

Synchronous motor combining reluctance & permanent magnets



Energy saving & CO2 emission reduction

- IE5 Ultra premium efficiency
- Lowest Total Cost of Ownership
- Best in class energy saving technology in real use on cycle
- High-end efficiency level over the whole operating speed range
- 30% less losses compared to IE4 induction motors
- Quick return on investment compared to induction solutions



Repairable & Recyclable motors

- Repairable without loss of efficiency by our authorized partners
- Motors easily recyclable through WEEE professionals
- Winding impregnated with solvent-free varnish
- 4 pole winding
- No rare earth magnets



Designed for Variable Speed

- Winding and bearing insulation adapted to variable speed applications
- Bearing size calibrated for variable speed
- Variable speed constant torque capabilities without additional forced ventilation
- Sensor & Sensorless mode



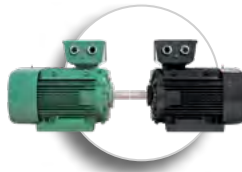
Proven performances

- Accurate speed and torque control
- Reduced losses, no overheating for better motor efficiency
- Guaranteed torque on an extended speed range
- High starting torque (sensorless mode)



Robust & Reliable

- Ferrite magnets
- Rugged mechanism using the same components as induction motors
- Designed with 25K thermal reserve
- PTC & PT1000 thermal protections included



IEC Interchangeable range

- Equivalent to IEC mechanical dimensions : same flange, shaft, frame size and footprint
- Ideal to modernize an existing machine to an IE5 solution without mechanical modifications
- 1,500 rpm 11 to 200 kW or 3,000 rpm 11 to 355 kW
- Aluminium or Cast iron housing



Compact range

- One of the highest power-to-weight ratios on the market
- Reduced footprint and weight
- Easy integration into machines with energy optimization
- 1,500 to 6,000 rpm // 15.5 kW to 500 kW
- Aluminium or Steel housing



Interactive commissioning with Systemiz App

- Easy set-up via QR code
- Direct access to documentation



Suitable for Process & Utilities

- Centrifugal & constant torque applications
- Fan, compressor, pump, crusher, grinder, extruders and many more applications



Less & Easy maintenance

- As simple to assemble / dismantle as induction motors
- Easy to install & connect with the innovative terminal box
- Extended lubrication intervals
- Reduced maintenance cost



Made in Europe

- Short supply chain from manufacturing to customers
- Limited transport contingencies

Dy nec+ Synchro-reluctant permanent magnets motor range



LSHRM

Aluminium IP55
Frame size 132 to 315 mm
1,500 to 6,000 rpm
11 to 355 kW
IEC Interchangeable & Compact

FLSHRM

Cast iron IP55
Frame size 280 to 355 mm
1,500 - 3,600 rpm
75 to 355 kW
IEC Interchangeable

PLSHRM

Open Drip Proof IP23
Frame size 315 mm
2,600 to 4,500 rpm
380 to 500 kW
Compact

