



EUROFINS – MODULO UNO S.P.A. - VIA CUORGNÈ, 21 – 10156 TORINO - ITALY ORGANISMO NOTIFICATO N. 2049

EC TYPE EXAMINATION CERTIFICATE

- [2] Equipments or protective systems or components intended for use in potentially explosive atmospheres Directive 94/9/EC
- [3] Number of EC Type examination certificate:

EUM1 12 ATEX 0743

[4] Equipment:

[1]

Asynchronous Motors

Series: PSM

[5] Manufacturer:

ELPROMTECH S.r.I.

[6] Address:

Via Mantova, n. 93 - 43122 PARMA (Italia)

- [7] This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documents reported in it.
- [8] EUROFINS-MODULO UNO S.p.A., notified body n. 2049 in accordance with Article 9 of the Council Directive 94/9/CE of 23th March 1994, certifies that this component have been found to comply with the Essential Health and Safety Requirements relating to the design and construction of component intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in the confidential report n. M1.12.REL.01/48070

[9] Compliance with the essential health and safety is assured by compliance with:

EN 60079-0:2009; EN 60079-1:2007; EN 60079-7:2007;

- [10] The sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.
- [11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design , the exam and and the tests of the equipment specified, in accordance with the Directive 94/9/CE.
- [12] The equipment shall include the sign

and at least one of the following strings:

II 2G Ex ed IIB T3 Gb

Tamb -40°C + 55°C Ex e motor with terminal enclosure Ex d

II 2G Ex d IIB T3 Gb

Tamb -40°C + 55°C Capacitor enclosure usable with the motor

II 2G Ex eb db IIB T3

Tamb -40°C + 55°C Ex e motor with terminal enclosure Ex d

II 2G Ex db IIB T3

Tamb -40°C + 55°C Capacitor enclosure usable with the motor

Turin, 14 May 2012

CE

Dionisio Bucchieri Directive Responsible Paolo Dentis Notified Body Manager

2049

This certificate do not replace anyway the declaration of conformity nor exonerate the Manufacturer from product liability..

Any change in the design or realization may be not valid this certificate and requires a communication to the body. The technical documentation do not refers to others directives applicable to the equipment. The change of the reference standards cause the decay of the certificate. This certificate has one page and is reproducible only in its entirety.

This document is the English translation (made by the notified body) of the original document drawn in Italian; only the Italian text is legally valid



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[15] Equipment description

- Three phases and single phase asynchronous motors, squirrel cage with axis height from
- Totally closed with Protection degree IP 54.
- Class F insulation
- 2, 4 poles
- Voltage supply: Until 500V
- Frequency 50/60 Hz
- Service S1, S3
- Optional use of thermic protectors installed on the windings (n.2 for three phases motors, n.1 for single phase motors);
- In case of single phase motors the capacitors must be external to the motor and located in safe zone or introduced inside their "Ex d" enclosure

The terminals enclosure, made of aluminium will be able to contain the following devices:

- Standard terminal board for motors
- Power relay for motor control (coil V_{AC}: 12-24-48-110-230-380 V_{DC}:6-12-24-48-60-110)
- Power minicontactor for motor control (coil V_{AC}: 12-24-48-110-230-380 V_{DC}:6-12-24-48-60-110)
- Single phase motor capacitor

When the capacitor has remarkable dimensions will be used a special enclosure with "Ex d" type of protection (IIB group, also in the scope of this certificate).

The motor cable entries appropriate for use in gas or vapour potentially explosive atmosphere shall conform to EN 60079-0 e EN 60079-1 standards.

Motor terminal enclosure - there are the following possibilities:

- PSM cable gland integrated in motor terminal enclosure (included in the scope of this certificate).
- Commercially available cable glands, certified in conformity with above listed standards

Capacitor enclosure - there are the following possibilities:

- PSM cable gland integrated in motor terminal enclosure(included in the scope of this certificate)..
- Commercially available cable glands, certified in conformity with above listed standards

Paolo Dentis

Palo Senti, Notified Body Manager

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Identification motors table 71 075 23 R Motor series (Petrol Station Motor) Single Phase Three Phases Motor dimensions: 71 Internal diameter 110mm 80 Internal diameter 125mm 90 Internal diameter 135mm Polarity: 2, 4 Poles Motor power (kW): Examples 075 0,75 kW 110 1,1 kW Nominal voltage (V): Examples 23 230 V 40 400 V Nominal frequency (Hz): 6 60 Hz Shaft (diameter in mm and possible thread): 1 12 SPECIAL 2 11-M4 3 19 4 14-M5 5 19-M6 Control R Relay (with thermal protection) C Contactor (with thermal protection) B Terminal board Terminal board + thermal protection Capacitor 0 In case of three Phase motor Internal capacitor G External capcitor

Temperature range of use included between -40 e + 55° C; the related indication is in the marking plate.

Paolo Dentis

Notified Body Manager

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Resuming table of motors included in the certificate

Туре	Class	Phases	Poles	kW	V	Hz	Service
PSM-M90-2-180-22-5	Т3	1	2	1,8	230	50 (o 60)	S1
PSM-M71-4-012-22-5	Т3	1	4	0,12	230	50 (o 60)	S1
PSM-M71-4-025-22-5	T3	1	4	0,25	230	50 (o 60)	S1
PSM-M71-4-037-22-5	Т3	1	4	0,37	230	50 (o 60)	S1
PSM-M71-4-055-22-5	Т3	1	4	0,55	230	50 (o 60)	S1
PSM-M80-4-075-22-5	Т3	1	4	0,75	230	50 (o 60)	S1
PSM-M90-4-100-22-5	Т3	1	4	1,00	230	50 (o 60)	S1
Туре	Class	Phases	Poles	kW	v	Hz	Service
7,1-			. 0.00		•	112	Oci vice
PST-T71-2-025-40-5	Т3	3	2	0,25	400	50 (o 60)	S1
PST-T80-2-150-40-5	Т3	3	2	1,5	400	50 (o 60)	S1
PST-T90-2-220-40-5	Т3	3	2	2,2	400	50 (o 60)	S1
PST-T71-4-025-40-5	Т3	3	4	0,25	400	50 (o 60)	S1
PST-T71-4-037-40-5	Т3	3	4	0,37	400	50 (o 60)	S1
PST-T71-4-055-40-5	Т3	3	4	0,55	400	50 (o 60)	S1
PST-T71-4-065-40-5	Т3	3	4	0,65	400	50 (o 60)	S1
PST-T71-4-075-40-5	Т3	3	4	0,75	400	50 (o 60)	S1
PST-T80-4-100-40-5	Т3	3	4	1	400	50 (o 60)	S1
PST-T80-4-110-40-5	Т3	3	4	1,1	400	50 (o 60)	S1
PST-T90-4-150-40-5	Т3	3	4	1,5	400	50 (o 60)	S1

[16] Assessment report n° M1.12.REL.01/48070

This EC Type certificate is released after the positive result of the conformity assessment of the Council Directive 94/9/CE and to harmonized technical standard EN 60079-0:2009; EN 60079-1:2007, performed by the notified body Eurofins-Modulo Uno SpA, and reported in the assessment report above cited.

Paolo Dentis

Notified Body Manager

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Descriptive Documents

Name	Description	Date	Rev.	N. page	Listed	
Nota Tecnica Motori PSM	Technical note series PSM motors	17/4/2012	0	8		
IS - Serie PSM IT-EN	Assembling and safety instructions series PSM motors	17/4/2012	0	3		
Assieme PSM71	Overall drawing motor size 71	17/4/2012	0	1	1	
Assieme PSM80	Overall drawing motor size 80	17/4/2012	0	1	V	
Assieme PSM90	Overall drawing motor size 90	17/4/2012	0	1	V	
Copribasetta	Terminal board cover	17/4/2012	0	1	1	
Pressacavo PSM	PSM motors cable gland	17/4/2012	0	1	1	
Custodia condensatore	Capacitors enclosure for PSM series motors	17/4/2012	0	1	V	
Targa Atex	ATEX plate for PSM series motors	17/4/2012	0	1	V	

Individual tests

No routine test have to be performed in accordance with EN 60079-1 and EN 60079-7.

[17] Special condition for a safe use

No special conditions for safe use are required.

[18] Essential Health and Safety Requirements

Guaranteed by the conformity to the harmonized standards; Requirement 1.2.7 of the Directive 94/9/CE is not covered by this certificate

[19] Certificate History

This Certificate is at its first issue.

Paolo Dentis

Notified Body Manager

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[20] Terms and conditions

The product liability rests with the manufacturer, his representative or, in the absence of a representative, with the importer, in accordance with the General Product Safety Directive 2001/95/EC.

The following conditions may render this certificate invalid:

- Changes in the design or construction of the product;
- Changes or amendments to the Directive;
- Changes or amendments in the standards which form the basis for documenting compliance with the essential requirements of the 94/9/EC directive.

Paolo Dentis

Notified Body Manager

End of the Certificate

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