ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Certificação de Produto

OCP 0101

Brasil

.

CUSTOMER CODE INMEX 123569 0001 Rev. 00

Certificate Number TUV SUD INMEX 24.0001X

Supplier: **Lupus Equipamentos para Lubrificação e Abastecimento Ltda**

Rua: Lupo Paneli, 303
Industrial
18520-000 Cerquilho SP
BRAZIL

CNPJ 57.026.585/0001-36

Manufacturer: **PIUSI S.P.A.**

Zona Industriale Rangavino, Via Pacinotti 16/A, 46029 SUZZARA, ITALY

Product: **Electric pumps**

TÜV SÜD Brasil- OCP 0101 certifies that the referenced product is in accordance with the Inmetro Ordinance applicable for this product and Technical Standards applicable to the described scope and according to the technical data mentioned in this certificate. The certification mark sent to the supplier with this certificate shall be affixed on the product and should not be changed. The validity of this Certificate is linked to carrying out assessments maintenance and treatment of possible non conformities in accordance with TÜV SÜD Brasil- OCP 0101 orientation and foreseen in the specific Inmetro Ordinance. For verification of the updated compliance condition of this Certificate of Conformity, the data bank of certified products and services of INMETRO must be consulted.
Products must be installed in compliance with the relevant Standards in Electrical Installations in Explosive Atmospheres.
The installation, inspection, maintenance, repair, overhaul and recovery activities of the equipment are the responsibility of the users and must be performed in accordance with the requirements of the current technical standards and the manufacturer's recommendations.
See www.tuvsud.com/ps-cert for details.

Certificate of Conformity valid only accompanied by the total pages indicated on the footer.

Test Report(s) / issue date: IT-CES-ExTR12.0020-04 2020-09-15

Initial issue: 2024-02-27
Revision issue: 2024-02-27
Valid until: 2030-02-26

(Alice Maia)

TÜV SÜD SFDK - Av. General Valdomiro de Lima, 833 – Jabaquara - São Paulo – SP - 04344-070 - Brazil

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Model(s): EX50 230V, EX50 12V and EX75 12V

Trade name: **PIUSI**

Parameters:

Product Description
Electric pumps type **EX50 230V, EX50 12V and EX75 12V** are transportable apparatuses made of an electric motor and a coupled hydraulic pump. The product is suitable for the transfer of flammable fluids as foreseen by the manufacturer. The electrical part (motor, supply electronics, switch and electrical junctions) is held in a multi compartment, flame proof enclosure a side of which is closed by the body of the hydraulic part: a volumetric rotating pump equipped with a bypass valve. The electric motors are equipped with protecting devices of different type and principle of operation: - Automatic rearm thermal protection, on the type EX50 230V, with a pre-set threshold; - Manual rearm circuit-breakers, on the types EX50 and EX75 12V, with a pre-set threshold; A stretch of the motor shaft, between flameproof enclosure and hydraulic part, is ventilated through three radial openings which allow ventilation, creating a separation zone between the hydraulic circuit and the electrical part. These electric pumps are foreseen for discontinuous service as defined in the electrical characteristics. This certificate bases on the assumption that the operation conditions are compliant with the classification zone 1 inside the pump. The apparatus is equipped with na earthing screw which shall be connected, using a suitable cable, to an earthing point, common with the fuel tank, before energizing the motor.

Marking - Type of protection used
Ex db IIB T4 Gb

Electrical Parameters	
Model **EX50 230V** (Version **"A"**) Rated voltage: 230 Vac - 50 Hz / 60 Hz Rated current: 0.8 A Maximum power: 230 W Insulation class: H Service type: max 30' ON - min 30' OFF Thermal protector: BR-B2D 90°C Maximum rotating speed: 2700min-1 Ambient temperature: -10°C ≤ Tamb ≤ +40°C	Model **EX50 230V** (Version **"B"**) Rated voltage: 230 Vac - 50 Hz / 60 Hz Rated current: 0.8 A Maximum power: 230 W Insulation class: F Service type: max 30' ON - min 30' OFF Thermal protector: Klixon Sensata 15AM 125°C Maximum rotating speed: 2700min-1 Ambient temperature: -10°C ≤ Tamb ≤ +40°C
Model **EX50 12V** Rated voltage: 12 Vdc Rated current: 17 A Maximum power: 300 W Insulation class: F Service type: max 30' ON - min 60' OFF Thermal protector: Sensata EXT 248-28 Maximum rotating speed: 2700min-1 Ambient temperature: -10°C ≤ Tamb ≤ +40°C	Model **EX75 12V** Rated voltage: 12 Vdc Rated current: 20 A Maximum power: 312 W Insulation class: F Service type: max 30' ON - min 30' OFF Thermal protector: Sensata EXT 248-30 Maximum rotating speed: 2700min-1 Ambient temperature: -10°C ≤ Tamb ≤ +40°C

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List of Documents

Filename	Document number	Rev.	Data/*Date*
EX001_rev02 Esploso e ingonbri Pompa EX50 EX75 12 Vdc	EX001	02	2020/09/15
EX002_rev05 giunti custodia Ex-d pompa EX50-EX75	EX002	05	2020/08/04
EX003_rev04 Corpo Pompa EX50	EX003	04	2020/09/08
EX004_rev04 Morsettiera Lavorata	EX004	04	2020/09/08
EX005_rev03 Coperchio morsettiera Lavorato	EX005	03	2020/06/15
EX006_rev03 Tubo motore Pompa EX50 EX75	EX006	03	2020/06/09
EX007_rev02 Albero Motore pompa EX50 EX75	EX007	02	2020/04/22
EX008_rev02 PernoLeva pompa EX50	EX008	02	2019/05/21
EX009_rev02 Cablaggio pompa EX 50 12Vdc	EX009	02	2020/09/01
EX010_rev01 Scheda Portaspazzole-Brush Holder Board 12-24Vdc With Noise Filter rev2	EX010	01	2020/09/01
EX011_rev02 Targhetta metallica Ex50-75 CE 12 Vdc 230V ac (*) see note	EX011	02	2020/07/24
EX012_rev02 Esploso e ingonbri Pompa EX 50 230 Vdc	EX012	02	2020/09/15
EX013_rev01 Schema Elettrico Pompa Atex 230Vac	EX013	01	2020/09/01
EX024_rev01 Wiring UL 12Vdc EX75 motor	EX024	01	2020/09/01
EX025_rev01 BRUSH-HOLDER BOARD 12V EX75 motor	EX025	01	2020/09/01
DE_TPS_QAR18.0005_03_003	DE/TPS/QAR18.0005/03 Rev0	00	2023/06/29
TSB_F_03.189E_APPENDIX_FIR_Mod5 -Rev_1 722331870 Piusi	722331870	00	2024/01/31
INMEx_Factory_Insp_Rep_Mod5 Rev1 722331870 Piusi	722331870	00	2024/01/31
IECEx_CES_12.0016X_005	IECEx valid certificate - IECEx_CES_12.0016X_005	Issue 5	2020/09/25
Technical evaluation report	20240212_23103001_RACT - 123569_1/2024	00	2024/02/12
User manual	M0217F PT_RE00_EX50 - EX75 12V ATEX-INMETRO - M0217 F M0218F PT_REV00_EX50 230V 50_60Hz ATEX-INMETRO M0218F	00	2024/02

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"Specific Conditions of Use":

- The equipment shall be attended while working in order to suddenly detect possible malfunctioning, including the intervention of the internal protecting device and the pump stop;
- Follow the foreseen type of service, shown on the table at electrical characteristics, avoiding to run the pump in bypass or dry conditions,according to the instruction manual;
- In case the intervention of the internal protecting device repeats, in normal operation conditions, do not attempt to restart the electro-pump but send it to the manufacturer for due checks;
- Before any run, connect tanks and electro-pump, through the special screw, to a common earth;
- The usage shall comply with the classification zone 1 inside the pump;
- Keep clear the three openings which put the stretch of the shaft, between the flameproof enclosure and the pump, in connection with open air;
- The electrical connection of the electro-pump, especially when used on mobile vehicles, shall be carried out in safe zone or shall be suitably protected, using one of the protection methods foreseen by the standard IEC 60079-0;
- The temperature of the fluid processed by the pump shall be inside the ambient temperature range;
- The flame paths of the flameproof enclosure are identified in the manufacturer's drawings; for information concerning their sizes do contact the manufacturer. Disassembly of the product is not allowed except for the opening of the cover, necessary for the electrical connection in the terminal box.
- Use fasteners of class 8.8 or better

Laboratory(ies) names: CESI S.p.A

Factory inspection: 2024-01-31

Model of certification: 5

Note: This certification only covers the national regulations described in "In compliance to".

In compliance to:

ABNT NBR IEC 60079-0:2020
ABNT NBR IEC 60079-1: 2016 versão corr. 2020
Portaria INMETRO N. 115 de 21 Março de 2022

Factory(ies):

PIUSI S.P.A.
Zona Industriale Rangavino, Via Pacinotti 16/A, 46029 SUZZARA, ITALY

Revision History:

2024-02-27	Initial issue.
The last revision replaces and cancels the previous one Certificate with digital signature for electronic file. Authenticity can also be confirmed with the QR Code on page 1.	

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