

Flexible for basic machine duties.



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

Degree of protection	
EN 60529	IP55
Energy efficiency class	
IEC 60034	IE1
Approvals	
	cURus, EAC, CCC and UkrSepro
Temperature class	
IEC / EN 60034-1 utilisation	B
IEC / EN 60034-1 insulation system	F
Climatic conditions	
Storage temperature	-30°C to +60°C
Operating temperature	-20°C to +40°C
Connection	
Power connection	Terminal box or plug connectors
Brake connection	
Separate fan connection	
Feedback connection	
Colour	
	Primered Uncoated Paint in various corrosion-protection designs in accordance with RAL colours