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’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.

- **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.

- **Dead Front Safety Shutter**
  - Assures safety by preventing user access to live parts.

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

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

**DECONTACTOR™ Technology Benefits**

- 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, IP69/IP69K
- Up to 6 auxiliary contacts
- Polyester or metal casings
- 100kA short circuit rated*
- 08IK 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
- 08IK rated

* 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.

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 100 horsepower or up to 200A.

Pump Power Supply
Weatherproof Performance
MELTRIC offers plugs and receptacles with ratings up to Type 4X or IP69/IP69K. 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.

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.

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

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

DS/DSN Series feature watertight operation when the plug is latched to the receptacle.

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.

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.

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).

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.

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

Auxiliary Contacts
Multipin plugs and connectors are available with up to 37 contacts.

Enclosed arc chambers protect workers by keeping arcs safely contained.

A mechanical locking system ensures safety and watertightness.

Watch Product & Application Videos:
MELTRIC.COM/VIDEO
More Meltric Products and Services for the Mining, Aggregates, and Concrete Industries

High Amperage Connections

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.

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.

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

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

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

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

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.

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

Screeners

Conveyors

Power Distribution

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