

# Flexible for basic machine duties.



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**Three-phase AC motor (IE1) for constant and variable movements.**

**Power range:**

**0.12 to 45 kW (0.8 to 144 Nm)**

**Suitable both for mains operation and inverter operation.**

## Features

- IE1 energy efficient
- Low moments of inertia for high dynamic performance
- Available in the models B3, B5, B14 (4-pole) and as geared motors (2-pole, 4-pole and 6-pole)
- Setting range during inverter operation up to 1:17.4 with constant torque
- Enclosure IP55
- Inverter-compatible windings as standard

# IE1 technology – MD AC motors – An overview

## Specifications at 50 Hz, 400 V

Size		063	071	080	090	100	112	132	160	180
Rated power	P [kW]	0.12	0.25	0.55	1.1	2.2	4.0	5.5	11	18.5
		0.18	0.37	0.75	1.5	3.0		7.5	15	22
		0.25	0.55	1.1						
Rated current	I [A]	0.49	0.75	1.4	2.8	5.3	9.3	11.7	21	32.8
		0.58	0.95	1.9	3.8	7.2		16.5	27.8	38.8
		0.82	1.4	2.8						
Rated torque	M [Nm]	0.8	1.74	3.8	7.56	14.6	26.3	36.2	71.9	120
		1.26	2.51	5.1	10.1	20.5		49.2	98.1	144
		1.74	3.74	7.5						
Rated speed	n [rpm]	1425	1370	1390	1390	1440	1450	1450	1460	1470
		1365	1410	1410	1410	1430		1455	1460	1465
		1370	1405	1390						

## 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	IE1
<b>Approvals</b>	
	cURus, EAC, CCC and UkrSepro
<b>Temperature class</b>	
IEC / EN 60034-1 utilisation	B
IEC / EN 60034-1 insulation system	F
<b>Climatic conditions</b>	
Storage temperature	-30°C to +60°C
Operating temperature	-20°C to +40°C
<b>Connection</b>	
Power connection	Terminal box or plug connectors
Brake connection	
Separate fan connection	
Feedback connection	
<b>Colour</b>	
	Primered Uncoated Paint in various corrosion-protection designs in accordance with RAL colours