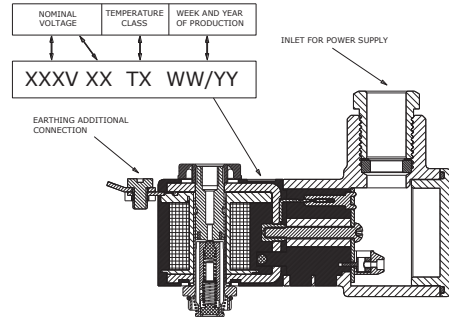


Coil Type 30XDM INSTRUCTIONS



The 30XDM Exdm coils are developed to fit Amisco operators. If a different operator is used, make sure that the coil powered with nominal voltage does not show a power consumption exceeding the values mentioned above. In any case, before giving its approval, Amisco has to carry out consumption and thermic tests on the operator specimen; on the contrary these tests will be conducted by the Client himself who has to inform Amisco about the results obtained. In this case the Client will also be responsible for eventual malfunctionings incurred by using non-tested operators. Week and year of production of the complete coil are printed on the upper side of the solenoid, as showed in the above drawing.

The coil has also an additional external connecting unit for the earth connection or for the equipotential bonding connection.

INFORMATION FOR USE:

The 30XDM Exdm coils are approved for installation in areas in which explosive atmospheres caused by air/gas mixture are likely to occur and, in those areas, sparks produced by electrostatic charges could cause explosions.

During installation, maintenance and use it is mandatory to take preventive measures to avoid electrostatic discharges.

In particular, during the installation and maintenance operations it is recommended:

- To discharge their own electrostatic charge by touching grounded metal parts:

- To avoid rubbing the surface of the case;

- To use dissipative shoes and/or equivalent equipment;

- To use wet cloths or antistatic products to clean the coil surface.

- Do not open the cover when energized.

- Electrical installation should only be performed by qualified personnel.

The electrical connection is done in the connection box on connector terminals. The introduction of the cable into the connection box passes through the built-in Cable Gland.

Utilize a cable with a minimum diameter of 6mm (0.236") and a maximum diameter of 8mm (0.315").

The coil is Certified with the Cable Gland and Cable Clamp annexed. In case of utilizing of different components, be sure that they are ATEX certified and that satisfies the ambient thermal condition.

The coil is NOT a resetting device. When a failure occurs and the internal thermal protection break off, the coil is no longer functioning.

The integrated o-ring (Ø30x1.5mm), the Cable gland and the 4 cover attachment screws assure the compliance with IP66 requirements. Take particular attention to avoid dirty or dust in these areas during the operation of assembling/dis-assembling.

The replacement of the 4 cover screws is not allowed.

In case of necessity, please contact AMISCO to define the correct ones.

Amisco declines all responsibility in the event of non-compliance with the prescribed instructions.

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MANUFACTURER NAME: AMISCO S.p.A.
ADDRESS: via Piaggio, 70 - Paderno D. - MI - ITALY
WEB SITE: www.amisco.it
TYPE: 30XDM
N° N.B.: 0722
GROUP: II
CATEGORY: 2G and 2D
GAS AND COMBUSTIBLE DUST ATMOSPHERE EQUIPMENT
EXPLOSION PROTECTION FOR:
- GAS ATMOSPHERE encapsulation "m", level "mb"
flameproof enclosure "d"
enclosure "t", level "tb"
TUV IT 13 ATEX 040X Rev. 1
CERTIFICATE NUMBER: TÜV IT 13 ATEX 040X Rev. 1
VOLTAGE TOLERANCE: ±10%
DUTY CYCLE: 100% ED
AMBIENT TEMPERATURE: -20°C ÷ +50°C

ELECTRICAL DATA:

DC solenoids

Coil		Vn	f	I	P	Temp.Class	
Type	Code	[V]	[Hz]	[A]	[W]	GAS	DUST
30XDM	30XDMD006W700	6	-	0.429	2,5	T6	80°C
30XDM	30XDMD012W700	12	-	0.207	2,5	T6	80°C
30XDM	30XDMD024W700	24	-	0.104	2,5	T6	80°C
30XDM	30XDMD048W700	48	-	0.052	2,5	T6	80°C
30XDM	30XDMD006W300	6	-	0.510	3	T5	95°C
30XDM	30XDMD012W300	12	-	0.250	3	T5	95°C
30XDM	30XDMD024W300	24	-	0.125	3	T5	95°C
30XDM	30XDMD048W300	48	-	0.063	3	T5	95°C
30XDM	30XDMD006W400	6	-	0.640	3,8	T4	130°C
30XDM	30XDMD012W400	12	-	0.320	3,8	T4	130°C
30XDM	30XDMD024W400	24	-	0.160	3,8	T4	130°C
30XDM	30XDMD048W400	48	-	0.080	3,8	T4	130°C

AC solenoids

Coil		Vn	f	I	P	Temp.Class	
Type	Code	[V]	[Hz]	[A]	[VA]	GAS	DUST
30XDM	30XDMA012W200	12	50/60	0.2700	3.2	T5	95°C
30XDM	30XDMA024W200	24	50/60	0.1330	3.2	T5	95°C
30XDM	30XDMA048W200	48	50/60	0.0670	3.2	T5	95°C
30XDM	30XDMA100W200	100	50/60	0.0320	3.2	T5	95°C
30XDM	30XDMA110W200	110	50/60	0.0290	3.2	T5	95°C
30XDM	30XDMA115W200	115	50/60	0.0280	3.2	T5	95°C
30XDM	30XDMA120W200	120	50/60	0.0270	3.2	T5	95°C
30XDM	30XDMA220W200	220	50/60	0.0146	3.2	T5	95°C
30XDM	30XDMA230W200	230	50/60	0.0140	3.2	T5	95°C
30XDM	30XDMA240W200	240	50/60	0.0134	3.2	T5	95°C

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Definitions and Symbols

Our Marking

II 2G Ex db mb IIC Tx Gb
II 2D Ex tb IIIC Tx°C Db IP66

Where:



Specific marking of Explosion Protection

II: Group II - Electrical apparatus for places with a potentially explosive atmosphere, other than mines susceptible to fire damp.

2: Category 2 - see the board below.

G: Explosive gas atmospheres.

D: Explosive atmosphere in the presence of combustible dust.

Ex: The symbol Ex which indicates that the electrical apparatus corresponds to one of the protection type (EN 60079 - 0).

db: Type of protection for gas - enclosure "d", level "db".

mb: Type of protection for gas - encapsulation "m", level "mb".

tb: Type of protection for explosive dust atmospheres - protection by enclosure.

IIC: Electrical equipment of Group II is subdivided according to the nature of the explosive gas atmospheres - IIC, a typical gas is hydrogen.

IIIC: Electrical equipment of Group III is subdivided according to the nature of the explosive dust atmospheres - IIIC, conductive dust.

Tx: Temperature class: T4, T5 or T6 for Gas and T130°C, T95°C or T80°C for Dust.

Gb: Equipment protection level [EPL] for explosive gas atmospheres.

Db: Equipment protection level [EPL] for explosive dust atmospheres.

IP66: International Protection [IEC 60529].

The degrees of protection provided by an enclosure against, ingress of solid foreign objects, dust (first number) and water (second number).

Zone	Category	Description
1 and 2	2G	Equipment in this category is intended for use in areas in which explosive atmospheres caused by air/gas mixture are likely to occur.
21 and 22	2D	Equipment in this category is intended for use in areas in which explosive atmospheres caused by air/dust mixtures are likely to occur.

Paderno Dugnano, May 22, 2020

Ing. Emanuele Mauri
Authorized Person

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REV 05/20

Exdm



Coil Type 30XDM

UE DECLARATION OF CONFORMITY



EU DECLARATION OF CONFORMITY
COIL 30XDM
II 2G Ex db mb IIC Tx Gb
II 2D Ex tb IIIC Tx°C Db IP66
to be used in potentially explosive atmosphere

We, AMISCO S.p.A.
Sited in Via Piaggio 70, 20037,
Paderno Dugnano [Milan] - ITALY
Web site: www.amisco.it
declare under our sole responsibility that the product:

DC solenoids

Coil		Vn	f	I	P	Temp.Class	
Type	Code	[V]	[Hz]	[A]	[W]	GAS	DUST
30XDM	30XDMD006W700	6	-	0.429	2,5	T6	80°C
30XDM	30XDMD012W700	12	-	0.207	2,5	T6	80°C
30XDM	30XDMD024W700	24	-	0.104	2,5	T6	80°C
30XDM	30XDMD048W700	48	-	0.052	2,5	T6	80°C
30XDM	30XDMD006W300	6	-	0.510	3	T5	95°C
30XDM	30XDMD012W300	12	-	0.250	3	T5	95°C
30XDM	30XDMD024W300	24	-	0.125	3	T5	95°C
30XDM	30XDMD048W300	48	-	0.063	3	T5	95°C
30XDM	30XDMD006W400	6	-	0.640	3,8	T4	130°C
30XDM	30XDMD012W400	12	-	0.320	3,8	T4	130°C
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30XDM	30XDMD048W400	48	-	0.080	3,8	T4	130°C

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DC solenoids

Coil		Vn	f	I	P	Temp.Class	
Type	Code	[V]	[Hz]	[A]	[VA]	GAS	DUST
30XDM	30XDMA012W200	12	50/60	0.2700	3.2	T5	95°C
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30XDM	30XDMA048W200	48	50/60	0.0670	3.2	T5	95°C
30XDM	30XDMA100W200	100	50/60	0.0320	3.2	T5	95°C
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30XDM	30XDMA120W200	120	50/60	0.0270	3.2	T5	95°C
30XDM	30XDMA220W200	220	50/60	0.0146	3.2	T5	95°C
30XDM	30XDMA230W200	230	50/60	0.0140	3.2	T5	95°C
30XDM	30XDMA240W200	240	50/60	0.0134	3.2	T5	95°C

V_n = nominal voltage
f = frequency
I = nominal current
P = nominal power

Voltage Tolerance range on nominal values: ± 10%

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To which this declaration relates, it is in conformity with the provisions of the following directives:

- 2014/34/UE [ATEX]
- 2014/35/UE [LV]
- 2011/65/UE [RoHS]

and it's produced and tested with reference (if applicable) to the following harmonized standards:

- EN 12100 [2010]
- EN 1127-1 [2011]
- EN 60204-1 [2006]
- EN 60664-1 [2007]
- VDE 0580 [2011]
- EN 60079-0 [2012]
- EN 60079-1 [2014]
- EN 60079-18 [2015]
- EN 60079-31 [2014]

Certified by TÜV Italia:

TÜV IT 13 ATEX 040 X Rev.1

Body responsible for supervision:

CESI 0722 with Notification CESI 03 ATEX 075Q

Paderno Dugnano, May 22, 2020

Ing. Emanuele Mauri
Authorized Person

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