

# MELTRIC Switch-Rated Plugs & Receptacles

for easier Pump Maintenance at Wastewater, Food & Beverage, Manufacturing and Other Industrial Facilities



### Plug and Play Simplicity:

MELTRIC Switch-Rated plugs and receptacles are designed for safety. They eliminate the hazards associated with pin and sleeve devices. Their unique features allow pumps, motors and other equipment to be safely connected with plug and play simplicity. When disconnected, MELTRIC devices provide positive visual verification that power is off.

### Simplify Pump Servicing

Ideal for pump connections up to 75 hp or 200 A. Using MELTRIC Switch-Rated plugs and receptacles to connect power to pumps instead of hardwiring can reduce downtime related to pump servicing by 50% or more.

### Ensure Arc Flash Protection

Prevents exposure to arc flash and live parts, simplifies NEC/CEC and NFPA 70E/CSA Z462 compliance.

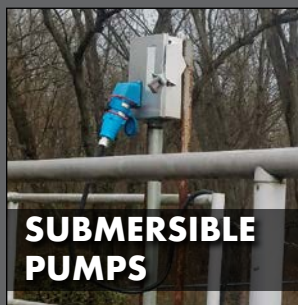
### Safely Make/Break Motor Connections

Rated to make and break motor loads safely while providing operators with significant protection in the event of overloads or short circuits. No waiting for an electrician to perform field wiring. No "suiting-up" or extraordinary electrical precautions.

### Motor and Branch Circuit Switching

MELTRIC Switch-Rated plugs and receptacles are UL and CSA rated for "motor circuit" and "branch circuit" disconnect switching and are an approved NEC/CEC 'line-of-sight' disconnect switch.

## Ideal for connecting power to . . .



### SUBMERSIBLE PUMPS

To simplify pump maintenance



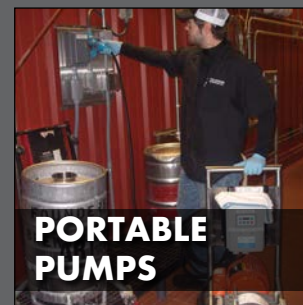
### MULTIPLE PUMPS

Convenient, cord drop or wall-mounted connections



### PASTEURIZER PUMPS

For easy motor changeouts  
Simplifies NFPA70E/CSA Z462 compliance



### PORTABLE PUMPS

For safe connect and disconnect

# APPLICATION NOTE

## Switch-rated Plugs & Receptacles:

### A COST SAVING ALTERNATIVE to Hardwiring Pump Motors, Electrical Equipment, and Control Wiring

#### Application Challenge

During the construction of a wastewater treatment plant, the submersible pumps for effluent water were hardwired. But shortly after operations began, one of the pumps had to be replaced. It took the maintenance crew about a day to replace the pump with most of the time devoted to disconnecting the pump and re-wiring a new one.

#### Connection Solution

To circumvent the time consuming and expensive process of unwiring/wiring the effluent water pumps, MELTRIC Switch-Rated plugs and receptacles were installed on all the pumps in order to prevent delays on future pump replacements. They allow the pumps to be connected and disconnected safely with plug-and-play simplicity. Now, the maintenance technicians can easily replace or service the pumps without needing an electrician or needing to don cumbersome PPE (personal protective equipment), as required by NFPA 70E.

Switch-Rated plugs and receptacles are ideal for connecting submersible pumps in both indoor and outdoor applications. Their spring-loaded, silver-nickel, butt-style contacts provide consistent and superior electrical performance over thousands of operations. In addition, they are resistant to wear, corrosion, oxidation and other factors that contribute to the premature failure of pin and sleeve devices.

All MELTRIC Switch-Rated plugs and receptacles have dead-front construction, enclosed arc chambers and a short circuit, 'make and withstand' rating of at least 65 kA. The dead-front prevents user access to live parts and the short circuit rating ensures safety during insertion, even under overload or locked rotor conditions.



Electrical connections to submersible pumps for effluent water. Using a DECONTACTOR™ instead of a hardwired connection improved pump maintenance efficiency.



MELTRIC also offers a variety of multi-contact plugs and connectors with up to 37 contacts for control and/or power circuits.

#### DECONTACTOR™ Technology

##### Spring Assisted Screw Terminals

Patented design ensures "Tighten and Forget" confidence.

##### Spring-Loaded Butt-Style Contacts

Ensures optimal contact force and superior electrical performance over thousands of operations.

##### Lid

Provides additional protection in harsh environments.

##### OFF Button

Press to de-energize. 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.

##### Dead-front Safety Shutter

Ensures safety by preventing user access to live parts.

##### Silver-Nickel Contact Material

Solid silver-nickel contact surfaces provide superior conductivity, durability and corrosion resistance.