Other MELTRIC Products and Services for the Food & Beverage Industries

Multipin Plugs and Receptacles
Multipin products are commonly used in power and control applications. They are available with up to 37 contacts and have a total amp capacity ranging from 5 to 100 amps. DN9 and DN20 models are horsepower rated.

DXN Hazardous Duty Connectors
DXN’s are rated for Class 2 Division 2 environments such as grain silos. Suitable for loads up to 60A/20 hp, DXN’s provide a compact, waterproof solution for hazardous locations.

PN Connectors
PN devices are commonly used to connect low power resistive and inductive loads up to 30 amps. PN’s are excellent for portable equipment or for applications that require devices with smaller dimensions.

Stainless Steel Connectors
300 series stainless steel connectors are available for applications where extreme corrosion and physical abuse are anticipated. Some sizes of DS, DSN, PN and Multipin Series products are available.

Replacement Parts
The need to replace parts is rare. However, should they be required, parts are readily available and reasonably priced. Purchasing the individual parts costs no more than buying an assembled product.

Same Day Shipping
Due to our outstanding customer service capabilities and the modular design of our product, 90% of incoming orders are shipped by the next day. For a small fee, orders can be shipped the same day.

Five Year Warranty
The electrical contacts on MELTRIC products are warrant-ed for five years from date of shipment. The complete product is warranted for one year from the date of shipment. Contact MELTRIC for a full warranty statement.

Connecting with the Food and Beverage Industries
Featuring MELTRIC’s Switch-Rated Plugs, Receptacles and Electrical Connectors with DECONTACTOR™ Technology
MELTRIC Switch-Rated plugs and receptacles combine a plug, receptacle and disconnect switch in a single device. Using Switch-Rated devices to connect motors and other electrical equipment instead of hard-wiring can dramatically reduce equipment change-out related downtime. Due to their switch ratings, they allow users to safely and easily make and break electrical connections under full load, even in wet, and highly corrosive conditions. This eliminates the need for expensive interlocks and auxiliary disconnect switches. MELTRIC devices improve safety while saving users both time and money.

### Ideal Suited for the Food & Beverage Industries

MELTRIC Switch-Rated plugs and receptacles are built to withstand the harsh environments often found in the food industry. For example, MELTRIC’s silver-nickel contacts, stainless steel components, and chemical resistant housings help withstand corrosion caused by frequent washdowns with caustic cleaners. The butt-style pressure contacts ensure excellent electrical connections even in dusty or greasy environments. Other features, such as lockout tagout capability and optional integral pilot contacts, help make the operation of food and beverage plants safer and more efficient.

### Reduce Downtime

MELTRIC Switch-Rated plugs and receptacles reduce downtime related to electrical equipment change-outs. When they are used in lieu of hard-wiring, a mechanic can change out a motor safely and efficiently. A conveyor line or a process pump can be up and running in a matter of minutes instead of a matter of hours. Production halts are minimized and rewiring errors are virtually eliminated.

### Ensure Safety for Maintenance Personnel

The features of Switch-Rated devices include: dead front design, enclosed arc chambers, silver-nickel butt-style pressure contacts, and short circuit make-and-withstand ratings ≥ 65kA. These features ensure safety by preventing access to live parts, by providing a superior electrical connection that does not deteriorate with wear or oxidation, and by allowing users to safely make & break connections - even during wet or overload conditions.

### Provide Watertight, Durable Connections

MELTRIC devices provide safe, durable electrical connections - even in washdown environments. Rated watertightness up to Type 4X is achieved as soon as the plug mates with the receptacle (DS & DSN models). Their coil spring-loaded silver-nickel contacts offer superior electrical performance that does not deteriorate with wear or oxidation, unlike competitors’ brass pin & sleeve contacts.

### Simplify Code Compliance

Switch-rated devices provide food and beverage factories with a simple and cost-effective means of achieving code compliance. Their switch rating allows them to perform as the NEC required ‘line of sight’ disconnect so the need and expense of a separate disconnect switch is eliminated. They also help facilities comply to NFPA 70E or CSA Z462 requirements. Their dead front design prevents worker exposure to live parts. As a result, qualified mechanics can change out a motor without needing to wear cumbersome PPE.

### Allow Easy Production Line Reconfigurations

Switch-rated devices allow conveyor motors and other electrical equipment to be safely connected or disconnected with plug and play simplicity. Reconfigurations of production lines are simplified when MELTRIC devices are used to create a modular system. Time spent performing electrical work is minimized.

### Facilitate Quick Disconnection & Reconnection

MELTRIC Switch-Rated plugs and receptacles allow easy disconnection, even by operators who wear gloves. Simply press the latch to break the load and, if desired, lightly twist the plug to remove it. Alternatively, the plug can remain in the receptacle to keep it conveniently out of the way. By contrast, pin and sleeve or twist type connections require much greater force to remove the plug and once the plug is removed it often must be laid down on the floor, creating unnecessary clutter.
MELTRIC Switch-Rated Plugs, Receptacles and Electrical Connectors

MELTRIC Switch-Rated plugs and receptacles combine a plug, receptacle and disconnect switch in a single device. Using Switch-Rated devices to connect motors and other electrical equipment instead of hard-wiring can dramatically reduce equipment change-out related downtime. Due to their switch ratings, they allow users to safely and easily make and break electrical connections under full load, even in wet, and highly corrosive conditions. This eliminates the need for expensive interlocks and auxiliary disconnect switches. MELTRIC devices improve safety while saving users both time and money.

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Switch-Rated Plugs & Receptacles

DECONTACTOR™ Technology
- Allows easy NFPA 70E/CSA Z462 code compliance
- Functions as a “line of sight” disconnect switch
- Safety makes and breaks resistive or inductive loads
- Conductivity of their brass contacts are not affected by oxidation. By contrast, Spring loading ensures optimal contact force and superior electrical performance over thousands of operations.

Safely makes and breaks “Switch-Rated Plugs and Receptacles.” (to which competitive pin and sleeve devices are listed), as well as the performance test requirements in UL Subject 2682 switching applications.

These plugs & receptacles are UL and CSA listed for use in motor circuit disconnect/switching applications and in branch circuit disconnect/switching applications. Relevant requirements include:
- Articles 430.101 through 430.113 regulate motor disconnection means. They require motors to have readily accessible, Line of Sight disconnects that are either an approved switch or a properly rated plug and receptacle.
- A disconnecting means must be located in sight from the motor and driven equipment. The disconnecting means must be determined based on the sum of all resistive currents and the locked rotor current of the motor.
- The safe interruption of the load & opening of the disconnect means must be performed at least 115% of the full-load current rating of the motor. The harmonic distortion of the disconnecting means must be determined based on the sum of all resistive currents and the locked rotor current of the motor.
- The disconnecting means must be readily accessible.
- The disconnecting means must be determined based on the sum of all resistive currents and the locked rotor current of the motor.
- Only properly qualified persons shall be allowed to perform work near live parts or within the flash protection boundary.

SAFETY & CODE COMPLIANCE: MELTRIC vs Competition

MOTOR HARD-WIRED TO A BLADED DISCONNECT SWITCH
1. Switch disconnect to OFF position
2. Verify de-energized
3. Apply lockout/tagout
4. Perform shutdown/lockout tagout
5. Obtain permit for energized electrical work
6. Suit up with appropriate PPE
7. Obtain lockout/tagout permit
8. Block upstream disconnect
9. Ventilate area
10. Check switch for proper function
11. Tag or lock disconnect switch

MOTOR CONNECTED WITH A MELTRIC MOTOR PLUG & RECEPTACLE
1. Switch MELTRIC receptacle to OFF position
2. Mechanic removes plug from receptacle
3. Apply lockout/tagout as required
4. Mechanic removes old/installs new motor
5. Mechanic inserts plug into receptacle

MELTRIC MAKES IT SAFE & EASY
- 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.
- Silver-Nickel Contact Material
- Solder silver-coated contact surfaces provide superior conductivity, durability and corrosion resistance.

- Rated watertightness, up to Type 4X, is achieved as soon as the plug mates with the receptacle (DS & DSN). Competitive products require the user to remember to carefully tighten an additional plastic ring.
- The dead front design eliminates access to live parts. MELTRIC’s dead front design also helps avoid the need for cumbersome Personal Protective Equipment and thus allows faster and safer motor change-outs.

- Boot-Style Pressure Contacts
- Rated watertightness
- Dead Front Safety Shutter
- Assures safety by preventing user access to live parts.

- The conductivity of their brass contacts are not affected by oxidation. By contrast, Spring loading ensures optimal contact force and superior electrical performance over thousands of operations.

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- The dead front design eliminates access to live parts. MELTRIC’s dead front design also helps avoid the need for cumbersome Personal Protective Equipment and thus allows faster and safer motor change-outs.

- Tested to a Higher Standard
- MELTRIC Switch-Rated plugs and receptacles meet the performance test requirements for UL 1482/CSA C22.2 No. 182.1 (to which competitive pin and sleeve devices are listed), as well as the performance test requirements in UL Subject 2682 “Switch-Rated Plugs and Receptacles.” Based on their evaluation against this standard, MELTRIC Switch-Rated devices are UL and CSA listed for use in motor circuit disconnect/switching applications and in branch circuit disconnect/switching applications.

- Temperature Rise (not to exceed 30° C over ambient)
  - 50 operations @ 150% device rating and 7 – 8 power factor
  - 6,000 operations @ FLA 75 – 8 power factor
  - Short circuit make and withstand @ 65kA, 600V and < .15 PF

- Additional tests passed exclusively by MELTRIC Switch-Rated plugs & receptacles per UL Subject 2682.
  - 50 operations @ 6 motor FLA 4 – 5 power factor
  - 100 operations @ FLA 75 – 8 power factor
  - Short circuit make and withstand @ 65kA, 600V and < .15 PF

- Additional Listings include: IEC/EN 60899-1, 60947-2, AS 3123

CODE COMPLIANCE: What the Codes Require National Electrical Code

- Articles 430.101 through 430.113 regulate motor disconnection means. They require motors to have readily accessible, Line of Sight disconnects that are either an approved switch or a properly rated plug and receptacle.
- A disconnecting means must be located in sight from the motor and driven equipment. The disconnecting means must be determined based on the sum of all resistive currents and the locked rotor current of the motor.
- The safe interruption of the load & opening of the disconnect means must be performed at least 115% of the full-load current rating of the motor. The harmonic distortion of the disconnecting means must be determined based on the sum of all resistive currents and the locked rotor current of the motor.
- Only properly qualified persons shall be allowed to perform work near live parts or within the flash protection boundary.

- Power must be proven to be de-energized before performing work. This includes:
  - The safe isolation of the load & opening of the disconnect means
  - Visual verification/lioage testing to ensure deenergization

- The potential electrical hazard must be identified and documented.
- Flash hazard analysis must be performed
- Flash protection boundaries must be determined

- Appropriate steps must be taken to protect persons working near live parts or within the flash protection boundary.
- Personal Protective Equipment must be provided based on the relevant incident energy exposure levels (cal/cm²)

- Only properly qualified persons shall be allowed to perform work.

NFPA 70E/CSA Z462

This OSHA consensus standard covers electrical safety related work practices and procedures for employees who work on or near exposed energized electrical conductors or circuit parts. Relevant requirements include:
- Power must be proven to be de-energized before performing work. This includes:
  - The safe isolation of the load & opening of the disconnect means
  - Visual verification and leakage testing to ensure deenergization
- The potential electrical hazard must be identified and documented.
- Flash hazard analysis must be performed
- Flash protection boundaries must be determined
- Appropriate steps must be taken to protect persons working near live parts or within the flash protection boundary.
- Personal Protective Equipment must be provided based on the relevant incident energy exposure levels (cal/cm²)
- Only properly qualified persons shall be allowed to perform work.

See published NFPA 70E/CSA Z462 standard for complete safety requirements. By using MELTRIC’s Switch-Rated Plugs & Receptacles to connect equipment, users can simplify NFPA 70E requirements.
1. **Switch disconnect to OFF position**
2. **Mechanic removes plug from receptacle**
3. **Apply lockout/tagout as required**
4. **Mechanic removes old/installs new motor**
5. **Mechanic inserts plug into receptacle**

**MELTRIC Makes it Safe & Easy**

- **DECONTACTOR™ Technology**
  - Allows easy NFPA 70E/CSA Z462 code compliance
  - Functions as a “line of sight” disconnect switch
  - Safety makes and breaks resistive or inductive loads

- **Spring Assisted Screw Terminals**
  - Potentially design assures “tighten and forget” confidence

- **Spring-Loaded Butt-Style Contacts**
  - Ensures optimal contact force and superior electrical performance over thousands of operations.

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

**SAFETY & CODE COMPLIANCE: MELTRIC vs Competition**

**MOTOR HARD-WIRED TO A BLAided DISCONNECT SWITCH**

1. Connect new motor to hard-wiring
2. Voltage test to verify deenergization
3. Perform Shoc...test
4. Suit up with appropriate PPE
5. Switch disconnect to OFF position

**MOTOR CONNECTED WITH A MELTRIC MOTOR PLUG**

1. Switch MELTRIC receptacle to OFF position
2. Mechanic removes plug from receptacle
3. Apply lockout/tagout as required
4. Mechanic removes old/installs new motor
5. Mechanic inserts plug into receptacle

**MELTRIC Motor Plug...**

- **Cost connection allows easy “line of sight” location**
- **Dead front eliminates access to live parts and need for cumbersome PPE**
- **Ability to safely make & break under load eliminates the need for interlocks**
- **A Shock circuit male-and-welds Gundrilling ensures safety...renewing applications**

**MOTOR CHANGE-OUT PROCESS**

1. Open interlock switch
2. Determine PPE requirements & obtain approvals
3. Remove interlock cover
4. Weld deenergized before interlock test
5. Remove plug
6. Apply locked/tagged as required
7. Remove old/install new motor
8. Insert plug into receptacle

**CODE COMPLIANCE: What the Codes Require**

**National Electrical Code**

- Articles 430.101 through 430.113 regulate motor...disconnect means.
- They require motors to have readily accessible, Line of Sight disconnects that are either an approved switch or a properly rated plug and receptacle.

- **430.102** A disconnecting means must be located in sight from the motor and driven equipment.
- **430.107** The disconnecting means must be readily accessible.
- **430.109** The disconnecting means must be an approved switch or a horsepower rated plug & receptacle with ratings at least equivalent to the motor ratings.
- **430.110** The disconnecting means must have an amp rating at least 115% of the full-load current rating of the motor. The horsepower rating of the disconnecting means must be determined based on the sum of all...lock out the rated current of the motor.

**NFPA 70E/CSA Z462**

This OSHA consensus standard covers electrical safety related work practices and procedures for employees who work on or near exposed energized electrical conductors or circuit parts. Relevant requirements include:

- Power must be proven to be deenergized before performing work.
- The safety interleave of the load & opening of the disconnect means must be readily accessible.
- Visual verification using testing to ensure deenergization.
- The potential electrical hazard must be identified and documented.
- Flash hazard analysis must be performed.
- Appropriate steps must be taken to protect persons working near live parts or within the flash protection boundary.
- Personal Protective Equipment must be provided based on the relevant incident energy exposure levels (cal/cm²).
- Only properly qualified persons shall be allowed to perform work.

**See published NFPA 70E/CSA Z462 standard for complete safety requirements.**

By using MELTRIC’s Switch-Rated Plugs & Receptacles to connect equipment, users can simplify NFPA 70E requirements.
Conveyor Systems

MELTRIC Switch-Rated plugs and receptacles enable conveyor systems to be reconfigured quickly and allow motors to be replaced easily.

- Enable Modularity
  A mechanic can safely and easily make or break live electrical connections on conveyors. The conveyors can then be reconfigured quickly to meet flexible production needs.

- Allow Advanced Control
  Auxiliary/pilot contacts can operate secondary control circuits to send alarm signals or turn off equipment if reconfiguration on, or off, depending on system requirements.

Pumps and Mixers

Switch-Rated devices provide safe and quick motor connections, even in wet environments.

- Ensure Safety
  Workers can safely make and break electrical connections on motors up to 75 hp. Butt-style contact technology, enclosed arc chambers, dead front design, and short circuit make-and-withstand capabilities ensure user safety.

- Maximize Durability
  MELTRIC devices are built to withstand harsh and wet environments. The casings are shock resistant, the silver-nickel contacts are corrosion resistant, and the complete unit is watertight up to Type 4X (Standard on DSN, optional on DS).

Portable and Handheld Equipment

Switch-Rated devices allow safe and easy equipment disconnection, even by users who wear gloves.

- Inhibit Corrosion
  Silver-nickel contact materials and stainless steel metal parts provide exceptional resistance to corrosion in caustic washdown environments.

- Simplify Operation
  MELTRIC devices are safely and easily disconnected - even when gloves are worn. Simply press the release button (pawl) and then lightly rotate the plug for removal.

A mechanic can safely and easily make or break live electrical connections on conveyors. The conveyors can then be reconfigured quickly to meet flexible production needs.

Production Line Equipment

MELTRIC Switch-Rated plugs and receptacles facilitate the quick reconfiguration of production line equipment.

- Minimize Design Hassles and Installation Costs
  Switch-Rated devices eliminate the need for mechanical interlocks and auxiliary disconnects, saving design and installation time.

- Reduce Downtime
  A mechanic can disconnect the power, relocate or service equipment, and reconnect power in minutes. There is no hard-wiring required, even for equipment with controls.

Monitor Key Operational Parameters

MELTRIC Switch-Rated and Multipin connectors allow quick, error-free control wire connections.

- Simplify Control Wiring and Maintenance
  MELTRIC devices with optional pilot contacts are ideal for controlling auxiliary equipment or monitoring key operational parameters. For more complex control schemes, MELTRIC Multipin connectors are available with up to 37 contacts. Both products enable quick reconfigurations of processing equipment without the need for hard-wiring or multiple plug connections.

- Promote Error-Free Connections
  Avoid rewiring errors during equipment change-outs. MELTRIC connectors provide "plug and play" simplicity, even in washdown environments.

Electrical Connections for Vehicles

MELTRIC Switch-Rated devices provide a convenient, durable means of connecting power to stationary vehicles.

- Withstand Rough Handling
  Switch-Rated device casings offer great resistance to impact and harsh environments.

- Durable Electrical Contacts
  The silver-nickel, butt-style contact configuration allows users to routinely make and break the electrical connections.

- Prevent Damage
  Potential for "drive away" damage to the electrical connection is virtually eliminated with MELTRIC’s optional self-ejecting feature.
Conveyor Systems

MELTRIC Switch-Rated plugs and receptacles enable conveyor systems to be reconfigured quickly and allow motors to be replaced easily.

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  A mechanic can safely and easily make or break live electrical connections on conveyors. The conveyors can then be reconfigured quickly to meet flexible production needs.

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  Auxiliary/pilot contacts can operate secondary control circuits to send alarm signals or turn other equipment on or off, depending on system requirements.

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  MELTRIC devices are built to withstand harsh and wet environments. The casings are shock resistant, the silver-nickel contacts are corrosion resistant, and the complete unit is watertight up to Type 4X (Standard on DSN, optional on DS).

Portable and Handheld Equipment

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- **Inhibit Corrosion**
  Silver-nickel contact materials and stainless steel metal parts provide exceptional resistance to corrosion in caustic washdown environments.

- **Simplify Operation**
  MELTRIC devices are safely and easily disconnected - even when gloves are worn. Simply press the release button (pawl) and then lightly rotate the plug for removal.

Production Line Equipment

MELTRIC Switch-Rated plugs and receptacles facilitate the quick reconfiguration of production line equipment.

- **Minimize Design Hassles and Installation Costs**
  Switch-Rated devices eliminate the need for mechanical interlocks and auxiliary disconnects, saving design and installation time.

- **Reduce Downtime**
  A mechanic can disconnect the power, relocate or service equipment and reconnect power in minutes. There is no hard-wiring required, even for equipment with controls.

Monitor Key Operational Parameters

MELTRIC Switch-Rated and Multipin connectors allow quick, error-free control wire connections.

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  MELTRIC devices with optional pilot contacts are ideal for controlling auxiliary equipment or monitoring key operational parameters. For more complex control schemes, MELTRIC Multipin connectors are available with up to 37 contacts. Both products enable quick reconfigurations of processing equipment without the need for hard-wiring or multiple plug connections.

- **Promote Error-Free Connections**
  Avoid rewiring errors during equipment change-outs. MELTRIC connectors provide "plug and play" simplicity, even in washdown environments.

Electrical Connections for Vehicles

MELTRIC Switch-Rated devices provide a convenient, durable means of connecting power to stationary vehicles.

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  Switch-Rated device casings offer great resistance to impact and harsh environments.

- **Durable Electrical Contacts**
  The silver-nickel, butt-style contact configuration allows users to routinely make and break the electrical connections.

- **Prevent Damage**
  Potential for "drive away" damage to the electrical connection is virtually eliminated with MELTRIC’s optional self-ejecting feature.
 Benefit from MELTRIC Connectors

**GROWING**
Connect stackers, slingers, pumps, fans, hay equipment

**PROCESSING – PRODUCE**
Connect washers, conveyors, pumps, hay equipment

**PROCESSING – BAKERY**
Connect ovens, mixers, pumps, extruders, depositories

**PROCESSING – BEVERAGE**
Connect hoppers, pumps, pasteurizers, freezers, chillers

**PROCESSING – DAIRY**
Connect pasteurizers, homogenizers, mixers, blenders

**PROCESSING – MEAT**
Connect separators, saws, slicers, grinders, formers, choppers

**CONVEYING**
Connect portable or stationary motor-driven conveyors

**PACKAGING**
Connect cartoners, wrappers, baggers, sealers, fillers

**STORAGE**
Connect mixers, pumps, grinders, aerators, fans

**MAINTENANCE**
Non-electrical personnel can replace motors that are connected via Switch-Rated devices

**SHIPPING/RECEIVING**
Connect trucks, conveyors, refrigerated vehicles

**MAINTENANCE**
Replacement motor prewired at motor service center

**PLANT WASTEWATER**
Connect submersible mixers, pumps, aerators

**PLANT WASTEWATER**
Switch-Rated devices enable easy equipment change-out

MELTRIC devices with optional pilot contacts for secondary control circuits

MELTRIC Switch-Rated plugs & receptacles with standard dead front construction exempt users from NFPA 70E/CSA Z462 requirements for cumbersome PPE

MELTRIC devices with optional self-ejecting system

MELTRIC Switch-Rated device meets code requirements for “line of sight” disconnect

MELTRIC devices with Type 4X rating MSN Series Switch-Rated devices with Type 5X rating

Silver-nickel contacts and stainless steel hardware for maximum corrosion resistance

**PROCESSING – PRODUCE**
Connect washers, conveyors, pumps, hay equipment

**PROCESSING – BAKERY**
Connect ovens, mixers, pumps, extruders, depositories

**PROCESSING – BEVERAGE**
Connect hoppers, pumps, pasteurizers, freezers, chillers

**PROCESSING – DAIRY**
Connect pasteurizers, homogenizers, mixers, blenders

**PROCESSING – MEAT**
Connect separators, saws, slicers, grinders, formers, choppers

**CONVEYING**
Connect portable or stationary motor-driven conveyors

**PACKAGING**
Connect cartoners, wrappers, baggers, sealers, fillers

**STORAGE**
Connect mixers, pumps, grinders, aerators, fans

**MAINTENANCE**
Non-electrical personnel can replace motors that are connected via Switch-Rated devices

**SHIPPING/RECEIVING**
Connect trucks, conveyors, refrigerated vehicles

**MAINTENANCE**
Replacement motor prewired at motor service center

**PLANT WASTEWATER**
Connect submersible mixers, pumps, aerators

**PLANT WASTEWATER**
Switch-Rated devices enable easy equipment change-out
Benefit from MELTRIC Connectors

Throughout Your Plant

GROWING
- Connect stalkers, slingers, pumps, fans, hear equipment
- Portable Power Distribution with MELTRIC devices

PROCESSING – PRODUCE
- Connect washers, conveyors, pumps, HVAC equipment
- Switch-Rated devices allow quick and easy connection and disconnection of HVAC equipment from electrical power sources

PROCESSING – BAKERY
- Connect ovens, mixers, pumps, extruders, depositories
- MELTRIC Switch-Rated plugs and receptacles function as “in-line” switches

PROCESSING – BEVERAGE
- Connect mixers, pumps, pasteurizers, homogenizers, mixers, blenders
- MELTRIC devices use silver-nickel contacts and stainless steel hardware for maximum corrosion resistance

PROCESSING – DAIRY
- Connect pasteurizers, homogenizers, mixers, blenders
- Non-electrical personnel can replace motors that are connected via Switch-Rated devices

PROCESSING – MEAT
- Connect separators, saws, slicers, grinders, formers, choppers
- DSU Series Switch-Rated devices with Type 4X rating

PROCESSING – PRODUCE
- Connect mixers, pumps, extruders, depositories
- MELTRIC Switch-Rated device – meets code requirements for “Use of sight” disconnect

GROWING
- Connect washers, conveyors, pumps, HVAC equipment
- Portable Power Distribution with MELTRIC devices

CONVEYING
- Connect portable or stationary motor-driven conveyors
- MELTRIC devices with optional pilot contacts for secondary control circuits

PACKAGING
- Connect cartoners, wrappers, baggers, sealers, fillers
- Connection for machine power and control wires

STORAGE
- Connect mixers, pumps, grinders, aerators, fans
- Connection for fan motor
- MELTRIC devices with optional field wiring system

MAINTENANCE
- Non-electrical personnel can replace motors that are connected via Switch-Rated devices
- Switch-Rated device is mounted directly on portable equipment

CONVEYING
- Connect portable or stationary motor-driven conveyors
- MELTRIC devices with optional pilot contacts for secondary control circuits

SHIPPING/RECEIVING
- Connect trucks, conveyors, refrigerated vehicles
- MELTRIC devices with optional self-spacing system

PLANT WASTEWATER
- Connect submersible mixers, pumps, aerators
- MELTRIC devices with optional self-spacing system
Product Technology & Specifications

**Product Selection Guide**

- **DSN 20-150A**
  - **Model:** DSN20, DSN30, DSN60, DSN150, DSN20, DSN30, DSN60, DSN150
  - **Casing Material:** Poly or Metal
  - **Voltage:** 600V
  - **Amperage Rating:** 20A, 30A, 40A, 60A, 80A, 100A
  - **Maximum Number of Contacts:**
    - **Main:** 3P+N+E
    - **Auxiliary:** 3P+N+E
  - **Environmental Rating:** Type 4X, IP66/IP67
  - **Maximum horsepower Rating:**
    - **DSN20:** 5 hp
    - **DSN30:** 10 hp
    - **DSN60:** 20 hp
    - **DSN150:** 75 hp
  - **Auxiliary/Pilot Contacts**
  - **Emergency Stop or Mushroom Pawl**
  - **Lockable Plugs or Receptacles**

- **DS 20-200A**
  - **Model:** DB100, DB30, DB40, DB60
  - **Casing Material:** Zinc Aluminum
  - **Voltage:** 600V
  - **Amperage Rating:** 30A, 60A, 100A
  - **Maximum Number of Contacts:**
    - **Main:** 3P+N+E
    - **Auxiliary:** 3P+N+E
  - **Environmental Rating:** Type 3R (4X optional), IP64/55
  - **Maximum horsepower Rating:**
    - **DB100:** 100 hp
    - **DB30:** 20 hp
    - **DB40:** 30 hp
    - **DB60:** 40 hp
  - **Handle Options**
  - **Finger Drawplates**
  - **Protective Cap**

- **DB 30-100A**
  - **Model:** DSN20, DSN30, DSN60, DSN150, DSN20, DSN30, DSN60, DSN150
  - **Casing Material:** Poly or Metal
  - **Voltage:** 600V
  - **Amperage Rating:** 20A, 30A, 40A, 60A, 80A, 100A
  - **Maximum Number of Contacts:**
    - **Main:** 3P+N+E
    - **Auxiliary:** 3P+N+E
  - **Environmental Rating:** Type 4X, IP66/IP67
  - **Maximum horsepower Rating:**
    - **DSN20:** 5 hp
    - **DSN30:** 10 hp
    - **DSN60:** 20 hp
    - **DSN150:** 75 hp
  - **Auxiliary/Pilot Contacts**
  - **Emergency Stop or Mushroom Pawl**
  - **Lockable Plugs or Receptacles**

**Common Food & Beverage Industry Options**

- **Auxiliary/Pilot Contacts**
- **Emergency Stop or Mushroom Pawl**
- **Lockable Plugs or Receptacles**

Use auxiliary/pilot contacts for operating secondary control circuits or for electrical interlocking with the motor starter. These contacts make last and break first when the plug is engaged or disengaged. Two to six auxiliary contacts are available on a Switch-Rated device.

An emergency stop pawl is available as an alternative to the standard pawl. It provides a larger button that is easier to actuate, making it ideal in areas where quick disconnects may be required.

Use padlock pawls or padlock plug caps for preventing unwanted connection or disconnection of plugs. Padlock pawls also allow the lid to be locked when closed. Padlockable plug caps provide Type 4X watertightness (DSN only).

Normally closed lids for female devices are available for applications where the receptacle will be exposed to excessive moisture or debris. The lid will automatically close to a pre-latch position.

Use PH handles for connecting to flexible conduit, for strain relief on suspended connections, and for Type 4x enhanced watertightness. Finger drawplates should also be considered for easier connector closure.

Cord grips are available for washdown applications where a metallic box is not desirable. Applications utilizing large wire sizes should be checked for ‘fit’ before ordering.

A protective cap is available for select sizes to provide IP66/67 watertightness when the plug is disconnected from its receptacle.

Entries and exits can be drilled in the field using pilot holes at top, bottom or sides. Large box sizes makes wiring easy. Seventy degree angle reduces protrusion and minimizes impact risk.

* Consult the MELTRIC catalog for horsepower ratings at other voltages.*
**Product Technology & Specifications**

**DSN 20-150A**
- UL & CSA Switch-Rated
- Type 4X, IP66/IP67
- Up to 6 auxiliary contacts

**DS 20-200A**
- UL & CSA Switch-Rated
- Type 4X, IP66/IP67
- Up to 6 auxiliary contacts

**DB 30-100A**
- UL & CSA Switch-Rated
- Type 4X, IP66/IP67
- Up to 6 auxiliary contacts

DSN's are the most compact and lightweight Switch-Rated plugs and receptacles. The fiberglass reinforced thermoplastic polyester casing provides excellent resistance to shock, chemicals and UV rays.


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- **Environmental Rating**
  - Type 4X IP66/IP67
  - UL & CSA Switch-Rated

- **Auxiliary/ Pilot Contacts**
  - Up to 6 auxiliary contacts

- **Material**
  - Zinc Aluminum

- **Configuration**
  - Mushroom Pawl

- **Drawplates**
  - Finger

- **Conduit Entry**
  - Poly

- **Casing Options**
  - Poly or Metal

- **Handle Options**
  - PH Handle
  - Optional Cord Grip with Wire Mesh

- **Protective Cap**
  - Padlockable

- **Auxiliary*/Pilot Contacts**
  - Use auxiliary/pilot contacts for operating secondary control circuits or for electrical interlocking with the motor starter. These contacts make last and break first when the plug is engaged or disengaged. Two to six auxiliary contacts are available on a Switch-Rated device.

- **Mushroom Pawl**
  - Use auxiliary/pilot contacts for operating secondary control circuits or for electrical interlocking with the motor starter. These contacts make last and break first when the plug is engaged or disengaged. Two to six auxiliary contacts are available on a Switch-Rated device.

- **Emergency Stop or Mushroom Pawl**
  - An emergency stop pawl is available as an alternative to the standard pawl. It provides a larger button that is easier to activate, making it ideal in areas where quick disconnects may be required.

- **Lockable Plugs or Receptacles**
  - Use padlock pawls or padlock plug caps for preventing unwanted connection or disconnection of plugs. Padlock pawls also allow the lid to be locked when closed. Padlockable plug caps provide Type 4X watertightness (DSN only).

- **Poly 70° Wall Box**
  - Nylon conduit entry boxes are available for washdown applications where a metallic box is not desirable. Applications utilizing large wire sizes should be checked for fit before ordering.

- **Cord Grip with Wire Mesh**
  - USE PH handles for connecting to flexible conduit, for strain relief on suspended connections, and for Type 4X enhanced watertightness. Finger drawplates should also be considered for easier connector closure.

- **Padlockable Plug Cap**
  - A protective cap is available for select sizes to provide IP66/67 watertightness when the plug is disconnected from its receptacle.

- **Padlockable Pawl**
  - Entries and exits can be drilled in the field using pilot holes at top, bottom or sides. Large box sizes make wiring easy. Seventy degree angle reduces protrusion and minimizes impact risk.

- **PH Handles**
  - Normally closed lids for female devices are available for applications where the receptacle will be exposed to excessive moisture or debris. The lid will automatically close to a pre-latch position.

- **Finger Drawplates**
  - Finger drawplates are recommended for easier connector closure on cord to cord assemblies.

- **Emergency Stop or Mushroom Pawl**
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- **Lockable Plugs or Receptacles**
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Other MELTRIC Products and Services for the Food & Beverage Industries

**Multipin Plugs and Receptacles**

Multipin products are commonly used in power and control applications. They are available with up to 37 contacts and have a total amp capacity ranging from 5 to 100 amps. DN9 and DN20 models are horsepower rated.

**DXN Hazardous Duty Connectors**

DXN’s are rated for Class 2 Division 2 environments such as grain silos. Suitable for loads up to 60A/20 hp, DXN’s provide a compact, waterproof solution for hazardous locations.

**PN Connectors**

PN devices are commonly used to connect low power resistive and inductive loads up to 30 amps. PN’s are excellent for portable equipment or for applications that require devices with smaller dimensions.

**Stainless Steel Connectors**

300 series stainless steel connectors are available for applications where extreme corrosion and physical abuse are anticipated. Some sizes of DS, DSN, PN and Multipin Series products are available.

**Replacement Parts**

The need to replace parts is rare. However, should they be required, parts are readily available and reasonably priced. Purchasing the individual parts costs no more that buying an assembled product.

**Same Day Shipping**

Due to our outstanding customer service capabilities and the modular design of our product, 90% of incoming orders are shipped by the next day. For a small fee, orders can be shipped the same day.

**Five Year Warranty**

The electrical contacts on MELTRIC products are warrant- ed for five years from date of shipment. The complete product is warranted for one year from the date of shipment. Contact MELTRIC for a full warranty statement.