



## SUBMERSIBLE MOTORS FOR HYDRAULIC ELEVATORS

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### COMPANY PROFILE

#### (1) EXPERIENCE

- ✓ More than 50 years qualified experience into the specified field of submersible electric motors for hydraulic elevators.

#### (2) PRODUCT RANGE

- ✓ **Three-phase motors, 2-pole:** from 1.5 to 90 kW at 50 Hz, from 2.2 to 108 kW at 60 Hz.
- ✓ **Single phase motors, 2-pole:** from 1.2 to 6 kW at 50 Hz, from 1.5 to 7.4 kW at 60 Hz.
- ✓ **Three-phase motors, 4-pole:** from 0.75 to 45 kW at 50 Hz, from 0.9 to 54 kW at 60 Hz.
- ✓ **Single phase motors, 4-pole:** from 1.2 to 4.5 kW at 50 Hz, from 1.5 to 5.5 kW at 60 Hz.
- ✓ **Standard:** All motors correspond to the regulation for electrical motors **IEC60034-1**.

	For all motors is available the Declaration of Compliance CE (European Community).
	For North America market we have an approval in accordance with <b>C CSA US</b> proofed CAN/CSA-C22.2 No. 100-14 Motors and Generators and UL 1004-1 (2 <sup>nd</sup> ed.), C CSA US Certificate No. 1095178, Master Contract No. 205390.

- ✓ **On request, C CSA US** motor approved versions can be supplied.
- ✓ **Motor with or without flywheel:** suitable to be connected to all type of screw pumps manufactured in Italy, Europe and North America.

#### (3) QUALITY

- ✓ The **Quality System** of ELMO S.r.l. is conform to the requirements of **UNI EN ISO 9001:2008** with certificate Nr 50 100 6620 – Rev. 02.

	The Certification is valid for the Design, Production, Trade of three phases, single phase electrical motors and accessories for hydraulic lifting systems.
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- ✓ The **Product Quality, how to meet the design specifications and assure that the mechanical/performance features are kept constant.**

The manufacturing process is continuously kept under severe controls and all the manufactured motors are subject to end line tests by a sophisticate station at the end of our assembly line for the automatic testing of the finished motor. Such a solution is based on a computerised acquisition system, which enable us to automatically memorise a wide series of tested data which can be also statistically treated and easily traced in any moment of the future. That station is also part of a wider IT (Informatics Technology) system for making the final control integral part of the whole informatics organisation (see **Technical Specification**).

#### (4) RELIABILITY

- ✓ **Product Reliability, product capacity of maintaining the full performances in the long term.**
- ✓ The ELMO approach to the product reliability is, strategically wise, the one of continuously improving the project and the manufacturing process on the basis of a statistical evaluation of the historical data progressively collocated from the market.  
The annual **Elmo Failure Rate** (EFR) has been regularly monitored for many years and, on those basis we fixed definite targets for our overall reliability parameters. When analysing rejects and Failures we can identify which are those problems representing the higher percentage (even if they are at a normal physiological level) and each year we define the Quality Objectives and start a campaign for definitely solving those problems with definite corrective actions (see annex **Warranty Terms**).

#### (5) ELMO MARKET

- ✓ 37% for domestic market,
- ✓ 63% all over the world.