

# 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 & receptacles are designed for safety. They eliminate the hazards associated with pin & sleeve devices. Their unique features allow pumps, motors and other equipment to be safely connected with with plug & 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 200A. Using MELTRIC Switch-Rated plugs & 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 & Branch Circuit Switching

MELTRIC Switch-rated plugs & 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 change-outs – 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 & 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 & 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 & sleeve devices.

All MELTRIC Switch-rated plugs & receptacles have dead front construction, enclosed arc chambers and a short circuit, "make and withstand" rating of at least 65kA. 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 Deconnector 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.

### Pushbutton Pawl/OFF Button

Ensures disconnection of load before plug can be removed. Optional Padlock Pawl allows locking of receptacle in a connected or disconnected state.

### Enclosed Arc Chambers

Prevent outside exposure to arc flash.

### Lid

Provides additional protection from harsh environments.

### Dead Front Safety Shutter

Prevents access to live parts. Only a compatible plug can be inserted.

### 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.