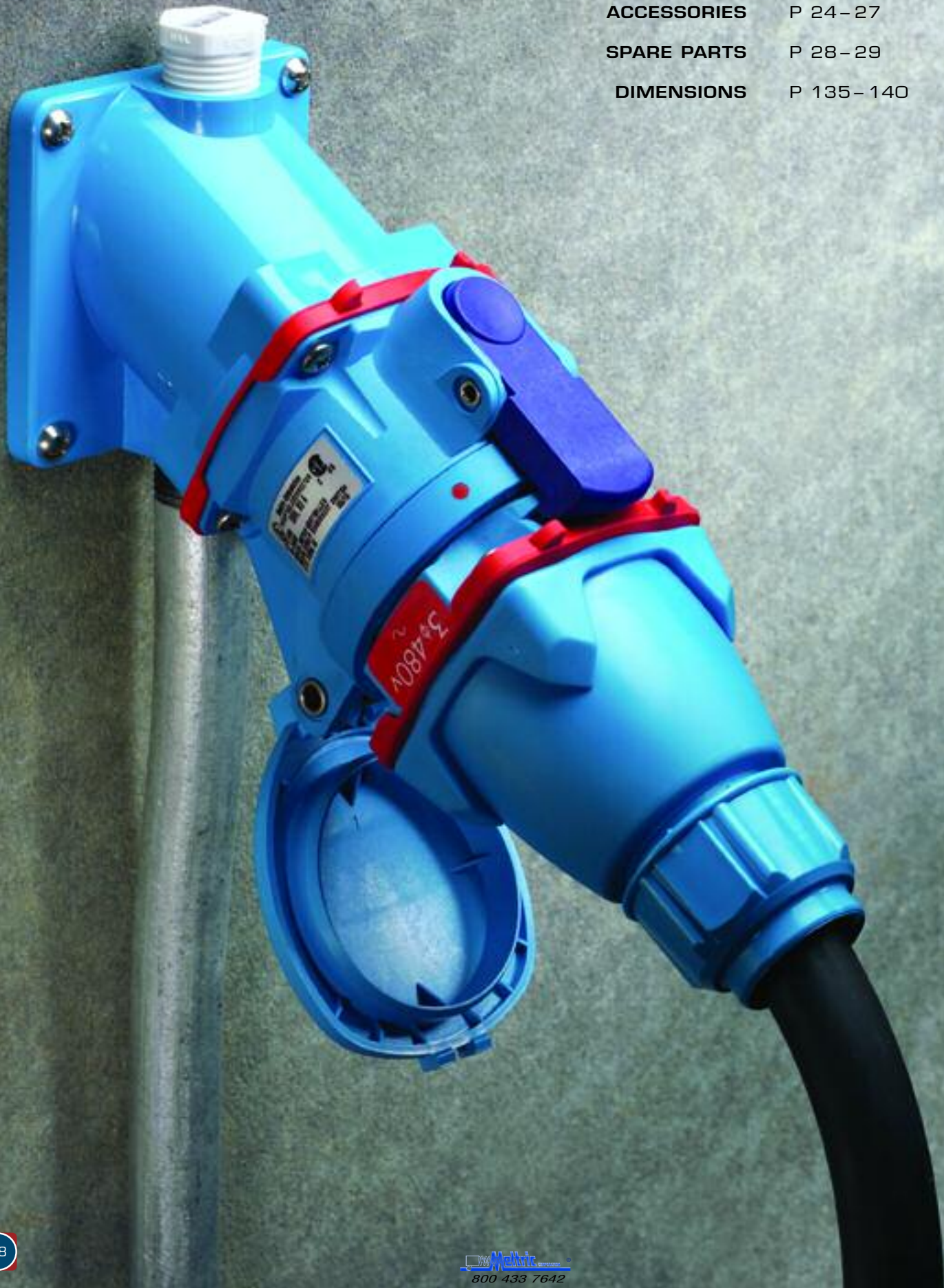


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DIMENSIONS	P 135-140



DSN Decontactor™ Series

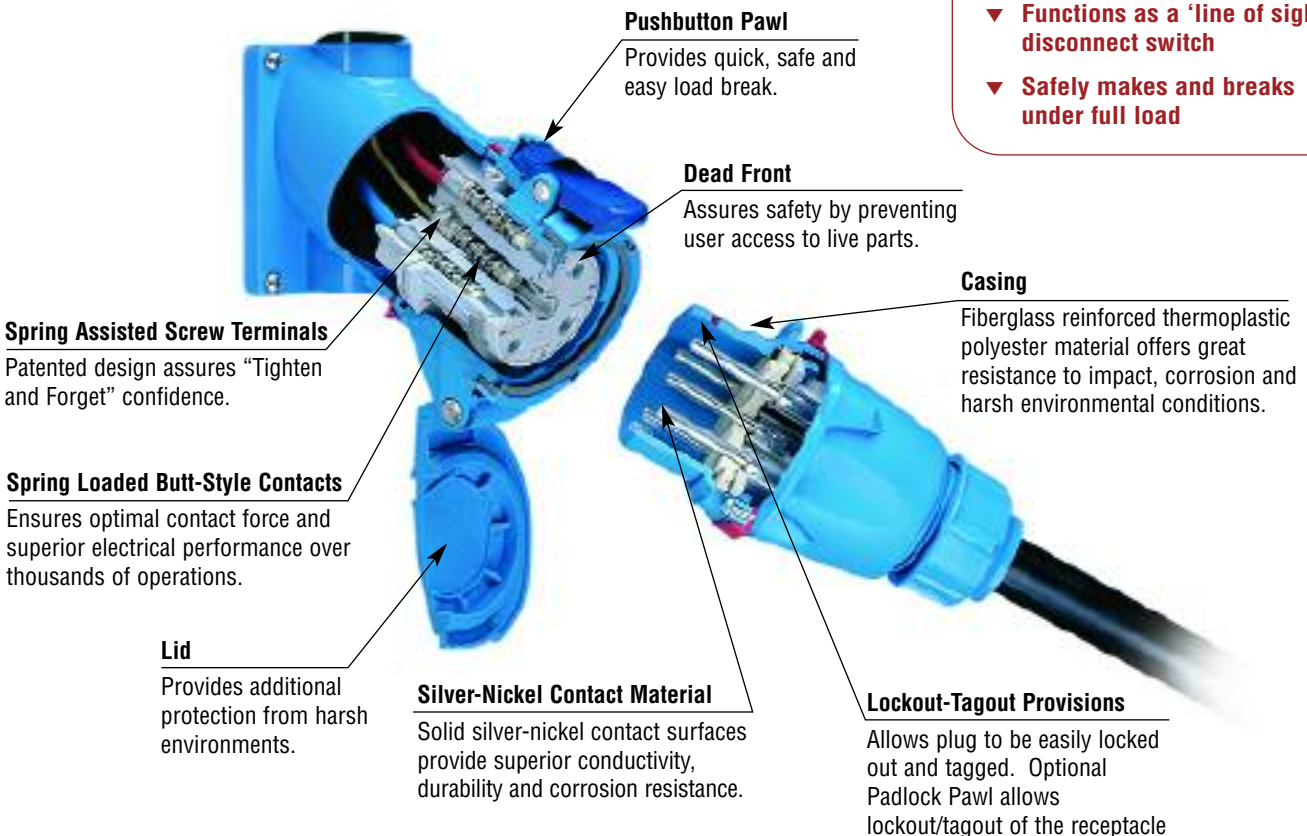
SWITCH RATED PLUGS & RECEPTACLES

Like all Decontactors, the DSN Series is a combination plug and receptacle and disconnect switch in the same device. With dead front construction and UL/CSA switch ratings, they allow users to safely and routinely make and break electrical connections under full load. When used to connect motors or other equipment, they provide plug and play simplicity, help avoid the NFPA 70E safety procedures and equipment required for devices with accessible live parts, and help reduce costs by eliminating the need for mechanical interlocks and/or auxiliary disconnect switches.

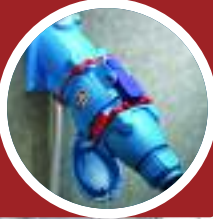
DSN Series Decontactors are the most compact and lightweight models in the Decontactor product family. This makes them easy to handle and ideal for portable applications, cord drops, applications where space is limited, and applications where users must frequently make and break connections. The DSN's NEMA 4X and IP66 + 67 ratings are achieved as soon as the plug and receptacle are fully engaged, making them a perfect choice for food and beverage or other applications requiring frequent washdowns. Like all Decontactors, DSN's can be purchased with pilot contacts for control circuits or auxiliary equipment.



PRODUCT FEATURES



- ▼ Assures easy NEC and NFPA 70E code compliance
- ▼ Functions as a 'line of sight' disconnect switch
- ▼ Safely makes and breaks under full load



DSN Decontactors

GENERAL RATINGS

Amperage	20 to 60A
Voltage	600 VAC*, 250 VDC Max
Frequency	50-400 Hz
Horsepower	1/2 to 20 hp
Short-Circuit (Make & Withstand)	100kA**
Environmental	NEMA 4X, IP66 + 67
Temperature	min -40°F/max 185°F

* DSN1 devices are 480VAC

** 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.

MATERIALS

Component	Standard Material
Housing	Fiberglass reinforced thermoplastic polyester
Contacts	Silver-nickel
Hardware	Stainless steel

LISTINGS

Category	UL	CSA	IEC
Plugs and Receptacles	UL 1682	C22.2 No. 182.1	60309-1
Branch Circuit Disconnect Switching	UL Subject 2682 (Performance tested to UL 98)	C22.2 No. 4	60947-3, AC22, AC23
Motor Circuit Disconnect Switching	UL Subject 2682 (Performance tested to UL 508)	C22.2 No. 14	

HORSEPOWER RATINGS

Voltage/Phase	DSN1 (20A)	DSN3 (30A)	DSN6 (60A)
120V 1Ø	1/2 hp	1 hp	2 hp
240V 1Ø	1 hp	3 hp	3 hp
208V 3Ø	2 hp	5 hp	7 1/2 hp
240V 3Ø	2 hp	5 hp	7 1/2 hp
480V 3Ø	5 hp	10 hp	20 hp
600V 3Ø	-	15 hp	20 hp



Decontactors simplify design, installation and maintenance of difficult to reach equipment such as submersible mixers or pumps.

Key electrical tests passed by Meltric Decontactors and by traditional pin and sleeve type plugs and receptacles (per UL 1682)

- Temperature Rise: not to exceed 30°C over ambient
 - Overload: 50 operations @ 150% device rating and .7 -.8 power factor
 - Endurance: the indicated operations @ rated current and voltage and .75 -.8 power factor
- | | | | | | |
|---------------|-------|------------|---|-------|----------|
| • 20A | 5,000 | under load | + | 0 | off load |
| • 30 to 60A | 1,000 | under load | + | 1,000 | off load |
| • 100 to 200A | 250 | under load | + | 250 | off load |

Additional Tests passed exclusively by DSN Decontactor™ Series Plugs and Receptacles per UL Subject 2682 (formerly miscellaneous file UL 98/508)

- Endurance: 6000 operations @ rated current and voltage and .75 - .8 power factor, plus 4000 operations off load
- HP Locked Rotor: 50 operations @ 600% of full load motor current and .4 - .5 power factor
- Short Circuit Withstand: 100kA @ 600V and ≤ .15 power factor
- Short Circuit Make: 100kA @ 600V and ≤ .15 power factor

WIRING CAPACITY

For proper wire size and type for your application, consult the National Electric Code Handbook, and Applicable Local Codes

Product	Amperage	Maximum Voltage	Wiring Capacity*		
			Main Contacts Minimum	Main Contacts Maximum	Aux. Contacts Maximum
DSN1	20A	480	20 AWG	12 AWG	NA
DSN3	30A	600	14 AWG	8 AWG	8 AWG
DSN6	60A	600	12 AWG	4 AWG	12 AWG

* Based on THHN wire sizes

OPERATING INSTRUCTIONS



When a Decontactor is connected, there is total safety.



Pressing the pawl causes the Decontactor to break the circuit. The plug is ejected to its rest position.

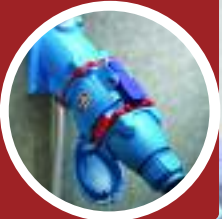


A simple quarter turn of the plug allows it to be totally withdrawn from the receptacle. This is done in complete safety as the circuit is already dead.



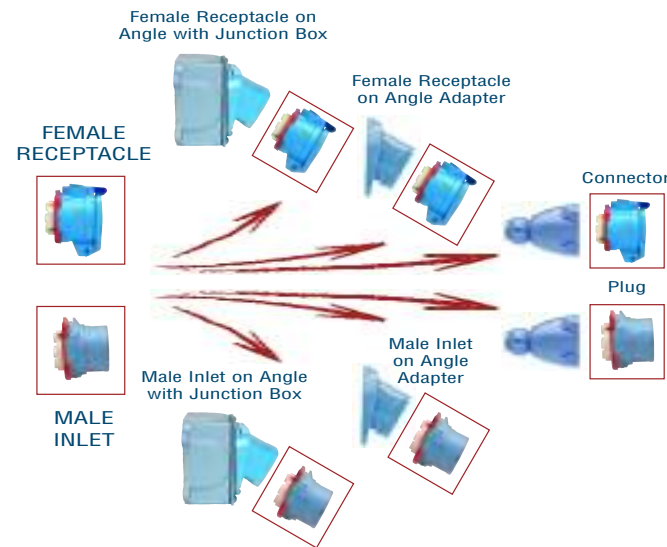
The plug and the receptacle are separated. The safety shutter prevents access to live parts.

5 To reconnect, insert plug into receptacle, twist slightly, and apply insertion force.



A MODULAR SYSTEM

Meltric products are ordered and assembled in a modular fashion. Customers should select the desired male inlet and female receptacle part numbers. Then matching accessories such as handles, angles, and junction boxes should be identified and added to the order to create plugs, connectors, or other configurations. This modular system helps Meltric to build and ship product to customer specifications in a very short time- 95% of orders ship by the next business day.

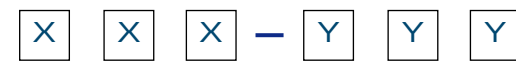


PART NUMBERING SYSTEM: DSN DECONTACTORS

First seven (7) digits for a basic male inlet or receptacle part number



If required, one (1) to six (6) digit suffix for special features (see pages 23 - 27)



Meltric Product Line Type and Casing Material	AMP (A) Rating	Form and Mounting	Position	Voltage	Polarization Voltage	Hz	Phasing
DSN 63 = Blue Poly	DSN 1 = 20 3 = 30 6 = 60	Female 4 = Receptacle Male 8 = Inlet	02 = 04 = 07 = 08 = 10 = 14 = 16 = 20 =	24 277/480 125/250 24 125 347/600 120/208 250	60 60 60 DC DC 60 60 DC		2 = 2P+E AC 3 = 3P+E AC 5 = 1P+N+E AC 6 = 2P+N+E AC 7 = 3P+N+E AC A* = 2P AC B* = 3P AC C* = 3P+N AC D* = 1P+N AC 9 = 2P+E DC Z* = 2P DC
Note: For a complete listing of available voltage polarizations see page 14							* For 50V or less only

HOW TO ORDER

- Select an inlet and/or receptacle part number (example: 63-18075) then...
- Select the appropriate accessory to complement the inlet or receptacle (example: 61-1A013).

A typical order should include an inlet part number, a receptacle part number **AND** the matching handles, angles or other required accessories. See examples

Order examples:

MALE INLET ONLY	MALE INLET WITH HANDLE (PLUG)	FEMALE RECEPTACLE ON ANGLE ADAPTER
63-18075	63-18075 + 61-1A013	63-14075 + 61-1A027

		MALE INLET		
		20A	30A	60A
		DSN1	DSN3	DSN6
		POLY	POLY	POLY
125V	1P+N+E	63-18075	63-38075	63-68075
277V	1P+N+E	63-18045	63-38045	63-68045
208V	2P+E	63-18162	63-38162	63-68162
250V	2P+E	63-18072	63-38072	63-68072
480V	2P+E	63-18042	63-38042	63-68042
600V	2P+E	-	63-38142	63-68142
125/250V	2P+N+E	63-18076	63-38076	63-68076
208V	3P+E	63-18163	63-38163	63-68163
250V	3P+E	63-18073	63-38073	63-68073
480V	3P+E	63-18043	63-38043	63-68043
600V	3P+E	-	63-38143	63-68143
120/208V	3P+N+E	63-18167	63-38167	63-68167
277/480V	3P+N+E	63-18047	63-38047	63-68047
347/600V	3P+N+E	-	63-38147	63-68147

Notes • For pilot contacts see pg 25

		FEMALE RECEPTACLE		
		20A	30A	60A
		DSN1	DSN3	DSN6
		POLY	POLY	POLY
125V	1P+N+E	63-14075	63-34075	63-64075
277V	1P+N+E	63-14045	63-34045	63-64045
208V	2P+E	63-14162	63-34162	63-64162
250V	2P+E	63-14072	63-34072	63-64072
480V	2P+E	63-14042	63-34042	63-64042
600V	2P+E	-	63-34142	63-64142
125/250V	2P+N+E	63-14076	63-34076	63-64076
208V	3P+E	63-14163	63-34163	63-64163
250V	3P+E	63-14073	63-34073	63-64073
480V	3P+E	63-14043	63-34043	63-64043
600V	3P+E	-	63-34143	63-64143
120/208V	3P+N+E	63-14167	63-34167	63-64167
277/480V	3P+N+E	63-14047	63-34047	63-64047
347/600V	3P+N+E	-	63-34147	63-64147

Notes • For pilot contacts see pg 25
• 180° opening lids are standard

COMMON ACCESSORIES		HANDLE		ANGLE ADAPTER		JUNCTION BOX / ANGLE			
Inlet/Receptacle size	Material	Cable Range	Part Number	Material	Angle	Part Number	Box Material	NPT	Part Number**
20A = DSN1	Nylon	.31 - .59	61-1A013	Nylon	30°	61-1A027	Metal	1/2"	61-1A053-080-12
30A = DSN3	Nylon	.20 - .83	61-3A013	Nylon	30°	61-3A027	Metal	1"	61-3A053-080-1
60A = DSN6	Nylon	.39 - 1.18	61-6A013*	Nylon	30°	61-6A027	Metal	1"	61-6A053-080-1

Notes * Finger draw plates are recommended for easier connector closure on cord to cord assemblies. See pg 25
** Includes angle adapter as shown.