

# Compact and dynamic for inverter operation.



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**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
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
Rated torque	M [lbs.-in.]	13.5	26.6	53.1	96.5	132	263	357
		18.7	36.7	72.6		180		439
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

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