

Flexible for basic machine duties.



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

Power range:

0.16 to 30 Hp (5.8 to 1053 lbs.-in.)

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)
- 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

IE1 technology – MD AC motors – An overview

Specifications at 60 Hz, 460 V

| Size | | 063 | 071 | 080 | 090 | 100 | 112 | 132 | 160 | 180 |
|---------------|-----------------|------|------|------|------|------|------|------|------|------|
| Rated power | P [Hp] | 0.16 | 0.33 | 0.75 | 1.5 | 3.0 | 5.0 | 7.5 | 15 | 25 |
| | | 0.25 | 0.50 | 1.00 | 2.0 | 4.0 | | 10 | 20 | 30 |
| | | 0.33 | 0.75 | 1.50 | | | | | | |
| 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 [lbs.-in.] | 5.8 | 12.4 | 27.4 | 54.7 | 106 | 193 | 265 | 527 | 879 |
| | | 8.9 | 18.1 | 36.8 | 73.7 | 146 | | 360 | 719 | 1053 |
| | | 12.4 | 27.0 | 54.5 | | | | | | |
| 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 utilization | B |
| IEC / EN 60034-1 insulation system | F |
| Climatic conditions | |
| Storage temperature | -30°C to +60°C (-22°F to +140°F) |
| Operating temperature | -20°C to +40°C (-4°F to +104°F) |
| Connection | |
| Power connection | Terminal box or plug connectors |
| Brake connection | |
| Separate fan connection | |
| Feedback connection | |
| Color | |
| | Primered Uncoated |
| | Paint in various corrosion-protection designs in accordance with RAL colors |