

## The motor, in the heart.

Founded in 1948, today Electro Adda is an historical and influential reality dedicated to innovation and research, technological partner of leading companies in Europe and worldwide.

Specialized in the production of standard and tailored electric motors for all industrial uses and for the most demanding applications, Electro Adda is an acknowledged emblem of the Made in Italy quality: from design to testing, every stage of the production chain takes place at the company sites.

Ever greater manufacturing and organizing flexibility gives Elec-

tro Adda the capacity to develop targeted engineering projects and deliver custom-made orders, assuring to its customers an essential contribution in terms of innovation, particularly in the most highly competitive sectors.

With its latest-generation, low-consumption, high-efficiency motors and its new complete range of IE3 motors, Electro Adda offers reliable quality solutions, able to meet new challenges, in step with the most advanced technology and cutting-edge in terms of energy saving and environmental compatibility.

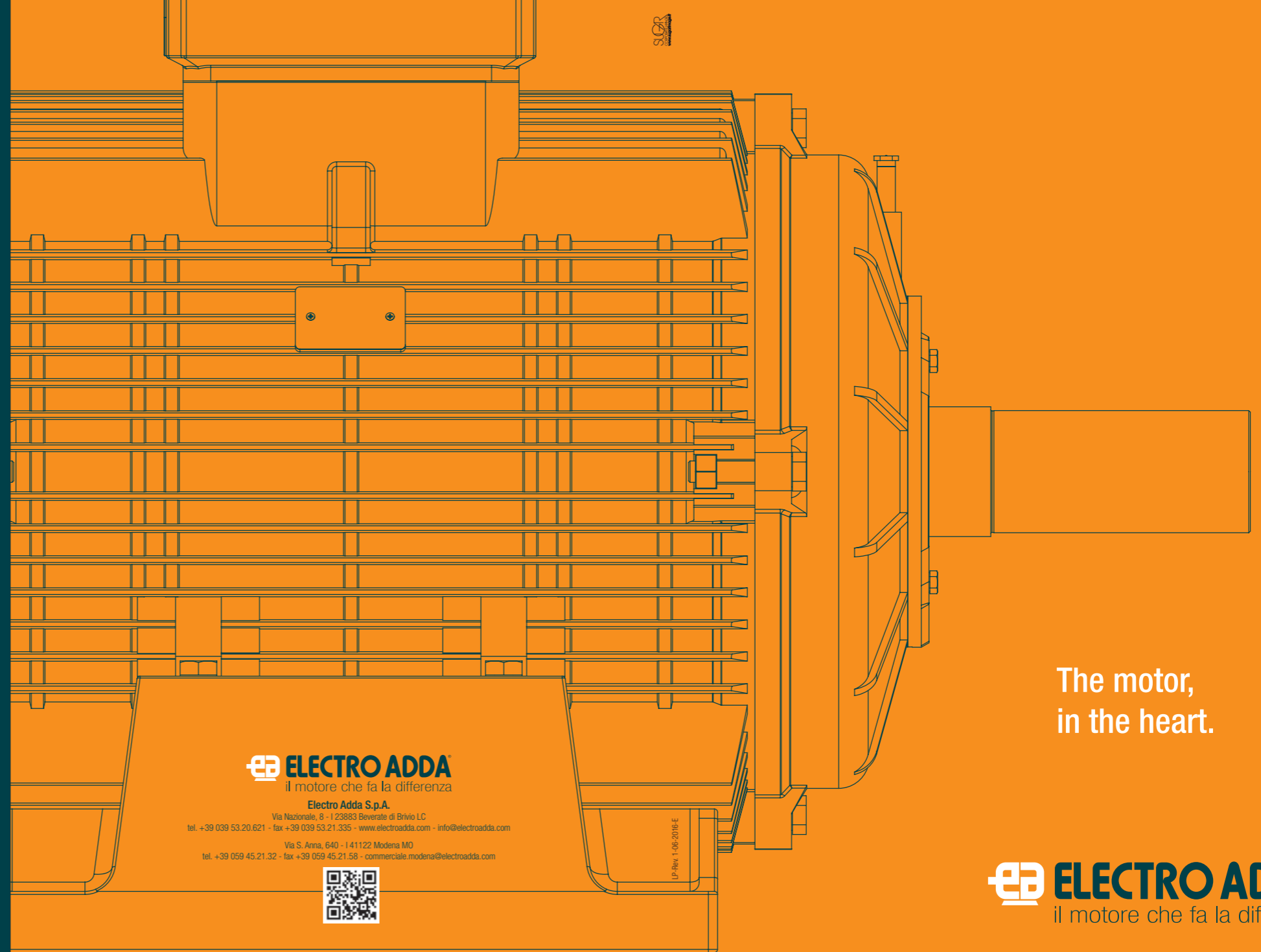


## Certified quality, guaranteed excellence.

For Electro Adda, quality is a transversal principle which marks its entire production cycle and involves every aspect of the company life, from design to control and organization.

The company is ISO9001-2000 certified and authoritative national and international certifications - CESI, ATEX, CSQ, CSA, UL, GOST TR CU, LLOYD'S REGISTER - certify the conformity of the products with the highest requirements of quality and safety.

The excellence of performances in terms of efficiency, productivity and reliability is attested by the research bodies and by the universities which for many years have been cooperating in the realization of the customized engineering projects and have been submitting the Electro Adda motors to checks and verification tests, substantiating their results by means of certified official data.



**ea ELECTRO ADDA**  
il motore che fa la differenza

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## C SERIES

### SQUIRREL CAGE THREE-PHASE ASYNCHRONOUS MOTORS

#### CA SERIES

Aluminium frame  
Power 0,05÷250 kW  
Frame sizes 63÷355LT

#### CS SERIES

Steel frame  
Power 250÷1200 kW  
Frame sizes 355L÷500

Insulation Class F  
Efficiency class IE2/IE3  
2, 4, 6, 8 poles motors and multi speed motors

Protection degree - cooling:  
• IP 55 - IC 411 self-ventilated  
• IP 55 - IC 416 forced ventilation  
Suitable for inverter supply (up to 690 V)  
Vacuum impregnation (VPI)  
with ELECTRO ADDA HVP system  
(High Voltage Performance)  
IEC60034-1 Standards  
UL/CSA Certification (on request)  
GOST TR CU Certification (on request)  
CA motors are available also in the  
**ATEX ZONE 22** version

## PE SERIES

### EXPLOSION-PROOF SQUIRREL CAGE THREE-PHASE ASYNCHRONOUS MOTORS ATEX DIRECTIVE

#### PE - Ex-d SERIES

Zone 1; Group II (IIA-IIB-IC);  
Category 2G, T3, T4, T5  
Zone 2; Group II (IIA-IIB-IC);  
Category 3G, T3, T4  
Power 0,25÷22 kW  
Frame sizes 71÷180  
Insulation Class F  
Protection degree IP 55  
Cooling type IC 411  
self-ventilated  
Suitable for inverter supply

#### PE - Ex-d Ex-de SERIES

Zone 1; Group II (IIA-IIB-IC);  
Category 2G, T3, T4  
Zone 2; Group II (IIA-IIB-IC);  
Category 3G, T3, T4  
Power 0,09÷400 kW  
Frame sizes 63÷355X  
Insulation Class F  
Protection degree IP 55  
Cooling type IC 411  
self-ventilated  
Suitable for inverter supply

## MR SERIES

### SQUIRREL CAGE THREE-PHASE ASYNCHRONOUS MOTORS FOR ROLLER TABLES

Very sturdy construction for heavy duty in the steel industry  
Rated torque 30÷4500 Nm  
Frame sizes 132÷400  
Insulation Class H  
Temperature rise Class F  
Protection degree IP 55  
(IP 65 on request)

Cooling type IC 410 (natural cooling)  
Suitable for inverter supply (up to 690 V)  
Vacuum impregnation (VPI)  
with ELECTRO ADDA HVP system  
(High Voltage Performance)  
IEC60034-1 Standards  
GOST TR CU Certification (on request)



## W SERIES

### WATER COOLED SQUIRREL CAGE THREE-PHASE ASYNCHRONOUS MOTORS

Steel frame  
Power 11÷3000 kW  
Frame sizes 132÷560  
Insulation Class F  
Water cooling (IC7 A1W7)  
Protection degree IP 55  
(IP 56 on request)  
Suitable for inverter supply (up to 690 V)  
Vacuum impregnation (VPI)  
with ELECTRO ADDA HVP system  
(High Voltage Performance)  
IEC60034-1 Standards  
GOST TR CU Certification (on request)

Advantages:  
• Smaller overall dimensions and lighter motors  
• Lower heat release into the working environment  
• Lower noise  
• No power reduction even at high ambient temperatures  
• They can be used at a wide speed range at constant torque without derating  
• Suitable for installation in harsh environments  
• High power density



## FE SERIES

### SQUIRREL CAGE THREE-PHASE ASYNCHRONOUS BRAKE MOTORS

#### FE SERIES

With AC electromagnetic disc brake  
Power 0,25÷90 kW  
Frame sizes 71÷280

#### FECCL SERIES

With DC electromagnetic disc brake  
Power 0,13÷280 kW  
Frame sizes 63÷355

#### FECF SERIES

With DC electromagnetic disc brake  
Power 0,13÷22 kW  
Frame sizes 63÷180

Insulation Class F  
Protection degree IP 55  
Cooling type IC 411 self-ventilated or IC 416 with forced ventilation  
Suitable for inverter supply  
IEC60034-1 Standards  
GOST TR CU Certification (on request)  
UL/CSA certification for USA and Canada markets

## TH - MAR SERIES

### SQUIRREL CAGE THREE-PHASE ASYNCHRONOUS MOTORS FOR MARINE APPLICATIONS

#### TH SERIES FOR THRUSTERS

Power 160÷1500 kW  
Frame sizes 280÷500  
Protection degree - cooling:  
• IP 23S - IC01 self-ventilated (TH-A type)  
• IP 54/55 - IC 411 self-ventilated (TH-C type)  
• IP 55 - IC7 A1W7 water cooled (TH-W type)

#### MAR SERIES FOR ON-BOARD APPLICATIONS

Power 11÷1500 kW  
Frame sizes 160÷500

Protection degree - cooling:  
• IP 55 - IC 411 self-ventilated  
• IP 55 - IC 416 forced ventilation  
Higher protection degrees available on request

Insulation Class F  
Suitable for inverter supply (up to 690 V)  
Vacuum impregnation (VPI)  
with ELECTRO ADDA HVP system  
(High Voltage Performance)  
IEC60034-1 Standards  
In compliance with the requirements of the following Classification Bodies:  
RINA, LRS, BV, ABS, DNV, GL

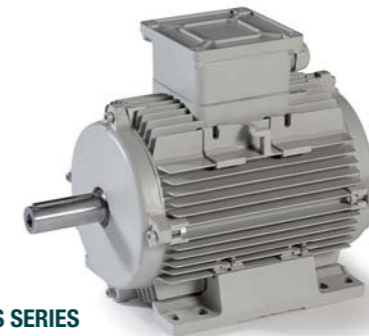


## CR SERIES

### WOUND ROTOR (SLIP RING) THREE-PHASE ASYNCHRONOUS MOTORS

Aluminium and steel frame  
Wound rotor (Slip ring)  
Power 0,75÷850 kW  
Frame sizes 100÷560  
Insulation Class F  
Protection degree IP 54

Cooling IC 411 self-ventilated  
Vacuum impregnation (VPI)  
with ELECTRO ADDA HVP system  
(High Voltage Performance)  
Parking brake on request  
IEC60034-1 Standards

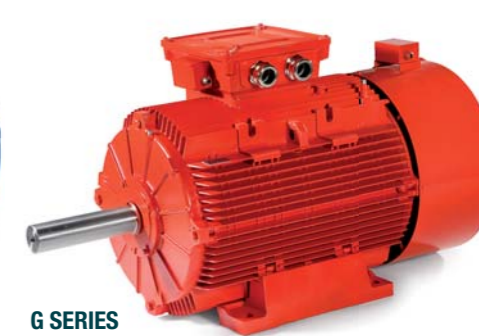


## S SERIES

### SQUIRREL CAGE THREE-PHASE ASYNCHRONOUS MOTORS FOR SMOKE EXTRACTION SYSTEMS

Power 0,09÷500 kW  
Frame sizes 63÷355  
Insulation Class H  
Efficiency classes IE1/IE2/IE3  
2, 4, 6, 8 poles motors and multi speed motors  
Suitable for inverter supply  
IEC60034-1, IEC60034-30 Standards

Protection degree - cooling  
• IP 55 - IC 411 self-ventilated  
• IP 55 - IC 418 external ventilation  
Special construction for high temperature operation:  
Classes: F200 (200°C for 120°)  
F300 (300°C for 60/120°)  
F400 (400°C for 120°)

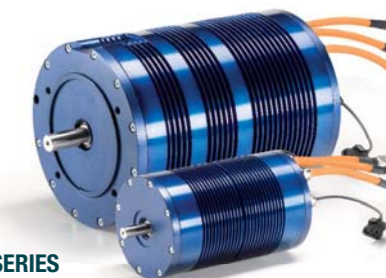


## G SERIES

### SQUIRREL CAGE THREE-PHASE ASYNCHRONOUS GENERATORS FOR HYDROPOWER PLANTS AND WINDMILLS

Power 11÷1500 kW  
Frame sizes 160÷500  
Insulation Class F  
Protection degree - cooling:  
IP 23S - IC01 self-ventilated (G-A type)  
IP 54 - IC 416 forced ventilation (G-C type)

IP 55 - IC7 A1W7 water cooled (G-W type)  
Suitable for inverter supply (up to 690 V)  
Vacuum impregnation (VPI)  
with ELECTRO ADDA HVP system  
(High Voltage Performance)  
IEC60034-1 Standards  
GOST TR CU Certification (on request)



## VE-A SERIES

### ASYNCHRONOUS MOTORS FOR ELECTRIC AND HYBRID VEHICLES

VE-A, the Automotive motor series, is a special series with high performances in terms of efficiency. These motors work in low voltage (on customer's request, motors with different voltages can be designed), from 24 V to 144 V battery, AC, for a total safety; they are capable of interfacing with hybrid systems. The VE-A - line - manufactured with recyclable materials - has an extremely high power and torque density, which makes the motor significantly light.

Power	1 kW - 100 kW
Torque	10 Nm - 280 Nm
Voltage	24 V - 144 V
Max speed	14.000 RPM
Max efficiency	96,5%

