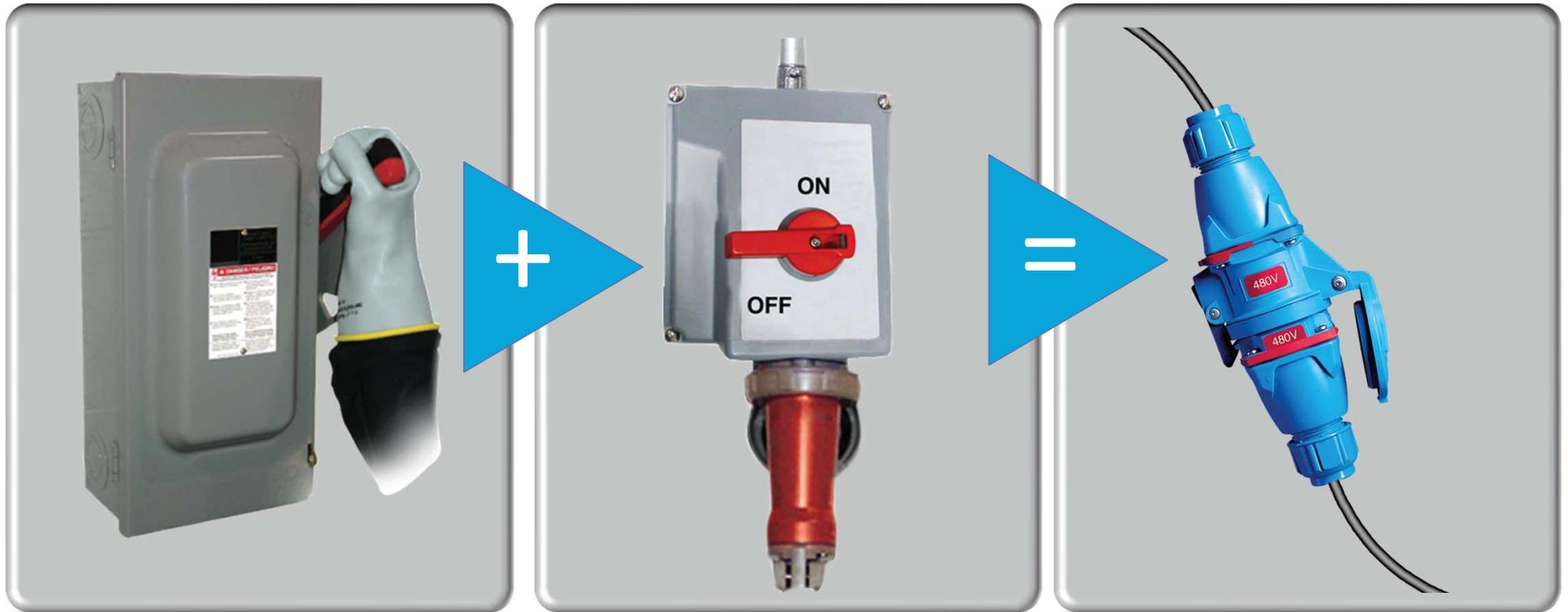
with standard plugs & receptacles

- Disconnection of plug while energized could result in an arc flash event
- Potential for exposure of live conductors when the plug is removed from the receptacle
- Connection while energized may weld contacts together damaging plug and receptacle
- Mechanical interlocking may fail resulting in an energized plug and receptacle
- Verification of zero energy requires testing of disconnect switch



The safety of the switch

with the convenience of a plug & receptacle



**Switch-rated
Meltric devices
are CSA
approved
Branch & Motor
Circuit
disconnects**



Key UL/CSA Performance Tests

- **Electrical Overload** - 50 operations @ 150% of rated current & voltage, p.f. <.8
- **Electrical Endurance** – 6,000 operations at rated current & voltage, p.f. <.8
- **HP Locked Rotor Overload** - 50 operations @ 600% of max motor FLA, p.f. <.5
- **Short Circuit Closing & Withstand** – HP rated: 100kA, 600V, p.f. <.15, RKI fuses @ > 400% max FLA
Other: 65kA, 600V, p.f. .15, RK5 td fuses @ > 100% of rated A

Switch-Rated Plugs and Receptacles

UL & CSA

Performance Approvals

Applicable UL Standards

UL Subject 2682
(switch rated plug
& receptacle)

- UL 1682
(plug & receptacle)
- UL 98
(enclosed switches)
- UL 508
(manual motor controller)

Applicable CSA Standards

CSA 22.2 No. 182.1
(plug & receptacle)

UL Subject 2682
(switch-rated plug
& receptacle)

Switch-Rated Plugs and Receptacles

Meltric

Decontactor™ Series



DSN **20-150A**

- Up to 75 hp
- Compact size
- Nema 4X
- IP69K
- Poly or Metal
- Up to 6 Aux



DS **20-200A**

- Up to 100 hp
- Larger size
- Nema 3R or 4X
- Poly or Metal
- Up to 6 Aux

Switch-Rated Plugs and Receptacles

The Difference Is In The Design



● Silver-nickel spring loaded contacts

● Quick-break operating mechanisms

● Dead-front safety shutter

● Spring assisted terminals

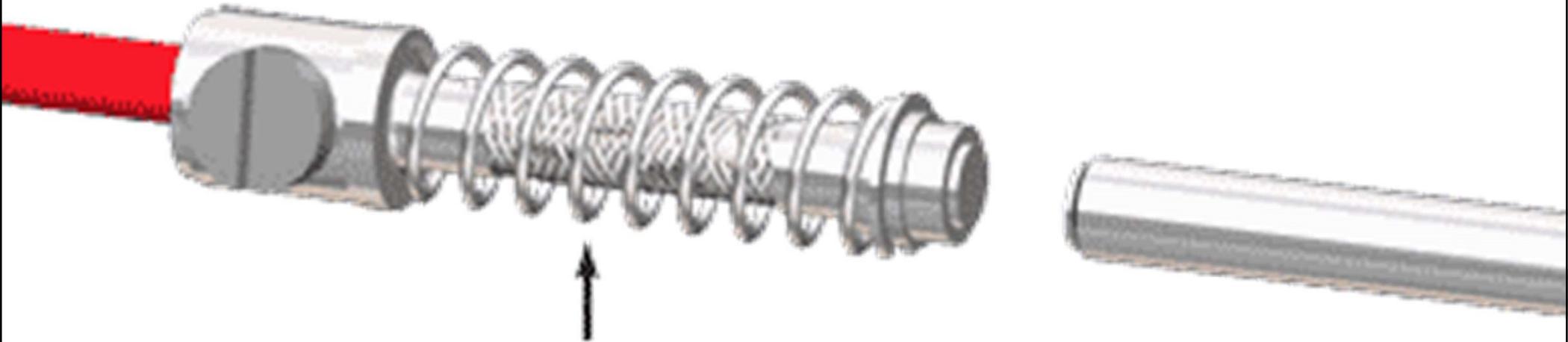
● Integral lockout provisions

● Optional auxiliary contacts

● Washdown rated type 4X

Switch-Rated Plugs and Receptacles

Silver-Nickel Contact Material



Flexible Metallic Braid

- 20X more conductive than brass
- Resists welding & wear
- Withstands arcing
- Better corrosion resistance

Switch-Rated Plugs and Receptacles

Safety Shutter On Receptacle

- Shutter automatically closes before the plug can be removed

- Eliminates unintended access to live parts and arc flash

- Shutter can only be opened by an electrically compatible plug



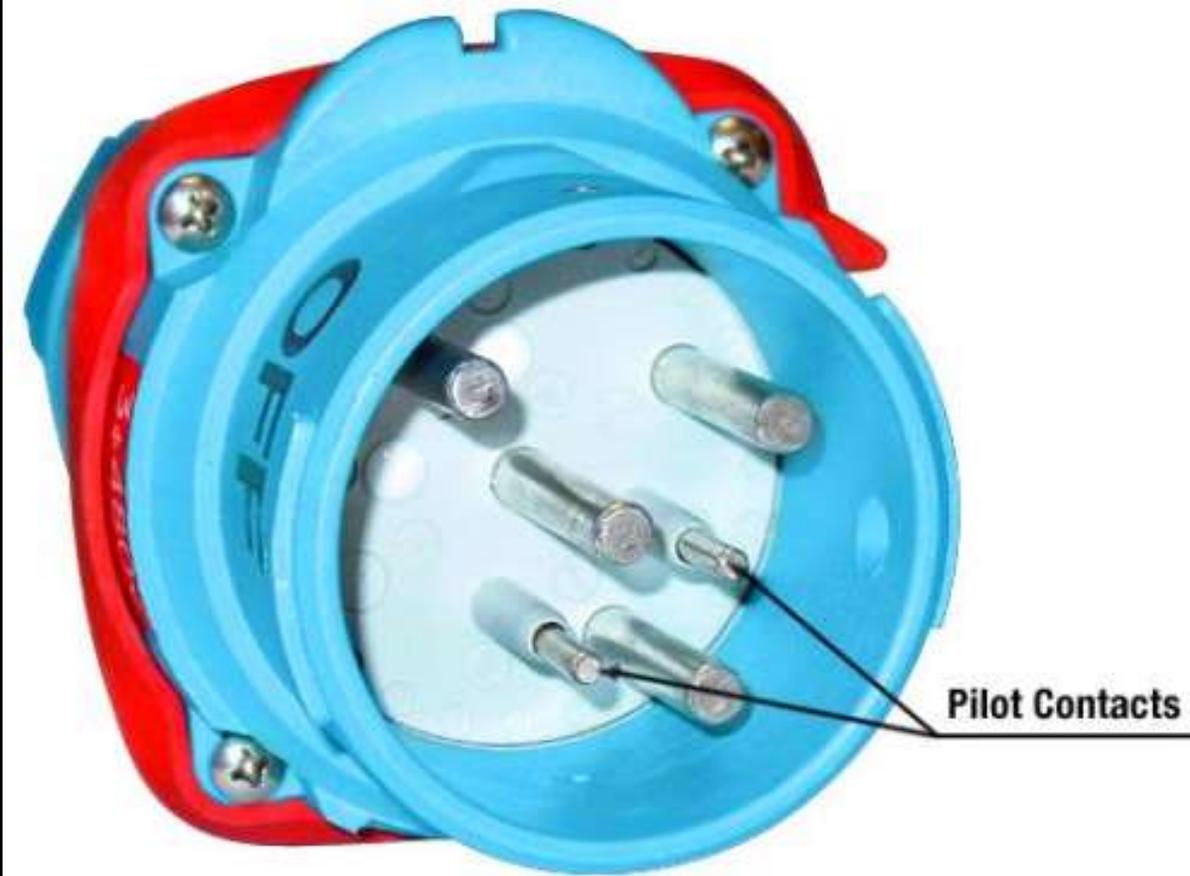
Switch-Rated Plugs and Receptacles

Easy Lockout-Tagout



Switch-Rated Plugs and Receptacles

Optional Auxiliary Contacts



- Provides a single connection for power and control circuits
- Up to 6 auxiliary contacts
- Make last, break first

Switch-Rated Plugs and Receptacles

Washdown & Watertight Rated



- **Type 3R/4X**
- **IP 66/67/69K**

Switch-Rated Plugs and Receptacles

Handles, Wall Boxes and Mounting Angles



Switch-Rated Plugs and Receptacles

Adapters Plates

Make Retrofits Easy



**Meltric offers many
standard plates &
custom designs**

Switch-Rated Plugs and Receptacles

Simplify Compliance with CSA Z462



- Make and break connections without exposure to live parts or arc flash
- Removal of the plug provides visual verification of de-energization, without voltage testing
- Integral provisions make LOTO easy
- Cumbersome PPE is not required!

Switch-Rated Plugs and Receptacles

Numerous Mounting Configurations



Switch-Rated Plugs and Receptacles



Other Meltric Products

Hazardous Duty

- CSA Class I Zone 1
Class II, Div 2, Class I Div 2,
Class 1 Zone 2
- ATEX Zone 1 - II G/D Ex
IIC T6
- Available in 20A to 250A,
- Optional Auxiliary
contacts on 30A
and larger units
- Light, but robust
polymeric casing



Multi-Pin Devices

- Silver-Nickel Butt Contacts
- From 7 to 37 contacts
- 2A to 50A
- Polyester,
Aluminum &
SS housings



CHESS
C O N T R O L S

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