

# MELTRIC Motor Connection Guide

MELTRIC Switch-Rated plugs and receptacles provide reliable, long-lasting plug and play motor connections. Our Switch-Rated technology combines the safety of a switch with the convenience of a plug and receptacle in one device. A qualified technician can safely and easily change out a MELTRIC pre-wired motor, without waiting for an electrician, suiting up in PPE, or performing voltage testing. MELTRIC motor changeouts can reduce downtime by up to 50% saving both time and money. Our Switch-Rated devices are UL/CSA listed for branch and motor circuit disconnect switching, they meet NEC requirements as a 'line-of-sight' disconnect switch, and built-in Lockout/Tagout provision simplifies OSHA and NFPA 70E lockout/tagout requirements.

A variety of mounting configurations are available for convenient installation wherever you need an electrical connection. Common examples are shown below.

## TYPICAL MOUNTING Configurations

### DIRECT MOUNTED INLET



- 1 Female Connector
- 2 Threaded Handle
- 3 Flexible Conduit
- 4 Male Inlet Mounted on Motor

### WALL MOUNTED CONNECTION



- 1 Female Receptacle
- 2 Junction Box with 30° Angle
- 3 Male Plug and Poly Handle with Integral Cable Grommet

### OVERHEAD CORD CONNECTION



- 1 Plug and Connector with Wire Mesh Strain Relief

### HARD PIPED CONNECTION



- 1 Female Connector (shown disconnected)
- 2 Threaded Handle
- 3 Male Inlet
- 4 Liquid Tight Flexible Conduit

# PRODUCT FEATURES AND SPECS



## DECONTACTOR™ Technology

### 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.

### Lid

Provides Type 4X/IP69/IP6K watertightness for additional protection in harsh environments.

### OFF Button

Press to deenergize. Provides push-button circuit disconnection.

### Casing

Fiberglass reinforced thermoplastic polyester material offers great resistance to impact, corrosion, and harsh environmental conditions.

### 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.

### Dead-Front Safety Shutter

Assures safety by preventing user access to live parts.



## DSN 20-150A (Up to 75 hp)

- UL/CSA listed
- Compact, lightweight design
- Type 4X/IP69/IP6K
- Up to 6 auxiliary contacts
- Fiberglass reinforced Polyester casings (DSN150 - poly or metal)
- 100kA/10kA short-circuit rated<sup>+</sup>



## DS 20-200A (Up to 100 hp)\*

- UL/CSA listed
- Rugged construction
- Type 3R or 4X
- Up to 6 auxiliary contacts
- Fiberglass reinforced Polyester or Metal casings
- 100kA/65kA short-circuit ratings<sup>+</sup>

\*Visit [meltric.com](http://meltric.com) for full ratings information.

# PERFORMANCE TESTS PASSED

## Per UL Subject 2682 Switch-Rated Plugs and Receptacles

Electrical Endurance (with Load)	Overload - Locked Rotor (Horsepower Rated Devices)	Overload (General Use Devices)	Short-Circuit Make and Withstand	Voltage Withstand	Temperature Rise
6000 Operations @ Rated Current and Voltage (p.f. = .75 - .80)	50 Operations @ 600% of Full Load Motor Current (p.f. = .40 - .50)	250 Operations @ 150% of Rated Current (p.f. = .75 - .80)	≥10kA*, 600V and < .15 PF *Device ratings range from 10 kA to 100 kA.	3000 VAC for 1 minute	< 30°C

\* All MELTRIC Switch-Rated devices are UL listed with short circuit ratings of at least 65 kA achieved at 600 VAC and ≤ .15 power factor.

[meltric.com](http://meltric.com)

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