

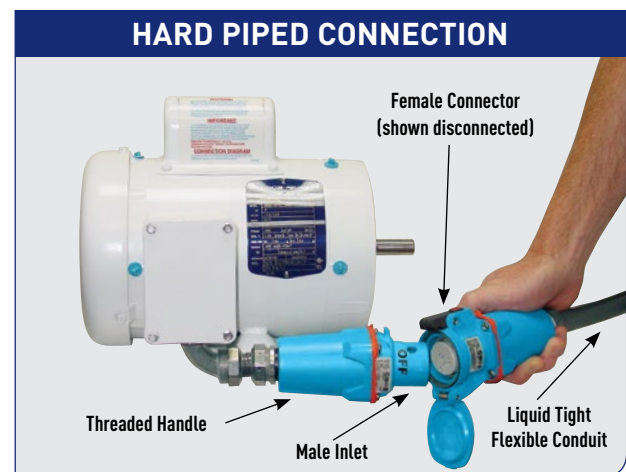
# MELTRIC

# MOTOR CONNECTION GUIDE

MELTRIC's Switch-Rated Motor Plugs are a combination plug & receptacle and disconnect switch in the same device. With their UL and CSA switch ratings, they provide users with a cost effective and convenient means of providing the code required 'line of sight' disconnect. They also help to significantly reduce motor change-out downtime by combining plug and play simplicity with the safety of a dead-front switch. Motors that are pre-wired with a plug or inlet can be connected simply by being plugged in and because there is no access to live parts, the need for NFPA 70E required arc-flash hazard analysis and associated PPE is eliminated.

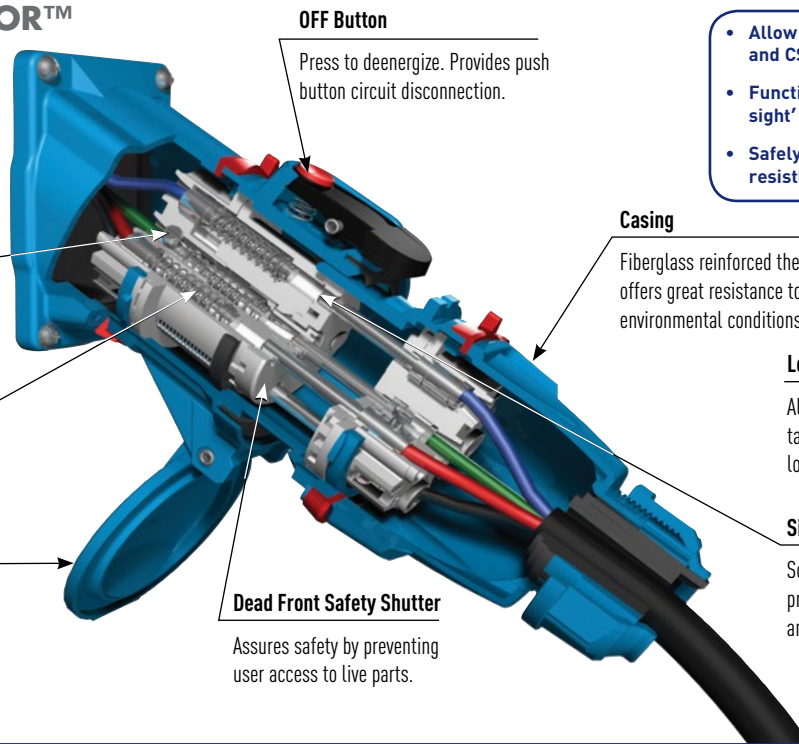
Switch-Rated plugs and receptacles from MELTRIC can be installed in a number of ways, making it easy to accommodate the requirements of the application and preferences of the user. Examples of common installation practices are shown below.

## TYPICAL MOUNTING CONFIGURATIONS



# 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 4X 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 20-200A (1/2 to 100 hp)\*



- Compact, lightweight design
- Type 4X, IP66/IP67
- Up to 6 auxiliary contacts
- Fiberglass reinforced Polyester casings
- 100kA short circuit rated

## DS 20-200A (3/4 to 50 hp)



- Rugged construction
- Type 3R (4X optional)
- Up to 6 auxiliary contacts
- Fiberglass reinforced Polyester or Metal casings
- ≥65kA short circuit rated

\* A new DSN200 model with 100 hp rating is expected to be launched in Q4 2017. Visit [meltric.com](http://meltric.com) or call customer service for details.

## PERFORMANCE TESTS PASSED

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

Electrical Endurance (With Load)	Overload - Locked Rotor (Horsepower Rated Devices)	Overload (General Use Devices) <sup>1</sup>	Short-Circuit Withstand	Short-Circuit Make	Voltage Withstand	Temperature Rise
6000 Cycles @ Rated Current & Voltage (p.f. = .75 - .80)	50 Operations @ 600% of Full Load Motor Current (p.f. = .40 - .50)	50 Operations @ 150% of Rated Current (p.f. = .75 - .80)	≥ 10 kA* (600V and ≤ .50 power factor)	≥ 10 kA* (600V and ≤ .50 power factor)	1000V + 200% of Device Rating	< 30°C

<sup>1</sup> DS100 and DS200 models

\* Minimum 65kA ratings were achieved by all DSN, DS and DB Series plugs and receptacles