

Compact and dynamic for inverter operation.



Dynamic, inverter-optimized three-phase AC motor for variable movements.

Power range:
0.75 to 30 Hp (13.5 to 524 lbs.-in.)

This high efficiency powerhouse is ideally suited to applications that require large setting ranges in conjunction with compact dimensions.

Features

- More dynamic than a conventional three-phase AC motor
- More energy-efficient than IE2
- Available in the models B3, B5, B14 (4-pole) and as geared motors (2-pole, 4-pole and 6-pole)
- Up to 24:1 (5-120 Hz) turndown ratio at constant torque available when operated via inverter
- Enclosure IP55
- Inverter-compatible windings as standard

Technology – Inverter-optimized MF AC motors – An overview

Specifications Inverter operation at 120 Hz

Size		063	071	080	090	100	112	132
Rated power	P [Hp]	0.75	1.5	3.0	5.0	7.5	15	20
		1.0	2.0	4.0		10		25 30
Rated current	I [A]	1.8	3.2	5.3	8.5	12.9	23.5	31.2
		2.3	3.9	6.6		15.9		39 44.5
Rated torque	M [lbs.-in.]	13.5	26.6	53.1	96.5	132	263	357
		18.7	36.7	72.6		180		439 524
Rated speed	n [rpm]	3440	3490	3500	3480	3525	3530	3560
		3400	3450	3480		3515		3560 3550

The modular system for your application

Thanks to their flexible modular design, the three-phase AC motors are ideal for use with any application:

- Brake attachments
 - Scalable braking torques
 - Long-life design
 - Various controls
- Feedback systems
 - Resolver
 - Incremental encoder
 - Absolute value encoder
- Self-ventilated or separate blower
- Connection options
 - Plug connectors
 - Terminal box
- Various thermal sensors

Other properties

Degree of protection	IP55
EN 60529	
Energy efficiency class	Better than IE2
Approvals	cURus, CCC and UkrSepro
Temperature class	B
IEC / EN 60034-1 utilization	
IEC / EN 60034-1 insulation system	F
Climatic conditions	-30°C to +60°C (-22°F to +140°F)
Storage temperature	
Operating temperature	-20°C to +40°C (-4°F to +104°F)
Connection	Terminal box or plug connectors
Power connection	
Brake connection	
Blower connection	
Feedback connection	
Color	Primered Uncoated Paint in various corrosion-protection designs in accordance with RAL colors