



Keeping Industry Turning

WE3 & WE4 AC Motors

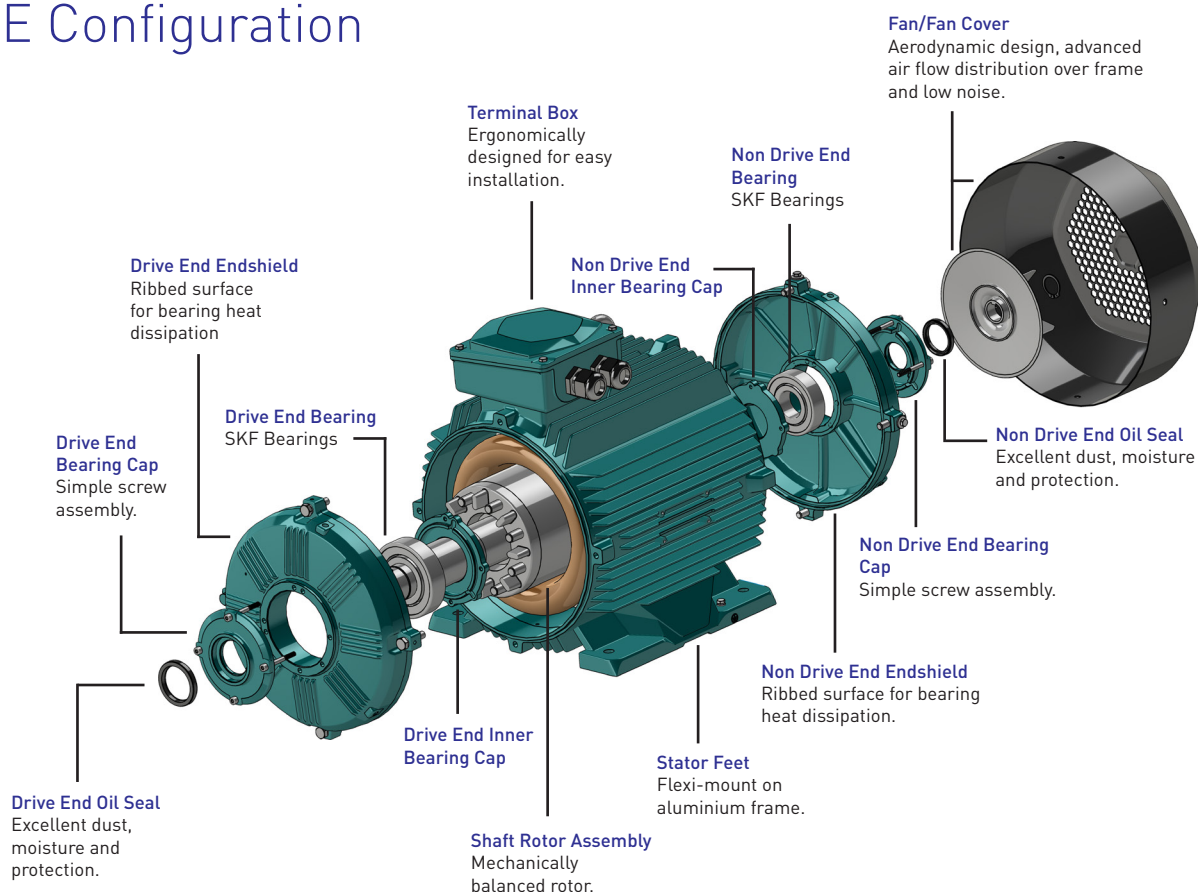
Frame size 63-355

WE Specification

	Standard product	Option
Frame material	63 to 160 aluminium 80 to 355 cast iron	- -
Enclosure	IP55	IP56, IP65
Mounting option	Foot (B3), Flange (B5), Face (B14) Foot & Flange (B35), Foot & Face (B34)	-
Standard terminal box position	Top	-
Voltage	3kW and below 230/400/50Hz & 460/60Hz 4kW and above 400/690/50Hz & 460/60Hz	- -
Frequency	50Hz	60Hz
Cooling	IC411	IC416, IC418
Insulation	Class F	Class H
Thermal protection	Thermistors (PTC)	Thermostats (PTO), Thermistors (PTC) or RTDS
Anti-condensation heaters	-	110V or 220 to 240V
Ambient	-20°C to +40°C	-
Altitude	up to 1000m above sea level	see page 34
Lubrication	63 to 180 - sealed for life bearings 200 to 355 - regreasing	160 to 180 regreasing -
Inverter Duty (with derate)	Variable Torque: 10:1 Constant Torque: 2:1	option with derate option with derate
Paint colour	Water blue (RAL 5021)	-

The above specification and options give a brief summary of features available for the WE range.
For a full listing of optional features, please contact Brook Crompton sales.

WE Configuration



Features and Comparisons

Performance



- Frame Sizes 63-355 (AL 63-160) (CL 80-355)
- Outputs 0.18-375kW
- Speed Range 2-8P
- IE3 Premium and IE4 Super Premium Efficiency (IEC 60034-30-1)
- TEFC

Construction



- IC411 Bi-directional radial-flow fan
- C3 Paint, motor frame RAL 5021 water blue, fan cover RAL9005 jet black
- Rotors dynamically balanced to G2.5
- Feet: AL- Moveable Feet, CI- Fixed Feet
- Cast Iron housing - CI T/Box. Aluminium housing - AL T/Box

Benefits & Features



- 3 x 150PTC Thermistors
- Enclosure IP55
- Inverter duty rated (with derate)
- Class F insulation, Class B temperature rise
- 2 year warranty as standard

WE3 & 4 Safe-area Range

These motors are designed, tested and manufactured in accordance with the latest IEC/EN standards.

Benefits Include:

- Full output range to meet your requirements
- Efficiencies comply with EN60034-30 (IE3)
- Robust construction for long life
- Mountings: foot, flange, face or combination
- Aluminium frame with detachable feet
- Euro Voltage: up to 3kW 230/400V; 4kW and above 400/690V
- Dual frequency (50-60Hz)
- IE3 or IE4 efficiency
- IP55
- Metal fan cover
- Metric entries
- Thermal protection fitted as standard
- Inverter duty
- SKF Bearing as standard
- Inverter duty

WE Frames to kW

WE3 and WE4 share the same frame sizes to kW.

The table shows frame size vs kW in both Cast Iron and Aluminium constructions.

CI	2P	4P	6P	8P
80M	0.75 and 1.1	0.55 and 0.75	0.37 and 0.55	-
90S	1.5	1.1	0.75	-
90L	2.2	1.5	1.1	-
100L	3.0	2.2 and 3.0	1.5	0.75 and 1.1
112M	4.0	4.0	2.2	1.5
132S	5.5 and 7.5	5.5	3.0	2.2
132M	-	7.5	4.0 and 5.5	3.0
160M	11 and 15	11	7.5	4.0 and 5.5
160L	18.5	15	11	7.5
180M	22	18.5	15	-
180L	-	22	-	11
200L	30 and 37	30	18.5 and 22	15
225S	-	37	-	18.5
225M	45	45	30	22
250M	55	55	37	30
280S	75	75	45	37
280M	90	90	55	45
315S	110	110	75	55
315M	132	132	90	75
315L	160 and 185 and 200	160 and 185 and 200	110 and 132	90 and 110
355M	220 and 250	220 and 250	160 and 200	132 and 160
355L	280 and 315	280 and 315	220 and 250	200
355	355 and 375	355 and 375	280 and 315	-

AL	2P	4P	6P
63M	0.18 and 0.25	0.12 and 0.18	-
71M	0.37 and 0.55	0.25 and 0.37	0.18 and 0.25
80M	0.75 and 1.1	0.55 and 0.75	0.37 and 0.55
90S	1.5	1.1	0.75
90L	2.2	1.5	1.1
100L	3.0	2.2 and 3.0	1.5
112M	4.0	4.0	2.2
132S	5.5 and 7.5	5.5	3.0
132M	-	7.5	4.0 and 5.5
160M	11 and 15	11	7.5
160L	18.5	15	11



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