

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 Coils

Coil		Vn	f	I	P	Temp.Class		NOTE
Type	Code	Vn [Hz]	[A]	[W]	GAS	DUST		
3009M	3009MD006W(X)	6	-	0.429	2.5	T6	80°C	LEGENDA: X: 7 → coil with PVC cable 8 → coil with Halogen Free cable (Silicone)
3009M	3009MD012W(X)	12	-	0.207	2.5	T6	80°C	
3009M	3009MD024W(X)	24	-	0.104	2.5	T6	80°C	
3009M	3009MD048W(X)	48	-	0.052	2.5	T6	80°C	
3009M	3009MD006W(Y)	6	-	0.510	3	T5	95°C	LEGENDA: Y: 3 → coil with PVC cable 5 → coil with Halogen Free cable (Silicone)
3009M	3009MD012W(Y)	12	-	0.250	3	T5	95°C	
3009M	3009MD024W(Y)	24	-	0.125	3	T5	95°C	
3009M	3009MD048W(Y)	48	-	0.063	3	T5	95°C	
3009M	3009MD006W4	6	-	0.640	3.8	T4	130°C	LEGENDA: coil with Halogen Free cable (Silicone)
3009M	3009MD012W4	12	-	0.320	3.8	T4	130°C	
3009M	3009MD024W4	24	-	0.160	3.8	T4	130°C	
3009M	3009MD048W4	48	-	0.080	3.8	T4	130°C	

AC Coils

Coil		Vn	f	I	P	Temp.Class		NOTE
Type	Code	[V]	[Hz]	[A]	[VA]	GAS	DUST	
3009M	3009MA012W(X)	12	50/60	0.2700	3.2	T5	95°C	LEGENDA: X: 2 → coil with PVC cable 6 → coil with Halogen Free cable (Silicone)
3009M	3009MA024W(X)	24	50/60	0.1330	3.2	T5	95°C	
3009M	3009MA048W(X)	48	50/60	0.0670	3.2	T5	95°C	
3009M	3009MA100W(X)	100	50/60	0.0320	3.2	T5	95°C	
3009M	3009MA110W(X)	110	50/60	0.0290	3.2	T5	95°C	
3009M	3009MA115W(X)	115	50/60	0.0280	3.2	T5	95°C	
3009M	3009MA120W(X)	120	50/60	0.0270	3.2	T5	95°C	
3009M	3009MA220W(X)	220	50/60	0.0146	3.2	T5	95°C	
3009M	3009MA230W(X)	230	50/60	0.0140	3.2	T5	95°C	
3009M	3009MA240W(X)	240	50/60	0.0134	3.2	T5	95°C	

Vn = nominal voltage f = frequency I = nominal current P = nominal power Voltage Tolerance range: ± 10%

to which this declaration relates, it is in conformity with the essential requirements of the following directives:

- 2014/34/EU [ATEX] · 2011/65/EU [RoHS]

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

- EN 12100 [2010] · EN IEC 60079-0 [2018]
- EN 1127-1 [2019] · EN 60079-18 [2015+A1:2017]
- EN 60204-1 + EC [2018] · EN 60079-31 [2014]
- EN 60664-1 [2007] · VDE 0580 [2011]

EU-Type Examination Certificate n. TUV IT 13 ATEX 030X released by TUV Italia (No. Bo. 0948)
Notified Body responsible for EU Surveillance: CESI 0722 - Notification n. CESI 03 ATEX 075 Q

Paderno Dugnano, May 2nd, 2024

Ing. Emanuele Mauri
Authorized Person

Coil Type 3009M DECLARATION OF CONFORMITY



ISTDICEXM01

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Vn = nominal voltage f = frequency I = nominal current P = nominal power Voltage Tolerance range: ± 10%

to which this declaration relates, it is in conformity with the essential requirements of the IEC Ex Scheme and it's produced and tested with reference (if applicable) to the following standards:

- IEC 60079-0 [2017] · IEC 60079-18 [2018]
- IEC 60079-31 [2013]

IECEx Certificate of Conformity n. IECEx IMQ 22.0004X released by IMQ
Istituto Italiano del Marchio di Qualità S.p.A.

Notified Body responsible for the Quality Assessment Report Summary: CESI Ex-C0018882

Paderno Dugnano, May 2nd, 2024

Ing. Emanuele Mauri
Authorized Person

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:

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3009M	3009MA240W(X)	240	50/60	0.0134	3.2	T5	95°C	

Vn = nominal voltage f = frequency I = nominal current P = nominal power Voltage Tolerance range: ± 10%

to which this declaration relates, it is in conformity with the requirements of implementation rules for China Compulsory Certification:

CNCA-C23-01:2019

and it's produced and tested with reference to the following standards:

- GB/T 3836.1 [2021] · GB 12476.1 [2013]
- GB/T 3836.9 [2021] · GB 12476.5 [2013]
- GB/T 3836.31 [2021]

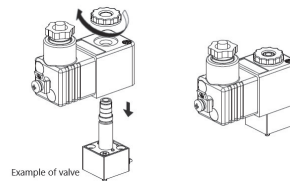
Certificate for China Compulsory product Certification n° 2024322307005852 released by NEPSI

Paderno Dugnano, May 2nd, 2024

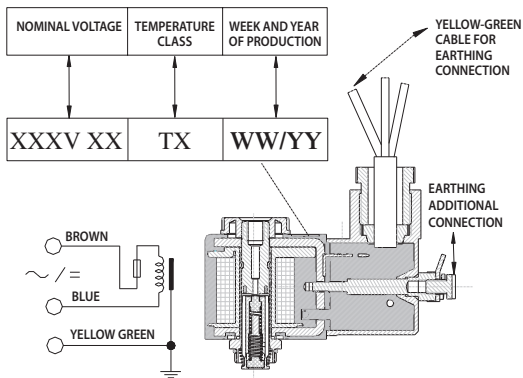
Ing. Emanuele Mauri
Authorized Person

The coil 3009M Exm is developed to fit Amisco operators/valves. 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 below.

In the following picture is reported an example of assembly on Amisco 22mm valve.



Coil Type 3009M INSTRUCTIONS



ISTDICEXM01

1/4

In any case, before giving its approval, Amisco has to carry 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 malfunctioning incurred by using non-tested operators.

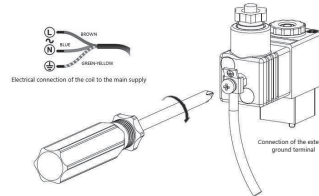
Week and year of production of the complete coil are printed on the upper side of the solenoid, as shown in the above drawing.

The output cable of the solenoid consists of a brown-coloured lead, of a blue one and of a yellow-green one. The brown and blue leads are the coil power supply while the yellow-green one, that is connected to all the conductive accessible parts of the coil, is the earth connecting.

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

INFORMATION FOR USE

- 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 electrical connection between solenoid and electric installation has to be performed in compliance with IEC 60079-14.
- The device is designed to be installed in an electrical supply network where the rated voltage does not exceed 250V (where the prospective short-circuit fault current is usually 1500A).
- Equipment designed for fixed installation.
- Equipment not intended to be physically connected to a separate external source of heating or cooling.
- The coil is equipped with an external ground connection. It is recommended to make the connection to the terminal located on the front part of the coil with a cable with a minimum section of 4mm². The connection has an anti-unscrewing system and is made of stainless steel to avoid corrosive phenomena.



2/4

MANUFACTURER NAME: AMISCO S.p.A.
 ADDRESS: via Piaggio, 70 - Paderno D. - MI - ITALY
 EQUIPMENT: Electrical coil
 TYPE: 3009M
 N° N.B.: 0722
 GROUP: II
 CATEGORY: 2G and 2D
 GAS AND COMBUSTIBLE DUST ATMOSPHERE EQUIPMENT

EXPLOSION PROTECTION FOR:
 - GAS ATMOSPHERE
 - COMBUSTIBLE DUST
 ATEX CERTIFICATE NUMBER: Encapsulation "m", level mb
 IECEx CERTIFICATE NUMBER: TÜV IT 13 ATEX 030 X Rev. 2
 CCC CERTIFICATE NUMBER: IECEx IMQ 22.0004 X
 VOLTAGE TOLERANCE: ±10%
 DUTY CYCLE: 100% ED
 AMBIENT TEMPERATURE: -20°C + +50°C

ELECTRICAL DATA: The devices are designed to be installed in an electrical supply network where the rated voltage does not exceed 250V. The prospective short-circuit fault current is considered to be lower than 1500A. The switching device must have adequate breaking capacity.

DC solenoids

Coil Type	Coil Code	Vn [V]	f [Hz]	I [A]	P [W]	Temp. Class	NOTE
3009M	3009MD006W(X)	6	-	0.429	2,5	T6 80°C	LEGENDA: X: 7 → coil with PVC cable 8 → coil Halogen Free cable (Silicone)
3009M	3009MD012W(X)	12	-	0.207	2,5	T6 80°C	
3009M	3009MD024W(X)	24	-	0.104	2,5	T6 80°C	
3009M	3009MD048W(X)	48	-	0.052	2,5	T6 80°C	
3009M	3009MD006W(Y)	6	-	0.510	3	T5 95°C	LEGENDA: Y: 3 → coil with PVC cable 5 → coil Halogen Free cable (Silicone)
3009M	3009MD012W(Y)	12	-	0.250	3	T5 95°C	
3009M	3009MD024W(Y)	24	-	0.125	3	T5 95°C	
3009M	3009MD048W(Y)	48	-	0.063	3	T5 95°C	
3009M	3009MD006W4	6	-	0.640	3,8	T4 130°C	
3009M	3009MD012W4	12	-	0.320	3,8	T4 130°C	
3009M	3009MD024W4	24	-	0.160	3,8	T4 130°C	
3009M	3009MD048W4	48	-	0.080	3,8	T4 130°C	

AC solenoids

Coil Type	Coil Code	Vn [V]	f [Hz]	I [A]	P [W]	Temp. Class	NOTE
3009M	3009MA012W(X)	12	50/60	0.2700	3,2	T5 95°C	LEGENDA: X: 2 → coil with PVC cable 6 → coil Halogen Free cable (Silicone)
3009M	3009MA024W(X)	24	50/60	0.1330	3,2	T5 95°C	
3009M	3009MA048W(X)	48	50/60	0.0670	3,2	T5 95°C	
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3009M	3009MA115W(X)	115	50/60	0.0280	3,2	T5 95°C	
3009M	3009MA120W(X)	120	50/60	0.0270	3,2	T5 95°C	
3009M	3009MA220W(X)	220	50/60	0.0146	3,2	T5 95°C	
3009M	3009MA230W(X)	230	50/60	0.0140	3,2	T5 95°C	
3009M	3009MA240W(X)	240	50/60	0.0134	3,2	T5 95°C	

3/4

Definitions and Symbols

This marking is only representative

- Where:
- CE**: CE marking of conformity
 - 0722**: Number of Notified Body who checks the production (Cat. 2 - Directive 2014/34/UE)
 - Ex**: Specific marking of Explosion Protection.
 - II**: Group II - Electrical apparatus for places with a potentially explosive atmosphere, other than mines susceptible to fire damp.
 - Ex**: The symbol Ex which indicates that the electrical apparatus corresponds to one of the protection type (EN 60079 - 0; EN 60079 - 1; GB 3836.1).
 - 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/T6 for Gas.
 - Tx°C**: Maximum surface temperature T130°C/T95°C/T80°C for Dust.
 - Gb**: Equipment protection level [EPL] for explosive gas atmospheres.
 - Db**: Equipment protection level [EPL] for explosive dust atmospheres.
 - IP66**: Degree of Protection [IEC 60529].
 - TUV IT 13 ATEX 030**: EU-Type Examination Certificate number.
 - IECEx IMQ 22.0004**: IECEx Certificate number.
 - X**: Specific condition of use.
 - CCC**: China Compulsory Certification.
 - Ex**: The symbol Ex which indicates that the electrical apparatus corresponds to one of the protection types (GB 3836.1)..



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.

Specific condition of use "X"

- User has to periodically clean the enclosure in order to avoid a dust deposit higher than 5 mm.
- Potential electrostatic charging hazard, clean only with wet cloth or antistatic products.
- The free end of the supply cable shall be connected in a safe zone or inside a Certified enclosure with a type of protection suitable for the explosive atmosphere.
- The equipment shall be protected by a suitable device (placed in a safe zone or inside a Certified enclosure with a type of protection suitable for the explosive atmosphere) capable of interrupt the maximum fault current of the circuit in which it is installed.

4/4

Coil Type EVI 7 Ex INSTRUCTIONS



INSTRUCTIONS

Manufacturer Name:	Amisco S.p.a.
Web Site:	www.amisco.it
Address:	Via Piaggio, 70 - Paderno D. - Mi - Italy
Type:	EVI 7 Ex
Group:	II
Category:	3G and 3D
GAS AND COMBUSTIBLE DUST ATMOSPHERE EQUIPMENT	
Explosion protection for:	
- Gas Atmosphere	Protection "e", Level "ec" (increased safety)
- Combustible Dust	Enclosure "t", Level tc
Voltage Tolerance:	±10%
Duty Cycle:	100% ED
Ambient Temperature:	-10°C ≤ Ta ≤ +50°C

ASSEMBLY CONDITIONS

- The connector must guarantee IP65 protection (complying to IEC 60529)
- The M3x31 screw must be tight with a maximum torque of 0.6 Nm.
- Assembling and commissioning must only be carried out by qualified and authorized persons.
- Install away from heat sources that can affect its thermal class.
- Make sure that the assembly is done in clean conditions.

INFORMATION FOR SAFE USE AND RESIDUAL RISKS

Before installing and using product, read carefully the following notes:

Respect of maintenance indications:

It is requested to follow carefully the indications about maintenance reported in the paragraph "PERIODICAL INSPECTION AND MAINTENANCE", with particular reference about product cleaning. If it is not respected, it could cause an overheating, and an ignition source for explosion could be created.

Use not allowed of product:

It is requested to use the product at ambient conditions indicated in general information, reported below:
- Tmin and Tmax: -10°C and +50°C
- Voltage tolerance ±10% of Nominal Voltage

A use not in compliance with the conditions reported above could cause an ignition source.

The devices are not resistant to exposure to direct sunlight or exposure to other sources of UV radiations for extended periods. If necessary, provide the use of suitable protective shield and proper measure to prevent their removal. Do not energize the coil if not correctly assembled with its own valve; incorrect assembly can increase power absorption and therefore generate abnormal overheating.

Product encapsulation deterioration, due to mechanical impact:

Coil encapsulation in plastic material is a protection system from explosion. It is therefore required to install the product in a zone protected from mechanical impacts.

Product wrong connection or disconnection:

In order to prevent the creation of electrical arcs, it is necessary to connect and disconnect the product when power supply off and when explosive atmosphere is not present.



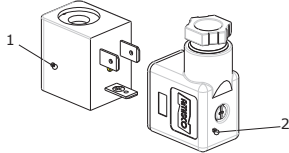
PERIODICAL INSPECTION AND MAINTENANCE

In order to prevent failures and risks, respect the following indications:

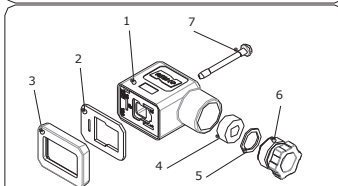
CONTROL DESCRIPTION	FREQUENCY
Verify visually integrity of the product surface. If the product is damaged, deformed or has been corrupted by any modification from original shape and aspect, substitute it.	Weekly
Clean the surface with wet clothes or antistatic products with power supply switched off, in order to prevent electrostatic charges.	Weekly

ASSEMBLY CONDITIONS

The connector must guarantee IP65 protection (complying to IEC60529)



Position	Designation	Quantity
2	Connector	1
1	Coil EVI7-Ex	1



Position	Designation	Quantity
7	M3x31 Mounting screw	1
6	Strain relief	1
5	Washer	1
4	Locking gland	1
3	Integrated "self retaining" front gasket	1
2	Rubber seal	1
1	Connector body	1



ATEX Marking

Product is designed and constructed to respond on requirements of **Group II and Category 3** (as defined by Directive 2014/34/EU) to be used in the following zones, in compliance to Directive 99/92/EC:

Zone (Dir. 99/92/EC)	Category (Dir. 2014/34/EU)	Description
2	3G	Equipment in category 3 is intended for use in areas in which explosive atmospheres caused by gases, vapors, mists, or air/dust mixtures are unlikely to occur or, if they do occur, are likely to do so only infrequently and for a short period only. Equipment in this category ensures the requisite level of protection during normal operation.
22	3D	

The resulting Marking is:

II 3G Ex ec IIC Tx Gc
II 3D Ex tc IIIC Tx°C Dc

Where:

	Specific marking of explosion protection
II:	Group II - Electrical apparatus for places with a potentially explosive atmosphere, other than mines susceptible to firedamp
3:	Category 3 - see the board above
G:	Explosive gas atmospheres
D:	Explosive atmosphere in the presence of combustible dust
Ex:	The symbol Ex indicates that the electrical apparatus corresponds to one of the protection type reported in EN 60079 - 0
ec:	Type of protection for explosive gas atmospheres - increased safety
tc:	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: T5/T6 for Gas, T 95°C / 80°C for Dust
Gc:	Equipment protection level [EPL] for explosive gas atmospheres
Dc:	Equipment protection level [EPL] for explosive dust atmospheres

Paderno Dugnano, December 11, 2022

Authorized Person
Ing. Emanuele Mauri

EU DECLARATION OF CONFORMITY

We declare under our sole responsibility that the product:

Coil type: EVI 7 Ex
II 3G Ex ec IIC Tx Gc
II 3D Ex tc IIC Tx°C Dc

Nominal voltage: up to 240V

Nominal Power: up to 6.5W [DC] or 8.5VA [AC]

Ambient temperature: -10°C ÷ +50°C

Tolerance range on nominal values: ± 10%

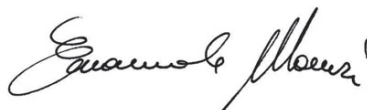
Type of connection and other information are available on Amisco catalogue or on request.

Is in conformity with the following directives:

- ***2014/34/EU [ATEX]***
- ***2011/65/EU [RoHS]***

With reference (if applicable) to the following harmonized standards:

- **EN 1127-1 [2019]**
- **EN 60204-1+EC [2018]**
- **VDE 0580 [2011]**
- **EN IEC 60664-1 [2020]**
- **EN IEC 60079-0 [2018]**
- **EN 60079-7 [2015]**
- **EN 60079-31 [2014]**

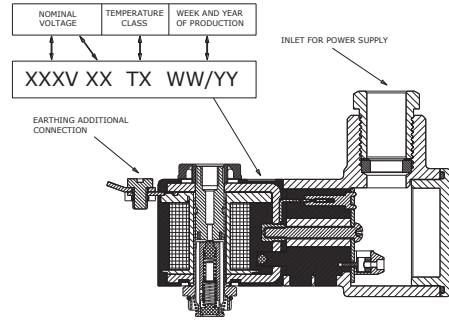


Ing. Emanuele Mauri
Authorized person

Paderno Dugnano, December 11, 2022

The data supplied in Amisco Catalogues are to be consulted, and pertinent accident prevention regulations have to be followed during product installation and use. Any unauthorized work performed by purchaser or by third parties can impair its functions, and relieves Amisco of all warranty claims and liability for any resulting damage.

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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1/4



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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3/4



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, July 22, 2021

Ing. Emanuele Mauri
Authorized Person

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4/4

REV 07/21

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		V _n	f	I	P	Temp.Class	
Type	Code	[V]	[Hz]	[A]	[W]	GAS	DUST
30XDM	30XDMMD006W700	6	-	0.429	2,5	T6	80°C
30XDM	30XDMMD012W700	12	-	0.207	2,5	T6	80°C
30XDM	30XDMMD024W700	24	-	0.104	2,5	T6	80°C
30XDM	30XDMMD048W700	48	-	0.052	2,5	T6	80°C
30XDM	30XDMMD006W300	6	-	0.510	3	T5	95°C
30XDM	30XDMMD012W300	12	-	0.250	3	T5	95°C
30XDM	30XDMMD024W300	24	-	0.125	3	T5	95°C
30XDM	30XDMMD048W300	48	-	0.063	3	T5	95°C
30XDM	30XDMMD006W400	6	-	0.640	3,8	T4	130°C
30XDM	30XDMMD012W400	12	-	0.320	3,8	T4	130°C
30XDM	30XDMMD024W400	24	-	0.160	3,8	T4	130°C
30XDM	30XDMMD048W400	48	-	0.080	3,8	T4	130°C

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1/4

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2/4

DC solenoids

Coil		V _n	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

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

Voltage Tolerance range on nominal values: ± 10%

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3/4

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

- 2014/34/UE [ATEX]
- 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 [2019]
- EN 60204-1 + EC [2018]
- EN 60664-1 [2007]
- VDE 0580 [2011]
- EN IEC 60079-0 [2018]
- 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, July 22, 2021

Ing. Emanuele Mauri
Authorized Person

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4/4

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