

IE3 Electric Motors



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In addition to saved energy costs, Wonderpower high efficiency motors also help save operating costs by providing increased reliability, reduced downtime and lower maintenance costs. They have a better tolerance to thermal stresses, an improved ability to handle overload conditions, higher resistance to abnormal operating conditions, and an increased tolerance to inconsistent and noisy voltage and current wave shapes.

Other options can be offered as required:

- Three phase NEMA super efficiency motors
- Fan motors
- Smoke extraction motors
- Oil immersed motors
- Hydraulic DC motors
- Water pump IP23 motors

For an easy conversion, there is no change in size for efficiency class IE3.

SWEA SERIES, ALUMINIUM, 3 PHASE

Three Phase Premium Efficiency TEFC Aluminium Induction Motor

Strong, lightweight and corrosion resistant, Wonderpower aluminium electric motors are ideal for use in many applications including power packs.

SWEA series range includes:

Frame size: 80-180

Output power: 0.75kW-22kW

No. of poles: 2, 4, 6, 8

Degree of protection: IP55, IP56, IP65, IP66

Voltage: rated voltage 400V, from 220V to 690V may be supplied upon request

Frequency: 50Hz or 60Hz

Insulation class: "F" class as standard, ("H" class is available upon request)

Temperature: Class B (80K)

Enclosure: TEFC

Bearing: SKF/NTN/NSK

Basic type of construction: B3, B5, B35, B14, B34

Cooling method: IC411

IE3 efficiency testing method:

IEC60034-2-1:2007

Other options can be offered as required:

- Thermal sensors: PTC, PT100 for windings and/or bearings
- Space heater for anti-humidity
- Driving application: NU roller bearings, angular contact bearings, insulated bearings
- Cast iron DE cover: for larger bearings and more stable running
- Paint suitable for hazardous environments including high humidity and highly salty areas
- Stainless steel shaft: stronger rigidity, anti-corrosion
- Terminal box: from D-end, can be on top, right or left (due to flexible feet mounting)
- Cable gland and blind cap: plastic, copper, steel or stainless steel, fly lead
- IP56, IP65, IP66
- Power factor: 1.0, 1.15, 1.25
- IC410, TENV enclosure
- H insulation class for higher temperature environments
- Rain canopy
- FDF unit
- Trop localisation



4 Pole, 400V/50Hz, B35 (Foot & Flange) Mounting, IP55 Rated

0452	KW	Frame Size	Model	£
SWEA80M2-4	0.75	80M2	SWEA80M2-4 0.75KW 400/3/50 B35	172.15
SWEA90S-4	1.1	90S	SWEA90S-4 1.1KW 400/3/50 B35	209.50
SWEA90L-4	1.5	90L	SWEA90L-4 1.5KW 400/3/50 B35	241.35
SWEA100L1-4	2.2	100L1	SWEA100L1-4 2.2KW 400/3/50 B35	317.00
SWEA100L2-4	3	100L2	SWEA100L2-4 3.0KW 400/3/50 B35	366.00
SWEA112M-4	4	112M	SWEA112M-4 4.0KW 400/3/50 B35	380.65
SWEA132S-4	5.5	132S	SWEA132S-4 5.5KW 400/3/50 B35	543.20
SWEA132M-4	7.5	132M	SWEA132M-4 7.5KW 400/3/50 B35	618.05
SWEA160M-4	11	160M	SWEA160M-4 11.0KW 400/3/50 B35	1095.95
SWEA160L-4	15	160L	SWEA160L-4 15.0KW 400/3/50 B35	1257.35
SWEA180M-4	18.5	180M	SWEA180M-4 18.5KW 400/3/50 B35	1527.05
SWEA180L-4	22	180L	SWEA180L-4 22.0KW 400/3/50 B35	1656.30



4 Pole, 400V/50Hz, B3 Mounting, IP55 Rated

0452	KW	Frame Size	Model	£
SWEA80M2-4-B3	0.75	80M2	SWEA80M2-4 0.75KW 400/3/50 B3	184.20
SWEA90S-4-B3	1.1	90S	SWEA90S-4 1.1KW 400/3/50 B3	258.75
SWEA90L-4-B3	1.5	90L	SWEA90L-4 1.5KW 400/3/50 B3	226.90
SWEA100L1-4-B3	2.2	100L1	SWEA100L1-4 2.2KW 400/3/50 B3	336.80
SWEA100L2-4-B3	3	100L2	SWEA100L2-4 3.0KW 400/3/50 B3	385.85
SWEA112M-4-B3	4	112M	SWEA112M-4 4.0KW 400/3/50 B3	405.15
SWEA132S-4-B3	5.5	132S	SWEA132S-4 5.5KW 400/3/50 B3	586.55
SWEA132M-4-B3	7.5	132M	SWEA132M-4 7.5KW 400/3/50 B3	661.30
SWEA160M-4-B3	11	160M	SWEA160M-4 11.0KW 400/3/50 B3	1162.55
SWEA160L-4-B3	15	160L	SWEA160L-4 15.0KW 400/3/50 B3	1323.85
SWEA180M-4-B3	18.5	180M	SWEA180M-4 18.5KW 400/3/50 B3	1614.50
SWEA180L-4-B3	22	180L	SWEA180L-4 22.0KW 400/3/50 B3	1743.85