

## DS60 and DSN150 for Hazardous Environments

### new product description

MELTRIC now offers metal DS60 and metal DSN150 plugs and receptacles for hazardous-rated Division 2 / Zone 2 environments. The new ratings for these devices are:

**Class I, Division 2, Groups ABCD, T6**

**Class I, Zone 2, IIC**



**Hazardous-rated  
DSN150**



Meltric DSN150 150A, 480VAC 75hp, TYPE 4X 1002001 66-94043 RECEPTACLE/CONNECTOR Class I, Division 2, Groups ABCD, T6 Class I, Zone 2, IIC	
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**Hazardous-rated  
DS60**



Meltric DS60 60A, 480VAC 20hp, TYPE 4X 1002001 36-64043 RECEPTACLE/CONNECTOR Class I, Division 2, Groups ABCD, T6 Class I, Zone 2, IIC	
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### feature spotlight: screw-type locking pawl

**⚠ Safety Requirement**  
Users must tighten screw to lock the plug in the mated position



DS60 and DSN150 Division 2 / Zone 2 receptacles feature a standard screw-type locking pawl. This required feature allows the user to lock the plug to the receptacle by tightening a screw on the pawl.

For added security, a lockout hole is included on the receptacle that enables the user to insert a 5/16" lock or locking pin to prevent the plug from being disconnected or to lock the receptacle lid closed.

5/16" hole for added security

# DS60 and DSN150 for Hazardous Environments

## DS60 metal – catalog info



### DS – 60A Hazardous Location Plugs & Receptacles

Devices rated for hazardous locations are not returnable.

- SR Ratings**
- Voltage**  
600 VAC
  - Current Interruption Capability**  
Not for current interrupting
  - Listings**
  - Hazardous Ratings**  
Class I, Division 2, Groups ABCD, T6  
Class I, Zone 2, IIC
  - Horsepower Ratings**

120V	1Ø	2 hp
240V	1Ø	3 hp
208V	3Ø	7 1/2 hp
240V	3Ø	10 hp
480V	3Ø	20 hp
600V	3Ø	25 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
  - Temperature Range**  
Min -40°F/Max 104°F  
See pg 228 for temps below -15°F.
  - Wiring Capacity**  
Min 10 AWG Max 2 AWG  
Aux Contacts - Max 14 AWG

### Receptacle (cCSAus rated)



Standard locking pawl



Standard DS60 Zone 2 lid is normally closed

### Inlet (cCSAus rated)



Voltage	Polarity	Part # Metal
120V	1P+N+G	36-64165
120/208V	3P+N+G	36-64167
125V	1P+N+G	36-64075
125/250V	2P+N+G	36-64076
208V	2P+G	36-64162
208V	3P+G	36-64163
250V	2P+G	36-64072
250V	3P+G	36-64073
277V	1P+N+G	36-64045
277/480V	3P+N+G	36-64047
347/600V	3P+N+G	36-64147
480V	2P+G	36-64042
480V	3P+G	36-64043
600V	2P+G	36-64142
600V	3P+G	36-64143

Voltage	Polarity	Part # Metal
120V	1P+N+G	36-68165
120/208V	3P+N+G	36-68167
125V	1P+N+G	36-68075
125/250V	2P+N+G	36-68076
208V	2P+G	36-68162
208V	3P+G	36-68163
250V	2P+G	36-68072
250V	3P+G	36-68073
277V	1P+N+G	36-68045
277/480V	3P+N+G	36-68047
347/600V	3P+N+G	36-68147
480V	2P+G	36-68042
480V	3P+G	36-68043
600V	2P+G	36-68142
600V	3P+G	36-68143

Receptacle Options	Suffix #
With 2 Auxiliary/Pilot Contacts	Recept # - 972
Normally Open Lid Configuration	Recept # - NO

Inlet Options	Suffix #
With 2 Auxiliary/Pilot Contacts	Inlet # - 972
With No Lockout Hole	Inlet # - A155

See pgs 205-214 for detailed information on these options

### Feature Spotlight – Screw-Type Locking Pawl

**Safety Requirement**  
Users must tighten screw to lock the plug in the mated position



DS60 Division 2 / Zone 2 receptacles feature a standard screw-type locking pawl. This required feature allows the user to lock the plug to the receptacle by tightening a screw on the pawl.

For added security, a lockout hole is included on the receptacle that enables the user to insert a 5/16" lock or locking pin to prevent the plug from being disconnected or to lock the receptacle lid closed.

5/16" hole for added security

# DS60 and DSN150 for Hazardous Environments

## DS60 metal – catalog info

**DS60**

### Installation Accessories

Accessories rated for hazardous locations are not returnable.

#### Handles



NPT	Metal Handle
1/2"	6H12M
3/4"	6H34M
1"	6H1M
1 1/4"	6H114M
1 1/2"	6H112M

**Notes:** • For available third party cord grips, consult factory.

#### Angles



Metal 30° Angle	Metal 70° Angle	Metal Straight Adapter	Metal Lateral Angle 30°
MA6M	89-6A027M	MS6M	MAB6M

#### Junction Boxes



NPT	Metal Box
1/2"	-
3/4"	-
1"	MB61M
1 1/4"	MB6114M
1 1/2"	MB6112M
2"	MB62M

#### Miscellaneous Accessories



Finger Drawplates	Protective Cap	Padlockable Cap Aluminum	Receptacle+ Locking Pin
FDP6	31-6A426	DS6MC	LP-843

\* Recommended for cord to cord assembly applications, for easier connector closure.  
 \* Requires Padlockable Pawl option (-843) on receptacle.

#### NPT Guidelines

Cable Range	NPT
.312 - .625	1/2"
.438 - .812	3/4"
.660 - 1.000	1"
.875 - 1.375	1 1/4"
.890 - 1.812	1 1/2"

NPT sizes are determined by the cable diameter and third party cord grip.

#### Accessory Spotlight

##### Receptacle Lockout Pin



A 5/16" lockout pin can be ordered to securely lockout receptacles that include the 'padlockable pawl' option. Alternatively the user can utilize a lock with a 5/16" shank. Locks with smaller shanks will NOT securely lockout a receptacle pawl.

#### Order Example

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



Male Inlet with Handle (Plug)  
36-68043 + 6H12M



Female Receptacle with Angle Adapter  
36-64043 + MA6M

HAZARDOUS LOCATION

# DS60 and DSN150 for Hazardous Environments

## DSN150 metal – catalog info



### DSN – 150A Hazardous Location Plugs & Receptacles

Devices rated for hazardous locations are not returnable.

- SR Ratings**
- Voltage**  
600 VAC
  - Current Interruption Capability**  
Not for current interrupting
  - Listings**
  - Hazardous Ratings**  
Class I, Division 2, Groups ABCD, T6  
Class I, Zone 2, IIC
  - Horsepower Ratings**
    - 120V 1Ø 7 1/2 hp
    - 240V 1Ø 20 hp
    - 208V 3Ø 30 hp
    - 240V 3Ø 30 hp
    - 480V 3Ø 75 hp
    - 600V 3Ø 75 hp
  - Short Circuit Rating**  
100kA Close & Withstand  
Testing was performed with 225A RK1 non-time delay Mersen fuses.  
10kA Close & Withstand  
Testing was performed with 400A RK1 non-time delay Mersen fuses.
  - Environmental Ratings**  
Type 4X
  - Temperature Range**  
Min -40°F/Max 104°F  
See pg 228 for temps below -15°F.
  - Wiring Capacity**  
Min 4 AWG Max 2/0 AWG  
Aux Contacts - Max 14 AWG

#### Receptacle (cCSAus rated)



#### Inlet (cCSAus rated)



Standard DSN150 Zone 2 lid is normally closed

Voltage	Polarity	Part # Metal
120V	1P+N+G	66-94165
120/208V	3P+N+G	66-94167
125V	1P+N+G	66-94075
125/250V	2P+N+G	66-94076
208V	2P+G	66-94162
208V	3P+G	66-94163
250V	2P+G	66-94072
250V	3P+G	66-94073
277V	1P+N+G	66-94045
277/480V	3P+N+G	66-94047
347/600V	3P+N+G	66-94147
480V	2P+G	66-94042
480V	3P+G	66-94043
600V	2P+G	66-94142
600V	3P+G	66-94143

Voltage	Polarity	Part # Metal
120V	1P+N+G	66-98165
120/208V	3P+N+G	66-98167
125V	1P+N+G	66-98075
125/250V	2P+N+G	66-98076
208V	2P+G	66-98162
208V	3P+G	66-98163
250V	2P+G	66-98072
250V	3P+G	66-98073
277V	1P+N+G	66-98045
277/480V	3P+N+G	66-98047
347/600V	3P+N+G	66-98147
480V	2P+G	66-98042
480V	3P+G	66-98043
600V	2P+G	66-98142
600V	3P+G	66-98143

Receptacle Options	Suffix #
With 2 Auxiliary/Pilot Contacts	Recept # - 262
With 3 Auxiliary/Pilot Contacts	Recept # - 263
With 4 Auxiliary/Pilot Contacts	Recept # - 264
With 5 Auxiliary/Pilot Contacts	Recept # - 975
With 6 Auxiliary/Pilot Contacts	Recept # - 976
180° Opening Lid	Recept # - 180**
Normally Open Lid Configuration	Recept # - NO

Inlet Options	Suffix #
With 2 Auxiliary/Pilot Contacts	Inlet # - 262
With 3 Auxiliary/Pilot Contacts	Inlet # - 263
With 4 Auxiliary/Pilot Contacts	Inlet # - 264
With 5 Auxiliary/Pilot Contacts	Inlet # - 975
With 6 Auxiliary/Pilot Contacts	Inlet # - 976
With No Lockout Hole	Inlet # - A155

**Notes:** \*\* Required when mating to panel mounted male inlet.

#### Feature Spotlight – Screw-Type Locking Pawl



**Safety Requirement**  
Users must tighten screw to lock the plug in the mated position

5/16" hole for added security

DSN150 Division 2 / Zone 2 receptacles feature a standard screw-type locking pawl. This required feature allows the user to lock the plug to the receptacle by tightening a screw on the pawl. For added security, a lockout hole is included on the receptacle that enables the user to insert a 5/16" lock or locking pin to prevent the plug from being disconnected or to lock the receptacle lid closed.

See pgs 205-214 for detailed information on these options



# DS60 and DSN150 for Hazardous Environments

## DSN150 metal – catalog info

**DSN150**

### Installation Accessories

Accessories rated for hazardous locations are not returnable.

#### Handles



NPT	Metal Handle	Oversized Metal Handle
3/4"	9H34M	9MH34M
1"	9H1M	9MH1M
1 1/4"	9H114M	9MH114M
1 1/2"	9H112M	9MH112M
2"	9H2M	9MH2M
2 1/2"	-	9MH212M

- Notes:**
- Finger draw plates are recommended for easier connector closure on cord to cord assemblies.
  - For available third party cord grips, consult factory.

#### Angles



Metal 30° Angle	Metal 70° Angle	Metal Straight Adapter
MA10M	89-9A027M	MS10M

#### Junction Boxes



NPT	Metal Box	Metal Box with Metal Angle
1 1/4"	MB10114M	39-9A053-080-114M
1 1/2"	MB10112M	39-9A053-080-112M
2"	MB102M	39-9A053-080-2M
2 1/2"	MB10212M	39-9A053-080-212M

+ Interior volume with receptacle installed.

#### Miscellaneous Accessories



Padlockable Cap Aluminum	Cord Grip with Mesh	Receptacle Locking Pin
DS9MC	consult factory	LP-843

#### NPT Guidelines

Cable Range	NPT	Cable Range	NPT
.312 - .625	1/2"	.890 - 1.812	1 1/2"
.438 - .812	3/4"	1.190 - 2.438	2"
.660 - 1.000	1"	2.062 - 2.438	2 1/2"
.875 - 1.375	1 1/4"		

NPT sizes are determined by the cable diameter and third party cord grip.

#### Accessory Spotlight

##### Receptacle Lockout Pin



A 5/16" lockout pin can be ordered to securely lockout receptacles that include the 'padlockable pawl' option. Alternatively the user can utilize a lock with a 5/16" shank. Locks with smaller shanks will NOT securely lockout a receptacle pawl.

#### Order Example

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



Male Inlet with Handle (Plug)  
69-98043 + 9H1



Female Receptacle with Angle Adapter  
69-94043 + MA10M

HAZARDOUS LOCATION

# DS60 and DSN150 for Hazardous Environments

## faq

### **Where should I sell the new hazardous rated DS60 and DSN150?**

Target industries include oil & gas refineries, chemical plants, and wastewater plants. Please note they are not rated for Class II (dust) environments.

### **Do the Division 2 / Zone 2 rated DS60 and DSN150 have switch ratings or current interruption capability?**

No, the DS60 and DSN150 are NOT suitable for load interruption in hazardous environments. Each receptacle includes a sticker stating DO NOT DISCONNECT UNDER LOAD.

### **Are the Division 2 / Zone 2 rated DS60 and DSN150 horsepower rated?**

Yes, the Division 2 / Zone 2 rated DS60 and DSN150 are horsepower rated but they cannot be used to make and break motor loads in hazardous environments. See catalog pages for horsepower ratings.

### **Are the Division 2 / Zone 2 devices UL listed? or ATEX rated?**

The Division 2 / Zone 2 DS60 and DSN150 are CSA rated. They are not UL listed or ATEX rated.

### **What types of pawls are available with the Division 2 / Zone 2 rated DS60 and DSN150?**

The DS60 and DSN150 are only available with a screw-type locking pawl. The locking pawl is required to obtain the hazardous ratings.

### **Are poly models of the Division 2 / Zone 2 rated DS60 and DSN150 available?**

No, MELTRIC only offers a metal version for Division 2 / Zone 2 environments. A poly version is not available. Additional testing would be required.

## operating instructions

To review operating instructions for the Division 2 / Zone 2 rated DS60 and DSN150 please visit:

**<http://meltric.com/html/instructions.html>**