MELTRIC Corporation

The best in industrial wiring devices



At MELTRIC Corporation, our only business is electrical plugs and receptacles. We are focused on providing our customers with the best overall value by offering the safest, highest quality and most reliable plugs and receptacles, and by backing them with outstanding service and support.

Product Technology and Safety

The technology behind MELTRIC products was developed specifically to address the shortcomings and safety hazards common with pin and sleeve type plugs and receptacles. In 1952, following the observation of an accident with a pin and sleeve device, Gilles Marechal devised the concept of combining the advantages of silver-nickel butt contacts and the load making and breaking capabilities of a switch with the convenience of a plug and receptacle. Shortly thereafter, the first of these products was born. MELTRIC licensed this technology in the early 1980's and has been supplying its products to North American customers ever since.

Value

With their unique features and capabilities, MELTRIC products provide users with a safer and more reliable product than competitive pin and sleeve devices. MELTRIC butt-style contacts provide longer operating lives, optional integral pilot contacts reduce the need for additional connectors and our Switch-Rated plugs and receptacles can eliminate the need for auxiliary interlocks and disconnect switches, helping users reduce equipment costs. These advantages, together with competitive pricing, short lead times, and 5-year warranty on electrical contacts, make MELTRIC products the best overall value in the plug and receptacle/connector market.

Service and Support

MELTRIC backs its superior products with outstanding service and support. A network of over 150 sales associates and over 2000 distributor locations throughout the US, Canada and Mexico make access to our product easy.

MELTRIC's Customer Service group is trained to answer most questions on the spot and is located at our manufacturing facility in order to help streamline the order fulfillment process. Our engineering team stands ready to provide both application support and custom designed products incorporating MELTRIC and third party components into power distribution products tailored to meet your needs. Friendly and personal assistance is only a toll free call away at (800) 433-7642.

Many of MELTRIC's products are designed in a modular fashion, which permits cost effective stocking of components and quick final assembly of the product. Together with efficient order handling by Customer Service, this helps MELTRIC to provide the shortest lead times in the industry.

Quality

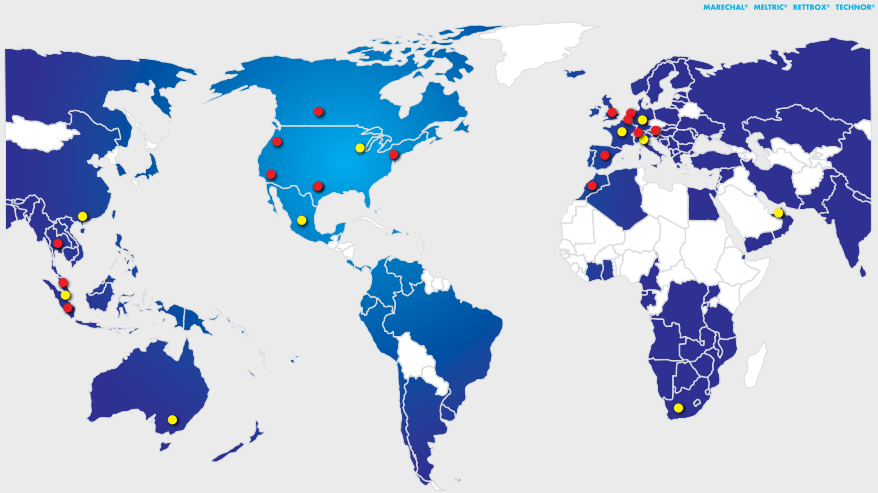
Quality is not just an inspection function at MELTRIC. Quality starts with intelligent designs, robust materials, clear procedures, process measurement and controls and effective communications. It is completed by the care, commitment and involvement of each of our employees.

MELTRIC is dedicated to the continuous improvement of all its critical production and support processes and is ISO 9001:2015 certified. MELTRIC designs and manufactures its products to exceed the requirements of applicable UL, CSA and IEC standards.



Worldwide Availability

Marechal Technology products are manufactured in North America, Europe, South Africa and Australia. MELTRIC supplies product directly from its factory in Franklin, Wisconsin to customers in the United States, Canada and Mexico. For customers outside of North America, product is provided through other Marechal Electric Group companies and sales agents.



DSN Switch-Rated Plug and Receptacle with Type 4X/IP69/IP69K protection



Main Advantages

- Switch & Hp rated
- 100 kA short circuit rated*
- Type 4X/IP69/IP69K or IP66/IP67
- Compact, lightweight design
- Up to 6 auxiliary contacts

* See note under General Ratings on the next page.



Highlighted Advantage

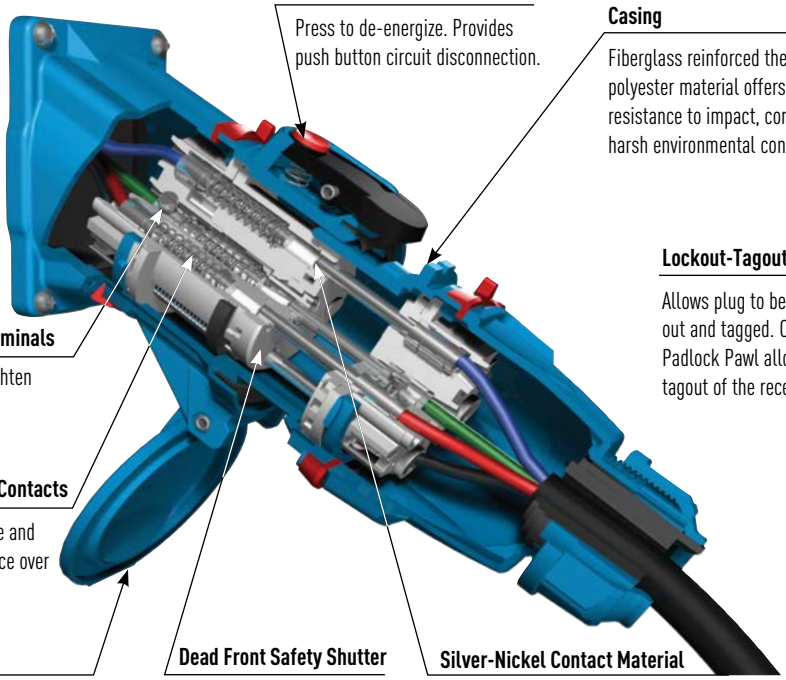


! Simplify Compliance to NFPA 70E & CSA Z462 see pgs 19-20 for more information.

- Features and Ratings p. 26
- DSN20 p. 27
- DSN30 p. 29
- DSN60 p. 31
- DSN150 p. 33
- Spare Parts p. 35
- Dimensions p. 37

PRODUCT FEATURES

DECONTACTOR® Technology



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.

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 additional protection in harsh environments.

Dead Front Safety Shutter

Assures safety by preventing user access to live parts.

Silver-Nickel Contact Material

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

General Ratings

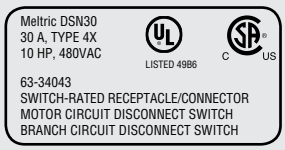
Amperage	20 to 150 A
Voltage	600 VAC
Frequency	50-400 Hz
Horsepower	.75 to 75 hp
Short-Circuit (Make & Withstand)	100kA*
Environmental	Type 4X/IP69/IP69K
Temperature	min -40°F/max 140°F

* DSN20, DSN30, DSN60: Testing was performed with RK1 current limiting fuses sized at 400% or more of the highest full load motor ampacity associated with the devices horsepower ratings.

* DSN150: 100kA testing was performed with 225 A RK1 non-time delay Mersen fuses. 10kA testing was performed with 400 A RK1 non-time delay Mersen fuses.

Highlighted Feature

Typical Device Labels



MELTRIC DSN Series Switch-Rated devices are UL & CSA rated for "motor circuit" and "branch circuit" disconnect switching – up to 75 hp and up to 150 A.

Listings

Category	UL	CSA	IEC
Plugs and Receptacles	UL 1682	C22.2 No. 182.1	60309-1
Branch Circuit Disconnect Switching (AC only)	UL Subject 2682 (Performance tests from UL 98)	UL Subject 2682	60947-3, AC22, AC23
Motor Circuit Disconnect Switching (AC only)	UL Subject 2682 (Performance tests from UL 98)	UL Subject 2682	60947-3, AC22, AC23

CE ratings available upon request.

Operating Instructions



When the plug and receptacle are latched together, the circuit is connected.



Pressing the pawl breaks the connection and opens the circuit. The plug is ejected to its rest position; The contacts are now dead.



Rotating the 'dead' plug 30° counterclockwise closes the safety shutter and frees the plug to be withdrawn from the receptacle.



The plug and the receptacle are separated. The safety shutter prevents access to live parts.

5 To reconnect, insert plug into receptacle, rotate 30° clockwise, and apply insertion force.

DSN60 Switch-Rated Plugs & Receptacles – 60 A

UL/CSA Ratings

- **Max Amperage & Voltage**
  60 A, 600 VAC
- **Switch-Rating (AC Only)**
  Branch Circuit & Motor Circuit Disconnect Switching
- **Horsepower Ratings**

120V	1Ø	2 hp
240V	1Ø	3 hp
208V	3Ø	7.5 hp
240V	3Ø	7.5 hp
480V	3Ø	20 hp
600V	3Ø	20 hp

- **Short Circuit Rating**
  100kA Close & Withstand
  Testing was performed with RK1 current limiting fuses sized at 400% of the highest full load motor ampacity associated with the devices hp rating.
- **Environmental Ratings**
  Type 4X/IP69/IP69K*
  *Also meets IP66/IP67 requirements
- **Temperature Range**
  Min -40°F/Max 140°F
  See pg 258 for temps below -15°F.
- **Wiring Capacity**
  Min 12 AWG Max 4 AWG Aux Contacts - Max 14 AWG
- **Certifications**
  UL 2682, UL 1682, CSA 182.1

Receptacle (female)



Inlet (male)



! Don't forget to add installation accessories to your order

North American UL/CSA Configuration

Voltage	Polarity	Part # Poly	Part # Poly
120V	1P+N+G	63-64165	63-68165
120 208V	3P+N+G	63-64167	63-68167
125V	1P+N+G	63-64075	63-68075
125 250V	2P+N+G	63-64076	63-68076
208V	2P+G	63-64162	63-68162
208V	3P+G	63-64163	63-68163
250V	2P+G	63-64072	63-68072
250V	3P+G	63-64073	63-68073
277V	1P+N+G	63-64045	63-68045
277 480V	3P+N+G	63-64047	63-68047
347 600V	3P+N+G	63-64147	63-68147
480V	2P+G	63-64042	63-68042
480V	3P+G	63-64043	63-68043
600V	2P+G	63-64142	63-68142
600V	3P+G	63-64143	63-68143

For international configurations and ratings (IEC,CE) visit meltric.com/international-catalog or contact customer service at 800-433-7642.

Main Options



Auxiliary/Pilot Contacts



Mushroom Pawl



Padlock Pawl



Closed Lid Configuration
Recommended for cord applications to keep lid tucked in to avoid damage.

Receptacle Options	Suffix #	Inlet Options	Suffix #
With 2 Auxiliary/Pilot Contacts	Recept # - 972	With 2 Auxiliary/Pilot Contacts	Inlet # - 972
With 3 Auxiliary/Pilot Contacts	Recept # - 973	With 3 Auxiliary/Pilot Contacts	Inlet # - 973
With 4 Auxiliary/Pilot Contacts	Recept # - 974	With 4 Auxiliary/Pilot Contacts	Inlet # - 974
Straight Insertion	Recept # - 352	Self-Ejecting Plug Release	Inlet # - 338
Self-Ejecting Connector Release	Recept # - 354	With No Lockout Hole	Inlet # - A155
Mushroom Pawl	Recept # - 375	For Auxiliary Switch	Inlet # - NNF*
Padlock Pawl	Recept # - 843		
Padlockable Mushroom Pawl	Recept # - 375-843		
Metal Pawl	Recept # - 824		
Closed Lid Configuration	Recept # - NC		
With Auxiliary Switch	Recept # - 270+		

Notes: + Not UL/CSA listed.

Notes: * Order inlet with P+N+G configuration and receptacle with P+G configuration.

! See pages 235-244 for detailed information on these options

Order Example: 480V DSN60 + 2 auxiliary contacts
DSN60 Inlet 3P+G = 63-68043-***972***

AUXILIARY/PILOT CONTACTS

Auxiliary/pilot contacts can operate secondary circuits on the inlet or receptacle side of the circuit. They make last and break first when the plug is engaged or disengaged from the receptacle. To order a device with auxiliary/pilot contacts, add the appropriate suffix numbers listed to the right. Amperage ratings for the auxiliary/pilot contacts depend on the device size and operating voltage (see table below).



Switch-rated plugs & receptacles with auxiliary/pilot contacts can make the operation of a facility safer and more efficient by facilitating the use of advanced control schemes. They allow facilities to:

- **Quickly reconfigure or change-out processing equipment.** – The need for hard-wiring or multiple plug connections is eliminated.
- **Reduce equipment costs.** – The need for separate connections for the auxiliary/pilot contacts is eliminated.
- **Simplify the monitoring of key parameters.** – Thermistors on a motor driving a critical process pump can communicate temperature problems via auxiliary/pilot contacts in the Decontactor.
- **Communicate alarm signals or turn off equipment.** – When a motor is disconnected or unplugged, the auxiliary/pilot contacts can convey a signal that will de-energize the motor starter.

Auxiliary Contact Amperage Ratings

Product	DSN20	DSN30 DSN60	DSN150	DS20 DS30 DS60 2 Aux DS100C 2 Aux	DS100 DS200	DS60 3+4 Aux DS100C 3+4 Aux	DXN30 DXN60	PFQ300	PF (all sizes)	DR30 DR50 DR100 2 Aux	DR150 DR225 DR250 DR400	DR100 3+4 Aux	SP	SPeX	DS7c	DR7c
120 VAC	0.60 A	6 A	1.50 A	6 A	1.50 A	3 A	5 A*	7 A	10 A*	6 A	1.50 A	3 A	0.60 A**	-	-	-
240 VAC	0.30 A	3 A	0.75 A	3 A	0.75 A	1.50 A	5 A*	5 A	10 A*	3 A	0.75 A	1.50 A	1 A	6 A* (220V max)	-	5 A*
480 VAC	-	1.50 A	0.38 A	1.50 A	0.38 A	0.75 A	5 A	2 A*	10 A*	1.50 A	0.38 A	0.75 A	-	-	5 A* (400V max)	-
600 VAC	-	1.20 A	0.30 A	1.20 A	0.30 A	0.60 A	5 A* (550V max)	2 A*	10 A*	1.20 A	0.30 A	0.60 A	-	-	-	-

* Rating is not UL or CSA listed **Rating is not UL listed.

Ordering Information

To order on a device, add the appropriate suffix to both the inlet and receptacle part numbers.

Product	DSN				DS								DXN		PFQ	PF			DR						DR7c DS7c	SP
	20*	30	60	150	20	30	60 Poly	60 Metal	100C Poly	100C Metal	100	200	30	60	300	300	400	600	30	50	100 Poly	100 Metal	150	250		
2 contacts	-972	-972	-972	-262	-972	-972	-972	-972	-972	-972	-262	-972	-972	-972	–	–	–	–	-972	-972	-972	-972	-262	-972	-172	Standard 2
3 contacts	–	–	-973	-263	–	-973	-263	-263	-263	-263	-263	–	–	–	–	–	–	–	–	-973	-263	-263	-263	–	-173	–
4 contacts	–	–	-974	-264	–	-974	-264	-264	-264	-264	-264	-174	–	–	Standard 8	Standard 4	Standard 4	Standard 4	–	-974	-264	-264	-264	-174	–	–
5 contacts	–	–	–	-975	–	–	–	–	–	–	-975	–	–	–	–	–	–	–	–	–	–	–	-975	–	–	–
6 contacts	–	–	–	-976	–	–	–	–	–	–	-976	-976	–	–	–	–	–	–	–	–	–	–	-976	-976	–	–

* Suffix on receptacle only.

Replacement Auxiliary Contacts

Product	DSN			DS				DR			
	30	60	150	20	30	60	100C	30	50	100	150
Male contact	61-3A011-380	61-6A011-264	61-9A011-219	31-1A011-380	61-6A011-262	31-6A011-172	31-6A011-172	31-1A011-380	61-6A011-262	31-6A011-172	61-9A011-219
Female contact	61-3A021-380	61-6A021-264	61-9A229	31-1A021-380	61-6A021-262	31-6A229	31-6A229	31-1A021-380	61-6A021-262	31-6A229	61-9A229