

AVIATION INDUSTRY SOLUTIONS

**MELTRIC® SWITCH-RATED PLUGS AND RECEPTACLES
WITH DECONTACTOR™ TECHNOLOGY**



meltric.com

MELTRIC
A COMPANY OF MARECHAL ELECTRIC

SWITCH-RATED PLUGS AND RECEPTACLES



The MELTRIC® Advantage Exclusive Switch-Rated Safety

MELTRIC® Switch-Rated plugs and receptacles combine the safety and functionality of a switch with the convenience of a plug and receptacle. They help ensure worker safety while reducing equipment and labor costs. They are UL/CSA rated for motor circuit and branch circuit disconnect switching, and meet NEC code requirements for line-of-sight disconnects. Switch-Rated plugs and receptacles eliminate the need for expensive auxiliary disconnects and enable plug-and-play equipment changeouts.

DECONTACTOR™ Technology

Spring-Assisted Screw Terminals

Exclusive design ensures "tighten and forget" confidence.

Spring-Loaded Butt-Style Contacts

Ensure superior performance.

Watertight Lid

Type 4X/IP69/IP69K.

Dead-Front Safety Shutter

Prevent access to live parts.

OFF Button

Press to de-energize.

Reinforced Casing

Impact, corrosion, and environmental resistance.

- NEC, NFPA 70E, and CSA Z462 Compliance
- Line-of-Sight Disconnect Switch
- Safely Make and Break Under Load

Lockout/Tagout Provisions

Easy LOTO.

Silver-Nickel Contact Material

Highly conductive, durable, and corrosion resistance.



DSN 20-150 A (Up to 75 hp)

- Compact, lightweight design
- Type 4X/IP69/IP69K
- Up to 6 auxiliary contacts
- Poly or Metal casings
- Short circuit rated up to 100 kA



DS 20-200 A (Up to 100 hp)

- Rugged construction
- Type 3R or 4X/IP69/IP69K
- Up to 6 auxiliary contacts
- Poly or Metal casings
- Short circuit rated up to 100 kA

Common Product Accessories

Handles



Poly Handle



Handle with Cord Grip



Finger Drawplates

Angles and Boxes



Metal Junction Box



30° Metal Angle



70° Metal Angle

Pawls



Padlockable Pawl

Adapter Plates



Customizable

Additional accessories are available to fit your application needs.



SOLUTIONS FOR EVERY STAGE of the Aviation Industry



Airplane Assembly

MELTRIC equipped power carts provide line of sight disconnects with lockout/tagout provisions wherever power is required.

Technicians can safely make and break electrical connections without fear of arc flash and without cumbersome PPE.



Jetway Connections

MELTRIC Switch-Rated plugs and receptacles allow maintenance technicians to replace damaged power cords safely and with plug-and-play efficiency.

Mounting a MELTRIC receptacle on the disconnect switch eliminates the need for on-site hard wiring. When a cord is damaged, simply unplug and replace.



Baggage and Freight Conveyors

Downtime on critical baggage and air-freight handling conveyors can be minimized by connecting motors with MELTRIC Switch-Rated devices.

MELTRIC DS and DSN Series devices meet NEC code requirements as motor disconnect switches. They also simplify NFPA 70E motor changeout compliance.



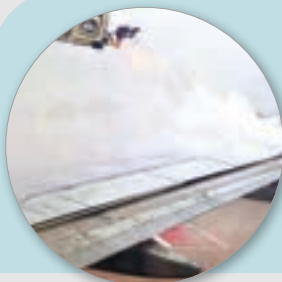
Gate Shore Power

Power to large airplanes parked at the gate can be supplied safely and easily up to 400 A with the compact and easy-to-operate MELTRIC DR400.

The DR400 locking pawl helps to avoid unintended disconnections; its pilot contacts can be used to control the power circuit.



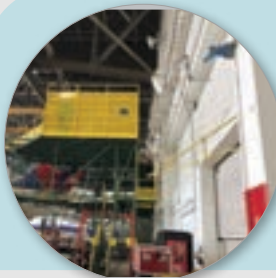
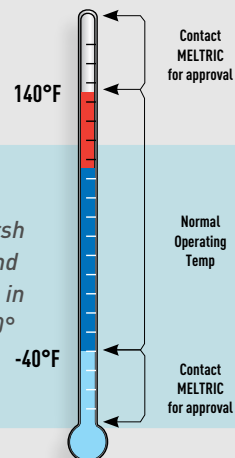
Type 4X/IP69/II



De-Icing Fluid Recovery

MELTRIC Switch-Rated devices allow for safe, plug-and-play connections on submersible pumps used to recover de-icing fluid collected in sumps after spraying the aircraft.

Designed for durability in harsh conditions, MELTRIC plugs and receptacles are rated for use in temperatures to between 140° and -40° F.



Maintenance Hangars

MELTRIC Switch-Rated plugs and receptacles provide safe and convenient power distribution to maintenance and test equipment.

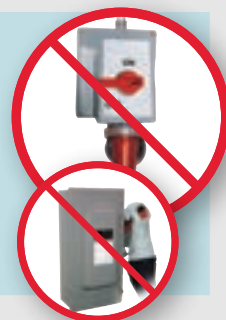
Switch ratings and dead-front design ensure safe connection/disconnection even under load, and on in-line extension cord connections.



Welding Machine Connections

MELTRIC Switch-Rated devices allow workers to safely connect and disconnect welding machines, even in overload conditions.

MELTRIC Switch-Rated devices reduce costs by eliminating the need for interlocks and auxiliary disconnects.



Hydraulic Fluid Pumps

MELTRIC Switch-Rated plugs and receptacles are ideal for connecting pump motors. They maintain superior performance even when exposed to hydraulic fluid spills.

Reinforced casings provide excellent impact resistance, as well as, protection against most harsh chemicals.



APPLICATION SPOTLIGHT

MELTRIC Devices Eliminate the Need for Haz-Loc Equipment

Non-hazardous

18"

Class I/Div 2/Zone 2

Class I/Div 1/Zone 1



Power Conversion Carts Simplify NEC 513 Compliance

NEC Article 513 classifies locations where fueled aircraft may be serviced as hazardous or non-hazardous based on proximity to the ground. Areas below or within 18 inches of the ground are classified as hazardous locations, while areas more than 18 inches above ground are non-hazardous. MELTRIC Switch-Rated devices on mobile power carts help avoid the need for special haz-loc equipment and safety procedures by ensuring that connections are made above the 18 inch level. Control the power circuit and de-energize the connector, when it is disconnected from the power cart, by customizing with optional pilot contacts.

Challenge: Reduce costs and specialized safety procedures associated with hazardous location equipment connections.

Solution: Portable power conversion carts with MELTRIC connections above 18 inches eliminate the need for explosion-proof plugs and offer safety, convenience, and portability. Disconnecting a MELTRIC Switch-Rated plug and receptacle is an NFPA 70E defined "Normal Operation." **No PPE is required.**



Disclaimer: The user is responsible for interpreting and following all national and local electrical codes. Consult NEC 513 for all code requirements in hangar areas. Consult the MELTRIC catalog for specific device ratings.

Switch-Rated

Electrical Connection Solutions for Your Industrial Applications

In addition to the innovative Switch-Rated devices featured in this brochure, MELTRIC offers a full line of industrial plugs and receptacles providing solutions for a broad range of electrical connection applications.



Explore the Complete Line of MELTRIC Plugs, Receptacles, and Accessories

- Multipin devices available with 4-37 contacts
- Hazardous Location devices for Class 1 & 2 Div 2 and Zone 1/21 & 2/22 environments
- High Temperature devices, up to 30 A, 465°F
- High Amperage devices, up to 600 A
- Power Distribution—Rubber Boxes, Panel Assemblies, Custom Configurations, Receptacle/Wall Box Combinations, and more



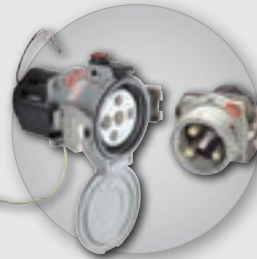
Multipin



**Hazardous
Location**



High Temp



**High
Amperage**



**Power
Distribution**

Our friendly engineering and customer service teams are available Monday - Friday, 7 a.m. - 5 p.m. (Central Time)

Phone: 414-433-2700
Email: mail@meltric.com

MELTRIC excels with the industry's leading delivery times.



Plug into **SAFETY** and **RELIABILITY** with **MELTRIC®**

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