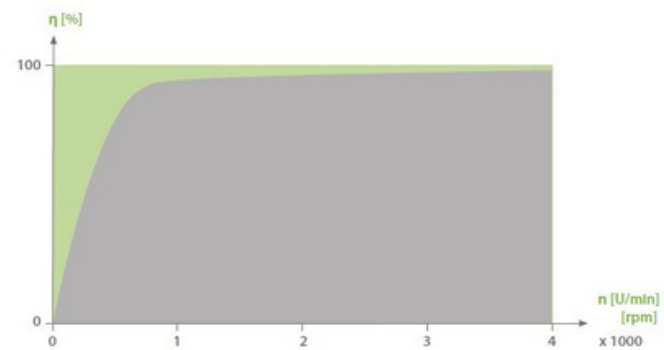
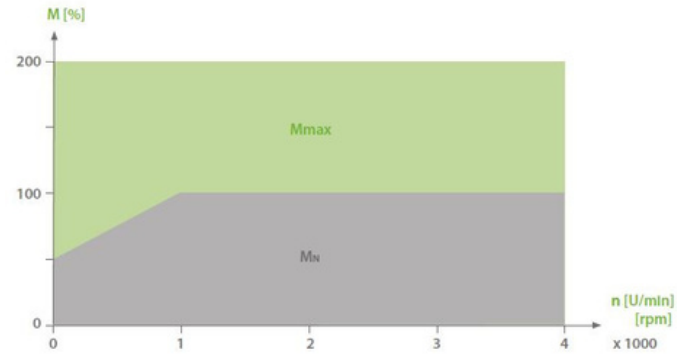


The MPM Series

IE4 / IE5 Premium Hybrid Motors
Ultra Premium Efficiency



Serial Design

The IE4 / IE5 Premium Hybrid Motors have buried permanent magnets in the rotor providing superior performance and efficiency. The stator includes a three-phase winding that can be wired as Delta or Y configuration and can be run by a standard Inverter Drive. The motor is brushless and is electrically commutated by the drive/inverter. A fan can be mounted on the B-side shaft for speed-dependent cooling.

Special Design

The in-house production of all components allows the possibility to customize the MPM Series (**M**ovinor **P**ermanent-magnet **M**otor) according to the application requirements. The MPM Series uses the basic physical principle of the synchronous motor and combines it with other elements of a proven serial production motor.

MPM Series - The Facts

+ Efficiency up to 98% (Pure Sinus)

- Optimum Energy

+ Choice of Motor Sizes

- 80L
- 90LL
- 112M
- 132M
- 160L

+ Frequency inverters with software that has Sensorless Vector Control

- Torque Control
- Speed Control (Without Slip)
- Positioning (Partially)
- Programmable Acc. and Dec.
- Speed and Power Adjustments Vs Current Load
- Field Weakening

+ Feedback Not Needed

- Space and Cost Savings
- Sensorless Vector Control is sufficient in its accuracy and bandwidth for many applications

+ Ventilation on B-Side

- A fan wheel increases the motor power by evacuating heat faster

+ Cos ϕ Near 1.0

- Optimum current

+ Standard IP Class of 55

+ 6 Pole Motor



MPM Series - Data

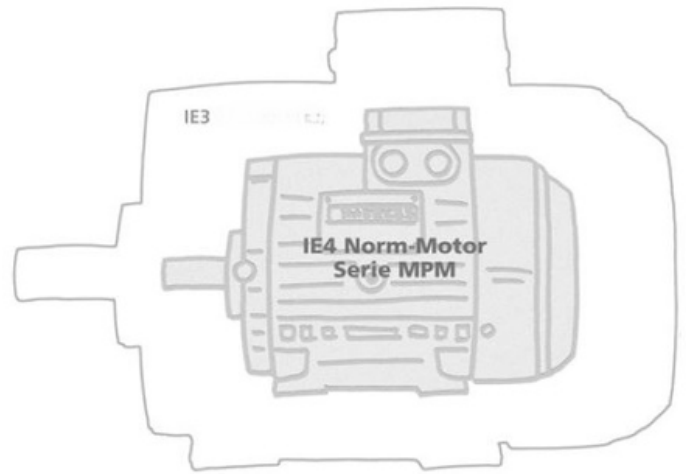
Motor Type	M [Nm]	Delta - Connection			Y - Connection		
		n [RPM]	P [kW]	Eff [%]	n [RPM]	P [kW]	Eff [%]
MPM 80L	12.5	4,000	5.2	93.6	4,000	3.0	93.5
MPM 90LL	27.0		11.3	94.0		6.5	93.8
MPM 112M	45.3		18.9	95.2		10.9	95.1
MPM 132M	76.4		32.0	95.1		18.4	95.5
MPM 160L	129.5		54.0	94.4		31.2	96.0

Motor Type	Weight By Mount Selection [kg]				
	B3	B14	B5	B34	B35
MPM 80L	12.6	12.4	12.7	12.6	13.0
MPM 90LL	18.6	18.3	18.7	18.6	18.9
MPM 112M	34.7	34.5	35.1	35.1	35.5
MPM 132M	55.0	54.9	56.0	55.0	56.1
MPM 160L	98.0	102.6	99.5	102.8	99.6

Advanced Design

The advanced motor design allows for higher speeds and torque in combination with a smaller footprint and lower losses. For today's challenges efficiency according to IE5 can be achieved. The synchronous motor technology in a classic motor housing fulfills the economic requirements making it ideal for speed-controlled applications with high duty cycles and/or high partial loads.

Five frame sizes cover the power range of 1.1 to 54 kW.



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