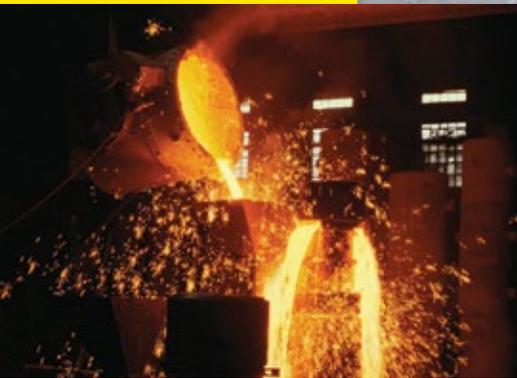


DX



Features and Ratings	p. 190
Certifications and Testing	p. 191
DX Operation	p. 192
DX20	p. 193
DX30	p. 194
DX60	p. 195
DX100	p. 196
Dimensions	p. 197



Hazardous duty rated plugs and receptacles

DX Series plugs and receptacles are heavy duty metallic devices that are a good choice for refineries, petroleum platforms, chemical and pharmaceutical plants, grain silos and other locations where exposure to flammable gases and/or dusts is likely to occur. DX's are ATEX and IECEx rated and they have also been tested and approved by ETL for operation under load in a gaseous environment (14.5% acetylene). This is one of the key performance tests required for UL Class 1, Division 1 products.

Main Advantages

- ▶ Rugged Construction, cost effective design
- ▶ Rated for Zone 1 and Zone 21 applications

Product Features



Dead Front

The 'dead' load-side switching contacts block access to the receptacle and are locked in the open position until an appropriate mating plug is fully inserted. This prevents unintended access to live parts and ensures user safety.

ON & OFF Positions when Mated

The operation of the switching mechanism allows the circuit to be disconnected without removing the plug.

Normally Closed Receptacle Lid

The lid automatically closes to a pre-latched position when the plug is removed. This prevents the entry of dust and debris. The lid must be manually latched to maintain IP 65 protection.

Heavy Duty Aluminum Casing

All components are enclosed in rugged copper free aluminum housings for maximum durability and protection.

Explosion Proof Chamber

The making and breaking of the contacts occurs in an explosion proof chamber, which is specially designed to withstand the pressure generated during arcing and to ensure that no arc, flame or other ignition source can be communicated with the external environment.

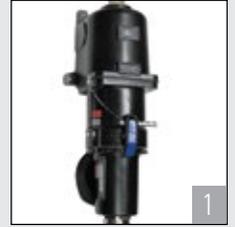
Spring Operated Switching Mechanism

An integral switching mechanism ensures quick-make, quick-break operation, independent of the motion of the user.

Silver-Nickel Butt Contacts

Contact design provides a superior connection, with maximum conductivity, the ability to withstand arcing and oxidation, excellent wear resistance, and a long operating life. A wiping motion during operation also provides a self-cleaning action.

Operating Instructions



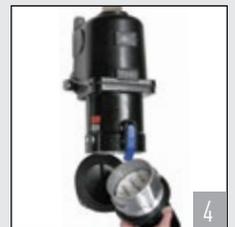
When a DX is connected there is total safety.



Pressing the pawl while turning the plug about 30° counterclockwise causes the circuit to be broken.



Press the pawl while withdrawing the plug from the receptacle. This is done in complete safety because the circuit is already dead.



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

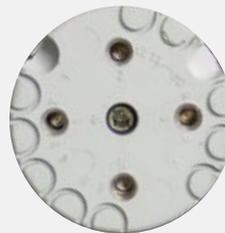
5 To reconnect, insert plug into receptacle fully, then twist the plug approximately 30° clockwise to make the circuit.

General Ratings

Amperage	20 to 100A
Voltage	600 VAC Max
Frequency	50-400 Hz
Environmental	IP65
Temperature	min -13°F/max 140°F* (DX20/DX30) min -40°F/max 140°F* (DX60/DX100)

Highlighted Feature

Dead Front



The dead front on the DX receptacle provides protection from accidental tool and wire insertion.

HAZARDOUS
LOCATION

DX Certifications

Hazardous Duty Certification

ATEX and IECEx

II 2 G/D DUST T85°C* Ex de IIC T6*

II – Indicates suitability for installation in surface applications (as opposed to underground mine applications).

2 – Indicates suitability for use where a high level of protection is required and where the presence of an explosive atmosphere is likely to occur (Zone 1 and Zone 21 environments).

G/D – Indicates suitability for installation in areas that may contain flammable gases, vapors/mists, or dusts.

T85°C* – Indicates a maximum surface temperature of the product of 85°C, at 40°C ambient.

Ex de – Indicates that explosion protection is provided with (e) increased safety in the conductor termination area, and (d) explosion proof chambers for making and breaking the current that can withstand the pressure of internal ignition and that prevent arcs, flame or other ignition events from being communicated to the surrounding atmosphere.

IIC – Indicates suitability for installation in areas where exposure to any type of gas, including the most dangerous subdivision C gases may occur.

T6* – Temperature class – the maximum product surface temperature is 185°F (85°C) for ambient temperature of 104°F (40°C).

ATEX & IECEx certification was performed by LCIE.

* Temperature ratings vary depending on product and ambient temperature. See specific product section for temperature ratings.

Electrical Performance Testing

Key Performance Tests Passed				
Model	Mechanical Endurance	Electrical Endurance ¹	Overload Testing ²	Dielectric Test
DX20	-	5000 Operations	50 Operations	2 x V (rated) + 1000V
DX30	1000 Cycles	1000 Operations	50 Operations	2 x V (rated) + 1000V
DX60	1000 Cycles	1000 Operations	50 Operations	2 x V (rated) + 1000V
DX100	1000 Cycles	1000 Operations	50 Operations	2 x V (rated) + 1000V

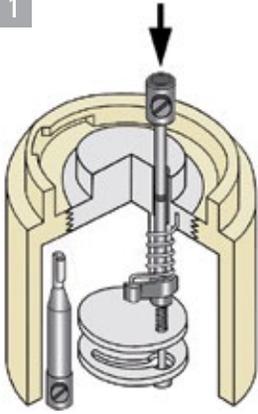
¹ @ 100% of rated current and voltage and 0.6 power factor.

² @ 125% of rated current, 110% of rated voltage, & 0.6 power factor.

DX Operation

Connection

1

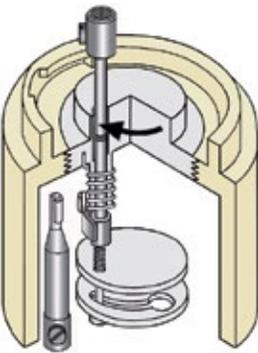


Insertion of the Plug

As the plug contact is inserted, it engages and depresses the 'dead' switching contact.

This releases the locking mechanism. The switching contact is free to operate.

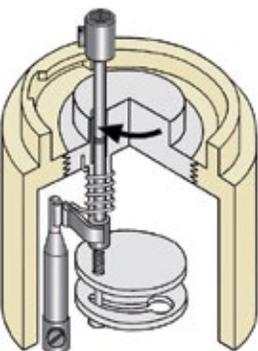
2



Charging the Operating Spring

Clockwise rotation of the inserted plug winds the operating spring and rotates the switching contact into position to engage with the live receptacle contact.

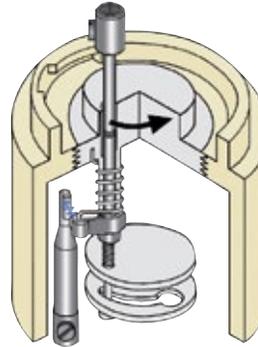
3



Making the Circuit

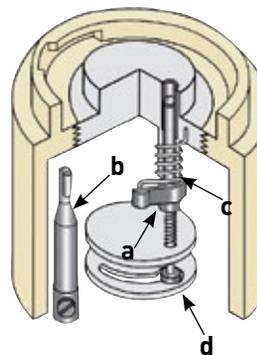
With the final few degrees of rotation, the switching contact is released and force from the spring quickly drives it into engagement with the live receptacle contact.

Disconnection



After depressing the pawl, the plug is rotated in a counter-clockwise direction. This frees the switching contact for operation and the release of the remaining spring tension causes a quick breaking of the contacts. The plug may now be removed, if desired.

Receptacle with Plug Disconnected



- a. **Switching Contact**
Shown in the open (dead) position
- b. **'Live' Receptacle Contact**
Accessibility is denied
- c. **Operating Spring**
Shown with tension released
- d. **Mechanical Locking Device**
Blocks contact operation

DX20



DX – 20A Hazardous Location Plugs & Receptacles

Ratings

- Voltage**
600 VAC
- Environmental Ratings**
IP65
- Temperature Range**
Min -13°F / Max 140°F
- Wiring Capacity**
Min 14 AWG Max 6 AWG
* Based on THHN wire sizes
- Listings**
ATEX, IECEx
- DX20 Ratings Label**

MARECHAL ELECTRIC MAROMME
© I12 G/D Ex de IIC tD A21
-25°C ≤ Ta ≤ +60°C T5 T84°C
-25°C ≤ Ta ≤ +50°C T6 T74°C
IECEX LCI 09.0014/LCIE 05 ATEX 6127

XXX Suffix / Cable Range

XXX (Suffix #)	Cable Range
-20M	.31" - .51"
-25M	.35" - .63"

XX Suffix / NPT Size

NPT Thread Size	XX (Suffix #)
1/2"	-12
3/4"	-34
1"	-1

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

Accessories

	Protective Cap
For Male Devices Only	
Part #	
DX20	26-2A126
	Metal Wall Box
NPT	Part #
1/2"	26-2A023-12
3/4"	26-2A023-34
1"	26-2A023-1

Plug (male inlet w/handle)



Replace XXX or XX with suffix number to indicate desired cable range (see chart)

For international configurations (CE) visit meltric.com/international-catalog or contact customer service at 800.433.7642.

Voltage	Polarity	Part # Metal
120V	1P+N+G	26-21165-XXX
125V	1P+N+G	26-21075-XXX
208V	2P+G	26-21162-XXX
208V	3P+G	26-21163-XXX
208V	3P+N+G	26-21167-XXX
250V	2P+G	26-21072-XXX
250V	3P+G	26-21073-XXX
250V	2P+N+G	26-21076-XXX
277V	1P+N+G	26-21045-XXX
480V	2P+G	26-21042-XXX
480V	3P+G	26-21043-XXX
480V	3P+N+G	26-21047-XXX
600V	3P+G	26-21143-XXX

Inlet w/cap on box (male)



DX devices are not returnable.

or

Voltage	Polarity	Part # Metal
120V	1P+N+G	26-26165-XX
125V	1P+N+G	26-26075-XX
208V	2P+G	26-26162-XX
208V	3P+G	26-26163-XX
208V	3P+N+G	26-26167-XX
250V	2P+G	26-26072-XX
250V	3P+G	26-26073-XX
250V	2P+N+G	26-26076-XX
277V	1P+N+G	26-26045-XX
480V	2P+G	26-26042-XX
480V	3P+G	26-26043-XX
480V	3P+N+G	26-26047-XX
600V	3P+G	26-26143-XX

Connector (female recept w/handle)



or

Receptacle on box (female)



or

Receptacle (female)



Voltage	Polarity	Part # Metal	Part # Metal	Part # Metal
120V	1P+N+G	26-23165-XXX	26-20165-XX	26-24165
125V	1P+N+G	26-23075-XXX	26-20075-XX	26-24075
208V	2P+G	26-23162-XXX	26-20162-XX	26-24162
208V	3P+G	26-23163-XXX	26-20163-XX	26-24163
208V	3P+N+G	26-23167-XXX	26-20167-XX	26-24167
250V	2P+G	26-23072-XXX	26-20072-XX	26-24072
250V	3P+G	26-23073-XXX	26-20073-XX	26-24073
250V	2P+N+G	26-23076-XXX	26-20076-XX	26-24076
277V	1P+N+G	26-23045-XXX	26-20045-XX	26-24045
480V	2P+G	26-23042-XXX	26-20042-XX	26-24042
480V	3P+G	26-23043-XXX	26-20043-XX	26-24043
480V	3P+N+G	26-23047-XXX	26-20047-XX	26-24047
600V	3P+G	26-23143-XXX	26-20143-XX	26-24143

DX – 30A

Hazardous Location Plugs & Receptacles

Plug (male inlet w/handle)



Replace XXX or XX with suffix number to indicate desired cable range (see chart)

Inlet w/cap on box (male)



DX devices are not returnable.

or

For international configurations (CE) visit meltric.com/international-catalog or contact customer service at 800.433.7642.

Voltage	Polarity	Part # Metal
120V	1P+N+G	26-31165-XXX
125V	1P+N+G	26-31075-XXX
208V	2P+G	26-31162-XXX
208V	3P+G	26-31163-XXX
208V	3P+N+G	26-31167-XXX
250V	2P+G	26-31072-XXX
250V	3P+G	26-31073-XXX
250V	2P+N+G	26-31076-XXX
277V	1P+N+G	26-31045-XXX
480V	2P+G	26-31042-XXX
480V	3P+G	26-31043-XXX
480V	3P+N+G	26-31047-XXX
600V	3P+G	26-31143-XXX

Voltage	Polarity	Part # Metal
120V	1P+N+G	26-36165-XX
125V	1P+N+G	26-36075-XX
208V	2P+G	26-36162-XX
208V	3P+G	26-36163-XX
208V	3P+N+G	26-36167-XX
250V	2P+G	26-36072-XX
250V	3P+G	26-36073-XX
250V	2P+N+G	26-36076-XX
277V	1P+N+G	26-36045-XX
480V	2P+G	26-36042-XX
480V	3P+G	26-36043-XX
480V	3P+N+G	26-36047-XX
600V	3P+G	26-36143-XX

Ratings

- **Voltage**
600 VAC
- **Environmental Ratings**
IP65
- **Temperature Range**
Min -13°F/Max 140°F
- **Wiring Capacity**
Min 14 AWG Max 6 AWG
* Based on THHN wire sizes
- **Listings**
ATEX, IECEx
- **DX30 Ratings Label**

MARECHAL ELECTRIC MAROMME
© I12 G/D Ex de IIC tD A21
-25°C ≤ Ta ≤ +60°C T5 T84°C
-25°C ≤ Ta ≤ +50°C T6 T74°C
IECEx LCI 09.0014/LCIE 05 ATEX 6127

XXX Suffix / Cable Range

XXX (Suffix #)	Cable Range
-25M	.35" - .63"
-32M	.47" - .83"

XX Suffix / NPT Size

NPT Thread Size	XX (Suffix #)
1/2"	-12
3/4"	-34
1"	-1

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

Accessories

Protective Cap

For Male Devices Only

Part #
DX30
26-3A126

Metal Wall Box

NPT	Part #
1/2"	26-3A023-12
3/4"	26-3A023-34
1"	26-3A023-1

Connector (female recept w/handle)



Receptacle on box (female)



Receptacle (female)



Voltage	Polarity	Part # Metal
120V	1P+N+G	26-33165-XXX
125V	1P+N+G	26-33075-XXX
208V	2P+G	26-33162-XXX
208V	3P+G	26-33163-XXX
208V	3P+N+G	26-33167-XXX
250V	2P+G	26-33072-XXX
250V	3P+G	26-33073-XXX
250V	2P+N+G	26-33076-XXX
277V	1P+N+G	26-33045-XXX
480V	2P+G	26-33042-XXX
480V	3P+G	26-33043-XXX
480V	3P+N+G	26-33047-XXX
600V	3P+G	26-33143-XXX

Part # Metal
26-30165-XX
26-30075-XX
26-30162-XX
26-30163-XX
26-30167-XX
26-30072-XX
26-30073-XX
26-30076-XX
26-30045-XX
26-30042-XX
26-30043-XX
26-30047-XX
26-30143-XX

Part # Metal
26-34165
26-34075
26-34162
26-34163
26-34167
26-34072
26-34073
26-34076
26-34045
26-34042
26-34043
26-34047
26-34143

DX60



DX - 60A Hazardous Location Plugs & Receptacles

Ratings

- Voltage**
600 VAC
- Environmental Ratings**
IP65
- Temperature Range**
Min -40°F / Max 140°F
- Wiring Capacity**
Min 8 AWG Max 2 AWG
* Based on THHN wire sizes
- Listings**
ATEX, IECEx
- DX60 Ratings Label**

MARECHAL ELECTRIC MAROMME
 Ⓢ II2 G/D Ex de IIC tD A21
 -40°C ≤ Ta ≤ +60°C T5 T90°C
 -40°C ≤ Ta ≤ +50°C T6 T80°C
 IECEx LCI 09.0015/LCIE 04 ATEX 6038

Plug (male inlet w/handle)

Replace XXX or XX with suffix number to indicate desired cable range (see chart)



or

Inlet w/cap on box (male)



DX devices are not returnable.

For international configurations (CE) visit meltric.com/international-catalog or contact customer service at 800.433.7642.

Voltage	Polarity	Part # Metal	Voltage	Polarity	Part # Metal
120V	1P+N+G	26-61165-XXX	120V	1P+N+G	26-66165-XX
125V	1P+N+G	26-61075-XXX	125V	1P+N+G	26-66075-XX
208V	2P+G	26-61162-XXX	208V	2P+G	26-66162-XX
208V	3P+G	26-61163-XXX	208V	3P+G	26-66163-XX
208V	3P+N+G	26-61167-XXX	208V	3P+N+G	26-66167-XX
250V	2P+G	26-61072-XXX	250V	2P+G	26-66072-XX
250V	3P+G	26-61073-XXX	250V	3P+G	26-66073-XX
250V	2P+N+G	26-61076-XXX	250V	2P+N+G	26-66076-XX
277V	1P+N+G	26-61045-XXX	277V	1P+N+G	26-66045-XX
480V	2P+G	26-61042-XXX	480V	2P+G	26-66042-XX
480V	3P+G	26-61043-XXX	480V	3P+G	26-66043-XX
480V	3P+N+G	26-61047-XXX	480V	3P+N+G	26-66047-XX
600V	3P+G	26-61143-XXX	600V	3P+G	26-66143-XX

XXX Suffix / Cable Range

XXX (Suffix #)	Cable Range
-32M	.47" - .83"
-40M	.63" - 1.06"

XX Suffix / NPT Size

NPT Thread Size	XX (Suffix #)
1"	-1
1 1/4"	-114
1 1/2"	-112
2"	-2

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

Connector (female recept w/handle) Receptacle on box (female) Receptacle (female)



or



or



Accessories



Protective Cap

For Male Devices Only

Part #

DX60 26-6A126



Metal Wall Box

NPT

Part #

1" 26-6A023-1

1 1/4" 26-6A023-114

1 1/2" 26-6A023-112

2" 26-6A023-2

Voltage	Polarity	Part # Metal	Part # Metal	Part # Metal
120V	1P+N+G	26-63165-XXX	26-60165-XX	26-64165
125V	1P+N+G	26-63075-XXX	26-60075-XX	26-64075
208V	2P+G	26-63162-XXX	26-60162-XX	26-64162
208V	3P+G	26-63163-XXX	26-60163-XX	26-64163
208V	3P+N+G	26-63167-XXX	26-60167-XX	26-64167
250V	2P+G	26-63072-XXX	26-60072-XX	26-64072
250V	3P+G	26-63073-XXX	26-60073-XX	26-64073
250V	2P+N+G	26-63076-XXX	26-60076-XX	26-64076
277V	1P+N+G	26-63045-XXX	26-60045-XX	26-64045
480V	2P+G	26-63042-XXX	26-60042-XX	26-64042
480V	3P+G	26-63043-XXX	26-60043-XX	26-64043
480V	3P+N+G	26-63047-XXX	26-60047-XX	26-64047
600V	3P+G	26-63143-XXX	26-60143-XX	26-64143

DX – 100A

Hazardous Location Plugs & Receptacles

Plug (male inlet w/handle)



Replace XXX or XX with suffix number to indicate desired cable range (see chart)

or

Inlet w/cap on box (male)



DX devices are not returnable.

For international configurations (CE) visit meltric.com/international-catalog or contact customer service at 800.433.7642.

Voltage	Polarity	Part # Metal
120V	1P+N+G	26-91165-XXX
125V	1P+N+G	26-91075-XXX
208V	2P+G	26-91162-XXX
208V	3P+G	26-91163-XXX
208V	3P+N+G	26-91167-XXX
250V	2P+G	26-91072-XXX
250V	3P+G	26-91073-XXX
250V	2P+N+G	26-91076-XXX
277V	1P+N+G	26-91045-XXX
480V	2P+G	26-91042-XXX
480V	3P+G	26-91043-XXX
480V	3P+N+G	26-91047-XXX
600V	3P+G	26-91143-XXX

Voltage	Polarity	Part # Metal
120V	1P+N+G	26-96165-XX
125V	1P+N+G	26-96075-XX
208V	2P+G	26-96162-XX
208V	3P+G	26-96163-XX
208V	3P+N+G	26-96167-XX
250V	2P+G	26-96072-XX
250V	3P+G	26-96073-XX
250V	2P+N+G	26-96076-XX
277V	1P+N+G	26-96045-XX
480V	2P+G	26-96042-XX
480V	3P+G	26-96043-XX
480V	3P+N+G	26-96047-XX
600V	3P+G	26-96143-XX

Ratings

- **Voltage**
600 VAC
- **Environmental Ratings**
IP65
- **Temperature Range**
Min -40°F / Max 140°F
- **Wiring Capacity**
Min 4 AWG Max 2 AWG
* Based on THHN wire sizes
- **Listings**
ATEX, IECEx
- **DX100 Ratings Label**

MARECHAL ELECTRIC MAROMME
 Ⓢ I12 G/D Ex de IIC tD A21
 -40°C ≤ Ta ≤ +60°C T5 T90°C
 -40°C ≤ Ta ≤ +50°C T6 T80°C
 IECEx LCI 09.0015/LCIE 04 ATEX 6038

XXX Suffix / Cable Range

XXX (Suffix #)	Cable Range
-32M	.47" - .83"
-40M	.63" - 1.06"
-50M	.91" - 1.38"
-63M	1.42" - 1.89"

Connector (female recept w/handle)



Receptacle on box (female)



Receptacle (female)



XX Suffix / NPT Size

NPT Thread Size	XX (Suffix #)
1"	-1
1 1/4"	-114
1 1/2"	-112
2"	-2

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

Voltage	Polarity	Part # Metal
120V	1P+N+G	26-93165-XXX
125V	1P+N+G	26-93075-XXX
208V	2P+G	26-93162-XXX
208V	3P+G	26-93163-XXX
208V	3P+N+G	26-93167-XXX
250V	2P+G	26-93072-XXX
250V	3P+G	26-93073-XXX
250V	2P+N+G	26-93076-XXX
277V	1P+N+G	26-93045-XXX
480V	2P+G	26-93042-XXX
480V	3P+G	26-93043-XXX
480V	3P+N+G	26-93047-XXX
600V	3P+G	26-93143-XXX

Part # Metal	Part # Metal	Part # Metal
26-90165-XX	26-90165-XX	26-94165
26-90075-XX	26-90075-XX	26-94075
26-90162-XX	26-90162-XX	26-94162
26-90163-XX	26-90163-XX	26-94163
26-90167-XX	26-90167-XX	26-94167
26-90072-XX	26-90072-XX	26-94072
26-90073-XX	26-90073-XX	26-94073
26-90076-XX	26-90076-XX	26-94076
26-90045-XX	26-90045-XX	26-94045
26-90042-XX	26-90042-XX	26-94042
26-90043-XX	26-90043-XX	26-94043
26-90047-XX	26-90047-XX	26-94047
26-90143-XX	26-90143-XX	26-94143

Accessories

	Protective Cap
For Male Devices Only	Part #
DX100	26-9A126
	Metal Wall Box
NPT	Part #
1"	26-9A023-1
1 1/4"	26-9A023-114
1 1/2"	26-9A023-112
2"	26-9A023-2