Rugged and Reliable Power Connections for the Mining, Aggregate and Concrete Industries

Featuring:
Switch-Rated Plugs and Receptacles with DECONTACTOR™ Technology

Switch-Rated
High Amp
Multipin

meltric.com
MELTRIC’s Switch-Rated plugs and receptacles combine the safety and functionality of a switch with the convenience of a plug and receptacle. They help facilities ensure worker safety while also reducing equipment and labor costs. They are UL and CSA rated for motor circuit and branch circuit disconnect switching and meet code requirements for ‘line of sight’ disconnects. Switch-rated plugs and receptacles eliminate the need for expensive auxiliary disconnects and enable plug and play equipment changeouts.

DECONTACTOR™ Technology

- OFF Button
  Press to deenergize. Provides push button circuit disconnection.
- Dead Front Safety Shutter
  Assures safety by preventing user access to live parts.
- Lid
  Provides 4X watertightness for additional protection in harsh environments.
- Spring Assisted Screw Terminals
  Patented design assures “Tighten and Forget” confidence.
- Spring-Loaded Butt-Style Contacts
  Ensures optimal contact force and superior electrical performance over thousands of operations.
- Casing
  Fiberglass reinforced thermoplastic polyester material offers great resistance to impact, corrosion and harsh environmental conditions.

Silver-Nickel Contact Material
Solid silver-nickel contact surfaces provide superior conductivity, durability and corrosion resistance.

Lockout-Tagout Provisions
Allows plug to be easily locked out and tagged. Optional Padlock Pawl allows lockout/tagout of the receptacle.

DECONTACTOR™ Technology

- Allow easy NEC, NFPA 70E and CSA Z462 code compliance
- Functions as a ‘line of sight’ disconnect switch
- Safely makes and breaks resistive or inductive loads

DSN 20-150A (Up to 75 hp)
- Compact, lightweight design
- Type 4X, IP66/IP67
- Up to 6 auxiliary contacts
- Polyester or metal casings
- 100kA short circuit rated*

DS 20-200A (Up to 100 hp)
- Rugged construction
- Type 3R (4X optional)
- Up to 6 auxiliary contacts
- Polyester or Metal casings
- Short circuit rated up to 100kA

* Testing was performed with RK1 current limiting fuses sized at 400% of the highest full load motor ampacity associated with the devices hp ratings. Visit meltric.com to confirm ratings.

Common Product Accessories

- **Handles**
  - Poly Handle
  - PH Handle
  - Finger Draw Plates

- **Angles and Boxes**
  - Metal Junction Box
  - 30° Metal Angle
  - 70° Metal Angle

- **Pawls**
  - Padlockable Pawl

- **Adapter Plates**
**Power Distribution**

**Reliable Connections for Harsh Environments**

200A DS200’s and other DS models facilitate power distribution to processing equipment. An easy closing mechanism on the receptacle simplifies plug insertion. The device’s butt-style contacts close with a self-cleaning action that performs well in dirty environments.

Spring-loaded, butt-style, silver-nickel contacts provide superior performance in harsh environments.

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**Pump Power Supply**

**Weatherproof Performance**

MELTRIC offers plugs and receptacles with ratings up to Type 4X or IP66/IP67. In this example, 200A Type 3R rated DS Series devices connect power to a float pump via a direct mounting configuration. When required, the DS receptacle can be disconnected and relocated to another retention pond.

DS/DSN Series feature “automatic watertightness” as soon as the plug is latched to the receptacle.

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**Conveyor Connections**

**Safety and Convenience**

MELTRIC’s Switch-Rated plugs and receptacles provide a convenient ‘line of sight’ disconnect and allow non-electrical workers to safely make and break electrical connections under full load; up to 75 horsepower or up to 200A.

Switch-Rated receptacle - dead front prevents unintended exposure to live parts.

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**Motor Control Center Connections**

**Configuration Flexibility**

MELTRIC plugs and receptacles are available in a wide variety of configurations. Optional accessories are available that allow them to be used as in-line connectors or mounted on walls, boxes, panels or equipment. In-line connections are preferred at this quarry to solve a mounting space problem.

MELTRIC Switch-Rated plugs and receptacles provide an “in-line” switch when used as extension cords.
Process Equipment Connections
Routine Disconnection Capability

DS60 equipped power cables provide a safe and convenient means of routinely making and breaking power supply connections, as required, while this concrete floor panel forming machine moves along the production line.

Enclosed arc chambers protect workers by keeping arcs safely contained.

High Hp Motor Connections
High Amperage Capacity

MELTRIC’s PF Series plugs and receptacles are specifically engineered for use in high amperage applications and are rated for loads up to 600A. In this example, power to a 500 horsepower crusher motor is supplied by the parallel phasing of two 400A PF plugs and receptacles.

A mechanical locking system ensures safety and watertightness.

Power Supply to Heavy Duty Machinery
Durable Construction

Most MELTRIC plugs and receptacles are available in either durable poly or rugged metal casings. Common options include lockable pawls (to lock the receptacle), mushroom pawls (for easy disconnection), and up to 6 auxiliary contacts (to control or monitor equipment).

Auxiliary contacts are available for operating secondary control circuits or for electrical interlocking with motor starters.

Control Wire Connections
Mobility Without Rewiring Errors

Meltric’s Multipin plugs, receptacles and connectors are ideal for equipment requiring multiple control wire connections. Plant operators can easily control equipment while working in a remote location. Remote motor control centers can be relocated and reconnected with plug and play simplicity, eliminating the re-wiring errors.

Multipin plugs and connectors are available with up to 37 contacts.
The **DR400** Series (up to 400A, 480V or 350A, 600V) features a safety shutter that protects from live parts and an easy closing mechanism that mates the plug to the receptacle with relative ease. The **PF/PFQ** Series (up to 600A, 600V) utilizes silver pressure contacts that maximize performance in dirty environments. A mechanical locking system ensures safety and watertightness.

**High Amperage Connections**

**Single Pole**

**CS1000** and **SP** Series single pole devices are designed to maximize safety, performance and durability. Both product lines feature IP2X finger protection that protects users from live parts and mechanical keying systems to prevent insertion of wrong phases. **CS1000**’s feature a locking pin that prevents accidental connection or disconnection under load while **SP** devices are equipped with pilot contacts for the same purpose.

**Multipin Connections**

**MELTRIC** offers a broad range of multipin devices for use in a wide variety of control and power applications. All of MELTRIC’ s multipin devices feature spring-loaded, silver-nickel, butt-style contacts for maximum conductivity and durability. Models are available with as many as 37 or as few as 4 contacts. Products range from 2A up to 50A and some include load making and breaking capabilities. **DN9c** and **DN20c** devices are horsepower rated and allow multiple power circuits in a single connection.
Benefit from MELTRIC Plugs, Receptacles and Electrical Connectors Throughout your Plant

**Generators**
600A PF Series connectors supply power from generators to motor control centers.

**Motor Control Centers**
Switch-Rated plugs and receptacles, single pole connectors and multipin devices provide power and control circuits to all plant equipment.

**Stackers/Pilers**
DR400 Series plugs and receptacles offer safe, durable, easy-to-operate connections up to 400A.

**Conveyors**
DSN Series devices simplify reconfigurations of conveyors. Type 4X construction provides protection from water and dust.

**Screeners**
DSN Series Switch-Rated devices provide rugged, switch rated connections up to 75 hp.

**Crushers**
Parallel phasing with dual PF’s maximize capacity for high load applications.

**Feeders**
DR Series devices with amperage capacity up to 250A provide durable, safe connections for Feeders and other equipment.

**Power Distribution**
MELTRIC plugs and receptacles are ideal for power distribution. Custom panels are available.

**Float Pumps/Submersible Pumps**
DS Series inlets and connectors allow pumps to be easily disconnected and relocated to another pond/wall.

**Cutting Machines, Extruders and Other Forming Equipment**
MELTRIC Switch-Rated plugs and receptacles are safe to make and break under full load. They also provide a ‘line of sight’ disconnect and facilitate quick motor change-outs.