

*Worldwide Certified*  
**ATEX MOTORS RANGE**  
For Hazardous Locations



## A dynamic, strong and ambitious Group

Orange1 Holding is an international renown Group, one of the most important European manufacturers of single-phase and three-phase asynchronous electric motors. It has an annual capacity of more than 1 million motors and 5 million electric stators. The group, established in 1971 by Leone Donazzan, chaired today by his son Armando Donazzan, is strongly focused on technological innovation, performance and customization to meet individual clients requirements.





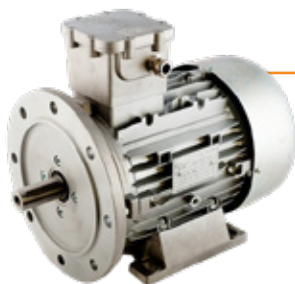


Elettromeccanica Leone Donazzan was established on 1971 in Bassano del Grappa. In 1983 the company turned into Eld Spa. In 1998 Armando Donazzan took over the running of the company; thanks to his determination and intuition he applied new financial and commercial policies which increased the level of reliability and visibility. In March 2006 the company changed its name to EME Spa and finally become Orange1 Electric Motors in 2018. The aim of O1EM is to manufacture custom made motors to meet clients and market expectations. The actual production covers a large range of AC and DC motors, as well as brushless motors and Variable Frequency Drives , to provide total solution.

## PRODUCTION PLANTS

LOCATION	MOTORS PRODUCTION
<b>ARSIÈ - ITALY</b> 32030 (BL) Via A. Messedaglia 4	SINGLE AND THREE PHASE MOTORS HOLLOW SHAFT MOTORS IE2 AND IE3 MOTORS INVERTER AND MOTORINVERTER
<b>S. MAURO PASCOLI - ITALY</b> 47030 (FC) Via A. Grandi 23	GRADUAL BRAKE MOTORS HIGH TORQUE BRAKE MOTORS LOW CENTER MOTORS MOTORS FOR BURNERS
<b>PARMA - ITALY</b> 43122 (PR) Via Mantova 93	ATEX MOTORS HYDRAULIC MOTORS ENCAPSULATED WATERPROOF MOTORS OIL SUBMERGED MOTORS

## MOTORS RANGE



### EXPLOSION PROOF MOTORS Ex db

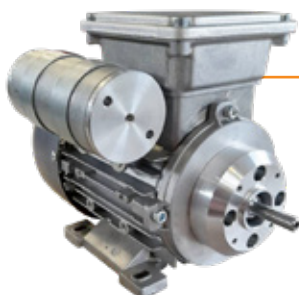
**Standard Configuration:** II 2G Ex db IIC T4 Gb – IP66 – Ta -20°C +50°C

**Options:**

II 2GD Exdb IIC T4 Gb Extb IIIC – T125°C Db – IP66 – Ta -40°C +50°C

II 2G Ex db IIC T5 Gb – IP66 – Ta -20°C +40°C

II 2GD Exdb IIC T5 Gb Extb IIIC – T125°C Db – IP66 – Ta -40°C +40°C



### SINGLE PHASE MOTORS Ex db

- With permanent capacitor
- Cap start Cap run
- 230V or 110 V – 50 and 60 Hz
- Dual voltage



### INCREASED SAFETY MOTORS Ex eb / Ex ec

**Standard Configurations:**

- II 2G Ex eb IIC T3 Gb – IP55

- II 2GD Ex eb IIC T3 Gb Ex tb IIIC T125°C Db – P65

- II 3GD Ex ec IIC T4 Gc Ex tc IIIB T125°C Dc – IP55

**Production range:** from IEC56 to IEC160 frame size



### EXPLOSION PROOF MOTORS Ex de

**Standard Configuration:** II 2G Ex db eb IIC T4 Gb – IP65 – Ta -20°+50°C  
IP66 rated on request

	Frame Size	Pole	kW
THREE PHASE	56 - 180	2	0,12 - 30
	56 - 180	4	0,09 - 22
	63 - 180	6	0,12 - 5,5
	80 - 180	8	0,18 - 3
	71 - 180	4 / 2	Constant torque
	71 - 180	4 / 2	Quadratic torque
	71 - 180	8 / 4	Constant torque
	71 - 180	8 / 4	Quadratic torque
	71 - 180	6 / 4	Constant torque
	71 - 180	6 / 4	Quadratic torque
	71 - 180	8 / 6v	Constant torque
	71 - 180	8 / 6	Quadratic torque
SINGLE PHASE	56 - 112	2	0,12 - 4
	56 - 112	4	0,09 - 3
	71 - 100	6	0,12 - 1,1

## WORLDWIDE CERTIFICATIONS



- ISO 9001 - IT00/0059-06
- ATEX Ex db - EPT 17 ATEX 2588 X
- IECEx Ex db - IECEx EUT 14.0001 X
- ATEX Ex eb - EPT 19 ATEX 3409 X
- IECEx Ex eb - IECEx EUT 19.0016X
- ATEX Ex ec - EPTI 20 ATEX 0378X
- IECEx Ex ec - IECEx EUT 20.0003X
- EAC - EA3C RUC-IT.MIO 62.B.00313/19
- KCS - 2022-0199700271
- INMETRO - CPEx 22.0680 X



EUROPE		ASIA - AUSTRALIA	AMERICA
Italy	Sweden	Turkie	USA
Spain	Finland	China	Mexico
Portugal	Poland	Thailand	AFRICA
France	Hungary	Singapore	South Africa
Germany	Czech Republic	Emirates	Tunisia
Switzerland	Bulgaria	India	
Austria	Lituania	Malaysia	
Netherland	Russia	Australia	
Belgium	United Kingdom	New Zeland	
Denmark	Greece		

## MANY OPTIONS

- High Temperature motors ( +60°C, T4 Only )
- Axial locked shaft
- Anti-condensation Heaters 230V or 110V
- Special voltages and frequencies
- Tropicalization
- Special shaft and flanges (IEC or Nema)
- Rain covers
- Inverter duty
- Class H insulation
- PTC
- PTO (bimetallic switch)
- PT100
- Standard painting
- Epoxy painting (C3 – C4 – C5)
- Without terminal box
- Forced ventilation
- AC or DC brakes
- Encoder



# WHY ALUMINIUM?

IT ALLOWS TO HAVE THE RIGHT ROBUSTNESS IN A LIGHTER EXECUTION

TRANSPORT COST SAVINGS

WEIGHT SIMILAR TO A STANDARD MOTOR FOR SAFE AREA

NICE DESIGN

EASIER MOUNTING FLEXIBILITY

CABLE GLAND ALWAYS INCLUDED

DATA SHEET AND 3D DRAWINGS AVAILABLE FOR STANDARD EXECUTIONS

STOCK OF 3-PHASE FLAMEPROOF MOTORS II 2G EX DB IIC T4 WITH PTC

SPECIAL MECHANICAL SHAFT / FLANGE DESIGN

POSSIBILITY OF TESTS IN OUR CERTIFIED LABORATORY

SPECIAL CERTIFICATIONS

SPARE PARTS ALWAYS AVAILABLE FROM STOCK

DISTRIBUTORS IN MOST OF THE COUNTRIES WORLDWIDE



## QUALITY & SERVICE



## MAXIMUM FLEXIBILITY

DETACHABLE FEET

FLANGE CHANGE

TERMINAL BOX ROTATION



## — MAIN SECTORS OF APPLICATIONS —



**PETROCHEMICAL**



**CHEMICAL**



**VENTILATION**



**FINISHING**

## SICME-ORANGE1 SERVICE

Sicme-Orange1 quality and technical team, together with a dedicated internal department, offers a full service system able to satisfy any specific request into electric motor maintenance. Sicme-Orange1 Service can provide an innovative diagnostic tools for electrical testing and analysis to pinpoint immediately specific motor issues. For this purpose an equipped in-house testing room is available, in order to handle tests, inspections and issue detailed test report for each motor.







ORANGE1  
HOLDING

info@orange1.eu  
[www.orange1.eu](http://www.orange1.eu)

