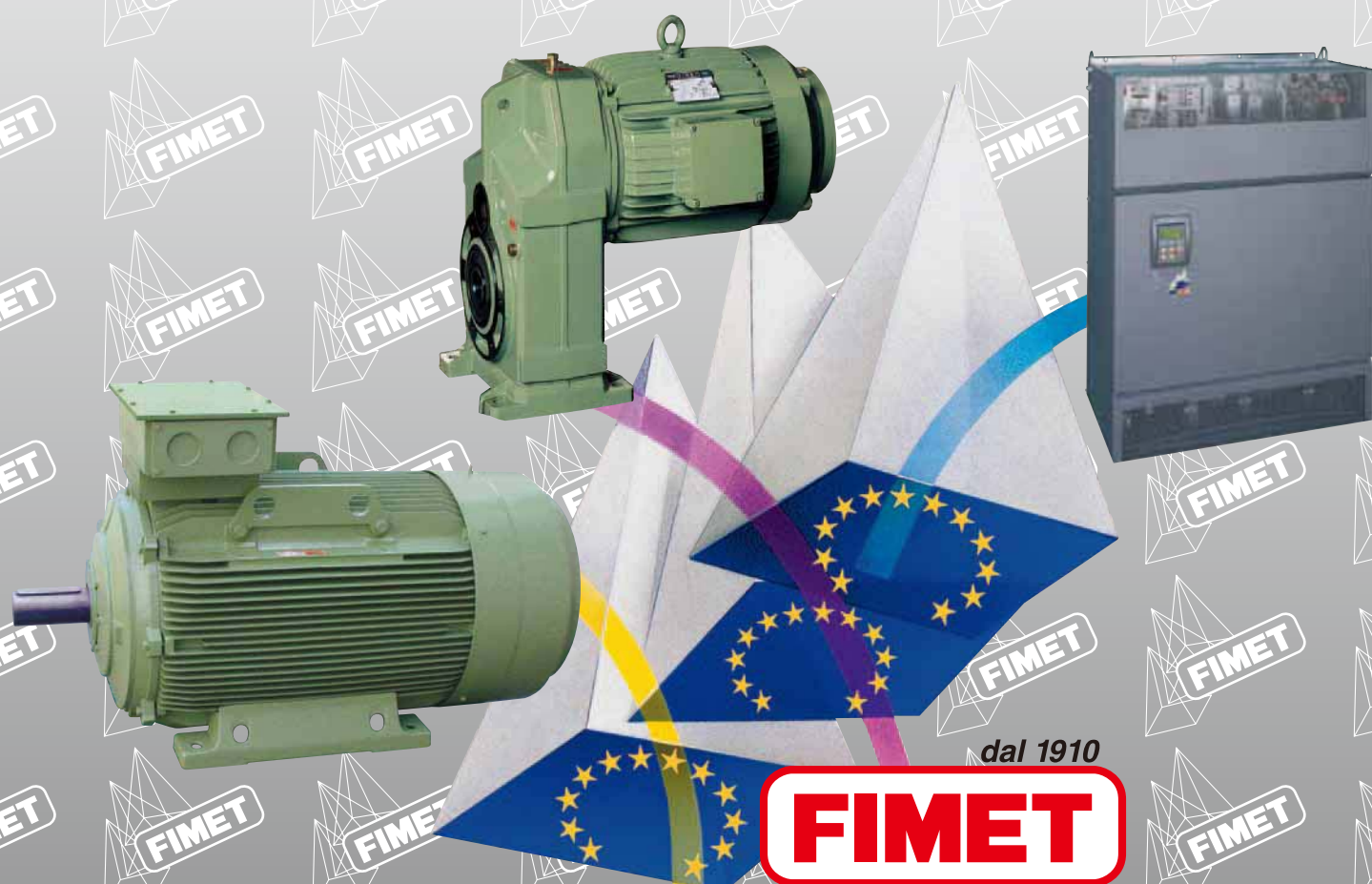


变频器，电动机，齿轮箱完美的组合 Inverters, motors and gearboxes: perfect integration

三相异步电动机
three-phase induction motors

减速器
reduction gears

变频器
inverters



dal 1910

FIMET

自 1910 年成立以来, 菲麦特公司在电力驱动产品的制造方面建立起高标准的设计工艺生产体系, 我们在意大利 BRA 的工厂, 主要生产如下产品。

Since its beginning in 1910 FIMET S.p.A. has gained the technological know-how necessary to set high standards in the manufacturing of power drives. The production range of our workshop in BRA (Italy), is illustrated herebelow.



IEC系列标准低压三相异步电动机 0.045 .. 1000 kW - IP55 及中电压

LOW VOLTAGE STANDARD IEC THREE-PHASE MOTORS 0.045 .. 1000 kW - IP55 AND MEDIUM VOLTAGE

类型:

- 压铸鼠笼转子
- 单速和多速
- 制动电机
- 特殊设计的风机, 压力机用途



- 高级效率电动机(IE2-IE3)



- 水冷电机
- ATEX证书, IP65粉尘环境区域21和22, 气体区域2

- 矢量控制

- 直流电机

防护:

- 热带, 特殊的腐蚀环境

设计:

- 根据国家和国际标准

认证: R.I.N.A., L.L.R.R., ENEL性能要求

为了满足当今大部分的变频器使用IGBT晶体管并应用于大的变频范围的要求, FIMET电动机采用了如下的特殊解决方案:

— 绕组采用了双层绝缘的铜导线

— 加强了相间绕组的绝缘

— 加强了绕组端线的绝缘

— 绕组采用了真空沉浸

高标准的设计和先进的工艺质量体系保证了FIMET电机与传统电机相比具有更长寿命和更高效率的特点。

FIMET 应用的模块化概念使电机在变频器控制下更容易获得如下组合:

强迫通风单元

制动器+强迫通风单元

制动器+强迫通风单元

制动器+编码器+强迫通风单元

Types:

- die-cast squirrel cage rotors
- single and multispeed
- brake-motors
- special versions for presses and fans



- high efficiency (IE2-IE3)



- water cooled

- ATEX certified IP65 dust atmospheres zone 21 and 22, gas zone 2

- vectorials

- DC motors

Protections:

- tropical, special executions for aggressive environments

Design:

- according to national and international standards

Executions:

- as for R.I.N.A., L.L.R.R., ENEL, specifications

Since nowadays most Inverters make use of IGBT transistor working at high switching frequencies, FIMET produces motors featuring this requirement and in particular with:

- windings with double insulation copper wire

- separation of the phase windings

- accurate insulation of the winding terminal wires

- windings impregnation by immersion

High design standard and improved process quality ensure longer motor life time and higher efficiency as compared to traditional motors.

The use of INVERTER is made easier by the modular concept applied by FIMET to motor production which enables the following motor configurations:

- with FORCED VENTILATION

- with ENCODER + FORCED VENTILATION

- with BRAKE + FORCED VENTILATION

- with BRAKE + ENCODER + FORCED VENTILATION





齿轮电机和齿轮箱 GEARMOTORS and GEARBOXES

齿轮箱可以与单速或多速电机偶合，也适用于自制动，有紧凑型或与B5标准电机联结的两种结构型式。

所有齿轮均按ISO标准设计。

结构型式如下：

同 轴：最大输入功率为90kW,最大输出转矩19000Nm，铸铁箱体磨削或剃削的齿轮；1. 2. 3 或 4 级变速。

平行轴，轴安装：最大输出功率60kW，最大输出转矩6400Nm，整体铸铁箱体，磨削或剃削的齿轮；2, 3 或 4 级变速；空心轴或伸出轴输出。

平行轴：最大输入功率为9200 kW,最大输出转矩490000 Nm；斜齿圆柱齿轮：空心轴或单、双伸出型输出轴。

侧出轴：最大输入功率为2400 kW,最大输出转矩525000 Nm；螺旋伞齿轮和圆柱齿轮：空心轴或单、双伸出型输出轴。

涡轮（杆）：最大输入功率为7.5 kW,最大输出转矩1600 Nm。这种齿轮箱与市场中的大部分普通产品保持尺寸的兼容性。

The gearmotors are coupled to single-speed or multispeed motors, in self-braking version as well, and they are available in "compact version" or equipped with standard B5-motors.

All gears are designed according to ISO standards.

Following types are available:

COAXIALS: input power up to 90 kW and output torque up to 19.000 Nm;

cast-iron housing; ground or shaved gears; 1, 2, 3 or 4 reduction steps

PARALLEL, SHAFT MOUNTED: input power up to 60 kW and output torque up to 6.400 Nm; monobloc cast-iron housing, ground or shaved gears; 2, 3 or 4 reduction steps; hollow or projecting output shaft

PARALLEL SHAFT: input power up to 9.200 kW and output torque up to 490.000 Nm; helical cylindrical gears; hollow or single or double projecting output shaft

BEVEL: input power up to 2.400 kW and output torque up to 525.000 Nm; helical bevel and cylindrical gears; hollow or single or double projecting output shaft

WORM GEARS: input power up to 7.5 kW and output torque up to 1.600 Nm. These gearboxes are dimensionally compatible with the most common products on the market.



变 速 器: 0.37 .. 630 kW

CE 标志

INVERTERS: 0.37 .. 630 kW

CE marking

ESM 0,37.. 2,2 kW 1x 180.. 264V 48..62Hz open loop/开环
0,37.. 22 kW 3x400.. 480V 48..62Hz open loop/开环

VECTOR 0,55..22kW 3x 320..550V 48..65Hz
closed loop, application plus./闭环控制,有应用软件

AGy 30..200kW 3x230..480V 50..60Hz
open loop(closed loop option)/开环(闭环可选)

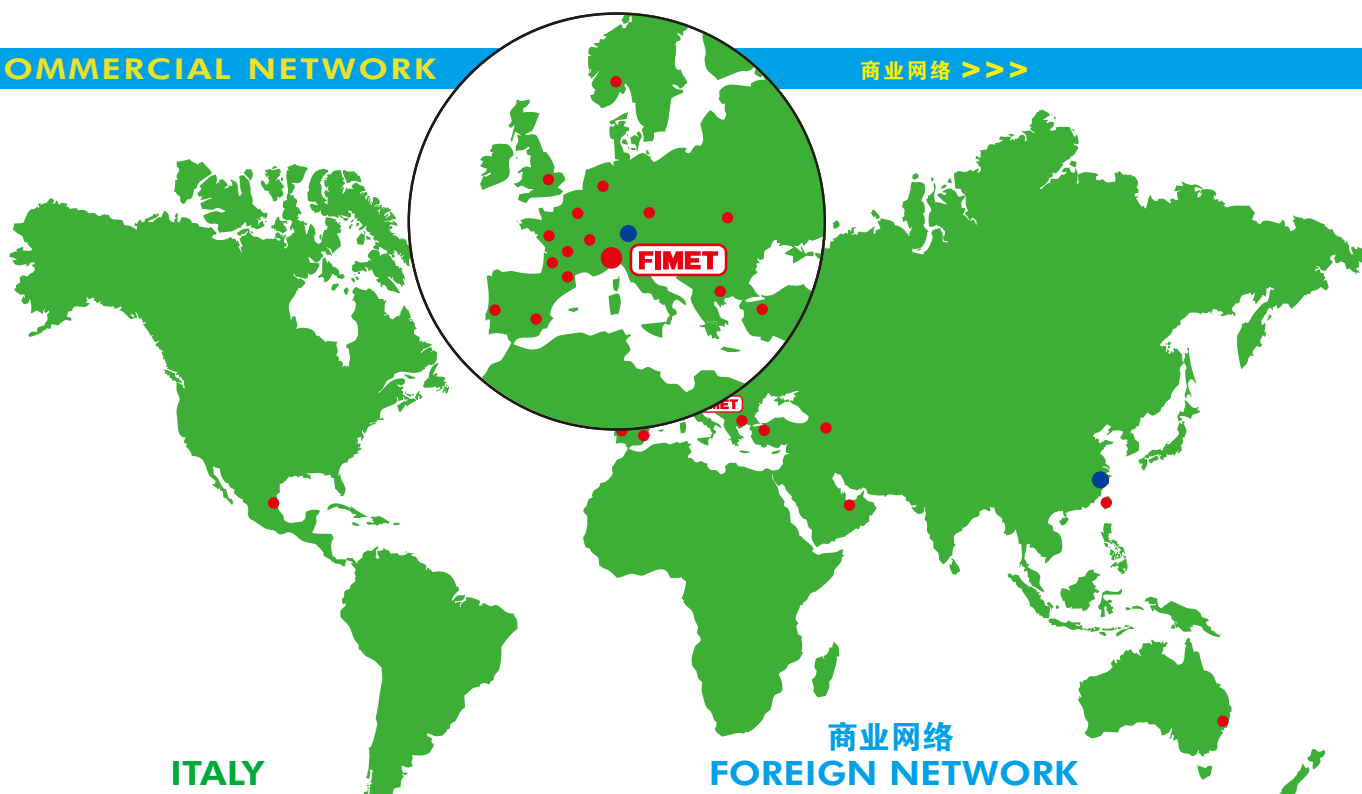
AVy 30..630kW 3x230.. 480V 50..60Hz
open loop and closed loop, application plus
开环和闭环控制，用应用软件

MOTEC inverter on-board motor/变频器在顶部的马达
0,55..7,5 kW 3x 320..550V 45..65Hz
open and closed loop/开环和闭环控制

SOFT-START 4 .. 800 kW/软启动器 4..800kW
DX 4..400 kW 220..600V 45..65Hz
逐步升压启动/ integrated by-pass voltage by-pass

CSD 450..800 kW 200..690V 50..60Hz



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