ZERTIFIKAT ◆ CERTIFICATE ◆ 認証書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Italia

CERTIFICATE

[1] **EC-TYPE EXAMINATION CERTIFICATE**

[2] **Equipment or Protective System intended for use in potentially explosive atmospheres Directive 94/9/EC**

[3] EC-Type Examination Certificate number:

TÜV IT 13 ATEX 040

[4] Equipment or Protective System: Electrical Coils Type 30XDM

[5] Manufacturer: AMISCO S.p.A.

[6] Address: via Piaggio 70
I-20037 Paderno Dugnano (MI) ITALY

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] TÜV Italia, notified body no. 0948 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. R-13-EX-023.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0 : 2009 EN 60079-1 : 2007 EN 60079-18 : 2009 EN 60079-31 : 2009

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following:

II 2G Ex db mb IIC T4/T5 Gb	**Ta= -50°C ÷ +50°C**
II 2D Ex tb IIIC T130/T95 °C IP66 Db	**Ta= -50°C ÷ +50°C**

This certificate may only be reproduced in its entirety and without any change, schedule included.

Date: 21st of June 2013

TÜV Italia Srl Industrie Service 09 48 Notified Body

Approved
Gennaro Oliva
Industrie Service Director

TÜV Italia has been authorized by Italian government to operate as notified body for the certification of equipment or protective system intended for use in potentially explosive atmospheres with D.D. prot N. 0215696 dated 18/10/2012.This document without signature and official stamp shall not be valid.This document is internally administrated under no 230137.

[13] SCHEDULE

[14] EC-TYPE EXAMINATION CERTIFICATE no. TÜV IT 13 ATEX 040

[15] **Description of equipment**

The device is a solenoid for piloting a two or more ways pneumatic valve. The electric winding of the solenoid is constructed of a copper wire on a body in insulating plastic material and subsequently encapsulated in insulating plastic material. The connection with the power network, through a three-pole cable, is located within an enclosure of insulating plastic material.

Rated characteristics

Electrical data DC 3W solenoids

Type code	Vn [V]	f [Hz]	∅ wire [mm]	N of turns	R a 20°C [Ω]	I [A]	P [W]	Temp. class	T Cut-off MAX [°C]
30XDMD006W300	6	0	0.30	925	11.8	0.510	3	T5	76
30XDMD012W300	12	0	0.210	1850	48	0.250	3	T5	76
30XDMD024W300	24	0	0.150	3700	192	0.125	3	T5	76
30XDMD048W300	48	0	0.106	7400	770	0.063	3	T5	76

Ambient temperature: -50°C ÷ +50°C

Electrical data DC 3.8W solenoids

Type code	Vn [V]	f [Hz]	∅ wire [mm]	N of turns	R a 20°C [Ω]	I [A]	P [W]	Temp. class	T Cut-off MAX [°C]
30XDMD006W400	6	0	0.315	825	9.5	0.640	3.8	T4	115
30XDMD012W400	12	0	0.224	1650	38	0.320	3.8	T4	115
30XDMD024W400	24	0	0.160	3300	150	0.160	3.8	T4	115
30XDMD048W400	48	0	0.112	6500	600	0.080	3.8	T4	115

Ambient temperature: -50°C ÷ +50°C

[13] SCHEDULE

[14] EC-TYPE EXAMINATION CERTIFICATE no. TÜV IT 13 ATEX 040

Electrical data AC solenoids

Type code	Vn [V]	f [Hz]	∅ wire [mm]	N of turns	R a 20°C [Ω]	I [A]	P [W]	Temp. class	$T_{Cut-off}$ MAX [°C]
30XDMA012W200	12	50/60	0.28	1050	15.4	0.2700	3.2	T5	76
30XDMA024W200	24	50/60	0.200	2100	61	0.1330	3.2	T5	76
30XDMA048W200	48	50/60	0.140	4170	247	0.0670	3.2	T5	76
30XDMA100W200	100	50/60	0.095	8700	1115	0.0320	3.2	T5	76
30XDMA110W200	110	50/60	0.09	9570	1357	0.0290	3.2	T5	76
30XDMA115W200	115	50/60	0.09	10000	1440	0.0280	3.2	T5	76
30XDMA120W200	120	50/60	0.09	10400	1515	0.0270	3.2	T5	76
30XDMA220W200	220	50/60	0.063	19130	5494	0.0146	3.2	T5	76
30XDMA230W200	230	50/60	0.063	20000	5820	0.0140	3.2	T5	76
30XDMA240W200	240	50/60	0.063	20870	6160	0.0134	3.2	T5	76

Ambient temperature: -50°C ÷ +50°C

Warning label

None

[13] **SCHEDULE**

[14] **EC-TYPE EXAMINATION CERTIFICATE no. TÜV IT 13 ATEX 040** Italia

[16] **Report no.** R-13-EX-020

Routine tests

A dielectric strength test must be carried out on the equipment, in accordance with 9.2 of EN 60079-18.

Listed documents (prot. 230137)

Document ID	Title	rev.	Date
NA	NOTA TECNICA	0	15/03/2013
NA	ANALISI DEI RISCHI	0	01/03/2013
Allegato 5 PD020	EC DECLARATION OF CONFORMITY	0	01/03/2013
NA	INSTRUCTIONS	0	01/03/2013
EX-4071	CUSTODIA BOBINA 30 XDM	1	25/07/2013
EX-4203A	BOBINA 30 XDM	0	14/02/2013
EX-4072	COPERCHIO PER CUSTODIA 30 XDM	0	14/02/2013
EX-4203	BOBINA 30 XDM	0	14/02/2013
EX-4210	PRESSACAVO PG 9 PER CUSTODIA 30 XDM	0	14/02/2013
EX-4211	SERRACAVO PG 9 PER CUSTODIA 30 XDM	0	14/02/2013

One copy of all documents is kept in TÜV Italia files.

[17] **Special conditions for safe use**

None.

[18] **Essential Health and Safety Requirements**

The evaluation of the "protection against other hazards" in paragraph 1.2.7 of Annex 1 of Directive 94/9/EC is not covered by this certificate

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