

# Efficient and flexible for basic machine duties.



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**Energy-efficient three-phase AC motor for constant and variable motion.**

**Power range:**

**1.0 to 60 Hp (36.8 to 2133 lbs.-in.)**

**Suitable for energy-efficient mains operation and inverter operation.**

## Features

- IE2 energy efficient
- Available in the models B3, B5, B14 (4-pole) and as geared motors (2-pole, 4-pole and 6-pole)
- Up to 17.4:1 (5-87 Hz) turndown ratio at constant torque available when operated via inverter
- Enclosure IP55
- Inverter-compatible windings as standard

# IE2 technology – MH AC motors – An overview

## Specifications at 60 Hz, 460 V

Size		080	090	100	112	132	160	180	225
Rated power	P [Hp]	1.0	1.5 2.0	3.0 4.0	5.0	7.5 10	15 20	25 30 40	50 60
Rated current	I [A]	1.8	2.7 3.3	5.7	8.4	11.9 15.6	21.8 29.1	34 39.8 53.9	65 79
Rated torque	M [lbs.-in.]	36.8	53.5 72.7	106 144	192	262 359	524 714	881 1044 1434	1752 2133
Rated speed	n [rpm]	1410	1430 1435	1445 1445	1455	1470 1460	1470 1470	1475 1470 1465	1483 1480

### 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>	
IEC 60034	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	
Separate fan connection	
Feedback connection	Terminal box or plug connectors
<b>Color</b>	
	Primered Uncoated Paint in various corrosion-protection designs in accordance with RAL colors