



Keeping Industry Turning

WE3 & WE4 AC Motors

Aluminium 63-160

Cast Iron 80-355

**BROOK
CROMPTON** 
Keeping Industry Turning

2405 EN

WOLONG
Power your future

Introduction

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WE3 and WE4 specification

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
Located bearing position	Drive end	-
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.

Brook Crompton Keeping Industry Turning

Brook Crompton, the original innovator in electric motor development, is a leading provider of energy efficient electric motors. With over 120 years' technical & design expertise, UK-based Brook Crompton delivers consistently reliable electric motors to a global market.

Trusted to power limitless industrial activities across diverse market sectors, the robust design of Brook Crompton's electric motors drives fans, pumps, compressors, conveyors and more, every second, of every day, of every year.

Renowned for their adaptability, Brook Crompton's extensive motor stock can be modified to suit the needs of different market sectors, with technical support from the company's knowledgeable team readily available to ensure the correct selection of motors for any application.

For bespoke situations and complete flexibility, Brook Crompton will design and manufacture to meet individual customer specifications.

Brook Crompton has a long-standing reputation for efficient customer service, supporting customers worldwide through its global network. Specialist Brook Crompton Motor Centres operate alongside approved product distributors throughout the UK, mainland Europe, Middle East, Canada, USA, and Asia Pacific.

Shaping the future of electric motors, Brook Crompton is focused on the development of new products that improve energy efficiency, offer lower cost of ownership throughout the motor lifetime and reduce environmental impact.

Brook Crompton, the original innovator in electric motors.

Quality assurance

Stringent quality procedures are observed from first design to finished product in accordance with the ISO 9001 documented quality systems.

All factories have been assessed to meet these requirements.

WE3 & 4 Safe area Range

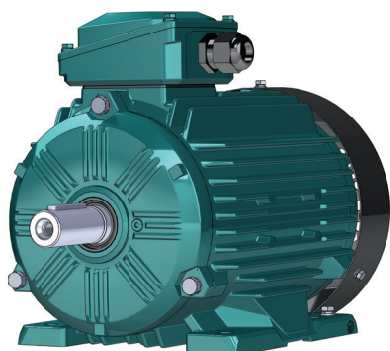
These motors are designed, tested and manufactured in accordance with the latest IEC / EN standards.

Outputs range from 0.12kW to 375kW with smaller or larger outputs available on request.

Frame sizes 63 to 355.

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
- 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



WE3 100L frame, Foot mounted (B3)

Standards, environment & efficiency

Standards

The WE range of motors are manufactured to the international standards listed below:

Standards		
Motors of cast iron construction are manufactured to the following international standards listed below:		
Standard	IEC	EN
Outputs	IEC 60072-1	EN 60072-1
Performance	IEC 60034-1	EN 60034-1
Dimensions	IEC 60072-1	EN 60072-1
Mounting	IEC 60034-7	EN 60034-7
Degrees of protection	IEC 60034-5	EN 60034-5
Starting	IEC 60034-12	EN 60034-12
Noise	IEC 60034-9	EN 60034-9
Efficiency	IEC 60034-30	EN 60034-30
Motors complying with IEC 60034-1 also comply with many of the national standards of other European countries.		

Environment Enclosure

All motors have degrees of IP protection as defined in EN 60034-5.

The standard arrangement is IP55.

See Specification on page 2 for alternatives.

Motor cooling

Motors are cooled in accordance with EN 60034-6.

The standard arrangement is IC411 (Totally Enclosed Fan Ventilated) via a fan mounted at the non-drive end.

European directives and regulations

Compliance with European Directives & Regulations applying to AC induction motors				
Directives / Regulation	Low voltage (LV)	Machinery (MD)	Electromagnetic compatibility (EMC)	Ecodesign regulation (ErP)
Reference numbers	2014/35/EU	2006/42/EC ⁽¹⁾	2014/30/EU	2019/1781 ⁽⁴⁾
Motor CE / UKCA* marked	Yes	No	No	Yes
Standards	EN 60034	Not applicable	EN 60034-1	EN 60034-30
Documentation for customers technical file	Declaration of conformity	Declaration of incorporation	Statement ⁽¹⁾	Declaration of conformity
Safety instructions with every motor	Yes	Yes	Yes	-
Comment	Relevant electrical equipment operating between 50 to 1000 volts AC	Statement ⁽²⁾	Component	Minimum efficiency levels (see Ecodesign requirements AC induction motors below)
* UKCA marked in accordance to the relevant Statutory Instruments and Designated Standards, with equivalence to the EU regulations quoted above.				
⁽¹⁾ Motors operating from a correctly applied, sinusoidal (AC) supply meet the requirements of the EMC directive and are within the limits specified in standard EN 60034-1				
⁽²⁾ When installed in accordance with our customer safety and installation and maintenance instructions, they can be put into service only when the machinery into which they are being incorporated, has been declared to be in conformity with the machinery directive in accordance with Article 6 (2) and Annex II, Part 1, Section B.				
⁽³⁾ Machinery Directive 2006/42/EC to be repealed in January 2027, replaced by Regulation (EU) 2023/1230.				
⁽⁴⁾ And amending Regulation (EU) 2021/341.				

Performance data

IE3

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Output conforming to IEC 60034
2 pole (3000min⁻¹) - Aluminium Construction 63-160

Rated power	Full load speed in revolutions per minute	Frame reference and size		Full load current at rated voltage			Efficiency	Power factor	Full load torque	Direct on line starting torque ratio	Direct on line pull up torque ratio	Direct on line pull out torque ratio	Direct on line starting current ratio	Star delta starting torque ratio	Star delta pull up torque ratio	Star delta starting current ratio	Rotor inertia Wk^2	Mean sound pressure level @ 1m on no load
P_N	n	Type		I_N			η	$\cos \varphi$										
kW (hp)	min ⁻¹			230V A	400V A	690V A	$\frac{1.0 P_N}{0.75 P_N}$ $\frac{0.5 P_N}{0.5 P_N}$	$\frac{1.0 P_N}{0.75 P_N}$ $\frac{0.5 P_N}{0.5 P_N}$	M_N Nm	$\frac{M_A}{M_N}$	$\frac{M_S}{M_N}$	$\frac{M_K}{M_N}$	$\frac{I_A}{I_N}$	$\frac{M_A}{M_N}$ Y	$\frac{M_S}{M_N}$ Y	$\frac{I_A}{I_N}$ Y	J kgm ²	L_{PA} dB(A)
0.18 (0.25)	2765	WE3-63M1-2	IE3	0.88	0.51	-	$\left\{ \begin{array}{l} 65.9 \\ 67.2 \\ 58.5 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.77 \\ 0.72 \\ 0.62 \end{array} \right\}$	0.62	2.2	1.9	2.3	7.1	-	-	-	0.00063	49
0.25 (0.33)	2770	WE3-63M2-2	IE3	1.14	0.66	-	$\left\{ \begin{array}{l} 69.7 \\ 71.1 \\ 60.3 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.78 \\ 0.74 \\ 0.63 \end{array} \right\}$	0.86	2.2	1.9	2.3	7.1	-	-	-	0.0008	49
0.37 (0.5)	2815	WE3-71M1-2	IE3	1.54	0.89	-	$\left\{ \begin{array}{l} 73.8 \\ 73.2 \\ 71.2 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.81 \\ 0.73 \\ 0.63 \end{array} \right\}$	1.26	2.3	2.0	2.2	7.0	-	-	-	0.00053	52
0.55 (0.75)	2835	WE3-71M2-2	IE3	2.15	1.24	-	$\left\{ \begin{array}{l} 77.8 \\ 77.6 \\ 75.3 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.82 \\ 0.74 \\ 0.64 \end{array} \right\}$	1.85	2.3	2.0	2.3	7.0	-	-	-	0.00066	52
0.75 (1.0)	2860	WE3-80M1-2	IE3	2.84	1.64	-	$\left\{ \begin{array}{l} 80.7 \\ 81.1 \\ 79.3 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.82 \\ 0.79 \\ 0.73 \end{array} \right\}$	2.5	2.3	2.0	2.3	7.0	-	-	-	0.00099	50
1.1 (1.5)	2880	WE3-80M2-2	IE3	4.0	2.31	-	$\left\{ \begin{array}{l} 82.7 \\ 82.5 \\ 79.6 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.83 \\ 0.76 \\ 0.73 \end{array} \right\}$	3.65	2.2	1.9	2.3	7.3	-	-	-	0.0013	50
1.5 (2.0)	2885	WE3-90S-2	IE3	5.3	3.06	-	$\left\{ \begin{array}{l} 84.2 \\ 84.9 \\ 84.1 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.84 \\ 0.81 \\ 0.74 \end{array} \right\}$	4.97	2.2	1.9	2.3	7.6	-	-	-	0.0014	55
2.2 (3.0)	2870	WE3-90L-2	IE3	7.53	4.35	-	$\left\{ \begin{array}{l} 85.9 \\ 86.5 \\ 85.8 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.85 \\ 0.82 \\ 0.74 \end{array} \right\}$	7.32	2.2	1.9	2.3	7.6	-	-	-	0.0016	55
3.0 (4.0)	2900	WE3-100L-2	IE3	9.87	5.7	-	$\left\{ \begin{array}{l} 87.1 \\ 87.4 \\ 86.2 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.87 \\ 0.84 \\ 0.79 \end{array} \right\}$	9.88	2.2	1.9	2.3	7.8	-	-	-	0.0053	62
4.0 (5.5)	2900	WE3-112M-2	IE3	-	7.4	4.3	$\left\{ \begin{array}{l} 88.1 \\ 89.2 \\ 88.7 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.88 \\ 0.85 \\ 0.78 \end{array} \right\}$	13.2	2.2	1.9	2.3	8.3	0.7	0.6	2.6	0.0069	65
5.5 (7.5)	2920	WE3-132S1-2	IE3	-	10.1	5.8	$\left\{ \begin{array}{l} 89.2 \\ 89.6 \\ 88.9 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.88 \\ 0.85 \\ 0.78 \end{array} \right\}$	18	2.0	1.7	2.3	8.3	0.6	0.5	2.6	0.014	67
7.5 (10)	2905	WE3-132S2-2	IE3	-	13.7	7.9	$\left\{ \begin{array}{l} 90.1 \\ 90.6 \\ 89.9 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.88 \\ 0.85 \\ 0.79 \end{array} \right\}$	24.7	2.0	1.7	2.3	7.9	0.6	0.5	2.5	0.018	67
11 (15)	2940	WE3-160M1-2	IE3	-	19.6	11.3	$\left\{ \begin{array}{l} 91.2 \\ 91.1 \\ 89.9 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.89 \\ 0.86 \\ 0.78 \end{array} \right\}$	35.7	2.0	1.7	2.3	8.1	0.6	0.5	2.5	0.046	68
15 (20)	2930	WE3-160M2-2	IE3	-	26.5	15.3	$\left\{ \begin{array}{l} 91.9 \\ 92.1 \\ 91.3 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.89 \\ 0.86 \\ 0.79 \end{array} \right\}$	48.9	2.0	1.7	2.3	8.1	0.6	0.5	2.5	0.053	68
18.5 (25)	2930	WE3-160L-2	IE3	-	32.5	18.8	$\left\{ \begin{array}{l} 92.4 \\ 92.7 \\ 92.2 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.89 \\ 0.87 \\ 0.81 \end{array} \right\}$	60	2.0	1.7	2.3	8.2	0.6	0.5	2.6	0.063	68

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4 pole (1500min⁻¹) - Aluminium Construction 63-160

Rated power	Full load speed in revolutions per minute	Frame reference and size			Full load current at			Efficiency		Power factor	Full load torque	Direct on line starting torque ratio	Direct on line pull up torque ratio	Direct on line pull out torque ratio	Direct on line starting current ratio	Star delta starting torque ratio	Star delta pull up torque ratio	Star delta starting current ratio	Rotor inertia WK²	Mean sound pressure level @ 1m on no load
					I _N			η	cos φ											
					230V A	400V A	690V A	1.0 P _N 0.75 P _N 0.5 P _N	1.0 P _N 0.75 P _N 0.5 P _N											
P _N kW (hp)	n min ⁻¹	Type							M _N Nm	M _A M _N	M _S M _N	M _K M _N	I _A I _N	I _A I _N	M _A M _N	M _S M _N	I _A I _N	J kgm²	L _{PA} dB(A)	
0.12 (0.66)	1355	WE3-63M1-4	IE3	0.66	0.38	-	{ 64.8 66.2 64.1 }	{ 0.70 0.63 0.50 }	0.84	2.1	1.8	2.3	7.5	-	-	-	0.00051	40		
0.18 (0.25)	1355	WE3-63M2-4	IE3	0.92	0.53	-	{ 69.9 71.0 69.1 }	{ 0.70 0.63 0.50 }	1.26	2.1	1.8	2.3	7.5	-	-	-	0.00065	40		
0.25 (0.33)	1390	WE3-71M1-4	IE3	1.14	0.66	-	{ 73.5 73.1 70.2 }	{ 0.74 0.64 0.52 }	1.72	2.1	1.8	2.2	6.6	-	-	-	0.0013	43		
0.37 (0.5)	1390	WE3-71M2-4	IE3	1.59	0.92	-	{ 77.3 76.8 74.1 }	{ 0.75 0.65 0.53 }	2.54	2.1	1.8	2.2	6.6	-	-	-	0.0015	43		
0.55 (0.75)	1425	WE3-80M1-4	IE3	2.27	1.31	-	{ 80.8 80.8 77.9 }	{ 0.75 0.68 0.57 }	3.69	2.3	2.0	2.3	6.6	-	-	-	0.0018	44		
0.75 (1.0)	1425	WE3-80M2-4	IE3	3.03	1.75	-	{ 82.5 82.4 79.6 }	{ 0.75 0.69 0.57 }	5.0	2.3	2.0	2.3	6.6	-	-	-	0.0023	44		
1.1 (1.5)	1430	WE3-90S-4	IE3	4.3	2.48	-	{ 84.1 84.6 83.2 }	{ 0.76 0.69 0.56 }	7.4	2.3	2.0	2.3	6.8	-	-	-	0.0034	47		
1.5 (2.0)	1425	WE3-90L-4	IE3	5.72	3.3	-	{ 85.3 85.8 84.7 }	{ 0.77 0.70 0.58 }	10.1	2.3	2.0	2.3	7.0	-	-	-	0.0043	47		
2.2 (3.0)	1445	WE3-100L1-4	IE3	7.83	4.52	-	{ 86.7 86.8 84.8 }	{ 0.81 0.75 0.64 }	14.5	2.3	2.0	2.3	7.6	-	-	-	0.01	52		
3.0 (4.0)	1420	WE3-100L2-4	IE3	10.4	6.0	-	{ 87.7 87.7 85.7 }	{ 0.82 0.76 0.65 }	20.2	2.3	2.0	2.3	7.6	-	-	-	0.014	52		
4.0 (5.5)	1450	WE3-112M-4	IE3	-	7.9	4.6	{ 88.6 89.2 88.5 }	{ 0.82 0.78 0.69 }	26.3	2.2	1.9	2.3	7.8	0.7	0.6	2.4	0.02	53		
5.5 (7.5)	1460	WE3-132S-4	IE3	-	10.7	6.2	{ 89.6 90.0 89.3 }	{ 0.83 0.77 0.67 }	36	2.0	1.7	2.3	7.9	0.6	0.5	2.5	0.032	59		
7.5 (10)	1445	WE3-132M-4	IE3	-	14.3	8.3	{ 90.4 91.2 90.9 }	{ 0.84 0.80 0.70 }	49.6	2.0	1.7	2.3	7.5	0.6	0.5	2.3	0.036	59		
11 (15)	1470	WE3-160M-4	IE3	-	20.4	11.8	{ 91.4 91.6 90.7 }	{ 0.85 0.80 0.70 }	71	2.2	1.9	2.3	7.7	0.7	0.6	2.4	0.089	60		
15 (20)	1470	WE3-160L-4	IE3	-	27.3	15.8	{ 92.1 92.5 92.0 }	{ 0.86 0.82 0.74 }	97	2.2	1.9	2.3	7.8	0.7	0.6	2.4	0.11	60		

Performance data

IE3

6

Outputs conforming to IEC 60034

6 pole (1000min⁻¹) - Aluminium Construction 71-160

Rated power	Full load speed in revolutions per minute	Frame reference and size			Full load current at rated voltage			Efficiency	Power factor		Full load torque	Direct on line starting torque ratio	Direct on line pull up torque ratio	Direct on line pull out torque ratio	Direct on line starting current ratio	Star delta starting torque ratio	Star delta pull up torque ratio	Star delta starting current ratio	Rotor inertia Wk ²	Mean sound pressure level (a 1m on no load)
P _N	n	Type			I _N			η	cos φ		M _N	M ₂	M ₃	M _K	I _A	M _Δ	M _S	I _A	J	L _{PA}
kW (hp)	min ⁻¹				230V A	400V A	690V A	1.0 P _N 0.75 P _N 0.5 P _N	1.0 P _N 0.75 P _N 0.5 P _N	Nm	M _N	M _N	M _N	M _N	I _N	M _N	M _N	I _N	kgm ²	dB(A)
0.18 (0.25)	900	WE3-71M1-6	IE3	1.85	1.07	-	63.9 63.4 60.5 0.66 0.56 0.45			1.91	1.9	1.7	2.0	6.0	-	-	-	0.0013	40	
0.25 (0.33)	900	WE3-71M2-6	IE3	2.32	1.34	-	68.6 68.1 65.6 0.68 0.58 0.45			2.65	1.9	1.7	2.0	6.0	-	-	-	0.0014	40	
0.37 (0.5)	925	WE3-80M1-6	IE3	1.80	1.04	-	73.5 74.8 72.7 0.70 0.62 0.50			3.82	2.0	1.7	2.1	6.0	-	-	-	0.0021	42	
0.55 (0.75)	925	WE3-80M2-6	IE3	2.48	1.43	-	77.2 78.6 77.0 0.72 0.65 0.53			5.7	2.0	1.7	2.1	6.0	-	-	-	0.0033	42	
0.75 (1.0)	940	WE3-90S-6	IE3	3.34	1.93	-	78.9 79.3 77.5 0.71 0.64 0.51			7.6	2.0	1.7	2.1	6.0	-	-	-	0.0055	45	
1.1 (1.5)	945	WE3-90L-6	IE3	4.66	2.69	-	81.0 82.1 81.1 0.73 0.67 0.55			11.1	2.0	1.7	2.1	6.0	-	-	-	0.0072	45	
1.5 (2.0)	960	WE3-100L-6	IE3	6.22	3.59	-	82.5 83.2 81.5 0.73 0.68 0.57			14.9	2.0	1.7	2.1	6.5	-	-	-	0.013	49	
2.2 (3.0)	950	WE3-112M-6	IE3	8.83	5.1	-	84.3 84.5 82.6 0.74 0.67 0.56			22.1	2.0	1.7	2.1	6.6	-	-	-	0.021	53	
3.0 (4.0)	960	WE3-132S-6	IE3	11.8	6.8	-	85.6 86.4 82.4 0.74 0.68 0.57			29.8	2.0	1.7	2.1	6.8	-	-	-	0.027	57	
4.0 (5.5)	960	WE3-132M1-6	IE3	-	9.0	5.2	86.8 87.3 86.4 0.74 0.68 0.57			39.8	2.0	1.7	2.1	6.8	0.6	0.5	2.1	0.034	57	
5.5 (7.5)	965	WE3-132M2-6	IE3	-	12.0	6.9	88.0 88.2 87.3 0.75 0.69 0.58			54	2.0	1.7	2.1	7.0	0.6	0.5	2.2	0.049	57	
7.5 (10)	970	WE3-160M-6	IE3	-	15.4	8.9	89.1 89.2 88.0 0.79 0.74 0.63			74	2.0	1.7	2.1	7.0	0.6	0.5	2.2	0.12	60	
11 (15)	970	WE3-160L-6	IE3	-	22.0	12.7	90.3 90.4 89.3 0.80 0.75 0.64			108	2.0	1.7	2.1	7.2	0.6	0.5	2.3	0.17	60	

Performance data

IE4

Outputs conforming to IEC 60034
2 pole (3000min⁻¹) - Aluminium Construction 63-160

Rated power		Full load speed in revolutions per minute		Frame reference and size		Full load current at rated voltage			Efficiency		Power factor		Full load torque		Direct on line starting torque ratio		Direct on line pull up torque ratio		Direct on line pull out torque ratio		Direct on line starting current ratio		Star delta starting current ratio		Star delta pull up torque ratio		Star delta starting current ratio		Rotor inertia Wk ²		Mean sound level @ 1m	
P _N		n min ⁻¹	Type	IE4	I _N			η 1.0 P _N 0.75 P _N 0.5 P _N	Cos φ 1.0 P _N 0.75 P _N 0.5 P _N	M _N Nm	M _A M _N	M _S M _N	M _K M _N	I _A I _N	M _A M _N Y	M _S M _N Y	I _A I _N Y	J kgm ²	L _{PA} dB(A)													
kW (hp)					230V A	400V A	690V A																									
0.18 (0.25)	2770	WE4-63M1-2			0.83	0.48	-	{ 70.8 71.2 70.5 }	{ 0.77 0.72 0.62 }	0.62	2.2	1.9	2.3	7.1	-	-	-	0.00067	49													
0.25 (0.33)	2775	WE4-63M2-2		1.07	0.62	-	{ 74.3 74.6 74.0 }	{ 0.78 0.74 0.63 }	0.86	2.2	1.9	2.3	7.1	-	-	-	0.00082	49														
0.37 (0.5)	2830	WE4-71M1-2		1.47	0.85	-	{ 78.1 78.5 77.9 }	{ 0.80 0.77 0.66 }	1.25	2.2	1.9	2.3	7.1	-	-	-	0.00049	52														
0.55 (0.75)	2835	WE4-71M2-2		2.08	1.20	-	{ 81.5 81.8 81.3 }	{ 0.81 0.78 0.67 }	1.85	2.2	1.9	2.3	7.1	-	-	-	0.00063	52														
0.75 (1.0)	2875	WE4-80M1-2		2.70	1.56	-	{ 83.5 83.3 83.2 }	{ 0.83 0.80 0.74 }	2.49	2.2	1.9	2.3	8.5	-	-	-	0.001	50														
1.1 (1.5)	2885	WE4-80M2-2		3.90	2.25	-	{ 85.2 85.5 84.9 }	{ 0.83 0.80 0.74 }	3.64	2.2	1.9	2.3	8.5	-	-	-	0.0014	50														
1.5 (2.0)	2890	WE4-90S-2		5.09	2.94	-	{ 86.5 87.1 86.2 }	{ 0.85 0.82 0.75 }	4.96	2.2	1.9	2.3	9.0	-	-	-	0.0015	55														
2.2 (3.0)	2895	WE4-90L-2		7.27	4.2	-	{ 88.0 88.4 87.7 }	{ 0.86 0.83 0.76 }	7.3	2.2	1.9	2.3	9.0	-	-	-	0.0017	55														
3.0 (4.0)	2900	WE4-100L-2		9.7	5.6	-	{ 89.1 89.7 88.8 }	{ 0.87 0.84 0.79 }	9.9	2.2	1.9	2.3	9.5	-	-	-	0.0055	62														
4.0 (5.5)	2915	WE4-112M-2		-	7.3	4.2	{ 90.0 90.6 89.7 }	{ 0.88 0.86 0.79 }	13.1	2.2	1.9	2.3	9.5	0.7	0.6	3.0	0.0075	65														
5.5 (7.5)	2925	WE4-132S1-2		-	9.9	5.7	{ 90.9 91.2 90.6 }	{ 0.88 0.86 0.79 }	18.0	2.0	1.7	2.3	9.5	0.6	0.5	3.0	0.015	67														
7.5 (10)	2925	WE4-132S2-2		-	13.3	7.7	{ 91.7 92.3 91.4 }	{ 0.89 0.86 0.80 }	24.5	2.0	1.7	2.3	9.5	0.6	0.5	3.0	0.019	67														
11 (15)	2940	WE4-160M1-2		-	19.3	11.1	{ 92.6 92.9 92.3 }	{ 0.89 0.86 0.79 }	35.7	2.0	1.7	2.3	9.5	0.6	0.5	3.0	0.05	68														
15 (20)	2940	WE4-160M2-2		-	26.1	15.1	{ 93.3 93.5 92.9 }	{ 0.89 0.86 0.79 }	48.7	2.0	1.7	2.3	9.5	0.6	0.5	3.0	0.059	68														
18.5 (25)	2940	WE4-160L-2		-	32.0	18.5	{ 93.7 94.1 93.4 }	{ 0.89 0.87 0.81 }	60	2.0	1.7	2.3	9.5	0.6	0.5	3.0	0.069	68														

Performance data

IE4

8

Outputs conforming to IEC 60034
4 pole (1500min⁻¹) - Aluminium Construction 63-160

Rated power	Full load speed in revolutions per minute	Frame reference and size			Full load current at rated voltage			Efficiency	Power factor	Full load torque	Direct on line starting torque ratio	Direct on line pull up torque ratio	Direct on line pull out torque ratio	Direct on line starting current ratio	Star delta starting current ratio	Star delta starting torque ratio	Star delta pull up torque ratio	Star delta starting current ratio	Rotor inertia WK²	Mean sound pressure level @ 1m on no load
					I _N															
P _N	n	Type		230V A	400V A	690V A	η 1.0 P _N 0.75 P _N 0.5 P _N	cos φ 1.0 P _N 0.75 P _N 0.5 P _N		M _N Nm	M _s M _N	M _s M _N	M _R M _N	I _A I _N	M _s M _N Y	M _s M _N Y	I _A I _N Y	J kgm²	L _{PA} dB(A)	
0.12 (0.166)	1360	WE4-63M1-4	IE4	0.61	0.35	-	{ 69.8 71.2 69.1	{ 0.70 0.63 0.50		0.84	2.1	1.8	2.3	7.5	-	-	-	0.00054	40	
0.18 (0.25)	1360	WE4-63M2-4	IE4	0.87	0.50	-	{ 74.7 75.0 74.1	{ 0.70 0.63 0.50		1.26	2.1	1.8	2.3	7.5	-	-	-	0.00068	40	
0.25 (0.33)	1400	WE4-71M1-4	IE4	1.11	0.64	-	{ 77.9 78.1 76.4	{ 0.72 0.65 0.53		1.71	2.1	1.8	2.3	7.5	-	-	-	0.0012	43	
0.37 (0.5)	1400	WE4-71M2-4	IE4	1.58	0.91	-	{ 81.1 81.4 80.0	{ 0.72 0.72 0.53		2.52	2.1	1.8	2.3	7.5	-	-	-	0.0015	43	
0.55 (0.75)	1425	WE4-80M1-4	IE4	2.22	1.28	-	{ 83.9 84.2 82.8	{ 0.74 0.67 0.55		3.69	2.4	1.8	2.2	9.8	-	-	-	0.0026	44	
0.75 (1.0)	1425	WE4-80M2-4	IE4	2.96	1.71	-	{ 85.7 86.1 84.5	{ 0.74 0.67 0.67		5.0	2.3	2.0	2.3	8.5	-	-	-	0.0026	44	
1.1 (1.5)	1430	WE4-90S-4	IE4	4.21	2.43	-	{ 87.2 87.6 86.5	{ 0.75 0.69 0.56		7.3	2.3	2.0	2.3	8.5	-	-	-	0.0037	47	
1.5 (2.0)	1430	WE4-90L-4	IE4	5.42	3.15	-	{ 88.2 88.5 87.5	{ 0.78 0.72 0.60		10.0	2.3	2.0	2.3	9.0	-	-	-	0.0047	47	
2.2 (3.0)	1435	WE4-100L1-4	IE4	7.78	4.49	-	{ 89.5 89.7 89.2	{ 0.79 0.73 0.62		14.6	2.3	2.0	2.3	9.0	-	-	-	0.011	52	
3.0 (4.0)	1440	WE4-100L2-4	IE4	10.4	6.0	-	{ 90.4 90.7 90.1	{ 0.80 0.74 0.63		19.9	2.3	2.0	2.3	9.5	-	-	-	0.015	52	
4.0 (5.5)	1450	WE4-112M-4	IE4	-	7.9	4.6	{ 91.1 91.4 90.8	{ 0.80 0.75 0.67		26.3	2.3	2.0	2.3	9.5	0.7	0.6	3.0	0.022	53	
5.5 (7.5)	1460	WE4-132S-4	IE4	-	10.8	6.2	{ 91.9 92.1 91.6	{ 0.80 0.77 0.67		36	2.0	1.7	2.3	9.5	0.6	0.5	3.0	0.035	59	
7.5 (10)	1460	WE4-132M-4	IE4	-	14.4	8.3	{ 92.6 92.9 92.3	{ 0.81 0.79 0.69		49.1	2.0	1.7	2.3	9.5	0.6	0.5	3.0	0.04	59	
11 (15)	1485	WE4-160M-4	IE4	-	20.5	11.8	{ 93.3 93.5 93.0	{ 0.83 0.81 0.71		71	2.0	1.7	2.3	9.5	0.6	0.5	3.0	0.098	60	
15 (20)	1470	WE4-160L-4	IE4	-	27.4	15.8	{ 93.9 94.2 93.6	{ 0.84 0.81 0.73		97	2.0	1.7	2.3	9.5	0.6	0.5	3.0	0.12	60	

Performance data

IE4

Outputs conforming to IEC 60034
6 pole (1000min⁻¹) - Aluminium Construction 71-160

9

Rated power	Full load speed in revolutions per minute	Frame reference and size			Full load current at rated voltage			Efficiency	Power factor	Full load torque	Direct on line starting torque ratio	Direct on line pull up torque ratio	Direct on line pull out torque ratio	Direct on line starting current ratio	Star delta starting torque ratio	Star delta pull up torque ratio	Star delta starting current ratio	Rotor inertia Wk²	Mean sound pressure level @ 1m on no load		
					I _N															η	cos φ
					230V A	400V A	690V A													1.0 P _N 0.75 P _N 0.5 P _N	1.0 P _N 0.75 P _N 0.5 P _N
P _N kW (hp)	n min ⁻¹	Type							M _N Nm	M _A M _N	M _S M _N	M _K M _N	I _A I _N	M _A M _N Y	M _S M _N Y	I _A I _N Y	J kgm²	L _{PA} dB(A)			
0.18 (0.25)	900	WE4-71M1-6	IE4	1.04	0.6	-	70.1 70.5 68.5 0.62 0.52 0.42		1.91	1.9	1.7	2.0	7.5	-	-	-	0.0011	40			
0.25 (0.33)	900	WE4-71M2-6	IE4	1.32	0.76	-	74.1 74.6 72.9 0.64 0.55 0.44		2.65	1.9	1.7	2.0	7.5	-	-	-	0.0015	40			
0.37 (0.5)	930	WE4-80M1-6	IE4	1.75	1.01	-	78.0 78.8 77.1 0.68 0.61 0.49		3.80	2.0	1.7	2.1	9.7	-	-	-	0.0023	42			
0.55 (0.75)	930	WE4-80M2-6	IE4	2.42	1.40	-	80.9 81.7 80.3 0.70 0.63 0.51		5.6	2.0	1.7	2.1	9.0	-	-	-	0.0036	42			
0.75 (1.0)	940	WE4-90S-6	IE4	3.24	1.87	-	82.7 83.5 82.4 0.70 0.63 0.51		7.6	2.1	1.8	2.1	7.5	-	-	-	0.0061	45			
1.1 (1.5)	945	WE4-90L-6	IE4	4.64	2.68	-	84.5 85.3 84.1 0.70 0.64 0.52		11.1	2.1	1.8	2.1	7.5	-	-	-	0.0079	45			
1.5 (2.0)	950	WE4-100L-6	IE4	6.15	3.55	-	85.9 86.7 84.9 0.71 0.66 0.56		15.1	2.1	1.8	2.1	7.5	-	-	-	0.014	49			
2.2 (3.0)	950	WE4-112M-6	IE4	8.83	5.1	-	87.4 88.2 86.7 0.71 0.66 0.56		22.1	2.1	1.8	2.1	7.5	-	-	-	0.023	53			
3.0 (4.0)	960	WE4-132S-6	IE4	12.0	6.9	-	88.6 88.9 88.2 0.71 0.66 0.57		29.8	2.0	1.7	2.1	7.5	-	-	-	0.029	57			
4.0 (5.5)	960	WE4-132M1-6	IE4	-	9.0	5.2	89.5 89.8 88.9 0.72 0.67 0.59		39.8	2.0	1.7	2.1	8.0	0.6	0.5	2.5	0.038	57			
5.5 (7.5)	965	WE4-132M2-6	IE4	-	12.2	7.0	90.5 90.8 89.7 0.72 0.67 0.59		54	2.0	1.7	2.1	8.0	0.6	0.5	2.5	0.054	57			
7.5 (10)	970	WE4-160M-6	IE4	-	15.6	9.0	91.3 91.6 90.8 0.76 0.72 0.61		74	2.0	1.7	2.1	8.0	0.6	0.5	2.5	0.13	60			
11 (15)	970	WE4-160L-6	IE4	-	22.3	12.9	92.3 92.4 91.7 0.77 0.73 0.62		108	2.0	1.7	2.1	8.5	0.6	0.5	2.7	0.19	60			

Performance data

IE3

10

Outputs conforming to IEC 60034

2 pole (3000min⁻¹) - Cast Iron Construction 80-225

Rated power		Full load speed in revolutions per minute		Frame reference and size	Full load current at rated voltage			Efficiency	Power factor	Full load torque		Direct on line starting torque ratio		Direct on line pull up torque ratio		Direct on line pull out torque ratio		Direct on line starting current ratio		Star delta starting torque ratio		Star delta pull up torque ratio		Star delta starting current ratio		Rotor inertia Wk ²	Mean sound pressure level @ 1m on no load
P _N					I _N					η	cos φ	M _N	M _A	M _S	M _K	I _A	M _A	M _S	I _A	J	L _{PA}						
kW (hp)	n min ⁻¹	Type			230V A	400V A	690V A			1.0 P _N 0.75 P _N 0.5 P _N	1.0 P _N 0.75 P _N 0.5 P _N	Nm	M _A M _N	M _S M _N	M _K M _N	I _A I _N	M _A M _N Y	M _S M _N Y	I _A I _N Y	kgm ²	dB(A)						
0.75 (1.0)	2860	WE3-80M1-2	IE3	2.84	1.64	-	{ 80.7 81.1 79.3 }	{ 0.82 0.79 0.73 }	2.5	2.3	2.0	2.3	7.0	-	-	-	0.00099	50									
1.1 (1.5)	2880	WE3-80M2-2	IE3	4.0	2.31	-	{ 82.7 82.5 79.6 }	{ 0.83 0.76 0.73 }	3.65	2.2	1.9	2.3	7.3	-	-	-	0.0013	50									
1.5 (2.0)	2885	WE3-90S-2	IE3	5.3	3.06	-	{ 84.2 84.9 84.1 }	{ 0.84 0.81 0.74 }	4.97	2.2	1.9	2.3	7.6	-	-	-	0.0014	55									
2.2 (3.0)	2870	WE3-90L-2	IE3	7.53	4.35	-	{ 85.9 86.9 85.8 }	{ 0.85 0.82 0.74 }	7.3	2.2	1.9	2.3	7.6	-	-	-	0.0016	55									
3.0 (4.0)	2900	WE3-100L-2	IE3	9.9	5.7	-	{ 87.1 87.4 86.2 }	{ 0.87 0.84 0.79 }	9.9	2.2	1.9	2.3	7.8	-	-	-	0.0053	62									
4.0 (5.5)	2900	WE3-112M-2	IE3	-	7.4	4.3	{ 88.1 89.2 88.7 }	{ 0.88 0.85 0.78 }	13.2	2.2	1.9	2.3	8.3	0.7	0.6	2.6	0.0069	65									
5.5 (7.5)	2920	WE3-132S1-2	IE3	-	10.1	5.8	{ 89.2 89.6 88.9 }	{ 0.88 0.85 0.78 }	18.0	2.0	1.7	2.3	8.3	0.6	0.5	2.6	0.014	67									
7.5 (10)	2905	WE3-132S2-2	IE3	-	13.7	7.9	{ 90.1 90.6 89.9 }	{ 0.88 0.85 0.79 }	24.7	2.0	1.7	2.3	7.9	0.6	0.5	2.5	0.018	67									
11 (15)	2940	WE3-160M1-2	IE3	-	19.6	11.3	{ 91.2 91.1 89.9 }	{ 0.89 0.86 0.78 }	35.7	2.0	1.7	2.3	8.1	0.6	0.5	2.5	0.046	68									
15 (20)	2930	WE3-160M2-2	IE3	-	26.5	15.3	{ 91.9 92.1 91.3 }	{ 0.89 0.86 0.79 }	48.9	2.0	1.7	2.3	8.1	0.6	0.5	2.5	0.053	68									
18.5 (25)	2930	WE3-160L-2	IE3	-	32.5	18.8	{ 92.4 92.7 92.2 }	{ 0.89 0.87 0.81 }	60	2.0	1.7	2.3	8.2	0.6	0.5	2.6	0.063	68									
22 (30)	2945	WE3-180M-2	IE3	-	38.5	22.2	{ 92.7 92.9 92.1 }	{ 0.89 0.87 0.81 }	71	2.0	1.7	2.3	8.2	0.6	0.5	2.6	0.092	70									
30 (40)	2970	WE3-200L1-2	IE3	-	52	30	{ 93.3 92.9 91.3 }	{ 0.89 0.87 0.80 }	96	2.0	1.7	2.3	7.6	0.6	0.5	2.4	0.18	71									
37 (50)	2970	WE3-200L2-2	IE3	-	64	37	{ 93.7 93.3 91.8 }	{ 0.89 0.86 0.78 }	119	2.0	1.7	2.3	7.6	0.6	0.5	2.4	0.22	71									
45 (60)	2970	WE3-225M-2	IE3	-	77	44	{ 94.0 94.0 92.4 }	{ 0.90 0.88 0.83 }	145	2.0	1.7	2.3	7.7	0.6	0.5	2.4	0.36	73									

Performance data

IE3

Outputs conforming to IEC 60034
2 pole (3000min⁻¹) - Cast Iron Construction 250-355

Rated power		Full load speed in revolutions per minute		Frame reference and size	Full load current at rated voltage			Efficiency	Power factor	Full load torque		Direct on line starting torque ratio	Direct on line pull up torque ratio	Direct on line pull out torque ratio	Direct on line starting current ratio	Star delta starting torque ratio	Star delta pull up torque ratio	Star delta starting current ratio	Rotor inertia WK ²	Mean sound level (q 1m)
P _N		n			I _N					η	cos φ									
kW (hp)		min ⁻¹	Type		230V A	400V A	690V A	1.0 P _N 0.75 P _N 0.5 P _N	1.0 P _N 0.75 P _N 0.5 P _N	Nm	M _N	M _N	M _N	M _N	I _N	M _N	M _N	I _N	kgm ²	dB(A)
55 (75)		2970	WE3-250M-2	IE3	-	94	54	{ 94.3 94.3 93.0 }	{ 0.90 0.86 0.78 }	177	2.0	1.7	2.3	7.7	0.6	0.5	2.4	0.45	75	
75 (100)		2980	WE3-280S-2	IE3	-	127	73	{ 94.7 94.7 93.5 }	{ 0.90 0.87 0.83 }	240	1.8	1.6	2.3	7.1	0.6	0.5	2.2	0.82	77	
90 (125)		2980	WE3-280M-2	IE3	-	152	88	{ 95.0 95.0 93.3 }	{ 0.90 0.87 0.80 }	288	1.8	1.6	2.3	7.1	0.6	0.5	2.2	1	77	
110 (150)		2985	WE3-315S-2	IE3	-	185	107	{ 95.2 95.2 93.8 }	{ 0.90 0.89 0.86 }	352	1.8	1.6	2.3	7.1	0.6	0.5	2.2	1.4	78	
132 (175)		2985	WE3-315M-2	IE3	-	222	128	{ 95.4 95.4 94.0 }	{ 0.90 0.87 0.84 }	422	1.8	1.6	2.3	7.1	0.6	0.5	2.2	1.5	78	
160 (215)		2985	WE3-315L1-2	IE3	-	265	153	{ 95.6 95.6 94.7 }	{ 0.91 0.88 0.85 }	512	1.8	1.6	2.3	7.2	0.6	0.5	2.3	2	78	
185 (250)		2985	WE3-315L2-2	IE3	-	307	177	{ 95.7 95.7 94.6 }	{ 0.91 0.88 0.86 }	592	1.8	1.6	2.2	7.2	0.6	0.5	2.3	2.2	78	
200 (270)		2985	WE3-315L3-2	IE3	-	331	191	{ 95.8 95.8 95.2 }	{ 0.91 0.89 0.87 }	640	1.8	1.6	2.2	7.2	0.6	0.5	2.3	2.4	78	
220 (295)		2990	WE3-355M1-2	IE3	-	364	210	{ 95.8 95.8 95.5 }	{ 0.91 0.89 0.87 }	703	1.6	1.4	2.2	7.2	0.5	0.4	2.3	4.0	85	
250 (335)		2990	WE3-355M2-2	IE3	-	414	239	{ 95.8 95.8 95.4 }	{ 0.91 0.89 0.88 }	798	1.6	1.4	2.2	7.2	0.5	0.4	2.3	4.7	85	
280 (375)		2990	WE3-355L1-2	IE3	-	464	268	{ 95.8 95.8 94.8 }	{ 0.91 0.89 0.88 }	894	1.6	1.4	2.2	7.2	0.5	0.4	2.3	4.3	85	
315 (420)		2990	WE3-355L2-2	IE3	-	522	301	{ 95.8 95.8 95.3 }	{ 0.91 0.89 0.88 }	1006	1.6	1.4	2.2	7.2	0.5	0.4	2.3	5.7	85	
355 (475)		2990	WE3-3551-2	IE3	-	588	339	{ 95.8 95.8 95.3 }	{ 0.91 0.89 0.88 }	1134	1.6	1.4	2.2	7.2	0.5	0.4	2.3	6.5	89	
375 (505)		2990	WE3-3552-2	IE3	-	621	359	{ 95.8 95.8 95.3 }	{ 0.91 0.89 0.88 }	1198	1.6	1.4	2.2	7.2	0.5	0.4	2.3	6.5	89	

Performance data

IE3

12

Outputs conforming to IEC 60034

4 pole (1500min⁻¹) - Cast Iron Constuction 80-225

Rated power	Full load speed in revolutions per minute		Frame reference and size		Full load current at rated voltage			Efficiency	Power factor	Full load torque	Direct on line starting torque ratio	Direct on line pull up torque ratio	Direct on line pull out torque ratio	Direct on line starting current ratio	Star delta starting torque ratio	Star delta pull up torque ratio	Star delta starting current ratio	Rotor inertia WK ²	Mean sound pressure level @ 1m on no load		
	P _N				I _N															η	cos φ
	kW (hp)	n min ⁻¹			Type	230V A	400V A													690V A	1.0 P _N 0.75 P _N 0.5 P _N
0.55 (0.75)	1425	WE3-80M1-4	IE3	2.27	1.31	-	{ 80.8 80.8 77.9	{ 0.75 0.68 0.57	3.69	2.3	2.0	2.3	6.6	-	-	-	0.0018	44			
0.75 (1.0)	1425	WE3-80M2-4	IE3	3.03	1.75	-	{ 82.5 82.4 79.6	{ 0.75 0.69 0.57	5.0	2.3	2.0	2.3	6.6	-	-	-	0.0023	44			
1.1 (1.5)	1430	WE3-90S-4	IE3	4.30	2.48	-	{ 84.1 84.6 83.2	{ 0.76 0.69 0.56	7.3	2.3	2.0	2.3	6.8	-	-	-	0.0034	47			
1.5 (2.0)	1425	WE3-90L-4	IE3	5.72	3.3	-	{ 85.3 85.8 84.7	{ 0.77 0.70 0.58	10.1	2.3	2.0	2.3	7.0	-	-	-	0.0043	47			
2.2 (3.0)	1445	WE3-100L1-4	IE3	7.83	4.52	-	{ 86.7 86.8 84.8	{ 0.81 0.75 0.64	14.5	2.3	2.0	2.3	7.6	-	-	-	0.01	52			
3.0 (4.0)	1420	WE3-100L2-4	IE3	10.4	6.0	-	{ 87.7 87.7 85.7	{ 0.82 0.76 0.65	20.2	2.3	2.0	2.3	7.6	-	-	-	0.014	52			
4.0 (5.5)	1450	WE3-112M-4	IE3	-	7.9	4.6	{ 88.6 89.2 88.5	{ 0.82 0.78 0.69	26.3	2.2	1.9	2.3	7.8	0.7	0.6	2.4	0.02	53			
5.5 (7.5)	1460	WE3-132S-4	IE3	-	10.7	6.2	{ 89.6 90.0 89.3	{ 0.83 0.77 0.67	36	2.0	1.7	2.3	7.9	0.6	0.5	2.5	0.032	59			
7.5 (10)	1445	WE3-132M-4	IE3	-	14.3	8.3	{ 90.4 91.2 90.9	{ 0.84 0.80 0.70	49.6	2.0	1.7	2.3	7.5	0.6	0.5	2.3	0.036	59			
11 (15)	1470	WE3-160M-4	IE3	-	20.4	11.8	{ 91.4 91.6 90.7	{ 0.85 0.80 0.70	71	2.2	1.9	2.3	7.7	0.7	0.6	2.4	0.089	60			
15 (20)	1470	WE3-160L-4	IE3	-	27.3	15.8	{ 92.1 92.5 92.0	{ 0.86 0.82 0.74	97	2.2	1.9	2.3	7.8	0.7	0.6	2.4	0.11	60			
18.5 (25)	1475	WE3-180M-4	IE3	-	33.5	19.3	{ 92.6 92.8 92.0	{ 0.86 0.81 0.71	120	2.0	1.7	2.3	7.8	0.6	0.5	2.4	0.17	63			
22 (30)	1475	WE3-180L-4	IE3	-	39.7	23	{ 93.0 93.0 92.2	{ 0.86 0.82 0.72	142	2.0	1.7	2.3	7.8	0.6	0.5	2.4	0.2	63			
30 (40)	1475	WE3-200L-4	IE3	-	54	31	{ 93.6 93.6 92.7	{ 0.86 0.83 0.76	194	2.0	1.7	2.3	7.3	0.6	0.5	2.3	0.42	63			
37 (50)	1480	WE3-225S-4	IE3	-	66	38	{ 93.9 93.9 92.4	{ 0.86 0.82 0.74	239	2.0	1.7	2.3	7.4	0.6	0.5	2.3	0.46	65			
45 (60)	1480	WE3-225M-4	IE3	-	80	46	{ 94.2 94.2 92.8	{ 0.86 0.82 0.75	290	2.0	1.7	2.3	7.4	0.6	0.5	2.3	0.53	65			

Performance data

Outputs conforming to IEC 60034
4 pole (1500min⁻¹) - Cast Iron Construction 250-355

Rated power		Full load speed in revolutions per minute		Frame reference and size		Full load current at rated voltage			Efficiency	Power factor	Full load torque		Direct on line starting torque ratio	Direct on line pull up torque ratio	Direct on line pull out torque ratio	Direct on line starting current ratio	Star delta starting torque ratio	Star delta pull up torque ratio	Star delta starting current ratio	Rotor inertia Wk²	Mean sound pressure level @ 1m
P _N					I _N			η	cos φ												
kW (hp)	n min ⁻¹	Type			230V A	400V A	690V A	1.0 P _N 0.75 P _N	1.0 P _N 0.75 P _N	M _N Nm	M _Δ M _N	M _S M _N	M _R M _N	I _A I _N	I _A I _N	M _Δ M _N Y	M _S M _N Y	I _A I _N Y	J kgm²	L _{PA} dB(A)	
55 (75)	1480	WE3-250M-4	IE3	-	98	57	{ 94.6 0.86 }			355	2.2	1.9	2.3	7.4	0.7	0.6	2.3	0.84	65		
75 (100)	1485	WE3-280S-4	IE3	-	129	74	{ 95.0 0.88 }			482	2.0	1.7	2.3	6.9	0.6	0.5	2.2	1.5	66		
90 (125)	1485	WE3-280M-4	IE3	-	155	89	{ 95.2 0.88 }			579	2.0	1.7	2.3	6.9	0.6	0.5	2.2	1.8	66		
110 (150)	1490	WE3-315S-4	IE3	-	187	108	{ 95.4 0.89 }			705	2.0	1.7	2.2	7.0	0.6	0.5	2.2	2.9	74		
132 (175)	1490	WE3-315M-4	IE3	-	224	129	{ 95.6 0.89 }			846	2.0	1.7	2.2	7.0	0.6	0.5	2.2	3.3	74		
160 (215)	1490	WE3-315L1-4	IE3	-	271	156	{ 95.8 0.89 }			1026	2.0	1.7	2.2	7.1	0.6	0.5	2.2	3.9	74		
185 (250)	1490	WE3-315L2-4	IE3	-	313	181	{ 95.9 0.89 }			1186	2.0	1.7	2.2	7.1	0.6	0.5	2.2	5.1	74		
200 (270)	1490	WE3-315L3-4	IE3	-	334	193	{ 96.0 0.90 }			1282	2.0	1.7	2.2	7.1	0.6	0.5	2.2	5.1	74		
220 (295)	1495	WE3-355M1-4	IE3	-	372	215	{ 96.0 0.89 }			1405	2.0	1.7	2.2	7.1	0.6	0.5	2.2	8.9	80		
250 (335)	1495	WE3-355M2-4	IE3	-	418	241	{ 96.0 0.90 }			1597	2.0	1.7	2.2	7.1	0.6	0.5	2.2	8.2	80		
280 (375)	1495	WE3-355L1-4	IE3	-	468	270	{ 96.0 0.90 }			1789	2.0	1.7	2.2	7.1	0.6	0.5	2.2	11	80		
315 (420)	1495	WE3-355L2-4	IE3	-	526	304	{ 96.0 0.90 }			2012	2.0	1.7	2.2	7.1	0.6	0.5	2.2	9.2	80		
355 (475)	1495	WE3-355L1-4	IE3	-	607	350	{ 96.0 0.88 }			2268	1.7	1.5	2.2	7.0	0.5	0.5	2.2	10	87		
375 (505)	1495	WE3-355L2-4	IE3	-	641	370	{ 96.0 0.88 }			2395	1.7	1.5	2.2	7.0	0.5	0.5	2.2	12	87		

Performance data

IE3

14

Outputs conforming to IEC 60034
6 pole (1000min⁻¹) - Cast Iron Construction 80-225

Rated power	Full load speed in revolutions per minute		Frame reference and size		Full load current at rated voltage			Efficiency	Power factor	Full load torque								Rotor inertia Wk ²	Mean sound pressure level (d 1m on no load)					
	P _N	n			Type	I _N				η	Cos φ	M _N	M _A	M _S	M _R	I _A	M _A			M _S	I _A	J	L _{PA}	
						230V A	400V A																	690V A
0.37 [0.55]	925	WE3-80M1-6	IE3	1.80	1.04	-	73.5 74.8 72.7 0.70 0.62 0.50	3.82	2.0	1.7	2.1	6.0	-	-	-	0.0021	42							
0.55 [0.75]	925	WE3-80M2-6	IE3	2.48	1.43	-	77.2 78.6 77.0 0.72 0.65 0.53	5.7	2.0	1.7	2.1	6.0	-	-	-	0.0033	42							
0.75 [1.0]	940	WE3-90S-6	IE3	3.34	1.93	-	78.9 79.3 77.5 0.71 0.64 0.51	7.6	2.0	1.7	2.1	6.0	-	-	-	0.0055	45							
1.1 [1.5]	945	WE3-90L-6	IE3	4.66	2.69	-	81.0 82.1 81.1 0.73 0.67 0.55	11.1	2.0	1.7	2.1	6.0	-	-	-	0.0072	45							
1.5 [2.0]	960	WE3-100L-6	IE3	6.22	3.59	-	82.5 83.2 81.5 0.73 0.68 0.57	14.9	2.0	1.7	2.1	6.5	-	-	-	0.013	49							
2.2 [3.0]	950	WE3-112M-6	IE3	8.83	5.1	-	84.3 84.5 82.6 0.74 0.67 0.56	22.1	2.0	1.7	2.1	6.6	-	-	-	0.021	53							
3.0 [4.0]	960	WE3-132S-6	IE3	11.8	6.8	-	85.6 86.4 82.4 0.74 0.68 0.57	29.8	2.0	1.7	2.1	6.8	-	-	-	0.027	57							
4.0 [5.5]	960	WE3-132M1-6	IE3	-	9.0	5.2	86.8 87.3 86.4 0.74 0.68 0.57	39.8	2.0	1.7	2.1	6.8	0.6	0.5	2.1	0.034	57							
5.5 [7.5]	965	WE3-132M2-6	IE3	-	12.0	6.9	88.0 88.2 87.3 0.75 0.69 0.58	54	2.0	1.7	2.1	7.0	0.6	0.5	2.2	0.049	57							
7.5 [10]	970	WE3-160M-6	IE3	-	15.4	8.9	89.1 89.2 88.0 0.79 0.74 0.63	74	2.0	1.7	2.1	7.0	0.6	0.5	2.2	0.12	60							
11 [15]	970	WE3-160L-6	IE3	-	22	12.7	90.3 90.4 89.3 0.80 0.75 0.64	108	2.0	1.7	2.1	7.2	0.6	0.5	2.3	0.17	60							
15 [20]	975	WE3-180L-6	IE3	-	29.3	16.9	91.2 91.4 90.5 0.81 0.78 0.69	147	2.0	1.7	2.1	7.3	0.6	0.5	2.3	0.27	60							
18.5 [25]	980	WE3-200L1-6	IE3	-	35.9	20.7	91.7 91.7 90.5 0.81 0.77 0.69	180	2.0	1.7	2.1	7.3	0.6	0.5	2.3	0.4	60							
22 [30]	980	WE3-200L2-6	IE3	-	42.5	24.5	92.2 92.2 91.2 0.81 0.77 0.68	214	2.0	1.7	2.1	7.4	0.6	0.5	2.3	0.47	60							
30 [40]	980	WE3-225M-6	IE3	-	56	32	92.9 92.9 91.8 0.83 0.81 0.78	292	2.0	1.7	2.1	6.9	0.6	0.5	2.2	0.96	61							

Performance data

IE3

Outputs conforming to IEC 60034
6 pole (1000min⁻¹) - Cast Iron Construction 250-355

Rated power	Full load speed in revolutions per minute	Frame reference and size			Full load current at rated voltage			Efficiency	Power factor	Full load torque	Direct on line starting torque ratio	Direct on line pull up torque ratio	Direct on line pull out torque ratio	Direct on line starting current ratio	Star delta starting torque ratio	Star delta pull up torque ratio	Star delta starting current ratio	Rotor inertia WK ²	Mean sound level (q 1m)
					I _N			η	cos φ										
					230V A	400V A	690V A	1.0 P _N 0.75 P _N 0.5 P _N	1.0 P _N 0.75 P _N 0.5 P _N										
P _N kW (hp)	n min ⁻¹	Type							M _N Nm	M _Δ M _N	M _S M _N	M _R M _N	I _A I _N	M _A M _N Y	M _S M _N Y	I _A I _N Y	J kgm ²	L _{PA} dB(A)	
37 (50)	985	WE3-250M-6	IE3	-	68	39	{ 93.3 93.3 92.6 }	{ 0.84 0.80 0.72 }	359	2.0	1.7	2.1	7.1	0.6	0.5	2.2	1.3	62	
45 (60)	985	WE3-280S-6	IE3	-	82	47	{ 93.7 93.7 92.0 }	{ 0.85 0.82 0.78 }	436	2.0	1.7	2.0	7.3	0.6	0.5	2.3	2.6	64	
55 (75)	985	WE3-280M-6	IE3	-	98	57	{ 94.1 94.1 92.6 }	{ 0.86 0.83 0.76 }	533	2.0	1.7	2.0	7.3	0.6	0.5	2.3	3.3	64	
75 (100)	990	WE3-315S-6	IE3	-	136	79	{ 94.6 94.6 94.3 }	{ 0.84 0.80 0.77 }	723	2.0	1.7	2.0	6.6	0.6	0.5	2.1	3.6	69	
90 (125)	990	WE3-315M-6	IE3	-	161	93	{ 94.9 94.9 94.2 }	{ 0.85 0.80 0.73 }	868	2.0	1.7	2.0	6.7	0.6	0.5	2.1	4.2	69	
110 (150)	990	WE3-315L1-6	IE3	-	196	113	{ 95.1 95.1 94.8 }	{ 0.85 0.81 0.76 }	1061	2.0	1.7	2.0	6.7	0.6	0.5	2.1	5.2	69	
132 (175)	990	WE3-315L2-6	IE3	-	232	134	{ 95.4 95.4 94.9 }	{ 0.86 0.83 0.77 }	1273	2.0	1.7	2.0	6.8	0.6	0.5	2.1	6.2	69	
160 (215)	995	WE3-355M1-6	IE3	-	281	162	{ 95.6 95.6 95.3 }	{ 0.86 0.84 0.85 }	1536	1.8	1.6	2.0	6.8	0.6	0.5	2.1	9.8	70	
200 (270)	995	WE3-355M2-6	IE3	-	346	200	{ 95.8 95.8 94.6 }	{ 0.87 0.84 0.81 }	1920	1.8	1.6	2.0	6.8	0.6	0.5	2.1	12	70	
220 (295)	995	WE3-355L1-6	IE3	-	385	222	{ 95.8 95.8 94.6 }	{ 0.86 0.84 0.82 }	2112	1.8	1.6	2.0	6.8	0.6	0.5	2.1	13	70	
250 (335)	995	WE3-355L2-6	IE3	-	438	253	{ 95.8 95.8 95.2 }	{ 0.86 0.85 0.82 }	2399	1.8	1.6	2.0	6.8	0.6	0.5	2.1	14	76	
280 (375)	995	WE3-3551-6	IE3	-	491	283	{ 95.8 95.8 95.2 }	{ 0.86 0.85 0.82 }	2687	1.8	1.6	2.0	6.8	0.6	0.5	2.1	15	76	
315 (420)	995	WE3-3552-6	IE3	-	552	319	{ 95.8 95.8 95.2 }	{ 0.86 0.85 0.82 }	3023	1.8	1.6	2.0	6.8	0.6	0.5	2.1	16	76	

Performance data

IE3

16

Outputs conforming to IEC 60034
8 pole (750min⁻¹) - Cast Iron Construction 80-225

Rated power		Full load speed in revolutions per minute		Frame reference and size		Full load current at rated voltage			Efficiency	Power factor	Full load torque		Direct on line starting torque ratio	Direct on line pull up torque ratio	Direct on line pull out torque ratio	Direct on line starting current ratio	Star delta starting torque ratio	Star delta pull up torque ratio	Star delta starting current ratio	Rotor inertia Wkg ²	Mean sound pressure level @ 1m on no load
P _N		n	Type			I _N					η	cos φ									
kW (hp)		min ⁻¹			230V A	400V A	690V A	1.0 P _N 0.75 P _N	1.0 P _N 0.75 P _N	Nm	M _N	M _S	M _K	I _N	Y	Y	Y	Y	kgm ²	dB(A)	
0.18 (0.25)		695	WE3-80M1-8	IE3	3.72	0.73	-	{ 58.7 59.1 54.6 }	{ 0.61 0.50 0.40 }	2.47	1.8	1.6	1.9	3.3	-	-	-	0.0033	40		
0.25 (0.33)		695	WE3-80M2-8	IE3	3.72	0.92	-	{ 64.1 64.2 59.8 }	{ 0.61 0.50 0.39 }	3.44	1.8	1.6	1.9	3.3	-	-	-	0.004	40		
0.37 (0.55)		700	WE3-90S-8	IE3	3.72	1.26	-	{ 69.3 71.1 67.1 }	{ 0.61 0.54 0.42 }	5.0	1.8	1.6	1.9	4.0	-	-	-	0.0049	44		
0.55 (0.75)		700	WE3-90L-8	IE3	3.72	1.78	-	{ 73.0 73.3 69.7 }	{ 0.61 0.55 0.43 }	7.5	1.8	1.6	2.0	4.0	-	-	-	0.0061	44		
0.75 (1.0)		710	WE3-100L1-8	IE3	3.72	2.15	-	{ 75.0 76.0 74.3 }	{ 0.67 0.64 0.53 }	10.1	1.8	1.6	2.0	4.0	-	-	-	0.013	47		
1.1 (1.5)		710	WE3-100L2-8	IE3	5.13	2.96	-	{ 77.7 78.2 77.3 }	{ 0.69 0.67 0.54 }	14.8	1.8	1.6	2.0	5.0	-	-	-	0.016	47		
1.5 (2.0)		710	WE3-112M-8	IE3	6.82	3.94	-	{ 79.7 81.3 79.2 }	{ 0.69 0.65 0.53 }	20.2	1.8	1.6	2.0	5.0	-	-	-	0.023	49		
2.2 (3.0)		715	WE3-132S-8	IE3	9.53	5.5	-	{ 81.9 82.2 81.2 }	{ 0.71 0.65 0.52 }	29.4	1.8	1.6	2.0	6.0	-	-	-	0.03	52		
3.0 (4.0)		715	WE3-132M-8	IE3	12.3	7.1	-	{ 83.5 84.0 83.1 }	{ 0.73 0.63 0.50 }	40.1	1.8	1.6	2.0	6.0	-	-	-	0.04	52		
4.0 (5.5)		730	WE3-160M1-8	IE3	-	9.3	5.4	{ 84.8 86.3 85.2 }	{ 0.73 0.65 0.52 }	52	1.9	1.7	2.0	6.0	0.6	0.5	1.9	0.092	55		
5.5 (7.5)		725	WE3-160M2-8	IE3	-	12.4	7.2	{ 86.2 86.5 86.4 }	{ 0.74 0.69 0.55 }	72	2.0	1.7	2.0	6.0	0.6	0.5	1.9	0.11	55		
7.5 (10)		730	WE3-160L-8	IE3	-	16.5	9.5	{ 87.3 88.0 87.1 }	{ 0.75 0.67 0.54 }	98	2.0	1.7	2.0	6.0	0.6	0.5	1.9	0.14	55		
11 (15)		730	WE3-180L-8	IE3	-	23.6	13.6	{ 88.6 89.6 88.6 }	{ 0.76 0.68 0.56 }	144	2.0	1.7	2.0	6.6	0.6	0.5	2.1	0.28	57		

Performance data

IE3

Outputs conforming to IEC 60034
8 pole (750min⁻¹) - Cast Iron Construction 200-355

Rated power		Full load speed in revolutions per minute		Frame reference and size		Full load current at rated voltage			Efficiency	Power factor	Full load torque		Direct on line starting torque ratio	Direct on line pull up torque ratio	Direct on line pull out torque ratio	Direct on line starting current ratio	Star delta starting torque ratio	Star delta pull up torque ratio	Star delta starting current ratio	Rotor inertia WK ²	Mean sound level (q 1m)									
P _N					I _N			η	cos φ																					
kW (hp)	n min ⁻¹	Type			230V A	400V A	690V A	1.0 P _N 0.75 P _N	1.0 P _N 0.5 P _N	M _N Nm	M _A M _N	M _S M _N	M ₂ M _N	I _A I _N	M _A M _N Y	M _S M _N Y	I _A I _N Y	J kgm ²	L _{PA} dB(A)											
15 (20)	735	WE3-200L-8	IE3	-	31.8	18.4	{ 89.6 90.0 89.4 }	{ 0.76 0.70 0.58 }		195	2.0	1.7	2.0	6.6	0.6	0.5	2.1	0.56	60											
18.5 (25)	735	WE3-225S-8	IE3	-	39	22.5														{ 90.1 90.9 90.0 }	{ 0.76 0.72 0.61 }									
22 (30)	735	WE3-225M-8	IE3	-	44.9	25.9																{ 90.6 91.2 90.4 }	{ 0.78 0.73 0.62 }							
30 (40)	740	WE3-250M-8	IE3	-	60	35	{ 91.3 91.6 91.2 }	{ 0.79 0.76 0.65 }	387	1.9	1.7	2.0	6.6	0.6	0.5	2.1	1.5	61												
37 (50)	740	WE3-280S-8	IE3	-	74	43													{ 91.8 92.2 91.8 }	{ 0.79 0.80 0.70 }	478			1.9	1.7	2.0	6.6	0.6	0.5	2.1
45 (60)	740	WE3-280M-8	IE3	-	89	51																{ 92.2 92.5 92.1 }	{ 0.79 0.80 0.70 }							
55 (75)	740	WE3-315S-8	IE3	-	106	61	{ 92.5 92.7 92.1 }	{ 0.81 0.77 0.66 }	710	1.8	1.6	2.0	6.6	0.6	0.5	2.1	5.2	68												
75 (100)	740	WE3-315M-8	IE3	-	144	83													{ 93.1 93.4 92.7 }	{ 0.81 0.78 0.68 }	968			1.8	1.6	2.0	6.6	0.6	0.5	2.1
90 (125)	740	WE3-315L1-8	IE3	-	170	98																{ 93.4 93.6 92.9 }	{ 0.82 0.78 0.68 }							
110 (150)	740	WE3-315L2-8	IE3	-	207	120	{ 93.7 93.9 93.1 }	{ 0.82 0.79 0.70 }	1420	1.8	1.6	2.0	6.4	0.6	0.5	2.0	8.4	68												
132 (175)	745	WE3-355M1-8	IE3	-	247	143													{ 94.0 94.0 93.3 }	{ 0.82 0.79 0.71 }	1692			1.8	1.6	2.0	6.4	0.6	0.5	2.0
160 (215)	745	WE3-355M2-8	IE3	-	299	173																{ 94.3 94.3 93.7 }	{ 0.82 0.80 0.73 }							
200 (270)	745	WE3-355L-8	IE3	-	368	212	{ 94.6 94.6 93.9 }	{ 0.83 0.80 0.72 }	2564	1.8	1.6	2.0	6.4	0.6	0.5	2.0	17	75												

Performance data

IE4

18

Outputs conforming to IEC 60034
2 pole (3000min⁻¹) - Cast Iron Construction 80-225

Rated power		Full load speed in revolutions per minute		Frame reference and size		Full load current at rated voltage			Efficiency		Power factor		Full load torque		Direct on line starting torque ratio		Direct on line pull up torque ratio		Direct on line pull out torque ratio		Direct on line starting current ratio		Star delta starting torque ratio		Star delta pull up torque ratio		Star delta starting current ratio		Rotor inertia WK ²		Mean sound pressure level @ 1m on no load	
P _N																																
kW (hp)	n min ⁻¹	Type		230V A	400V A	690V A	η 1.0 P _N 0.75 P _N 0.5 P _N	cos φ 1.0 P _N 0.75 P _N 0.5 P _N	M _N Nm	M _A M _N	M _S M _N	M _K M _N	I _A I _N	M _A M _N Y	M _S M _N Y	I _A I _N Y	J kgm ²	L _{pA} dB(A)														
0.75 (1.0)	2875	WE4-80M1-2	IE4	2.7	1.56	-	{ 83.5 83.3 83.2 }	{ 0.83 0.80 0.74 }	2.49	2.2	1.9	2.3	8.5	-	-	-	0.001	50														
1.1 (1.5)	2885	WE4-80M2-2	IE4	3.9	2.25	-	{ 85.2 85.5 84.9 }	{ 0.83 0.80 0.74 }	3.64	2.2	1.9	2.3	8.5	-	-	-	0.0014	50														
1.5 (2.0)	2890	WE4-90S-2	IE4	5.09	2.94	-	{ 86.5 87.1 86.2 }	{ 0.85 0.82 0.75 }	4.96	2.2	1.9	2.3	9.0	-	-	-	0.0015	55														
2.2 (3.0)	2895	WE4-90L-2	IE4	7.27	4.2	-	{ 88.0 88.4 87.7 }	{ 0.86 0.83 0.76 }	7.3	2.2	1.9	2.3	9.0	-	-	-	0.0017	55														
3.0 (4.0)	2900	WE4-100L-2	IE4	9.7	5.6	-	{ 89.1 89.7 88.8 }	{ 0.87 0.84 0.79 }	9.9	2.2	1.9	2.3	9.5	-	-	-	0.0055	62														
4.0 (5.5)	2915	WE4-112M-2	IE4	-	7.3	4.2	{ 90.0 90.6 89.7 }	{ 0.88 0.86 0.79 }	13.1	2.2	1.9	2.3	9.5	0.7	0.6	3.0	0.0075	65														
5.5 (7.5)	2925	WE4-132S1-2	IE4	-	9.9	5.7	{ 90.9 91.2 90.6 }	{ 0.88 0.86 0.79 }	18.0	2.0	1.7	2.3	9.5	0.6	0.5	3.0	0.015	67														
7.5 (10)	2925	WE4-132S2-2	IE4	-	13.3	7.7	{ 91.7 92.3 91.4 }	{ 0.89 0.86 0.80 }	24.5	2.0	1.7	2.3	9.5	0.6	0.5	3.0	0.019	67														
11 (15)	2940	WE4-160M1-2	IE4	-	19.3	11.1	{ 92.6 92.9 92.3 }	{ 0.89 0.86 0.79 }	35.7	2.0	1.7	2.3	9.5	0.6	0.5	3.0	0.05	68														
15 (20)	2940	WE4-160M2-2	IE4	-	26.1	15.1	{ 93.3 93.5 92.9 }	{ 0.89 0.86 0.79 }	48.7	2.0	1.7	2.3	9.5	0.6	0.5	3.0	0.059	68														
18.5 (25)	2940	WE4-160L-2	IE4	-	32	18.5	{ 93.7 94.1 93.4 }	{ 0.89 0.87 0.81 }	60	2.0	1.7	2.3	9.5	0.6	0.5	3.0	0.069	68														
22 (30)	2945	WE4-180M-2	IE4	-	38	21.9	{ 94.0 94.3 93.7 }	{ 0.89 0.87 0.81 }	71	2.0	1.7	2.3	9.5	0.6	0.5	3.0	0.1	70														
30 (40)	2970	WE4-200L1-2	IE4	-	51	29	{ 94.5 94.3 94.1 }	{ 0.89 0.87 0.82 }	96	2.0	1.7	2.3	9.0	0.6	0.5	2.8	0.2	71														
37 (50)	2970	WE4-200L2-2	IE4	-	63	36	{ 94.8 94.7 94.2 }	{ 0.89 0.86 0.82 }	119	2.0	1.7	2.3	9.0	0.6	0.5	2.8	0.24	71														
45 (60)	2970	WE4-225M-2	IE4	-	77	44	{ 95.0 94.9 94.6 }	{ 0.89 0.87 0.83 }	145	2.0	1.7	2.3	9.0	0.6	0.5	2.8	0.39	73														

Performance data

IE4

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Outputs conforming to IEC 60034
2 pole (3000min⁻¹) - Cast Iron Construction 250-355

Rated power		Full load speed in revolutions per minute		Frame reference and size	Full load current at rated voltage			Efficiency	Power factor	Full load torque		Direct on line starting torque ratio	Direct on line pull up torque ratio	Direct on line pull out torque ratio	Direct on line starting current ratio	Star delta starting torque ratio	Star delta pull up torque ratio	Star delta starting current ratio	Rotor inertia WK²	Mean sound pressure level (a 1m on no load)		
P _N		n			I _N					η	cos φ										M _N	M _A
kW (hp)		min ⁻¹	Type		230V A	400V A	690V A	1.0 P _N 0.75 P _N 0.5 P _N	1.0 P _N 0.75 P _N 0.5 P _N	Nm	M _A M _N	M _S M _N	M _K M _N	I _A I _N	M _A M _N Y	M _S M _N Y	I _A I _N Y	kgm²	dB(A)			
55 (75)	2970	WE4-250M-2	IE4	-	94	54	$\left\{ \begin{array}{l} 95.3 \\ 95.3 \\ 94.9 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.89 \\ 0.87 \\ 0.83 \end{array} \right\}$		177	2.0	1.7	2.3	9.0	0.6	0.5	2.8	0.49	75			
75 (100)	2980	WE4-280S-2	IE4	-	127	73				$\left\{ \begin{array}{l} 95.6 \\ 95.6 \\ 95.3 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.89 \\ 0.88 \\ 0.83 \end{array} \right\}$		240	1.8	1.6	2.3	8.5	0.6	0.5	2.7	0.86	77
90 (125)	2980	WE4-280M-2	IE4	-	152	88							$\left\{ \begin{array}{l} 95.8 \\ 95.8 \\ 95.5 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.89 \\ 0.88 \\ 0.84 \end{array} \right\}$		288	1.8	1.6	2.3	8.5	0.6	0.5
110 (150)	2985	WE4-315S-2	IE4	-	186	107	$\left\{ \begin{array}{l} 96.0 \\ 96.0 \\ 95.7 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.89 \\ 0.88 \\ 0.84 \end{array} \right\}$								352	1.8	1.6	2.3	8.5	0.6	0.5
132 (175)	2985	WE4-315M-2	IE4	-	223	129				$\left\{ \begin{array}{l} 96.2 \\ 96.2 \\ 95.9 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.89 \\ 0.88 \\ 0.84 \end{array} \right\}$					422	1.8	1.6	2.3	8.5	0.6	0.5
160 (215)	2985	WE4-315L1-2	IE4	-	269	155							$\left\{ \begin{array}{l} 96.3 \\ 96.3 \\ 96.0 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.89 \\ 0.88 \\ 0.85 \end{array} \right\}$		512	1.8	1.6	2.2	8.5	0.6	0.5
185 (250)	2985	WE4-315L2-2	IE4	-	311	180	$\left\{ \begin{array}{l} 96.4 \\ 96.4 \\ 96.1 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.89 \\ 0.88 \\ 0.85 \end{array} \right\}$								592	1.8	1.6	2.2	8.5	0.6	0.5
200 (270)	2985	WE4-315L3-2	IE4	-	336	194				$\left\{ \begin{array}{l} 96.5 \\ 96.5 \\ 96.2 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.89 \\ 0.88 \\ 0.85 \end{array} \right\}$					640	1.8	1.6	2.2	8.5	0.6	0.5
220 (295)	2990	WE4-355M1-2	IE4	-	362	209							$\left\{ \begin{array}{l} 96.5 \\ 96.5 \\ 96.2 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.91 \\ 0.89 \\ 0.87 \end{array} \right\}$		703	1.6	1.4	2.2	8.5	0.5	0.4
250 (335)	2990	WE4-355M2-2	IE4	-	411	237	$\left\{ \begin{array}{l} 96.5 \\ 96.5 \\ 96.2 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.91 \\ 0.89 \\ 0.88 \end{array} \right\}$								798	1.6	1.4	2.2	8.5	0.5	0.4
280 (375)	2990	WE4-355L1-2	IE4	-	460	266				$\left\{ \begin{array}{l} 96.5 \\ 96.5 \\ 96.2 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.91 \\ 0.89 \\ 0.88 \end{array} \right\}$					894	1.6	1.4	2.2	8.5	0.5	0.4
315 (420)	2990	WE4-355L2-2	IE4	-	518	299							$\left\{ \begin{array}{l} 96.5 \\ 96.5 \\ 96.2 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.91 \\ 0.89 \\ 0.88 \end{array} \right\}$		1006	1.6	1.4	2.2	8.5	0.5	0.4
355 (475)	2990	WE4-355I-2	IE4	-	583	337	$\left\{ \begin{array}{l} 96.5 \\ 96.5 \\ 96.2 \end{array} \right\}$	$\left\{ \begin{array}{l} 0.91 \\ 0.89 \\ 0.88 \end{array} \right\}$								1134	0.9	0.7	1.8	8.6	0.3	0.2

Performance data

IE4

Outputs conforming to IEC 60034

4 pole (1500min⁻¹) - Cast Iron Construction 80-225

Rated power			Full load speed in revolutions per minute			Frame reference and size			Full load current at rated voltage			Efficiency		Power factor		Full load torque		Direct on line starting torque ratio		Direct on line pull up torque ratio		Direct on line pull out torque ratio		Direct on line starting current ratio		Star delta starting torque ratio		Star delta pull up torque ratio		Star delta starting current ratio		Rotor inertia WK ²		Mean sound pressure level @ 1m on no load	
P _N		n min ⁻¹	Type	IE	I _N			η		Cos φ		M _N Nm	M _A M _N	M _S M _N	M _K M _N	I _A I _N	M _A M _N Y	M _S M _N Y	I _A I _N Y	J kgm ²	L _{PA} dB(A)														
kW (hp)	230V A				400V A	690V A	0.75 P _N 0.5 P _N	1.0 P _N 0.75 P _N 0.5 P _N	0.75 P _N 0.5 P _N	1.0 P _N 0.75 P _N 0.5 P _N																									
0.55 (0.75)	1425	WE4-80M1-4	IE4	2.22	1.28	-	{ 83.9 84.2 82.8 }	{ 0.74 0.67 0.55 }			3.7	2.4	2.1	2.2	9.3	-	-	-	0.002	44															
0.75 (1.0)	1425	WE4-80M2-4	IE4	2.96	1.71	-	{ 85.7 86.1 84.5 }	{ 0.74 0.67 0.55 }			5.0	2.3	2.0	2.3	8.5	-	-	-	0.0026	44															
1.1 (1.5)	1430	WE4-90S-4	IE4	4.21	2.43	-	{ 87.2 87.6 86.5 }	{ 0.75 0.69 0.56 }			7.3	2.3	2.0	2.3	8.5	-	-	-	0.0037	47															
1.5 (2.0)	1430	WE4-90L-4	IE4	5.46	3.15	-	{ 88.2 88.5 87.5 }	{ 0.78 0.72 0.60 }			10.0	2.3	2.0	2.3	9.0	-	-	-	0.0047	47															
2.2 (3.0)	1435	WE4-100L1-4	IE4	7.78	4.49	-	{ 89.5 89.7 89.2 }	{ 0.79 0.73 0.62 }			14.6	2.3	2.0	2.3	9.0	-	-	-	0.011	52															
3.0 (4.0)	1440	WE4-100L2-4	IE4	10.4	6.0	-	{ 90.4 90.7 90.1 }	{ 0.80 0.74 0.63 }			19.9	2.3	2.0	2.3	9.5	-	-	-	0.015	52															
4.0 (5.5)	1450	WE4-112M-4	IE4	-	7.9	4.6	{ 91.1 91.4 90.8 }	{ 0.80 0.75 0.67 }			26.3	2.2	1.9	2.3	9.5	0.7	0.6	3.0	0.022	53															
5.5 (7.5)	1460	WE4-132S-4	IE4	-	10.8	6.2	{ 91.9 92.1 91.6 }	{ 0.80 0.77 0.67 }			36.0	2.0	1.7	2.3	9.5	0.6	0.5	3.0	0.035	59															
7.5 (10)	1460	WE4-132M-4	IE4	-	14.4	8.3	{ 92.6 92.9 92.3 }	{ 0.81 0.79 0.69 }			49.1	2.0	1.7	2.3	9.5	0.6	0.5	3.0	0.04	59															
11 (15)	1470	WE4-160M-4	IE4	-	20.5	11.8	{ 93.3 93.5 93.0 }	{ 0.83 0.81 0.71 }			71	2.2	1.9	2.3	9.5	0.7	0.6	3.0	0.098	60															
15 (20)	1470	WE4-160L-4	IE4	-	27.4	15.8	{ 93.9 94.2 93.6 }	{ 0.84 0.81 0.73 }			97	2.2	1.9	2.3	9.5	0.7	0.6	3.0	0.12	60															
18.5 (25)	1475	WE4-180M-4	IE4	-	33.3	19.2	{ 94.2 94.5 93.9 }	{ 0.85 0.82 0.75 }			120	2.0	1.7	2.3	9.5	0.6	0.5	3.0	0.19	63															
22 (30)	1475	WE4-180L-4	IE3	-	39.5	22.8	{ 94.5 94.5 94.2 }	{ 0.85 0.82 0.75 }			142	2.0	1.7	2.3	9.5	0.6	0.5	3.0	0.22	63															
30 (40)	1475	WE4-200L-4	IE4	-	54	31	{ 94.9 94.9 94.5 }	{ 0.85 0.82 0.76 }			194	2.0	1.7	2.3	9.0	0.6	0.5	2.8	0.46	63															
37 (50)	1480	WE4-225S-4	IE4	-	66	38	{ 95.2 95.2 94.7 }	{ 0.85 0.82 0.77 }			239	2.0	1.7	2.3	9.0	0.6	0.5	2.8	0.5	65															

Performance data

IE4

Outputs conforming to IEC 60034
4 pole (1500min⁻¹) - Cast Iron Construction 225-355

Rated power		Full load speed in revolutions per minute		Frame reference and size		Full load current at rated voltage			Efficiency	Power factor	Full load torque		Direct on line starting torque ratio	Direct on line pull up torque ratio	Direct on line pull out torque ratio	Direct on line starting current ratio	Star delta starting torque ratio	Star delta pull up torque ratio	Star delta starting current ratio	Rotor inertia Wk²	Mean sound level (p 1m)
P _N		n min ⁻¹	Type			I _N			η	Cos φ	M _N Nm	$\frac{M_A}{M_N}$	$\frac{M_S}{M_N}$	$\frac{M_K}{M_N}$	$\frac{I_A}{I_N}$	$\frac{M_A}{M_N}$ Y	$\frac{M_S}{M_N}$ Y	$\frac{I_A}{I_N}$ Y	J kgm²	L _{PA} dB(A)	
kW (hp)	230V A					400V A	690V A	1.0 P _N 0.75 P _N 0.5 P _N	1.0 P _N 0.75 P _N 0.5 P _N												
45 (60)	1480	WE4-225M-4	IE4	-	80	46	{ 95.4 95.4 94.9 }		0.85 0.83 0.76		290	2.0	1.7	2.3	9.0	0.6	0.5	2.8	0.58	65	
55 (75)	1480	WE4-250M-4	IE4	-	96	55	{ 95.7 95.7 95.2 }		0.86 0.84 0.78												
75 (100)	1485	WE4-280S-4	IE4	-	130	75	{ 96.0 96.0 95.7 }		0.87 0.85 0.78		482	2.0	1.7	2.3	8.5	0.6	0.5	2.7	1.5	66	
90 (125)	1485	WE4-280M-4	IE4	-	154	89	{ 96.1 96.1 95.8 }		0.88 0.86 0.79												
110 (150)	1490	WE4-315S-4	IE4	-	185	107	{ 96.3 96.3 96.0 }		0.89 0.86 0.79		705	2.0	1.7	2.2	8.5	0.6	0.5	2.7	3.1	74	
132 (175)	1490	WE4-315M-4	IE4	-	222	128	{ 96.4 96.4 96.1 }		0.89 0.87 0.80												
160 (215)	1490	WE4-315L1-4	IE4	-	266	154	{ 96.6 96.6 96.3 }		0.90 0.87 0.85		1026	2.0	1.7	2.2	8.5	0.6	0.5	2.7	4.1	74	
185 (250)	1490	WE4-315L2-4	IE4	-	307	177	{ 96.7 96.7 96.4 }		0.90 0.87 0.85												
200 (270)	1490	WE4-315L3-4	IE4	-	332	192	{ 96.7 96.7 96.4 }		0.90 0.88 0.86		1282	2.0	1.7	2.2	8.5	0.6	0.5	2.7	5.4	74	
220 (295)	1495	WE4-355M1-4	IE4	-	365	211	{ 96.7 96.7 96.4 }		0.90 0.87 0.86												
250 (335)	1495	WE4-355M2-4	IE4	-	415	240	{ 96.7 96.7 96.4 }		0.90 0.88 0.86		1567	2.0	1.7	2.2	8.5	0.6	0.5	2.7	9.5	80	
280 (375)	1495	WE4-355L1-4	IE4	-	464	268	{ 96.7 96.7 96.5 }		0.90 0.88 0.86												
315 (420)	1495	WE4-355L2-4	IE4	-	522	301	{ 96.7 96.7 96.5 }		0.90 0.88 0.86		2012	2.0	1.7	2.2	8.5	0.6	0.5	2.7	11	80	
355 (475)	1495	WE4-355I-4	IE4	-	589	340	{ 96.7 96.7 96.5 }		0.90 0.88 0.86												

Performance data

IE4

22

Outputs conforming to IEC 60034
6 pole (1000min⁻¹) - Cast Iron Construction 80-225

Rated power		Full load speed in revolutions per minute		Frame reference and size	Full load current at rated voltage			Efficiency	Power factor	Full load torque		Direct on line starting torque ratio		Direct on line pull up torque ratio		Direct on line pull out torque ratio		Direct on line starting current ratio		Star delta starting torque ratio		Star delta pull up torque ratio		Star delta pull out torque ratio		Star delta starting current ratio		Rotor inertia WK ²		Mean sound pressure level @ 1m on no load	
P _N		n	Type		I _N			η	cos φ	M _N	M _A	M _S	M _K	I _A	M _A	M _S	I _A	M _A	M _S	I _A	J	L _{PA}									
kW (hp)		min ⁻¹		230V A	400V A	690V A	0.75 P _N 0.5 P _N	0.75 P _N 0.5 P _N	Nm	M _N M _N	M _S M _N	M _K M _N	I _A I _N	M _A M _N Y	M _S M _N Y	I _A I _N Y	J kgm ²	L _{PA} dB(A)													
0.37 (0.55)	930	WE4-80M1-6	IE4	1.75	1.01	-	$\left\{ \begin{matrix} 78.0 \\ 78.8 \\ 77.1 \end{matrix} \right\}$	$\left\{ \begin{matrix} 0.68 \\ 0.61 \\ 0.49 \end{matrix} \right\}$	3.8	2.0	1.7	2.1	9.7	-	-	-	0.0023	42													
0.55 (0.75)	930	WE4-80M2-6	IE4	2.42	1.4	-	$\left\{ \begin{matrix} 80.9 \\ 81.7 \\ 80.3 \end{matrix} \right\}$	$\left\{ \begin{matrix} 0.70 \\ 0.63 \\ 0.51 \end{matrix} \right\}$	5.6	2.0	1.7	2.1	9.0	-	-	-	0.0036	42													
0.75 (1.0)	940	WE4-90S-6	IE4	3.24	1.87	-	$\left\{ \begin{matrix} 82.7 \\ 83.5 \\ 82.4 \end{matrix} \right\}$	$\left\{ \begin{matrix} 0.70 \\ 0.63 \\ 0.51 \end{matrix} \right\}$	7.6	2.0	1.7	2.1	7.5	-	-	-	0.0061	42													
1.1 (1.5)	945	WE4-90L-6	IE4	4.64	2.68	-	$\left\{ \begin{matrix} 84.5 \\ 85.3 \\ 84.1 \end{matrix} \right\}$	$\left\{ \begin{matrix} 0.70 \\ 0.64 \\ 0.52 \end{matrix} \right\}$	11.1	2.0	1.7	2.1	7.5	-	-	-	0.0079	45													
1.5 (2.0)	950	WE4-100L-6	IE4	6.15	3.55	-	$\left\{ \begin{matrix} 85.9 \\ 86.7 \\ 84.9 \end{matrix} \right\}$	$\left\{ \begin{matrix} 0.71 \\ 0.66 \\ 0.56 \end{matrix} \right\}$	15.1	2.0	1.7	2.1	7.5	-	-	-	0.014	49													
2.2 (3.0)	950	WE4-112M-6	IE4	8.83	5.1	-	$\left\{ \begin{matrix} 87.4 \\ 88.2 \\ 86.7 \end{matrix} \right\}$	$\left\{ \begin{matrix} 0.71 \\ 0.66 \\ 0.56 \end{matrix} \right\}$	22.1	2.0	1.7	2.1	7.5	-	-	-	0.023	53													
3.0 (4.0)	960	WE4-132S-6	IE4	12	6.9	-	$\left\{ \begin{matrix} 88.6 \\ 88.9 \\ 88.2 \end{matrix} \right\}$	$\left\{ \begin{matrix} 0.71 \\ 0.66 \\ 0.57 \end{matrix} \right\}$	29.8	2.0	1.7	2.1	7.5	-	-	-	0.029	57													
4.0 (5.5)	960	WE4-132M1-6	IE4	-	9.0	5.2	$\left\{ \begin{matrix} 89.5 \\ 89.8 \\ 88.9 \end{matrix} \right\}$	$\left\{ \begin{matrix} 0.72 \\ 0.67 \\ 0.59 \end{matrix} \right\}$	39.8	2.0	1.7	2.1	8.0	0.6	0.5	-	0.038	57													
5.5 (7.5)	965	WE4-132M2-6	IE4	-	12.2	7.0	$\left\{ \begin{matrix} 90.5 \\ 90.8 \\ 89.7 \end{matrix} \right\}$	$\left\{ \begin{matrix} 0.72 \\ 0.67 \\ 0.59 \end{matrix} \right\}$	54	2.0	1.7	2.1	8.0	0.6	0.5	-	0.054	57													
7.5 (10)	970	WE4-160M-6	IE4	-	15.6	9.0	$\left\{ \begin{matrix} 91.3 \\ 91.6 \\ 90.3 \end{matrix} \right\}$	$\left\{ \begin{matrix} 0.76 \\ 0.72 \\ 0.61 \end{matrix} \right\}$	74	2.0	1.7	2.1	8.0	0.6	0.5	-	0.13	60													
11 (15)	970	WE4-160L-6	IE4	-	22.3	12.9	$\left\{ \begin{matrix} 92.3 \\ 92.4 \\ 91.7 \end{matrix} \right\}$	$\left\{ \begin{matrix} 0.77 \\ 0.73 \\ 0.62 \end{matrix} \right\}$	108	2.0	1.7	2.1	8.5	0.6	0.5	-	0.19	60													
15 (20)	975	WE4-180L-6	IE4	-	29.1	16.8	$\left\{ \begin{matrix} 92.9 \\ 92.9 \\ 92.3 \end{matrix} \right\}$	$\left\{ \begin{matrix} 0.80 \\ 0.76 \\ 0.68 \end{matrix} \right\}$	147	2.0	1.7	2.1	8.5	0.6	0.5	-	0.3	60													
18.5 (25)	980	WE4-200L1-6	IE4	-	35.7	20.6	$\left\{ \begin{matrix} 93.4 \\ 93.4 \\ 92.9 \end{matrix} \right\}$	$\left\{ \begin{matrix} 0.80 \\ 0.76 \\ 0.68 \end{matrix} \right\}$	180	2.0	1.7	2.1	8.5	0.6	0.5	-	0.4	60													
22 (30)	980	WE4-200L2-6	IE4	-	41.8	24.1	$\left\{ \begin{matrix} 93.7 \\ 93.7 \\ 93.2 \end{matrix} \right\}$	$\left\{ \begin{matrix} 0.81 \\ 0.77 \\ 0.70 \end{matrix} \right\}$	214	2.0	1.7	2.1	8.5	0.6	0.5	-	0.52	60													
30 (40)	980	WE4-225M-6	IE4	-	56	32	$\left\{ \begin{matrix} 94.2 \\ 94.2 \\ 93.7 \end{matrix} \right\}$	$\left\{ \begin{matrix} 0.82 \\ 0.81 \\ 0.71 \end{matrix} \right\}$	292	2.0	1.7	2.1	8.3	0.6	0.5	-	1.1	61													

Performance data

IE4

23

Outputs conforming to IEC 60034
6 pole (1000min⁻¹) - Cast Iron Construction 250-355

Rated power		Full load speed in revolutions per minute		Frame reference and size		Full load current at rated voltage			Efficiency	Power factor	Full load torque	Direct on line starting torque ratio	Direct on line pull up torque ratio	Direct on line pull out torque ratio	Direct on line starting current ratio	Star delta starting torque ratio	Star delta pull up torque ratio	Star delta starting current ratio	Rotor inertia WK ²	Mean sound pressure level @ 1m on no load
P _N						I _N			η	cos φ										
kW (hp)	n min ⁻¹	Type				230V A	400V A	690V A	1.0 P _N 0.75 P _N 0.5 P _N	1.0 P _N 0.75 P _N 0.5 P _N	M _N Nm	M ₂ M _N	M ₃ M _N	M _k M _N	I _Δ I _N	M _Δ M _N Y	M ₃ M _N Y	I _Δ I _N Y	J kgm ²	L _{PA} dB(A)
37 (50)	985	WE4-250M-6	IE4	-	68	39	{ 94.5 0.83 94.5 0.81 93.9 0.71 }		{ 94.5 0.83 94.5 0.81 93.9 0.71 }		359	2.0	1.7	2.1	8.3	0.6	0.5	-	1.4	62
45 (60)	985	WE4-280S-6	IE4	-	83	48	{ 94.8 0.83 94.8 0.81 93.9 0.72 }		{ 94.8 0.83 94.8 0.81 93.9 0.72 }		436	2.0	1.7	2.0	8.5	0.6	0.5	-	2.8	64
55 (75)	985	WE4-280M-6	IE4	-	99	57	{ 95.1 0.84 95.1 0.81 94.2 0.73 }		{ 95.1 0.84 95.1 0.81 94.2 0.73 }		533	2.0	1.7	2.0	8.5	0.6	0.5	-	3.5	64
75 (100)	990	WE4-315S-6	IE4	-	135	78	{ 95.4 0.84 95.4 0.81 94.7 0.74 }		{ 95.4 0.84 95.4 0.81 94.7 0.74 }		723	1.6	1.4	2.0	8.0	0.5	0.4	-	3.8	69
90 (125)	990	WE4-315M-6	IE4	-	160	92	{ 95.6 0.85 95.6 0.81 94.9 0.74 }		{ 95.6 0.85 95.6 0.81 94.9 0.74 }		868	1.6	1.4	2.0	8.0	0.5	0.4	-	4.5	69
110 (150)	990	WE4-315L1-6	IE4	-	195	113	{ 95.8 0.85 95.8 0.81 94.9 0.74 }		{ 95.8 0.85 95.8 0.81 94.9 0.74 }		1061	1.6	1.4	2.0	8.0	0.5	0.4	-	5.5	69
132 (175)	990	WE4-315L2-6	IE4	-	231	133	{ 96.0 0.86 96.0 0.83 95.1 0.74 }		{ 96.0 0.86 96.0 0.83 95.1 0.74 }		1273	1.6	1.4	2.0	8.0	0.5	0.4	-	6.5	69
160 (215)	995	WE4-355M1-6	IE4	-	279	161	{ 96.2 0.86 96.2 0.84 95.7 0.76 }		{ 96.2 0.86 96.2 0.84 95.7 0.76 }		1536	1.6	1.4	2.0	8.0	0.5	0.4	-	10	70
185 (250)	995	WE4-355M2-6	IE4	-	322	186	{ 96.3 0.86 96.3 0.84 95.8 0.76 }		{ 96.3 0.86 96.3 0.84 95.8 0.76 }		1776	1.6	1.4	2.0	8.0	0.5	0.4	-	13	70
200 (270)	995	WE4-355M3-6	IE4	-	349	202	{ 96.3 0.86 96.3 0.84 95.8 0.76 }		{ 96.3 0.86 96.3 0.84 95.8 0.76 }		1920	1.6	1.4	2.0	8.0	0.5	0.4	-	13	70
220 (295)	995	WE4-355L1-6	IE4	-	379	219	{ 96.4 0.87 96.4 0.85 95.9 0.82 }		{ 96.4 0.87 96.4 0.85 95.9 0.82 }		2112	1.6	1.4	2.0	8.0	0.5	0.4	-	14	76
250 (335)	995	WE4-355L2-6	IE4	-	435	251	{ 96.5 0.86 96.5 0.85 96.0 0.82 }		{ 96.5 0.86 96.5 0.85 96.0 0.82 }		2399	1.6	1.4	2.0	8.0	0.5	0.4	-	15	76
280 (375)	995	WE4-355L1-6	IE4	-	511	295	{ 96.5 0.82 96.5 0.77 96.0 0.70 }		{ 96.5 0.82 96.5 0.77 96.0 0.70 }		2687	1.6	1.4	2.0	8.0	0.5	0.4	-	16	76

Performance data

IE4

24

Outputs conforming to IEC 60034
8 pole (750min⁻¹) - Cast Iron Construction 80-180

Rated power	Full load speed in revolutions per minute	Frame reference and size		Full load current at rated voltage			Efficiency	Power factor	Full load torque			Direct on line starting torque ratio	Direct on line pull up torque ratio	Direct on line pull out torque ratio	Direct on line starting current ratio	Star delta starting torque ratio	Star delta pull up torque ratio	Star delta starting current ratio	Rotor inertia Wk ²	Mean sound pressure level @ 1m on no load
P _N	n	Type		I _N			η	cos φ										J	L _{PA}	
kW (hp)	min ⁻¹			230V A	400V A	690V A	1.0 P _N 0.75 P _N 0.5 P _N	1.0 P _N 0.75 P _N 0.5 P _N	M _N Nm	M _A M _N	M _S M _N	M _K M _N	I _A I _N	M _A M _N Y	M _S M _N Y	I _A I _N Y		kgm ²	dB(A)	
0.18 (0.25)	695	WE4-80M1-8	IE4	1.1	0.63	-	{ 67.2 66.4 64.7 }	{ 0.61 0.54 0.43 }	2.47	2.0	1.7	1.9	7.5	-	-	-		0.0021	40	
0.25 (0.33)	695	WE4-80M2-8	IE4	1.5	0.84	-	{ 70.8 70.0 68.3 }	{ 0.61 0.54 0.43 }	3.44	2.0	1.7	1.9	7.9	-	-	-		0.0023	40	
0.37 (0.55)	700	WE4-90S-8	IE4	2.0	1.18	-	{ 74.3 73.4 71.8 }	{ 0.61 0.55 0.44 }	5.0	2.0	1.7	1.9	8.3	-	-	-		0.0062	44	
0.55 (0.75)	700	WE4-90L-8	IE4	3.0	1.69	-	{ 77.0 76.1 74.5 }	{ 0.61 0.55 0.44 }	7.5	2.0	1.7	2.0	7.4	-	-	-		0.0081	44	
0.75 (1.0)	710	WE4-100L1-8	IE4	3.62	2.09	-	{ 78.4 86.2 75.9 }	{ 0.66 0.60 0.49 }	10.1	2.0	1.7	2.0	7.0	-	-	-		0.011	47	
1.1 (1.5)	710	WE4-100L2-8	IE4	5.07	2.93	-	{ 80.8 81.8 78.3 }	{ 0.67 0.61 0.50 }	14.8	2.0	1.7	2.0	7.0	-	-	-		0.012	47	
1.5 (2.0)	710	WE4-112M-8	IE4	6.58	3.8	-	{ 82.6 83.5 81.4 }	{ 0.69 0.63 0.52 }	20.2	2.0	1.7	2.0	7.0	-	-	-		0.022	49	
2.2 (3.0)	720	WE4-132S-8	IE4	9.35	5.4	-	{ 84.5 85.3 83.3 }	{ 0.70 0.64 0.54 }	29.2	1.8	1.6	2.0	7.5	-	-	-		0.027	52	
3.0 (4.0)	720	WE4-132M-8	IE4	12.5	7.2	-	{ 85.9 86.7 84.7 }	{ 0.70 0.64 0.54 }	39.8	1.8	1.6	2.0	7.8	-	-	-		0.03	52	
4.0 (5.5)	730	WE4-160M1-8	IE4	-	9.3	5.4	{ 87.1 87.5 86.0 }	{ 0.71 0.65 0.56 }	52	1.8	1.6	2.0	7.9	0.6	0.5	2.5		0.12	55	
5.5 (7.5)	730	WE4-160M2-8	IE4	-	12.5	7.2	{ 88.3 88.7 87.4 }	{ 0.72 0.66 0.57 }	72	1.8	1.6	2.0	8.1	0.6	0.5	2.5		0.13	55	
7.5 (10)	730	WE4-160L-8	IE4	-	16.4	9.5	{ 89.3 89.7 88.4 }	{ 0.74 0.67 0.59 }	98	1.8	1.6	2.0	7.8	0.6	0.5	2.4		0.18	55	
11 (15)	735	WE4-180L-8	IE4	-	23.7	13.7	{ 90.4 90.4 89.5 }	{ 0.74 0.67 0.59 }	143	1.8	1.6	2.0	7.9	0.6	0.5	2.5		0.28	57	

Performance data

IE4

Outputs conforming to IEC 60034
8 pole (750min⁻¹) - Cast Iron Construction 200-355

Rated power		Full load speed in revolutions per minute		Frame reference and size	Full load current at rated voltage			Efficiency		Power factor	Full load torque		Direct on line starting torque ratio		Direct on line pull up torque ratio		Direct on line pull out torque ratio		Direct on line starting current ratio		Star delta starting torque ratio		Star delta pull up torque ratio		Star delta starting current ratio		Rotor inertia Wk²	Mean sound level (dBA)
P _N		n	Type		I _N			η	cos φ		M _N	M _A	M _S	M _K	I _A	M _A	M _S	I _A	J	L _{PA}								
kW (hp)	min ⁻¹			230V A	400V A	690V A	1.0 P _N 0.75 P _N 0.5 P _N	1.0 P _N 0.75 P _N 0.5 P _N	Nm	M _A M _N	M _S M _N	M _K M _N	I _A I _N	M _A M _N Y	M _S M _N Y	I _A I _N Y	kgm²	dB(A)										
15 (20)	735	WE4-200L-8	IE4	-	31.7	18.3	{ 91.2 91.2 90.1 }	{ 0.75 0.70 0.61 }	195	1.8	1.6	2.0	8.0	0.6	0.5	2.5	0.42	60										
18.5 (25)	740	WE4-225S-8	IE4	-	38.8	22.4	{ 91.7 91.7 90.6 }	{ 0.75 0.70 0.61 }	239	1.8	1.6	2.0	8.1	0.6	0.5	2.5	0.55	60										
22 (30)	740	WE4-225M-8	IE4	-	45.4	26.2	{ 92.1 92.1 91.1 }	{ 0.76 0.71 0.62 }	284	1.8	1.6	2.0	8.3	0.6	0.5	2.6	1	60										
30 (40)	740	WE4-250M-8	IE4	-	61	35	{ 92.7 92.7 91.6 }	{ 0.77 0.72 0.64 }	387	1.8	1.6	2.0	7.9	0.6	0.5	2.5	1.4	61										
37 (50)	740	WE4-280S-8	IE4	-	74	43	{ 93.1 93.1 92.1 }	{ 0.78 0.73 0.64 }	478	1.8	1.6	2.0	7.9	0.6	0.5	2.5	2.8	62										
45 (60)	740	WE4-280M-8	IE4	-	89	51	{ 93.4 93.4 92.3 }	{ 0.78 0.73 0.65 }	581	1.8	1.6	2.0	7.9	0.6	0.5	2.5	3.5	62										
55 (75)	745	WE4-315S-8	IE4	-	106	61	{ 93.7 93.7 92.8 }	{ 0.80 0.75 0.69 }	705	1.6	1.4	2.0	8.2	0.5	0.4	2.6	3.6	68										
75 (100)	745	WE4-315M-8	IE4	-	144	83	{ 94.2 94.2 93.3 }	{ 0.80 0.75 0.69 }	961	1.6	1.4	2.0	7.6	0.5	0.4	2.4	4.4	68										
90 (125)	745	WE4-315L1-8	IE4	-	170	98	{ 94.4 94.4 93.3 }	{ 0.81 0.77 0.71 }	1154	1.6	1.4	2.0	7.7	0.5	0.4	2.4	5.4	68										
110 (150)	745	WE4-315L2-8	IE4	-	207	120	{ 94.7 94.7 93.6 }	{ 0.81 0.77 0.71 }	1410	1.6	1.4	2.0	7.7	0.5	0.4	2.4	6	68										
132 (175)	745	WE4-355M1-8	IE4	-	248	143	{ 94.9 94.9 93.8 }	{ 0.81 0.78 0.72 }	1692	1.6	1.4	2.0	7.7	0.5	0.4	2.4	10	75										
160 (215)	745	WE4-355M2-8	IE4	-	296	171	{ 95.1 95.1 94.1 }	{ 0.82 0.80 0.74 }	2051	1.6	1.4	2.0	7.7	0.5	0.4	2.4	13	75										
200 (270)	745	WE4-355L-8	IE4	-	369	213	{ 95.4 95.4 94.3 }	{ 0.82 0.80 0.74 }	2564	1.6	1.4	2.0	7.8	0.5	0.4	2.4	13	75										

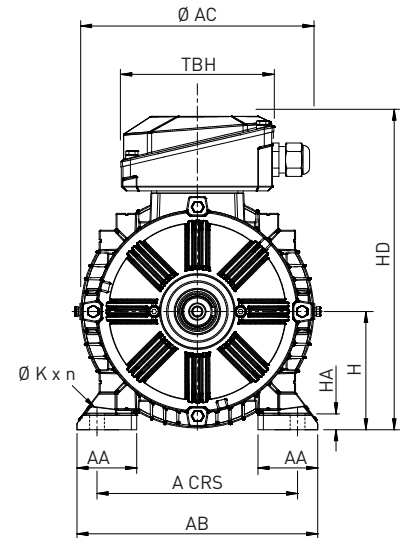
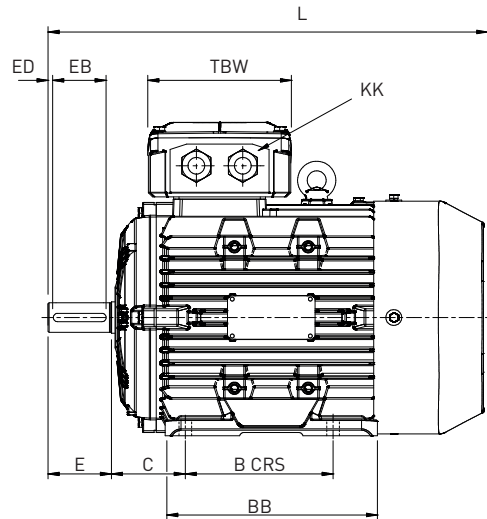
Dimensions - IEC specification

26

Foot, flange and face mounting
Frame sizes 63 to 160 aluminium

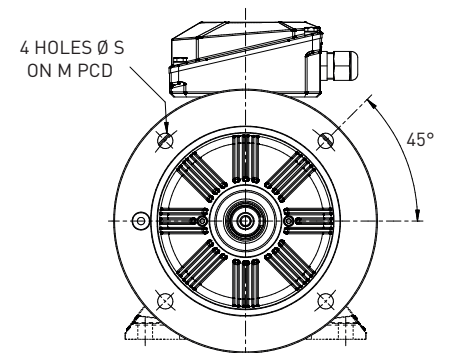
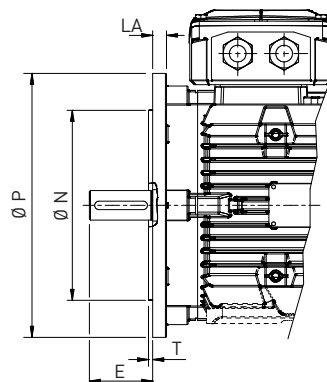
IM B3
IM 1001

Mounting options



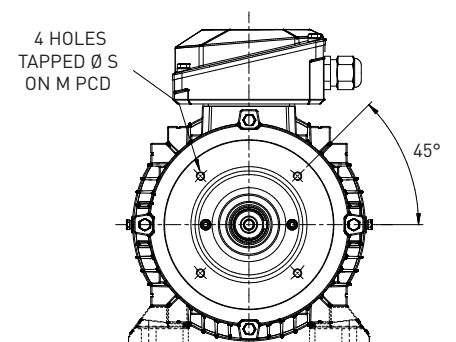
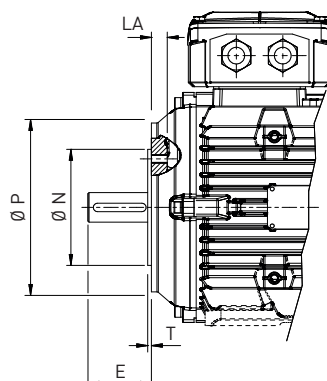
IM B5 / IM B35
IM 3001 / IM 2001

Mounting options



IM B14 / IM B34
IM 3601 / IM 2101

Mounting options



Dimensions - IEC specification

Foot, flange and face mounting
Frame sizes 63 to 160 aluminium

27

General Dimensions - WE														terminal box		
Type	A	B	C	H	K x n	IE3 L	IE4 L	AA	AB	Ø AC	BB	HA	HD	TBW	TBH	KK
WE-63M	100	80	40	63	7 x 4	238	238	25	125	127	100	2.5	177	90	96	1 x CM25
WE-71M	112	90	45	71	7 x 4	280	282	23	138	142	115	2.5	190	90	96	1 x CM25
WE-80M	125	100	50	80	10 x 4	315	335	38.5	156	160	125	10	221	90	96	1 x CM25
WE-90S	140	100	56	90	10 x 4	329	341	39.5	172	177	150	13	244	102	110	1 x CM25
WE-90L	140	125	56	90	10 x 4	351	368	39.5	172	177	175	13	244	102	110	1 x CM25
WE-100L	160	140	63	100	12 x 4	401	424	46.5	200	208	198	13	268	102	110	1 x CM25
WE-112M	190	140	70	112	12 x 4	417	461	56.5	228	226	201	15	305	136	146	2 x CM25
WE-132S	216	140	89	132	12 x 4	450	450	60	262	260	230	18	345	136	146	2 x CM25
WE-132M	216	178	89	132	12 x 4	490	490	60	262	260	250	18	345	136	146	2 x CM25
WE-160M	254	210	108	160	14.5 x 4	620	620	65	314	320	280	20	422	171	181	2 x CM32
WE-160L	254	254	108	160	14.5 x 4	665	665	65	314	320	324	20	422	171	181	2 x CM32

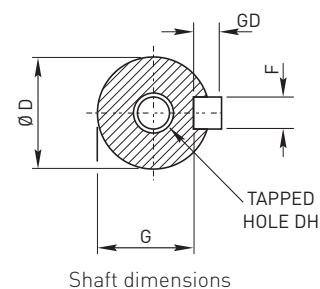
n - number of foot fixing holes.
TBW & TBH - show dimensions for Ex db box type, for Exdb eb see page 17

D Flange						
Type	IM B5 flange mounting					
	M	N	P	S	T	LA
WE-63	115	95	140	10	3	9
WE-71	130	110	160	10	3.5	9
WE-80	165	130	200	12	3.5	12
WE-90	165	130	200	12	3.5	10
WE-100	215	180	250	14.5	4	13
WE-112	215	180	250	14.5	4	13
WE-132	265	230	300	14.5	4	16
WE-160	300	250	350	18.5	5	16

C Face						
Type	IM B14 flange mounting					
	M	N	P	S	T	LA
WE-63	75	60	90	M5	2.5	-
WE-71	85	70	105	M6	2.5	8
WE-80	100	80	120	M6	3	9.5
WE-90	115	95	140	M8	3	15
WE-100	130	110	160	M8	3.5	10.5
WE-112	130	110	160	M8	3.5	15

Note, care must be taken to ensure mounting bolts do not protrude beyond the 'C' face casting thickness 'LA'

Shaft								
Type	All poles							
	Ø D	E	F	G	GD	EB	ED	DH
WE-63	11	23	4	8.5	4	18	2.5	M4 x 10
WE-71	14	30	5	11	5	25	2.5	M5 x 12.5
WE-80	19	40	6	15.5	6	32	4	M6 x 20
WE-90	24	50	8	20	7	40	5	M8 x 22
WE-100	28	60	8	24	7	50	5	M10 x 22
WE-112	28	60	8	24	7	50	5	M10 x 22
WE-132	38	80	10	33	8	70	5	M12 x 28
WE-160	42	110	12	37	8	90	10	M16 x 28

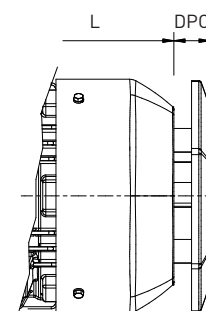


Drip proof canopy (impact canopy)

To find the overall length of a motor fitted with a drip proof canopy, please add dimension 'DPC' to dimension 'L'.

Note. All shaft down WE motors must be fitted with a drip proof canopy.

Overall length + DPC	
Type	L + DPC
WE-80	'L' + 35mm
WE-90	'L' + 30mm
WE-100	'L' + 45mm
WE-112	'L' + 35mm
WE-132	'L' + 45mm
WE-160	'L' + 45mm
WE-180	'L' + 50mm



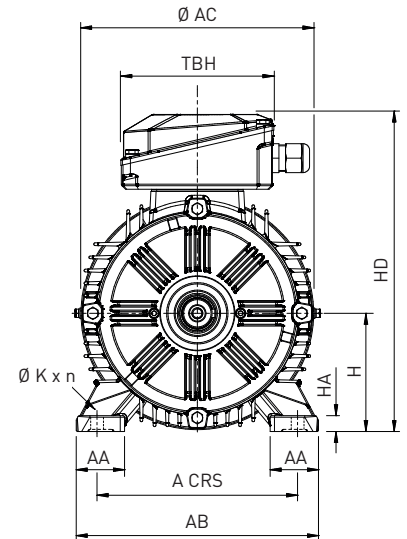
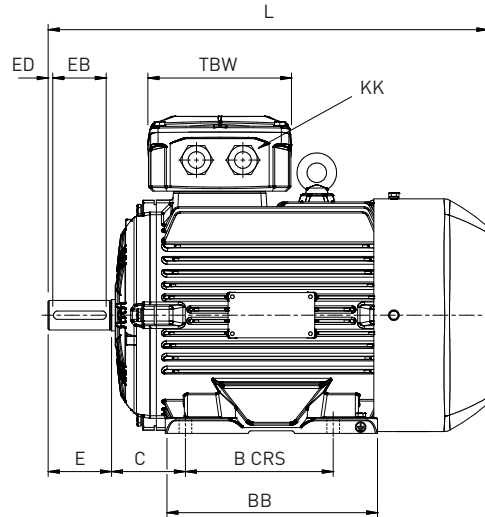
Dimensions - IEC specification

28

Foot, flange and face mounting
Frame sizes 80 to 180 cast iron

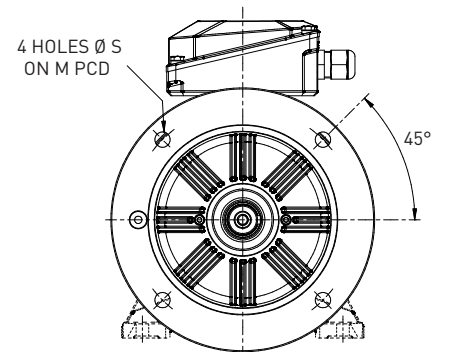
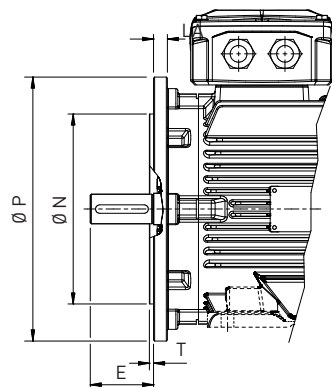
IM B3
IM 1001

Mounting options



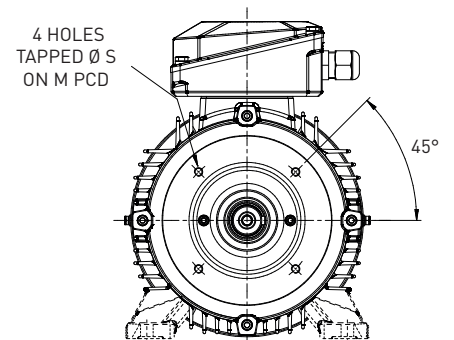
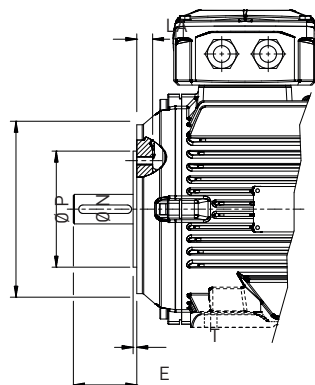
IM B5 / IM B35
IM 3001 / IM 2001

Mounting options



IM B14 / IM B34
IM 3601 / IM 2101

Mounting options



Dimensions - IEC specification

Foot, flange and face mounting
Frame sizes 80 to 180 cast iron

29

General Dimensions - WE

Type	A	B	C	H	K x n	IE3		IE4		AA	AB	Ø AC	BB	HA	HD	terminal box		
						L	L	L	L							TBW	TBH	KK
WE-80M	125	100	50	80	10 x 4	299	320	32	157	163	146	10	221	90	96	1 x CM25		
WE-90S	140	100	56	90	10 x 4	329	345	37	172	177	153	12	244	102	110	1 x CM25		
WE-90L	140	125	56	90	10 x 4	351	370	37	172	177	175	12	244	102	110	1 x CM25		
WE-100L	160	140	63	100	12 x 4	401	420	45	200	208	198	15	268	102	110	1 x CM25		
WE-112M	190	140	70	112	12 x 4	417	465	45	228	226	201	15	305	136	146	2 x CM25		
WE-132S	216	140	89	132	12 x 4	454	450	56.5	262	252	184	18	340	136	146	2 x CM25		
WE-132M	216	178	89	132	12 x 4	492	490	56.5	262	252	222	18	340	136	146	2 x CM25		
WE-160M	254	210	108	160	14.5 x 4	590	620	65	314	318	280	20	421	171	181	2 x CM32		
WE-160L	254	254	108	160	14.5 x 4	634	665	65	314	318	324	20	421	171	181	2 x CM32		
WE-180M	279	241	121	180	14.5 x 4	655	735	68	349	360	297	22	463	171	181	2 x CM32		
WE-180L	279	279	121	180	14.5 x 4	693	770	68	349	360	335	22	463	171	181	2 x CM32		

n - number of foot fixing holes.

TBW & TBH - show dimensions for Ex db box type, for Exdb eb see page 17

D Flange

Type	IM B5 flange mounting					
	M	N	P	S	T	LA
WE-80	165	130	200	12	3.5	12
WE-90	165	130	200	12	3.5	10
WE-100	215	180	250	14.5	4	13
WE-112	215	180	250	14.5	4	13
WE-132	265	230	300	14.5	4	16
WE-160	300	250	350	18.5	5	16
WE-180	300	250	350	18.5	5	15

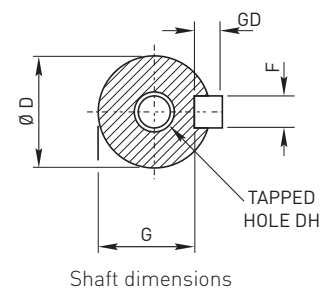
C Face

Type	IM B14 flange mounting					
	M	N	P	S	T	LA
WE-80	100	80	120	M6	3	12
WE-90	115	95	140	M8	3	15
WE-100	130	110	160	M8	3.5	10.5
WE-112	130	110	160	M8	3.5	15

Note, care must be taken to ensure mounting bolts do not protrude beyond the 'C' face casting thickness 'LA'

Shaft

Type	All poles							
	Ø D	E	F	G	GD	EB	ED	DH
WE-80	19	40	6	15.5	6	32	4	M6 x 20
WE-90	24	50	8	20	7	40	5	M8 x 22
WE-100	28	60	8	24	7	50	5	M10 x 22
WE-112	28	60	8	24	7	50	5	M10 x 22
WE-132	38	80	10	33	8	70	5	M12 x 28
WE-160	42	110	12	37	8	90	10	M16 x 36
WE-180	48	110	14	42.5	9	90	10	M16 x 36



Shaft dimensions

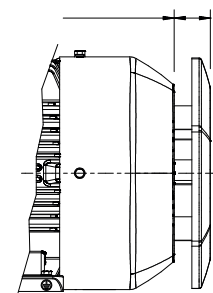
Drip proof canopy (impact canopy)

To find the overall length of a motor fitted with a drip proof canopy, please add dimension 'DPC' to dimension 'L'.

Note. All shaft down WE motors must be fitted with a drip proof canopy.

Overall length + DPC

Type	L + DPC
WE-80	'L' + 35mm
WE-90	'L' + 30mm
WE-100	'L' + 45mm
WE-112	'L' + 35mm
WE-132	'L' + 45mm
WE-160	'L' + 45mm
WE-180	'L' + 50mm



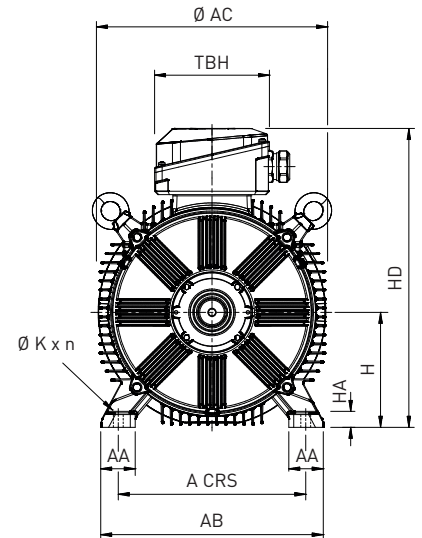
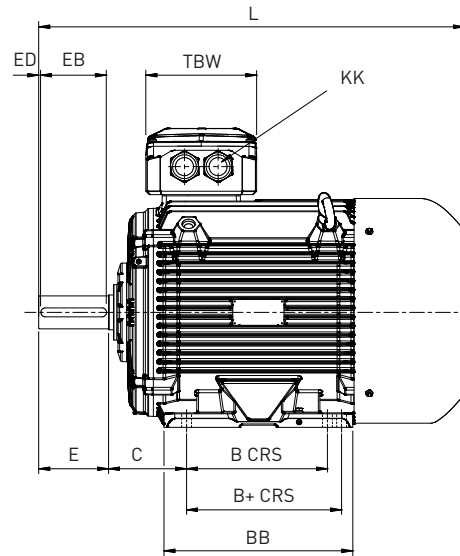
Dimensions - IEC specification

30

Foot and Flange mounting
Frame sizes 200 to 315 cast iron

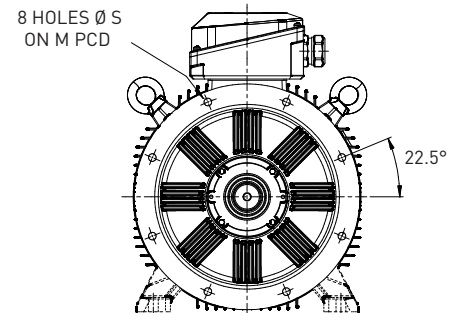
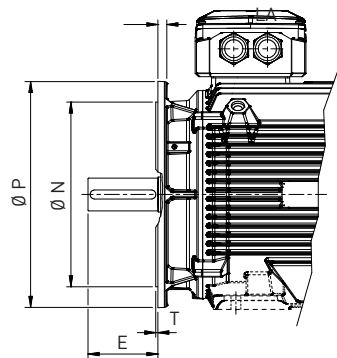
IM B3
IM 1001

Mounting options

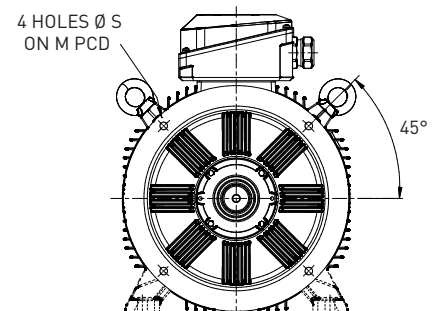


IM B5 / IM B35
IM 3001 / IM 2001

Mounting options



8 holes at 22.5° for flanges to suit
225 frames and above to IEC specification



4 holes at 45° on the flange to suit
200 frame IEC specification

Dimensions - IEC specification

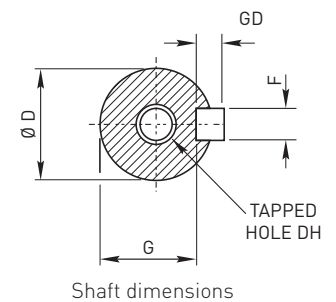
Foot, and Flange mounting
Frame sizes 200 to 315 cast iron

31

General Dimensions - WE																		terminal box		
Type	A	B	B+	C	H	K x n	IE3 4 Pole + L	IE3 2 Pole L	IE4 4 Pole + L	IE4 2 Pole L	AA	AB	Ø AC	BB	HA	HD	TBW	TBH	KK	
WE-200L	318	305	-	133	200	18.5	796	796	845	845	84	388	396	380	25	526	220	230	2 x CM50	
WE-225S	356	286	-	149	225	18.5	846	-	900	-	84	431	442	368	28	570	220	230	2 x CM50	
WE-225M	356	311	-	149	225	18.5	841	841	925	900	84	431	442	368	28	570	220	230	2 x CM50	
WE-250M	406	349	-	168	250	24	929	929	950	950	80	484	488	421	30	671	270	280	2 x CM63	
WE-280S	457	368	-	190	280	24	1007	1007	1007	1007	84	542	547	460	35	728	270	280	2 x CM63	
WE-280M	457	419	-	190	280	24	1055	1055	1055	1055	84	542	547	515	35	728	270	280	2 x CM63	
WE-315S	508	406	-	216	315	28	1220	1190	1220	1190	115	628	631	540	40	822	312	329	2 x CM63	
WE-315M	508	457	-	216	315	28	1320	1290	1320	1290	115	628	631	640	40	822	312	329	2 x CM63	
WE-315L	508	508	-	216	315	28	1320	1290	1320	1290	115	628	631	640	40	822	312	329	2 x CM63	
WE-315L1	508	508	-	216	315	28	1320	1290	1320	1290	115	628	631	640	40	822	312	329	2 x CM63	
WE-315L2	508	508	-	216	315	28	1320	1290	1320	1290	115	628	631	640	40	822	312	329	2 x CM63	
WE-355M	610	560	-	254	355	28	1462	1432	1462	1432	146	740	709	700	45	999	382	402	2 x CM72	
WE-355L/1,2	610	630	-	254	355	28	1632	1602	1632	1602	146	740	709	887	45	999	382	402	2 x CM72	

n - number of foot fixing holes. B indicates standard foot fixing holes centres for frame, B+ indicates additional foot fixing holes centres.
TBW & TBH - show dimensions for Ex db box type, for Exdb eb see page 17

Flange						
Type	IM B5 flange mounting					
	M	N	P	S	T	LA
WE-200	350	300	400	18.5	5	19
WE-225	400	350	450	18.5	5	19
WE-250	500	450	550	18.5	5	25
WE-280	500	450	550	18.5	5	25
WE-315	600	550	660	24	6	29
WE-355	740	680	800	24	6	



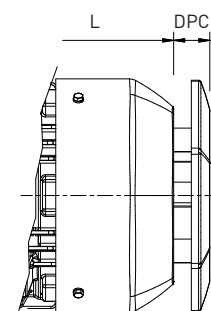
Shaft																
Type	4 pole +								2 pole							
	Ø D	E	F	G	GD	EB	ED	DH	Ø D	E	F	G	GD	EB	ED	DH
WE-200	55	110	16	49	10	100	5	M20 x 42	55	110	16	49	10	100	5	M20 x 42
WE-225	60	140	18	53	11	125	10	M20 x 42	55	110	16	49	10	100	5	M20 x 42
WE-250	65	140	18	58	11	125	10	M20 x 42	60	140	18	53	11	125	10	M20 x 42
WE-280	75	140	20	67.5	12	125	10	M20 x 42	65	140	18	58	11	125	10	M20 x 42
WE-315	80	170	22	71	14	160	5	M20 x 42	65	140	18	58	11	125	10	M20 x 42
WE-355	95	170	25	86	14	160	5	M24 x 56	75	140	20	67.5	12	130	5	M24 x 50

Drip proof canopy (impact canopy)

To find the overall length of a motor fitted with a drip proof canopy, please add dimension 'DPC' to dimension 'L'.

Note. All shaft down WE motors must be fitted with a drip proof canopy.

Overall length + DPC	
Type	L + DPC
WE-200	'L' + 60mm
WE-225	'L' + 60mm
WE-250	'L' + 80mm
WE-280	'L' + 80mm
WE-315	'L' + 100mm
WE-355	'L' + 103mm



Technical information

32 Mechanical: bearings, relubrication & oilseals

Bearings and greasing arrangements

Bearings are pre-packed with a grease type dependant on frame size and re-greasing facility as detailed in table opposite:

Standard and re-greasing facilities		
Type	Standard grease	Regreasing facility
80 - 180	EA6 Polyurea	-
200 - 315	Esso Unirex N3	Standard

Aluminium:

WE3 & WE4- Bearing references and oil seals					
Type	Poles	IE3 & IE4 Bearings		IE3 & IE4 Oil seals ⁽¹⁾	
		Drive end	Non drive end	Drive end	Non drive end
WE-63	All	6201ZZ C3	6201ZZ C3	12 x 22 x 5	12 x 22 x 5
WE -71	All	6202ZZ C3	6202ZZ C3	15 x 25 x 5	15 x 25 x 5
WE-80	All	6204ZZ C3	6204ZZ C3	20 x 30 x 5	17 x 28 x 5
WE-90	All	6205ZZ C3	6203ZZ C3	25 x 35 x 6	17 x 28 x 5
WE-100	All	6206ZZ C3	6205ZZ C3	30 x 42 x 7	25 x 35 x 6
WE-112	All	6206ZZ C3	6206ZZ C3	30 x 42 x 7	30 x 42 x 7
WE-132	All	6208ZZ C3	6208ZZ C3	40 x 52 x 7	40 x 52 x 7
WE-160	All	6309ZZ C3	6309ZZ C3	45 x 62 x 8	45 x 62 x 8

⁽¹⁾ Sizes given are in mm, and represent bore x outside diameter x width

⁽²⁾ Material: Nitrile ⁽³⁾ Material: Silicone

Grease intervals quoted are for 70°C at the outer race, for every 15° above this intervals should be halved.

Regreasing intervals for vertical mount motors should be multiplied by a factor 0.65.

Cast Iron

WE3- Bearing references and oil seals									
Type	Poles	IE3 Bearings		Relubrication interval & grease quantity				IE3 Oil seals ⁽¹⁾	
		Drive end	Non drive end	DE (hrs)	DE (gms)	NDE (hrs)	NDE (gms)	Drive end	Non drive end
WE3-80	All	6204ZZ C3	6204ZZ C3	-	-	-	-	20 x 30 x 5	20 x 30 x 5
WE3-90	All	6205ZZC3	6203ZZ C3	-	-	-	-	25 x 35 x 6	17 x 28 x 5
WE3-100	All	6206ZZ C3	6205ZZ C3	-	-	-	-	30 x 42 x 7	25 x 35 x 6
WE3-112	All	6206ZZ C3	6206ZZ C3	-	-	-	-	30 x 42 x 7	30 x 42 x 7
WE3-132	All	6208ZZ C3	6305ZZ C3	-	-	-	-	40 x 52 x 7	25 x 35 x 6
WE3-160	All	6309ZZ C3	6307ZZ C3	-	-	-	-	45 x 62 x 8	35 x 47 x 7
WE3-180	All	6310ZZ C3	6308ZZ C3	-	-	-	-	50 x 65 x 8	40 x 52 x 7
WE3-200	2	6312 C3	6212 C3	9244	20	10331	12	60 x 85 x 10	60 x 85 x 10
	4	6312 C3	6212 C3	184500	20	20662	12	60 x 85 x 10	60 x 85 x 10
	6	6312 C3	6212 C3	24000	20	24000	12	60 x 85 x 10	60 x 85 x 10
	8	6312 C3	6212 C3	24000	20	24000	12	60 x 85 x 10	60 x 85 x 10
WE3-225	2	6312 C3	6312 C3	9244	20	9244	20	60 x 80 x 8	60 x 80 x 8
	4	6313 C3	6312 C3	18192	23	18488	20	65 x 90 x 10	60 x 80 x 8
	6	6313 C3	6312 C3	23695	23	24000	20	65 x 90 x 10	60 x 80 x 8
	8	6313 C3	6312 C3	24000	23	24000	20	65 x 90 x 10	60 x 80 x 8
WE3-250	2	6313 C3	6313 C3	8186	23	8186	23	65 x 90 x 10	65 x 90 x 10
	4	6314 C3	6313 C3	17439	26	18192	23	70 x 90 x 10	65 x 90 x 10
	6	6314 C3	6313 C3	23041	26	23695	23	70 x 90 x 10	65 x 90 x 10
	8	6314 C3	6313 C3	24000	26	24000	23	70 x 90 x 10	65 x 90 x 10
WE3-280	2	6314 C3	6314 C3	7004	26	7004	26	70 x 90 x 10	70 x 90 x 10
	4	6317 C3	6314 C3	15946	37	17439	26	85 x 110 x 12	70 x 90 x 10
	6	6317 C3	6314 C3	21881	37	23041	26	85 x 110 x 12	70 x 90 x 10
	8	6317 C3	6314 C3	24000	37	24000	26	85 x 110 x 12	70 x 90 x 10
WE3-315	2	6317 C3	6317 C3	4022	37	4022	37	85 x 110 x 12	85 x 110 x 12
	4	6319 C3	6319 C3	15700	45	15700	45	95 x 120 x 12	95 x 120 x 12
	6	6319 C3	6319 C3	21567	45	21567	45	95 x 120 x 12	95 x 120 x 12
	8	6319 C3	6319 C3	24000	45	24000	45	95 x 120 x 12	95 x 120 x 12
WE3-355	2	6319 C3	6319 C3	2571	45	2571	45	95 x 120 x 12	95 x 120 x 12
	4	6322 C3	6322 C3	14284	60	14284	60	110 x 140 x 12	110 x 140 x 12
	6	6322 C3	6322 C3	19730	60	19730	60	110 x 140 x 12	110 x 140 x 12
	8	6322 C3	6322 C3	23962	60	23962	60	110 x 140 x 12	110 x 140 x 12

Technical information

Mechanical: bearings, relubrication & oilseals
Permissible radial load

33

Cast Iron

WE4 - Bearing references and oil seals									
Type	Poles	IE4 Bearings		Relubrication interval & grease quantity				IE4 Oil seals ⁽¹⁾	
		Drive end	Non drive end	DE (hrs)	DE (gms)	NDE (hrs)	NDE (gms)	Drive end	Non drive end
WE4-80	All	6204ZZ C3	6204ZZ C3	-	-	-	-	20 x 30 x 5	20 x 30 x 5
WE4-90	All	6205ZZ C3	6205ZZ C3	-	-	-	-	25 x 35 x 6	25 x 35 x 6
WE4-100	All	6206ZZ C3	6206ZZ C3	-	-	-	-	30 x 42 x 7	30 x 42 x 7
WE4-112	All	6206ZZ C3	6206ZZ C3	-	-	-	-	30 x 42 x 7	30 x 42 x 7
WE4-132	All	6208ZZ C3	6208ZZ C3	-	-	-	-	40 x 52 x 7	40 x 52 x 7
WE4-160	All	6309ZZ C3	6309ZZ C3	-	-	-	-	45 x 62 x 8	45 x 62 x 8
WE4-180	All	6310ZZ C3	6310ZZ C3	-	-	-	-	50 x 65 x 8	50 x 65 x 8
WE4-200	2	6312 C3	6312 C3	9244	20	9244	20	60 x 85 x 10	60 x 85 x 10
	4	6312 C3	6312 C3	18488	20	18488	20	60 x 85 x 10	60 x 85 x 10
	6	6312 C3	6312 C3	24000	20	24000	20	60 x 85 x 10	60 x 85 x 10
	8	6312 C3	6312 C3	24000	20	24000	20	60 x 85 x 10	60 x 85 x 10
WE4-225	2	6312 C3	6312 C3	9244	20	9244	20	60 x 80 x 8	60 x 80 x 8
	4	6313 C3	6312 C3	18192	23	18488	20	65 x 90 x 10	60 x 80 x 8
	6	6313 C3	6312 C3	23695	23	24000	20	65 x 90 x 10	60 x 80 x 8
	8	6313 C3	6312 C3	24000	23	24000	20	65 x 90 x 10	60 x 80 x 8
WE4-250	2	6313 C3	6313 C3	8186	26	8186	23	65 x 90 x 10	65 x 90 x 10
	4	6314 C3	6313 C3	17439	26	18192	23	70 x 90 x 10	65 x 90 x 10
	6	6314 C3	6313 C3	23041	26	23695	23	70 x 90 x 10	65 x 90 x 10
	8	6314 C3	6313 C3	24000	26	24000	23	70 x 90 x 10	65 x 90 x 10
WE4-280	2	6314 C3	6314 C3	7004	26	7004	26	70 x 90 x 10	70 x 90 x 10
	4	6317 C3	6314 C3	15946	37	17439	26	85 x 110 x 12	70 x 90 x 10
	6	6317 C3	6314 C3	21881	37	23041	26	85 x 110 x 12	70 x 90 x 10
	8	6317 C3	6314 C3	24000	37	24000	26	85 x 110 x 12	70 x 90 x 10
WE4-315	2	6317 C3	6317 C3	4022	37	4022	37	85 x 110 x 12	85 x 110 x 12
	4	6319 C3	6319 C3	15700	45	15700	45	95 x 120 x 12	95 x 120 x 12
	6	6319 C3	6319 C3	21567	45	21567	45	95 x 120 x 12	95 x 120 x 12
	8	6319 C3	6319 C3	24000	45	24000	45	95 x 120 x 12	95 x 120 x 12
WE4-355	2	6319 C3	6319 C3	2571	45	2571	45	95 x 120 x 12	95 x 120 x 12
	4	6322 C3	6322 C3	14284	60	14284	60	110 x 140 x 12	110 x 140 x 12
	6	6322 C3	6322 C3	19730	60	19730	60	110 x 140 x 12	110 x 140 x 12
	8	6322 C3	6322 C3	23962	60	23962	60	110 x 140 x 12	110 x 140 x 12

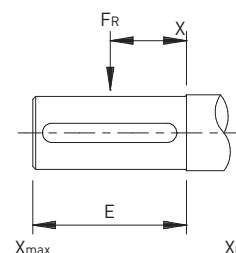
Permissible radial force at the shaft end

The maximum allowable radial force F_R (N) must not be greater than the length of the shaft shoulder. (dimension E).

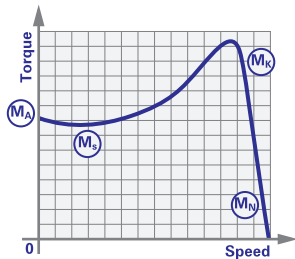
Dimension X (mm) is the distance from the shaft shoulder to the radial force F_R acting on the shaft.
X = Max is at the end of the shaft extension (dimension E).

Radial load F_R (N)								
Type	2 Pole		4 Pole		6 Pole		8 Pole	
	X = 0	X = max	X = 0	X = max	X = 0	X = max	X = 0	X = max
WE-71	440	380	460	400	540	470	-	-
WE-80	720	600	760	630	860	720	980	820
WE-90	780	650	810	670	940	780	1060	880
WE-100	1100	900	1110	910	1310	1070	1480	1210
WE-112	1090	900	1080	890	1290	1060	1460	1200
WE-132	1730	1360	1740	1400	2000	1610	2330	1880
WE-160	2950	2330	3050	2410	3420	2700	3870	3060
WE-180	3420	2740	3460	2820	4080	3320	4430	3610
WE-200	4390	3640	4500	3730	5270	4370	5790	4800
WE-225	4340	3620	5050	4030	5870	4690	6470	5170
WE-250	4910	4000	5710	4650	6520	5310	7180	5840
WE-280	5380	4500	6870	5750	8090	6770	9120	7630
WE-315	6400	5550	7500	6310	8420	7080	9120	7670
WE-355	6770	6070	8620	7560	9910	8690	11590	10160

For dimension 'E' see the relevant dimension page

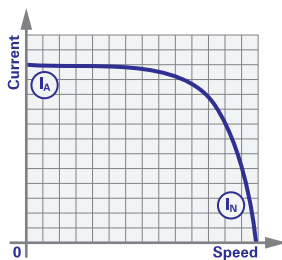


Typical speed / torque curve



(M_A) - Starting torque or locked rotor torque
 (M_S) - Pull up torque or run up torque
 (M_K) - Pull out torque or breakdown torque
 (M_N) - Full load torque

Typical speed / current curve



(I_A) - Starting current
 (I_N) - Full load current

Notes

During the run up period in Star, there must be an adequate excess of motor torque over the load torque. The change to Delta must not occur until the motor is near the operating speed.

Refer to Brook Crompton for running up against a load in excess of 70% full load during Star Delta starting.

Motors are wound for either 230 / 400 volts or 400 / 690 volts

Performance figures are subject to EN tolerances.

Performance figures are based on a 400 volt winding.

Performance data within this catalogue, is from motor testing in accordance with EN 60034-2-1: 2007.

J Rotor Inertia

$$J \text{ (WK}^2 \text{ or WR}^2) = \frac{GD^2}{4}$$

$$J \text{ in lb ft}^2 : \frac{\text{kgm}^2}{0.042}$$

Noise levels

Noise levels shown on the performance pages are for a 50Hz supply only.

Environmental conditions

Ambient temperatures and Altitudes

The kW ratings listed in this catalogue apply to standard motors operating in ambient temperatures not exceeding 40°C and altitudes up to 1000m above sea level.

When operating a standard motor with an alternative ambient temperature or at higher altitude, derating may be necessary in order to maintain its operating temperature limit (Class B).

The listed factors in the table to the right should be used for derating.

For derate factors utilising class F 'total temperature', then please contact your local Brook Crompton sales office.

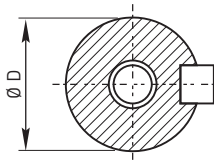
Class 'F' insulation - Class 'B' rise - derate factors

Temp (°C)	Altitude (m)						
	1000	1500	2000	2500	3000	3500	4000
-20 to +30	1.07	1.04	1.00	0.96	0.92	0.88	0.82
30 to +40	1.00	0.97	0.94	0.90	0.86	0.82	0.77
45	0.96	0.93	0.90	0.86	0.82	0.79	0.74
50	0.92	0.89	0.86	0.83	0.79	0.75	0.71
55	0.87	0.84	0.84	0.78	0.75	0.71	0.67
60	0.82	0.82	0.79	0.74	0.70	0.67	0.63

Dimension page notes

Shaft and Flange & Facce spigot tolerances

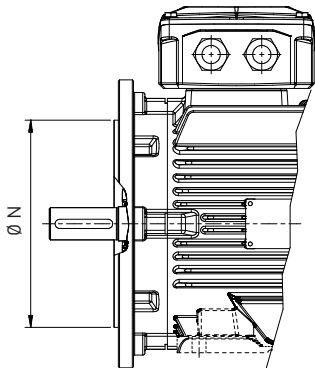
Shaft		
Dim Ø D	Tol.	Limits
11 to 14	j6	+0.008 -0.003
19 to 28	j6	+0.009 -0.004
38 to 48	k6	+0.018 +0.002
55 to 80	k6	+0.030 +0.011
85 to 110	k6	+0.035 +0.013



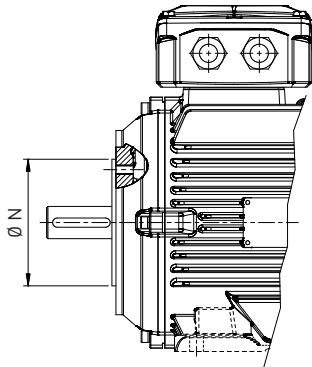
All dimensions shown are in millimetres

Dimensions should not be used for installation purposes unless specially endorsed

D Flange		
Dim Ø N	Tol.	Limits
110	j6	+0.013 -0.009
130 to 180	j6	+0.014 -0.011
230 to 250	j6	+0.016 -0.013
300	j6	+0.016 -0.016
350	j6	+0.018 -0.018
450	j6	+0.020 -0.020
550	j6	+0.022 -0.022
680	js6	+0.025 -0.025



C Face		
Dim Ø N	Tol.	Limits
70 & 80	j6	+0.012 -0.007
95 & 110	j6	+0.013 -0.009



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