

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

Paderno Dugnano, March 1st, 2023

Ing. Emanuele Mauri
Authorized Person

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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 [2017]
- IEC 60079-31 [2022]

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, March 1st, 2023

Ing. Emanuele Mauri
Authorized Person

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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 requirements of implementation rules for China Compulsory Certification:

CNCA-C23-01:2019

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

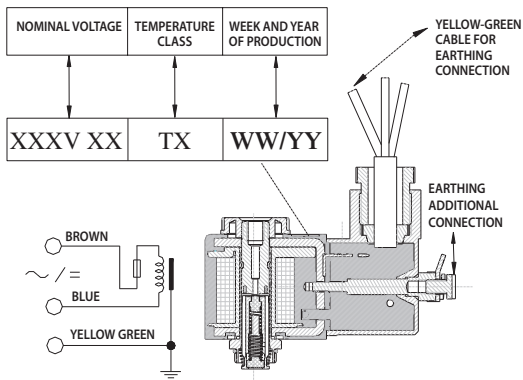
- GB 3836.1 [2010] · GB 12476.1 [2013]
- GB 3836.9 [2014] · GB 12476.5 [2013]

Certificate for China Compulsory product Certification n° 202212230714909 released by CQM

Paderno Dugnano, March 1st, 2023

Ing. Emanuele Mauri
Authorized Person

Coil Type 3009M INSTRUCTIONS

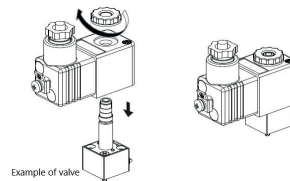


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The coil 3009M Exm is developed to fit Amisco operators/valves. If a different operator is used, make sure that the coil powered with nominal voltage does not show a power consumption exceeding the values mentioned below.

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



Example of valve

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.

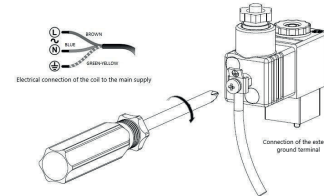
Week and year of production of the complete coil are printed on the upper side of the solenoid, as shown in the above drawing.

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.



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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: Enclosure "IP", level tb
 CCC CERTIFICATE NUMBER: TÜV IT 13 ATEX 030 X Rev. 2
 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

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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.
IIIC: Electrical equipment of group II is subdivided according to the nature of the explosive gas atmospheres - IIIC, 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 gas atmospheres.
IP66: Degree of Protection [IEC 60529].
TUV IT 13 ATEX 030: Maximum surface temperature T130°C/T95°C/T80°C for Dust.
IECEX IMQ 22.0004: Maximum surface temperature T130°C/T95°C/T80°C for Dust.
(CC) Specific condition of use.
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.

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