



EMERSON™

Industrial Automation



3947 en - 2011.02 / e

FOOD INDUSTRY

Drive systems

As a worldwide specialist in drive systems, industrial processes and generators, Emerson Industrial Automation has supported its customers' evolving needs for more than 80 years.

Emerson Industrial Automation electric motors, gearboxes, geared motors and electronic drives are designed to operate together, always with the aim of meeting the needs of users.

Because the various industrial sectors served by Emerson Industrial Automation face different problems, a specific structure has been put in place for special markets such as the automotive industry, the oil industry, the environment and **the food industry**.

Using its experience and close relationships with the various players in the industrial supply chain (machine manufacturers, design offices, consultancies, users, etc), Emerson Industrial Automation supports its customers' development on a daily basis with:

- local advice
- technical improvements
- technological innovations
- shorter lead times



470 sales and service outlets worldwide

THE FOOD INDUSTRY APPROACH

Drive systems used in the food industry have to withstand extremely difficult constraints and must, without fail, be able to cope with the demands of the ambient conditions:

- **FREQUENT WASHING**
- **HIGH-PRESSURE CLEANING**
- **PERMANENT HUMIDITY**
- **CONTACT WITH AGGRESSIVE LIQUIDS**
- **HYGIENE**
- **RELIABILITY**
- **SAFETY**
- **MAINTENANCE**



THE FOOD INDUSTRY

FOOD INDUSTRY SYSTEM

Drive systems customised to suit the conditions of use

VERY HARSH ATMOSPHERE

- Machines subjected to frequent **high-pressure** cleaning
- Environment with heavy condensation and food splashes
- Use of disinfectant and detergent products



HARSH ATMOSPHERE

- Machines subjected to frequent **low-pressure** cleaning
- Use of disinfectant and detergent products



NORMAL ATMOSPHERE

- Machines subjected to liquid splashes and dust in a **normal environment**



FOOD INDUSTRY SERVICE

Services associated with the supply of drive systems

- **HELP WITH PRODUCT SELECTION**
- **LOCAL SERVICE PARTNERS**
- **RECOMMENDATIONS FOR ASSEMBLY AND SERVICING**
- **ON-SITE SERVICES**
- **APPROVED TRAINING CENTRE**



VERY HARSH

IP56 / IP66 tests

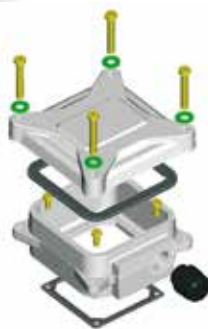
Conforming to standard
IEC 60034-5

KP tests

Increased resistance to
knocks on the paintwork

NOT VENTILATED CAST IRON MOTORS IC 410

Innovations!



Shield: Seals, deflectors and sealed bearings

Terminal box with enhanced dust and damp protection: Special seal, screws and cable gland

IP56 KP



GEARED MOTORS

Innovations!



Hollow hub with helical grooves:
For maximum ease of assembly and
disassembly

Sealing cartridge: Allows high-pressure
cleaning and ensures the coupling with the
client shaft is protected from corrosion



IP66 KP



Supplied with carton of grease



THE FOOD INDUSTRY

ATMOSPHERE

Saline mist
Withstand 600 hours
(in accordance with ISO 9227)

KP tests
High-pressure cleaning with
water at 80°C, up to 130 bar,
in all directions

- 0.25 to 4 kW, S1
- Stainless steel screws and tie rods
- **Special anti-corrosion surface protection**
- RAL 9010 finish
- Variable speed at constant torque in S1 duty (5 to 50 Hz)

Options

- Stainless steel shaft
- Metal cable gland
- Winding with epoxy coating



COMPABLOC IAW

IP66 KP



- **Cast iron geared motors**
- Retention zones eliminated
- Blanking of machining holes
- RAL 9010 finish
- **Special anti-corrosion surface protection**
- Variable speed at constant torque in S1 duty (5 to 50 HZ)

Options

- H1 edible oil
- Compabloc IAW: stainless steel gearbox shaft



HARSH AT

Impact resistance tests

conforming to standard EN 50102

IP55 te

conforming
IEC 60034-

VENTILATED ALPAX MOTORS WITH OR WITHOUT BRAKE

Innovation!



Shield: Seals, deflectors and sealed bearings
Terminal box with enhanced dust and damp protection:
Special seal, screws and cable gland



- Stainless steel screws, tie rods and nameplate
- RAL 9010 finish
- Variable speed at constant torque in S1 duty (25 to 50 Hz)

GEARED MOTORS

MULTIBLOC IA

Innovations!



Hollow hub with helical grooves:
For maximum ease of assembly and disassembly



Sealing cartridge (optional): Allows high-pressure cleaning and protects the coupling with the client shaft from corrosion



Supplied with carton of grease

DECENTRALISED ELECTRONICS

PROXIDRIVE

Innovation!



IP66 sealed design:
Locked weatherproof seals, stainless steel cable gland support plate

IP 66
IK 08



- Drive without cabinet
- Designed without any retention zones
- Conforming to hygiene regulations
- **Materials resistant to aggressive liquids**
- Easy to install

THE FOOD INDUSTRY

MOSPHERE

ests

g to standard

5

Enhanced dust and damp protection

FCR brake



- Same finish as the motor
- Brake and cover treated on inside and outside
- **Anti-corrosion protection and anti-stick treatment on the brake armature**

Options

- *Stainless steel shaft and cover*
- *Metal cable gland*
- *Winding with epoxy coating*



COMPABLOC IA



- **Retention zones eliminated**
- Blanking of machining holes
- RAL 9010 finish
- Variable speed at constant torque in S1 duty (25 to 50 Hz)

Options

- *H1 edible oil*
- *Multibloc IA: sealing cartridge*



VARMECA



- **Same finish as the motor**
- Drive in the terminal box
- **Moulded IP65 electronics**
- Numerous options
- Easy, complete parameter setting



NORMAL

Products designed to operate together

Modular, complementary ranges

MOTORS

Standard or controlled applications



GEARED MOTORS

Right angle drive



Worm and wheel



Helical gears

ELECTRONICS

Centralised or decentralised variable speed drives





THE FOOD INDUSTRY

ATMOSPHERE

Guaranteed performance

Conformity with international regulations

With or without brake Fixed or variable speed



Axial output



Helical gears

vo geared motors with low backlash



FOOD INDUSTRY SERVICE

Services associated with the supply of drive systems

SERVICE PARTNERS

470 sales and service outlets worldwide

Locally based

Emergency stock



ON-SITE SERVICES

Equipment installation and removal

Maintenance contracts

- preventive
- predictive
- conditional

Performance monitoring

- vibrational analysis, network analysis
- motor, balancing measurements
- LASER alignment, thermal analysis, ultrasound



THE FOOD INDUSTRY

FOOD INDUSTRY SERVICE

Services associated with the supply of drive systems

FOOD INDUSTRY SYSTEM SELECTION GUIDE



Product description

Selection charts

Electrical characteristics

Dimensions

Delivery Time chart

ONLINE

FOOD INDUSTRY SYSTEM selection guide

Configurator: 3D views, product data sheets, etc.

Catalogue for Industry

Commissioning and maintenance manuals

Recommendations for assembly

www.emersonindustrial.com

TRAINING



Training provided on site or at the CFE
(Leroy-Somer Training Centre)

Training in installation

Training in operation and
maintenance of drive systems



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en-2013.10/1

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