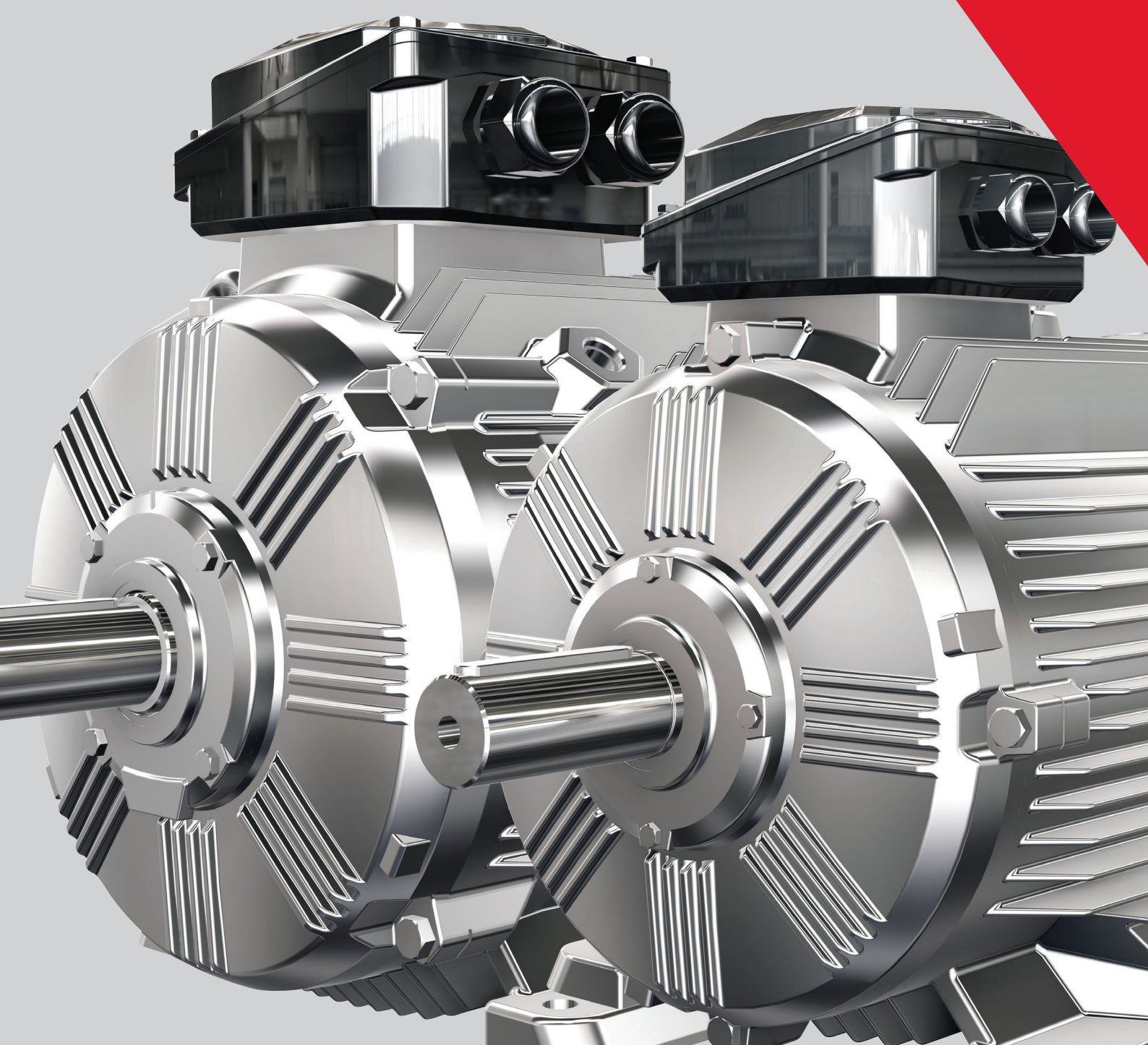




WE3&WE4&WE5

High Efficiency
Three Phase Asynchronous Motor

www.wolong-electric.com

**BROOK
CROMPTON**
a WOLONG company

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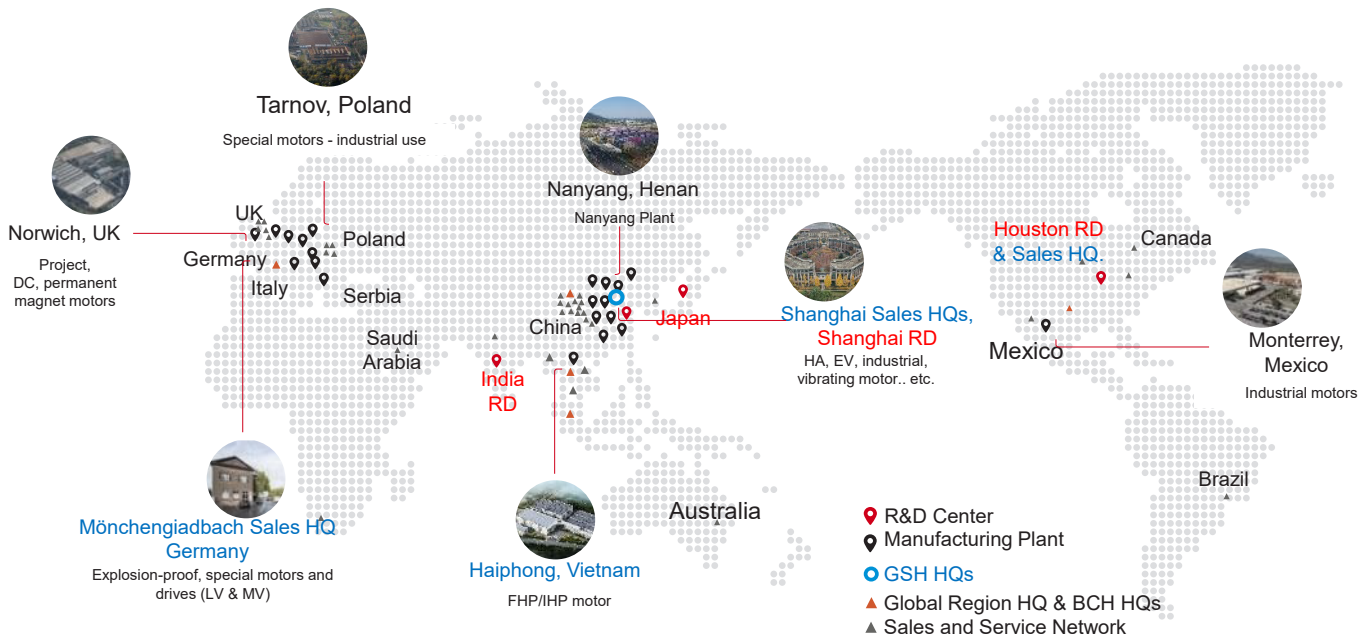
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Wolong Group

Wolong, founded in 1984 and headquartered in Shaoxing, Zhejiang Province, is a global leading industrial enterprise committed to providing safe, efficient, smart and green power drive system solutions with life-long supporting services to global users.

By utilizing cutting edge permanent magnet, nanotechnology and silicon carbide technologies, Wolong has built the China's first motor material demonstration platform, that satisfy the highest standards for power density and energy efficiency of motors and generators. With more than 30 years of development, the company has grown into one of the World's top three motor and drive manufacturers and sales enterprises. Wolong insists on technological innovation to lead the industrial reform, actively supports business digital transformation, continuously develops efficient drive system solutions and creates smart industry brain for the motor and drive life cycle management.



Brook Crompton

Brook Crompton is a global leader in the development of high-efficiency motors. In 1878, it completed the development and production of the first series of high-efficiency motors in the United Kingdom.

It enjoys a good reputation in the electric drive industry in continental Europe, Asia Pacific and North America, and has become the world's leading motor distribution brand.



Product Description

Product Description

WE Series range is a high quality standard range of electric motors with a specification suitable for most industrial applications. The product efficiency meets IEC60034-30-1 IE3 to IE5 grade, mounting dimensions conform to IEC standards, also features a contoured shape, low loss, low noise, low vibration, safe and reliable operation and easy maintenance.



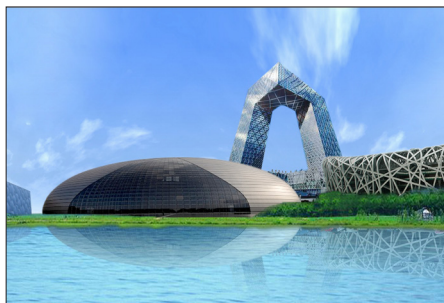
Aluminium motor
Flexible feet
Frame size 63-160



Cast iron motor
Fixed feet
Frame size 80-355

Typical applications

Widely used in pumps, fans, machine tools, reducers, packaging machinery, mining machinery, construction machinery and other types of transmission machinery industry.



Nomenclature

WE5 - 160 M1-2 - X

Environmental code

(Default: indoor; details are as follows:)

F1: indoor, medium degree of corrosion resistance

F2: indoor, high degree of corrosion resistance

WF1: outdoor, medium degree of corrosion resistance

WF2: outdoor, high degree of corrosion resistance

TH: -humid tropical regions

G: plateau

Specification code: 160 represents motor center height is 160mm (or frame size is 160), the housing length is M, the core length is 1, and the pole number is 2

Product code: WE3 series, IE3 premium efficiency

WE4 series, IE4 ultra-high efficiency

WE5 series, IE5 ultra-high efficiency

Specification

Specification	Standard product	Option
Frame size	63~355	-
Rated power	0.18~375kW	-
Number of poles	2P, 4P, 6P, 8P	-
Rated voltage	380V	On request
Frequency	50Hz	60 Hz
Duty	S1	S2, S3
Efficiency level	IE3, IE4, IE5	-
Mounting option	B3, B5, B35	B14, B34
Insulation	Class F	Class H
Connection	Below 4kW: "Y" connection 4kW or above: "Δ" connection	-
Thermal protection	-	Thermistors, Thermostats or RTDs
Anti-Condensation heaters	-	110V or 220 to 240V
Enclosure	IP55	IP56, IP65
Cooling type	IC411	IC416, IC418
Frame material	Aluminium: 90 to 160 Cast iron : 80 to 355	-
Terminal box position	Top	Right hand side, left hand side
Located bearing	Drive end	-
Lubrication	80 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	- Alternative speed range
Ambient temperature	-20°C~+40°C	-
Altitude	No more than 1000 m	On request

IE5 Performance data

▼ Cast iron motor-3000 r/min (2 pole) IE5

Model	Power	Rated Current (A)			Speed	Efficiency (%)			Power Factor			Locked Rotor Torque	Locked Rotor Current	Maximum Torque	Weight	Noise		Moment of Inertia	Torque
	kW	I _N 380V	I _N 400V	I _N 415V	r/min	50%	75%	100%	50%	75%	100%	Rated Torque	Rated Current	Rated Torque	kg	L _{PA} dB(A)	L _{WA} dB(A)	kg·m ²	N·m
WE5-80M1-2	0.75	1.59	1.51	1.46	2875	83.6	86.3	86.3	0.74	0.80	0.83	2.3	10	2.3	20	54	62	0.0053	2.5
WE5-80M2-2	1.1	2.29	2.18	2.10	2885	86.2	87.8	87.8	0.74	0.80	0.83	2.3	9.0	2.3	22	54	62	0.0074	3.65
WE5-90S-2	1.5	3.02	2.87	2.76	2890	86.9	88.9	88.9	0.75	0.82	0.85	2.3	9.0	2.3	27	59	67	0.0095	4.97
WE5-90L-2	2.2	4.31	4.09	3.95	2895	88.1	90.2	90.2	0.76	0.83	0.86	2.3	9.5	2.3	31	59	67	0.018	7.32
WE5-100L-2	3	5.75	5.46	5.27	2900	88.9	91.1	91.1	0.79	0.84	0.87	2.3	9.5	2.3	44	66	74	0.032	9.88
WE5-112M-2	4	7.52	7.15	6.89	2915	90.0	91.8	91.8	0.79	0.86	0.88	2.3	9.5	2.3	54	69	77	0.066	13.2
WE5-132S1-2	5.5	10.3	9.74	9.39	2925	90.8	92.6	92.6	0.79	0.86	0.88	2.2	9.5	2.3	88	71	79	0.077	18.0
WE5-132S2-2	7.5	13.7	13.0	12.6	2925	91.1	93.3	93.3	0.80	0.86	0.89	2.2	9.5	2.3	94	71	79	0.22	24.7
WE5-160M1-2	11	20.0	19.0	18.3	2940	93.0	94.0	94.0	0.79	0.86	0.89	2.2	9.5	2.3	160	73	81	0.26	35.7
WE5-160M2-2	15	27.1	25.7	24.8	2940	93.1	94.5	94.5	0.79	0.86	0.89	2.2	9.5	2.3	177	73	81	0.33	48.9
WE5-160L-2	18.5	33.3	31.6	30.5	2940	93.3	94.9	94.9	0.81	0.87	0.89	2.2	9.5	2.3	195	73	81	0.39	60.3
WE5-180M-2	22	39.5	37.5	36.2	2945	93.6	95.1	95.1	0.81	0.87	0.89	2.2	9.5	2.3	210	75	83	0.66	71.3
WE5-200L1-2	30	53.6	50.9	49.1	2970	94.4	95.5	95.5	0.82	0.87	0.89	2.2	9.0	2.3	280	76	84	0.77	96.5
WE5-200L2-2	37	65.9	62.6	60.4	2970	94.5	95.8	95.8	0.82	0.86	0.89	2.2	9.0	2.3	310	76	84	1.34	119
WE5-225M-2	45	80.0	76.0	73.3	2970	94.7	96.0	96.0	0.83	0.87	0.89	2.2	9.0	2.3	415	78	86	1.63	145
WE5-250M-2	55	97.6	92.7	89.4	2970	94.9	96.2	96.2	0.83	0.87	0.89	2.2	9.0	2.3	490	75	89	1.98	177
WE5-280S-2	75	133	126	121	2980	95.0	96.5	96.5	0.83	0.88	0.89	2.0	8.5	2.3	660	79	91	2.12	241
WE5-280M-2	90	159	151	146	2980	95.2	96.6	96.6	0.84	0.88	0.89	2.0	8.5	2.3	700	79	91	2.37	289
WE5-315S-2	110	194	184	178	2985	95.3	96.8	96.8	0.84	0.88	0.89	1.9	8.5	2.3	1170	79	92	2.54	353
WE5-315M-2	132	233	221	213	2985	95.4	96.9	96.9	0.84	0.88	0.89	1.9	8.5	2.3	1300	79	92	2.86	423
WE5-315L1-2	160	282	268	258	2985	95.6	97.0	97.0	0.85	0.88	0.89	1.9	8.5	2.2	1360	79	92	3.38	513
WE5-315L2-2	185	325	309	298	2985	95.6	97.2	97.2	0.85	0.88	0.89	1.9	8.5	2.2	1410	79	92	3.58	593
WE5-315L3-2	200	351	334	322	2985	95.6	97.2	97.2	0.85	0.88	0.89	1.9	8.5	2.2	1540	79	92	4.05	641
WE5-355M1-2	220	378	359	346	2990	95.6	97.2	97.2	0.87	0.89	0.91	1.8	8.5	2.2	1860	87	100	6.53	705
WE5-355M2-2	250	429	408	393	2990	95.6	97.2	97.2	0.88	0.89	0.91	1.8	8.5	2.2	2200	87	100	6.87	798
WE5-355L1-2	280	481	457	440	2990	95.6	97.2	97.2	0.88	0.89	0.91	1.8	8.5	2.2	2160	87	100	7.30	897
WE5-355L2-2	315	541	514	495	2990	95.7	97.2	97.2	0.88	0.89	0.91	1.8	8.5	2.2	2450	87	100	7.41	1009
WE5-355I-2	355	610	579	558	2990	95.8	97.2	97.2	0.88	0.89	0.91	1.1	8.6	1.8	2450	89	104	7.71	1138
WE5-3552-2	375	651	619	596	2990	95.8	97.2	97.2	0.88	0.89	0.90	1.1	8.6	1.8	2580	89	104	8.01	1202

▼ Cast iron motor-1500 r/min (4 pole) IE5

Model	Power	Rated Current (A)			Speed	Efficiency (%)			Power Factor			Locked Rotor Torque	Locked Rotor Current	Maximum Torque	Weight	Noise		Moment of Inertia	Torque
	kW	I _N 380V	I _N 400V	I _N 415V	r/min	50%	75%	100%	50%	75%	100%	Rated Torque	Rated Current	Rated Torque	kg	L _{PA} dB(A)	L _{WA} dB(A)	kg·m ²	N·m
WE5-80M1-4	0.55	1.30	1.24	1.19	1425	83.5	86.7	86.7	0.55	0.67	0.74	2.3	10	2.3	21	48	56	0.0074	3.69
WE5-80M2-4	0.75	1.75	1.66	1.60	1425	84.8	88.2	88.2	0.55	0.67	0.74	2.3	8.0	2.3	23	48	56	0.013	5.03
WE5-90S-4	1.1	2.49	2.37	2.28	1430	86.1	89.5	89.5	0.56	0.69	0.75	2.3	8.5	2.3	26	51	59	0.016	7.35
WE5-90L-4	1.5	3.23	3.07	2.96	1430	87.4	90.4	90.4	0.60	0.72	0.78	2.3	8.5	2.3	34	51	59	0.033	10.1
WE5-100L1-4	2.2	4.63	4.40	4.24	1435	88.5	91.4	91.4	0.62	0.73	0.79	2.3	9.0	2.3	42	56	64	0.041	14.5
WE5-100L2-4	3	6.19	5.88	5.66	1440	89.1	92.1	92.1	0.63	0.74	0.80	2.3	9.0	2.3	53	56	64	0.062	20.2
WE5-112M-4	4	8.19	7.78	7.50	1450	89.9	92.8	92.8	0.67	0.75	0.80	2.3	9.0	2.3	57	57	65	0.12	26.3
WE5-132S-4	5.5	11.2	10.6	10.2	1460	90.7	93.4	93.4	0.67	0.77	0.80	2.0	9.5	2.3	87	63	71	0.18	36.0
WE5-132M-4	7.5	15.0	14.2	13.7	1460	91.6	94.0	94.0	0.69	0.79	0.81	2.0	9.5	2.3	105	63	71	0.38	49.6
WE5-160M-4	11	21.3	20.2	19.5	1470	92.4	94.6	94.6	0.71	0.81	0.83	2.0	9.5	2.3	170	65	73	0.44	71.5
WE5-160L-4	15	28.5	27.1	26.1	1470	92.9	95.1	95.1	0.73	0.81	0.84	2.0	9.5	2.3	200	65	73	0.71	97.4
WE5-180M-4	18.5	34.7	33.0	31.8	1475	92.8	95.3	95.3	0.75	0.82	0.85	2.0	9.5	2.3	210	68	76	0.76	120
WE5-180L-4	22	41.2	39.1	37.7	1475	93.2	95.5	95.5	0.75	0.82	0.85	2.0	9.5	2.3	235	68	76	0.85	142
WE5-200L-4	30	55.9	53.1	51.2	1475	94.1	95.9	95.9	0.76	0.82	0.85	2.0	9.0	2.3	300	68	76	1.27	194
WE5-225S-4	37	68.8	65.4	63.0	1480	94.3	96.1	96.1	0.77	0.82	0.85	2.0	9.0	2.3	400	70	78	1.94	239
WE5-225M-4	45	83.5	79.4	76.5	1480	94.7	96.3	96.3	0.76	0.83	0.85	2.0	9.0	2.3	440	70	78	2.44	290
WE5-250M-4	55	101	95.7	92.2	1480	95.0	96.5	96.5	0.78	0.84	0.86	2.0	9.0	2.3	550	67	79	3.00	355
WE5-280S-4	75	135	129	124	1485	95.1	96.7	96.7	0.78	0.85	0.87	2.0	8.5	2.3	700	68	80	3.51	484
WE5-280M-4	90	160	152	147	1485	95.6	96.9	96.9	0.79	0.86	0.88	2.0	8.5	2.3	800	68	80	4.91	579
WE5-315S-4	110	194	184	177	1490	95.8	97.0	97.0	0.79	0.86	0.89	2.0	8.5	2.2	1200	75	88	5.21	707
WE5-315M-4	132	232	220	213	1490	96.1	97.1	97.1	0.80	0.87	0.89	2.0	8.5	2.2	1300	75	88	5.48	849
WE5-315L1-4	160	278	264	254	1490	96.2	97.2	97.2	0.85	0.87	0.90	2.0	8.5	2.2	1320	75	88	5.70	1029
WE5-315L2-4	185	321	305	294	1490	96.3	97.4	97.4	0.85	0.87	0.90	2.0	8.5	2.2	1360	75	88	5.90	1190
WE5-315L3-4	200	347	329	317	1490	96.3	97.4	97.4	0.86	0.88	0.90	2.0	8.5	2.2	1600	75	88	6.77	1286
WE5-355M1-4	220	381	362	349	1495	96.3	97.4	97.4	0.85	0.87	0.90	2.0	8.5	2.2	2100	82	95	7.58	1405
WE5-355M2-4	250	433	412	397	1495	96.4	97.4	97.4	0.86	0.88	0.90	2.0	8.5	2.2	2100	82	95	7.83	1597
WE5-355L1-4	280	485	461	444	1495	96.4	97.4	97.4	0.86	0.88	0.90	2.0	8.5	2.2	2220	82	95	8.06	1789
WE5-355L2-4	315	546	519	500	1495	96.5	97.4	97.4	0.86	0.88	0.90	2.0	8.5	2.2	2400	82	95	8.19	2012
WE5-3551-4	355	615	585	563	1495	96.5	97.4	97.4	0.86	0.88	0.90	1.7	8.5	2.2	2420	87	102	8.53	2275
WE5-3552-4	375	650	617	595	1495	96.5	97.4	97.4	0.88	0.88	0.90	1.7	8.5	2.2	2620	87	102	8.96	2395

Cast iron motor-1000 r/min (6 pole) IE5

Model	Power	Rated Current (A)			Speed	Efficiency (%)			Power Factor			Locked Rotor Torque Rated Torque	Locked Rotor Current Rated Current	Maximum Torque Rated Torque	Weight	Noise		Moment of Inertia	Torque
	kW	I _N 380V	I _N 400V	I _N 415V	r/min	50%	75%	100%	50%	75%	100%				kg	L _{PA} dB(A)	L _{WA} dB(A)		
WE5-80M1-6	0.37	1.01	0.96	0.93	930	76.9	81.6	81.6	0.49	0.61	0.68	1.9	10	2.0	18	46	54	0.0074	3.82
WE5-80M2-6	0.55	1.42	1.35	1.30	930	82.5	84.2	84.2	0.51	0.63	0.70	1.9	9.0	2.1	22	46	54	0.013	5.68
WE5-90S-6	0.75	1.90	1.80	1.74	940	83.2	85.7	85.7	0.51	0.63	0.70	2.1	8.5	2.1	33	49	57	0.016	7.62
WE5-90L-6	1.1	2.74	2.60	2.51	945	84.7	87.2	87.2	0.52	0.64	0.70	2.1	7.8	2.1	42	49	57	0.033	11.1
WE5-100L-6	1.5	3.63	3.45	3.32	950	85.4	88.4	88.4	0.56	0.66	0.71	2.1	8.0	2.1	48	53	61	0.045	14.9
WE5-112M-6	2.2	5.25	4.99	4.81	950	86.3	89.7	89.7	0.56	0.66	0.71	2.1	8.0	2.1	65	57	65	0.441	22.1
WE5-132S-6	3	7.09	6.73	6.49	960	87.6	90.6	90.6	0.57	0.66	0.71	2.0	7.5	2.1	76	61	69	0.71	29.8
WE5-132M1-6	4	9.24	8.77	8.46	960	88.4	91.4	91.4	0.59	0.67	0.72	2.0	8.0	2.1	85	61	69	0.80	39.8
WE5-132M2-6	5.5	12.6	12.0	11.5	965	89.1	92.2	92.2	0.59	0.67	0.72	2.0	8.0	2.1	95	61	69	0.85	54.4
WE5-160M-6	7.5	16.1	15.3	14.8	970	89.8	92.9	92.9	0.61	0.72	0.76	2.1	8.0	2.1	150	65	73	1.27	73.8
WE5-160L-6	11	23.2	22.0	21.2	970	90.8	93.7	93.7	0.62	0.73	0.77	2.1	8.5	2.1	185	65	73	1.39	108
WE5-180L-6	15	30.2	28.7	27.7	975	92.0	94.3	94.3	0.68	0.76	0.80	2.0	8.5	2.1	235	65	73	1.70	147
WE5-200L1-6	18.5	37.1	35.3	34.0	980	92.4	94.6	94.6	0.68	0.76	0.80	2.1	8.5	2.1	210	65	73	1.93	180
WE5-200L2-6	22	43.5	41.3	39.8	980	92.6	94.9	94.9	0.70	0.77	0.81	2.1	8.5	2.1	240	65	73	2.55	214
WE5-225M-6	30	58.3	55.4	53.4	980	92.9	95.3	95.3	0.71	0.81	0.82	2.0	8.3	2.1	375	66	74	2.81	292
WE5-250M-6	37	70.8	67.3	64.9	985	93.7	95.6	95.6	0.71	0.81	0.83	2.1	8.3	2.1	460	64	76	3.63	361
WE5-280S-6	45	86.0	81.7	78.7	985	93.7	95.8	95.8	0.72	0.81	0.83	2.1	8.5	2.0	605	66	78	4.17	439
WE5-280M-6	55	104	98.4	94.9	985	93.8	96.0	96.0	0.73	0.81	0.84	2.0	8.5	2.0	660	66	78	4.80	536
WE5-315S-6	75	141	134	129	990	95.2	96.3	96.3	0.74	0.81	0.84	2.0	8.0	2.0	1320	70	83	5.07	727
WE5-315M-6	90	167	158	153	990	95.4	96.5	96.5	0.74	0.81	0.85	2.0	8.0	2.0	1450	70	83	5.59	873
WE5-315L1-6	110	204	193	186	990	95.6	96.6	96.6	0.74	0.81	0.85	2.0	8.0	2.0	1480	70	83	6.25	1066
WE5-315L2-6	132	241	229	221	990	95.7	96.8	96.8	0.74	0.83	0.86	2.0	8.0	2.0	1580	70	83	7.69	1280
WE5-355M1-6	160	292	277	267	995	96.2	96.9	96.9	0.76	0.84	0.86	1.9	8.0	2.0	2100	72	85	8.28	1551
WE5-355M2-6	185	337	320	309	995	96.2	97.0	97.0	0.76	0.84	0.86	1.9	8.0	2.0	2150	72	85	8.58	1793
WE5-355M3-6	200	364	346	334	995	96.2	97.0	97.0	0.76	0.84	0.86	1.9	8.0	2.0	2150	72	85	8.66	1939
WE5-355L1-6	220	396	376	363	995	96.2	97.0	97.0	0.82	0.85	0.87	1.9	8.0	2.0	2200	72	85	8.78	2112
WE5-355L2-6	250	455	433	417	995	96.2	97.0	97.0	0.82	0.85	0.86	1.9	8.0	2.0	2330	72	85	8.80	2424
WE5-3551-6	280	535	508	490	995	96.2	97.0	97.0	0.70	0.77	0.82	1.6	8.0	2.0	2280	76	91	8.94	2687
WE5-3552-6	315	602	572	551	995	96.2	97.0	97.0	0.72	0.78	0.82	1.6	8.0	2.0	2480	76	91	9.08	3054

Cast iron motor-750 r/min (8 pole) IE5

Model	Power	Rated Current (A)			Speed	Efficiency (%)			Power Factor			Locked Rotor Torque Rated Torque	Locked Rotor Current Rated Current	Maximum Torque Rated Torque	Weight	Noise		Moment of Inertia	Torque
	kW	I _N 380V	I _N 400V	I _N 415V	r/min	50%	75%	100%	50%	75%	100%				kg	L _{PA} dB(A)	L _{WA} dB(A)		
WE5-80M1-8	0.18	0.62	0.59	0.57	695	66.5	71.9	71.9	0.43	0.54	0.61	1.8	7.5	1.9	16	44	52	0.0074	2.47
WE5-80M2-8	0.25	0.83	0.79	0.76	695	69.4	75.2	75.2	0.43	0.54	0.61	1.8	7.9	2.0	19	44	52	0.013	3.43
WE5-90S-8	0.37	1.18	1.12	1.08	700	72.5	78.4	78.4	0.44	0.55	0.61	1.8	8.3	2.0	30	48	56	0.016	5.05
WE5-90L-8	0.55	1.70	1.61	1.56	700	73.8	80.6	80.6	0.44	0.55	0.61	1.8	7.4	2.0	35	48	56	0.033	7.5
WE5-100L1-8	0.75	2.11	2.00	1.93	710	70.3	82.0	82.0	0.49	0.60	0.66	1.8	7.4	2.0	42	51	59	0.045	10.1
WE5-100L2-8	1.1	2.97	2.82	2.72	710	81.9	84.0	84.0	0.50	0.61	0.67	1.8	7.1	2.0	50	51	59	0.047	14.8
WE5-112M-8	1.5	3.86	3.67	3.54	710	83.4	85.5	85.5	0.52	0.63	0.69	1.8	7.2	2.0	50	53	61	0.29	20.2
WE5-132S-8	2.2	5.48	5.20	5.01	720	85.1	87.2	87.2	0.54	0.64	0.70	1.9	7.4	2.0	65	56	64	0.32	29.2
WE5-132M-8	3	7.37	7.00	6.74	720	86.3	88.4	88.4	0.54	0.64	0.70	1.9	7.8	2.0	80	56	64	0.34	39.8
WE5-160M1-8	4	9.57	9.10	8.77	730	88.1	89.4	89.4	0.56	0.65	0.71	1.9	7.9	2.0	125	60	68	0.48	52.3
WE5-160M2-8	5.5	12.8	12.2	11.8	730	89.1	90.4	90.4	0.57	0.66	0.72	2.0	8.1	2.0	135	60	68	0.64	71.9
WE5-160L-8	7.5	16.9	16.0	15.4	730	90.0	91.3	91.3	0.59	0.67	0.74	2.0	7.8	2.0	160	60	68	1.11	98.1
WE5-180L-8	11	24.5	23.3	22.4	735	91.3	92.2	92.2	0.59	0.67	0.74	1.9	7.9	2.0	190	62	70	1.68	143
WE5-200L-8	15	32.7	31.1	30.0	735	91.8	92.9	92.9	0.61	0.70	0.75	1.9	8.0	2.0	220	65	73	2.39	195
WE5-225S-8	18.5	40.2	38.2	36.8	740	92.2	93.3	93.3	0.61	0.70	0.75	1.9	8.0	2.0	310	65	73	2.88	238
WE5-225M-8	22	47.0	44.6	43.0	740	92.6	93.6	93.6	0.62	0.71	0.76	1.9	8.3	2.0	360	65	73	3.85	284
WE5-250M-8	30	62.9	59.8	57.6	740	93.0	94.1	94.1	0.64	0.72	0.77	1.9	7.8	2.0	400	63	75	5.42	387
WE5-280S-8	37	76.3	72.5	69.9	740	93.4	94.4	94.4	0.64	0.73	0.78	1.8	7.9	2.0	550	64	76	6.11	477
WE5-280M-8	45	92.6	87.9	84.8	740	93.6	94.7	94.7	0.65	0.73	0.78	1.8	7.9	2.0	600	64	76	7.08	580
WE5-315S-8	55	110	105	101	745	94.0	94.9	94.9	0.69	0.75	0.80	1.8	8.1	2.0	1140	69	82	7.72	705
WE5-315M-8	75	149	142	137	745	94.4	95.3	95.3	0.69	0.75	0.80	1.8	7.6	2.0	1180	69	82	9.23	961
WE5-315L1-8	90	177	168	162	745	94.4	95.5	95.5	0.71	0.77	0.81	1.8	7.7	2.0	1350	69	82	9.64	1154
WE5-315L2-8	110	216	205	197	745	94.6	95.7	95.7	0.71	0.77	0.81	1.8	7.7	2.0	1480	69	82	10.7	1410
WE5-355M1-8	132	258	245	236	745	94.8	95.9	95.9	0.72	0.78	0.81	1.8	7.8	2.0	1900	75	90	11.8	1692
WE5-355M2-8	160	308	293	282	745	95.1	96.1	96.1	0.74	0.80	0.82	1.8	7.8	2.0	2050	75	90	13.1	2051
WE5-355L-8	200	385	366	352	745	95.2	96.3	96.3	0.74	0.80	0.82	1.8	7.8	2.0	2200	75	90	14.4	2563

IE4 Performance data

Cast iron motor-3000 r/min (2 pole) IE4

Model	Power	Rated Current (A)			Speed	Efficiency (%)			Power Factor			Locked Rotor Torque Rated Torque	Locked Rotor Current Rated Current	Maximum Torque Rated Torque	Weight	Noise		Moment of Inertia	Torque
	kW	I _N 380V	I _N 400V	I _N 415V	r/min	50%	75%	100%	50%	75%	100%				kg	L _{PA} dB(A)	L _{WA} dB(A)		
WE4-80M1-2	0.75	1.64	1.56	1.51	2875	83.2	83.3	83.5	0.74	0.80	0.83	2.2	8.5	2.3	18	50	62	0.001	2.49
WE4-80M2-2	1.1	2.36	2.25	2.16	2885	84.9	85.5	85.2	0.74	0.80	0.83	2.2	8.5	2.3	19	50	62	0.0014	3.64
WE4-90S-2	1.5	3.1	2.94	2.84	2890	86.2	87.1	86.5	0.75	0.82	0.85	2.2	9.0	2.3	26	55	67	0.0015	4.96
WE4-90L-2	2.2	4.42	4.2	4.04	2895	87.7	88.4	88.0	0.76	0.83	0.86	2.2	9.0	2.3	30	55	67	0.0017	7.3
WE4-100L-2	3	5.9	5.6	5.4	2900	88.8	89.7	89.1	0.79	0.84	0.87	2.2	9.5	2.3	38	62	74	0.0055	9.9
WE4-112M-2	4	7.7	7.3	7	2915	89.7	90.6	90.0	0.79	0.86	0.88	2.2	9.5	2.3	51	65	77	0.0075	13.1
WE4-132S1-2	5.5	10.4	9.9	9.6	2925	90.6	91.2	90.9	0.79	0.86	0.88	2.0	9.5	2.3	73	67	79	0.015	18
WE4-132S2-2	7.5	14	13.3	12.8	2925	91.4	92.3	91.7	0.80	0.86	0.89	2.0	9.5	2.3	80	67	79	0.019	24.5
WE4-160M1-2	11	20.3	19.3	18.6	2940	92.3	92.9	92.6	0.79	0.86	0.89	2.0	9.5	2.3	132	68	81	0.05	35.7
WE4-160M2-2	15	27.4	26.1	25.1	2940	92.9	93.5	93.3	0.79	0.86	0.89	2.0	9.5	2.3	140	68	81	0.059	48.7
WE4-160L-2	18.5	33.7	32	30.9	2940	93.4	94.1	93.7	0.81	0.87	0.89	2.0	9.5	2.3	155	68	81	0.069	60
WE4-180M-2	22	40	38	36.6	2945	93.7	94.3	94.0	0.81	0.87	0.89	2.0	9.5	2.3	195	70	83	0.1	71
WE4-200L1-2	30	54	51	49.6	2970	94.1	94.3	94.5	0.82	0.87	0.89	2.0	9.0	2.3	256	71	84	0.2	96
WE4-200L2-2	37	67	63	61	2970	94.2	94.7	94.8	0.82	0.86	0.89	2.0	9.0	2.3	285	71	84	0.24	119
WE4-225M-2	45	81	77	74	2970	94.6	94.9	95.0	0.83	0.87	0.89	2.0	9.0	2.3	345	73	86	0.39	145
WE4-250M-2	55	99	94	90	2970	94.9	95.3	95.3	0.83	0.87	0.89	2.0	9.0	2.3	450	75	89	0.49	177
WE4-280S-2	75	134	127	123	2980	95.3	95.6	95.6	0.83	0.88	0.89	1.8	8.5	2.3	588	77	91	0.86	240
WE4-280M-2	90	160	152	147	2980	95.5	95.8	95.8	0.84	0.88	0.89	1.8	8.5	2.3	660	77	91	1.1	288
WE4-315S-2	110	196	186	179	2985	95.7	96.0	96.0	0.84	0.88	0.89	1.8	8.5	2.3	960	78	92	1.5	352
WE4-315M-2	132	234	223	214	2985	95.9	96.2	96.2	0.84	0.88	0.89	1.8	8.5	2.3	1060	78	92	1.6	422
WE4-315L1-2	160	284	269	260	2985	96.0	96.3	96.3	0.85	0.88	0.89	1.8	8.5	2.2	1185	78	92	2.1	512
WE4-315L2-2	185	328	311	300	2985	96.1	96.4	96.4	0.85	0.88	0.89	1.8	8.5	2.2	1320	78	92	2.3	592
WE4-315L3-2	200	354	336	324	2985	96.2	96.5	96.5	0.85	0.88	0.89	1.8	8.5	2.2	1320	78	92	2.5	640
WE4-355M1-2	220	381	362	349	2990	96.2	96.5	96.5	0.87	0.89	0.91	1.6	8.5	2.2	1870	85	100	4.2	703
WE4-355M2-2	250	433	411	396	2990	96.2	96.5	96.5	0.88	0.89	0.91	1.6	8.5	2.2	1950	85	100	4.9	798
WE4-355L1-2	280	484	460	444	2990	96.2	96.5	96.5	0.88	0.89	0.91	1.6	8.5	2.2	2080	85	100	4.7	894
WE4-355L2-2	315	545	518	499	2990	96.2	96.5	96.5	0.88	0.89	0.91	1.6	8.5	2.2	2100	85	100	6	1006
WE4-3551-2	355	614	583	562	2990	96.2	96.5	96.5	0.88	0.89	0.91	0.9	8.6	1.8	2220	89	104	6.8	1134

▼ Cast iron motor-1500 r/min (4 pole) IE4

Model	Power	Rated Current (A)			Speed	Efficiency (%)			Power Factor			Locked Rotor Torque Rated Torque	Locked Rotor Current Rated Current	Maximum Torque Rated Torque	Weight	Noise		Moment of Inertia kg·m ²	Torque N·m
	kW	I _N 380V	I _N 400V	I _N 415V	r/min	50%	75%	100%	50%	75%	100%				kg	L _{PA} dB(A)	L _{WA} dB(A)		
WE4-80M1-4	0.55	1.35	1.28	1.23	1425	82.8	84.2	83.9	0.55	0.67	0.74	2.4	9.8	2.2	18	44	56	0.002	3.69
WE4-80M2-4	0.75	1.8	1.71	1.65	1425	84.5	86.1	85.7	0.55	0.67	0.74	2.3	8.5	2.3	20	44	56	0.0026	5
WE4-90S-4	1.1	2.56	2.43	2.34	1430	86.5	87.6	87.2	0.56	0.69	0.75	2.3	8.5	2.3	25	47	59	0.0037	7.3
WE4-90L-4	1.5	3.31	3.15	3.03	1430	87.5	88.5	88.2	0.60	0.72	0.78	2.3	9.0	2.3	30	47	59	0.0047	10
WE4-100L1-4	2.2	4.73	4.49	4.33	1435	89.2	89.7	89.5	0.62	0.73	0.79	2.3	9.0	2.3	38	52	64	0.011	14.6
WE4-100L2-4	3	6.3	6	5.8	1440	90.1	90.7	90.4	0.63	0.74	0.80	2.3	9.5	2.3	42	52	64	0.015	19.9
WE4-112M-4	4	8.3	7.9	7.6	1450	90.8	91.4	91.1	0.67	0.75	0.80	2.2	9.5	2.3	55	53	65	0.022	26.3
WE4-132S-4	5.5	11.4	10.8	10.4	1460	91.6	92.1	91.9	0.67	0.77	0.80	2.0	9.5	2.3	77	59	71	0.035	36
WE4-132M-4	7.5	15.2	14.4	13.9	1460	92.3	92.9	92.6	0.69	0.79	0.81	2.0	9.5	2.3	82	59	71	0.04	49.1
WE4-160M-4	11	21.6	20.5	19.8	1470	93.0	93.5	93.3	0.71	0.81	0.83	2.2	9.5	2.3	136	60	73	0.098	71
WE4-160L-4	15	28.9	27.4	26.5	1470	93.6	94.2	93.9	0.73	0.81	0.84	2.2	9.5	2.3	155	60	73	0.12	97
WE4-180M-4	18.5	35.1	33.3	32.1	1475	93.9	94.5	94.2	0.75	0.82	0.85	2.0	9.5	2.3	190	63	76	0.19	120
WE4-180L-4	22	41.6	39.5	38.1	1475	94.2	94.5	94.5	0.75	0.82	0.85	2.0	9.5	2.3	210	63	76	0.22	142
WE4-200L-4	30	57	54	52	1475	94.5	94.9	94.9	0.76	0.82	0.85	2.0	9.0	2.3	285	63	76	0.46	194
WE4-225S-4	37	69	66	64	1480	94.7	95.2	95.2	0.77	0.82	0.85	2.0	9.0	2.3	350	65	78	0.5	239
WE4-225M-4	45	84	80	77	1480	94.9	95.4	95.4	0.76	0.83	0.85	2.0	9.0	2.3	385	65	78	0.58	290
WE4-250M-4	55	102	96	93	1480	95.2	95.7	95.7	0.78	0.84	0.86	2.0	9.0	2.3	510	65	79	0.92	355
WE4-280S-4	75	136	130	125	1485	95.7	96.0	96.0	0.78	0.85	0.87	2.0	8.5	2.3	631	66	80	1.5	482
WE4-280M-4	90	162	154	148	1485	95.8	96.1	96.1	0.79	0.86	0.88	2.0	8.5	2.3	716	66	80	1.8	579
WE4-315S-4	110	195	185	179	1490	96.0	96.3	96.3	0.79	0.86	0.89	2.0	8.5	2.2	1010	74	88	3.1	705
WE4-315M-4	132	234	222	214	1490	96.1	96.4	96.4	0.80	0.87	0.89	2.0	8.5	2.2	1080	74	88	3.4	846
WE4-315L1-4	160	280	266	256	1490	96.3	96.6	96.6	0.85	0.87	0.90	2.0	8.5	2.2	1160	74	88	4.1	1026
WE4-315L2-4	185	323	307	296	1490	96.4	96.7	96.7	0.85	0.87	0.90	2.0	8.5	2.2	1275	74	88	5.3	1186
WE4-315L3-4	200	349	332	320	1490	96.4	96.7	96.7	0.86	0.88	0.90	2.0	8.5	2.2	1275	74	88	5.4	1282
WE4-355M1-4	220	384	365	352	1495	96.4	96.7	96.7	0.85	0.87	0.90	2.0	8.5	2.2	1850	80	95	9.3	1405
WE4-355M2-4	250	436	415	400	1495	96.4	96.7	96.7	0.86	0.88	0.90	2.0	8.5	2.2	1850	80	95	9.5	1597
WE4-355L1-4	280	489	464	448	1495	96.5	96.7	96.7	0.86	0.88	0.90	2.0	8.5	2.2	2040	80	95	11	1789
WE4-355L2-4	315	550	522	504	1495	96.5	96.7	96.7	0.86	0.88	0.90	2.0	8.5	2.2	2040	80	95	11	2012
WE4-355L1-4	355	620	589	567	1495	96.5	96.7	96.7	0.86	0.88	0.90	1.7	8.5	2.2	2100	87	102	12	2268

▼

Cast iron motor-1000 r/min (6 pole) IE4

Model	Power	Rated Current (A)			Speed	Efficiency (%)			Power Factor			Locked Rotor Torque Rated Torque	Locked Rotor Current Rated Current	Maximum Torque Rated Torque	Weight	Noise		Moment of Inertia kg·m ²	Torque N.m
	kW	I _N 380V	I _N 400V	I _N 415V	r/min	50%	75%	100%	50%	75%	100%				kg	LPA dB(A)	LWA dB(A)		
WE4-80M1-6	0.37	1.06	1.01	0.97	930	77.1	78.8	78.0	0.49	0.61	0.68	2.0	9.7	2.1	17	42	54	0.0023	3.8
WE4-80M2-6	0.55	1.48	1.4	1.35	930	80.3	81.7	80.9	0.51	0.63	0.70	2.0	9.0	2.1	20	42	54	0.0036	5.6
WE4-90S-6	0.75	1.97	1.87	1.8	940	82.4	83.5	82.7	0.51	0.63	0.70	2.0	7.5	2.1	29	42	57	0.0061	7.6
WE4-90L-6	1.1	2.83	2.68	2.59	945	84.1	85.3	84.5	0.52	0.64	0.70	2.0	7.5	2.1	34	45	57	0.0079	11.1
WE4-100L-6	1.5	3.74	3.55	3.42	950	84.9	86.7	85.9	0.56	0.66	0.71	2.0	7.5	2.1	42	49	61	0.014	15.1
WE4-112M-6	2.2	5.4	5.1	4.93	950	86.7	88.2	87.4	0.56	0.66	0.71	2.0	7.5	2.1	51	53	65	0.023	22.1
WE4-132S-6	3	7.2	6.9	6.6	960	88.2	88.9	88.6	0.57	0.66	0.71	2.0	7.5	2.1	70	57	69	0.029	29.8
WE4-132M1-6	4	9.4	9	8.6	960	88.9	89.8	89.5	0.59	0.67	0.72	2.0	8.0	2.1	78	57	69	0.038	39.8
WE4-132M2-6	5.5	12.8	12.2	11.7	965	89.7	90.8	90.5	0.59	0.67	0.72	2.0	8.0	2.1	85	57	69	0.054	54
WE4-160M-6	7.5	16.4	15.6	15	970	90.8	91.6	91.3	0.61	0.72	0.76	2.0	8.0	2.1	136	60	73	0.13	74
WE4-160L-6	11	23.5	22.3	21.5	970	91.7	92.4	92.3	0.62	0.73	0.77	2.0	8.5	2.1	156	60	73	0.19	108
WE4-180L-6	15	30.7	29.1	28.1	975	92.3	92.9	92.9	0.68	0.76	0.80	2.0	8.5	2.1	210	60	73	0.3	147
WE4-200L1-6	18.5	37.6	35.7	34.4	980	92.9	93.4	93.4	0.68	0.76	0.80	2.0	8.5	2.1	230	60	73	0.4	180
WE4-200L2-6	22	44	41.8	40.3	980	93.2	93.7	93.7	0.70	0.77	0.81	2.0	8.5	2.1	260	60	73	0.52	214
WE4-225M-6	30	59	56	54	980	93.7	94.2	94.2	0.71	0.81	0.82	2.0	8.3	2.1	340	61	74	1.1	292
WE4-250M-6	37	72	68	66	985	93.9	94.5	94.5	0.71	0.81	0.83	2.0	8.3	2.1	445	62	76	1.4	359
WE4-280S-6	45	87	83	80	985	93.9	94.8	94.8	0.72	0.81	0.83	2.0	8.5	2.0	595	64	78	2.8	436
WE4-280M-6	55	105	99	96	985	94.2	95.1	95.1	0.73	0.81	0.84	2.0	8.5	2.0	645	64	78	3.5	533
WE4-315S-6	75	142	135	130	990	94.7	95.4	95.4	0.74	0.81	0.84	1.6	8.0	2.0	985	69	83	3.8	723
WE4-315M-6	90	168	160	154	990	94.9	95.6	95.6	0.74	0.81	0.85	1.6	8.0	2.0	1100	69	83	4.5	868
WE4-315L1-6	110	205	195	188	990	94.9	95.8	95.8	0.74	0.81	0.85	1.6	8.0	2.0	1180	69	83	5.5	1061
WE4-315L2-6	132	243	231	222	990	95.1	96.0	96.0	0.74	0.83	0.86	1.6	8.0	2.0	1310	69	83	6.5	1273
WE4-355M1-6	160	294	279	269	995	95.7	96.2	96.2	0.76	0.84	0.86	1.6	8.0	2.0	1840	70	85	10	1536
WE4-355M2-6	185	339	322	311	995	95.8	96.3	96.3	0.76	0.84	0.86	1.6	8.0	2.0	2030	70	85	13	1776
WE4-355M3-6	200	367	349	336	995	95.8	96.3	96.3	0.76	0.84	0.86	1.6	8.0	2.0	2030	70	85	13	1920
WE4-355L1-6	220	399	379	365	995	95.9	96.4	96.4	0.82	0.85	0.87	1.6	8.0	2.0	2240	76	85	14	2112
WE4-355L2-6	250	458	435	419	995	96.0	96.5	96.5	0.82	0.85	0.86	1.6	8.0	2.0	2240	76	85	15	2399
WE4-3551-6	280	538	511	492	995	96.0	96.5	96.5	0.70	0.77	0.82	1.6	8.0	2.0	2345	76	91	16	2687

▼ Cast iron motor-750 r/min (8 pole) IE4

Model	Power	Rated Current (A)			Speed	Efficiency (%)			Power Factor			Locked Rotor Torque Rated Torque	Locked Rotor Current Rated Current	Maximum Torque Rated Torque	Weight	Noise		Moment of Inertia kg·m ²	Torque N·m
	kW	I _N 380V	I _N 400V	I _N 415V	r/min	50%	75%	100%	50%	75%	100%				kg	LPA dB(A)	LWA dB(A)		
WE4-80M1-8	0.18	0.67	0.63	0.61	695	64.7	66.4	67.2	0.43	0.54	0.61	2.0	7.5	1.9	15	40	52	0.0021	2.47
WE4-80M2-8	0.25	0.88	0.84	0.81	695	68.3	70.0	70.8	0.43	0.54	0.61	2.0	7.9	1.9	17	40	52	0.0023	3.44
WE4-90S-8	0.37	1.24	1.18	1.14	700	71.8	73.4	74.3	0.44	0.55	0.61	2.0	8.3	1.9	27	44	56	0.0062	5
WE4-90L-8	0.55	1.78	1.69	1.63	700	74.5	76.1	77.0	0.44	0.55	0.61	2.0	7.4	2.0	30	44	56	0.0081	7.5
WE4-100L1-8	0.75	2.2	2.09	2.02	710	75.9	86.2	78.4	0.49	0.60	0.66	2.0	7.0	2.0	36	47	59	0.011	10.1
WE4-100L2-8	1.1	3.09	2.93	2.83	710	78.3	81.8	80.8	0.50	0.61	0.67	2.0	7.0	2.0	40	47	59	0.012	14.8
WE4-112M-8	1.5	4	3.8	3.66	710	81.4	83.5	82.6	0.52	0.63	0.69	2.0	7.0	2.0	47	49	61	0.022	20.2
WE4-132S-8	2.2	5.7	5.4	5.2	720	83.3	85.3	84.5	0.54	0.64	0.70	1.8	7.5	2.0	62	52	64	0.027	29.2
WE4-132M-8	3	7.6	7.2	6.9	720	84.7	86.7	85.9	0.54	0.64	0.70	1.8	7.8	2.0	73	52	64	0.03	39.8
WE4-160M1-8	4	9.8	9.3	9	730	86.0	87.5	87.1	0.56	0.65	0.71	1.8	7.9	2.0	115	55	68	0.12	52
WE4-160M2-8	5.5	13.1	12.5	12	730	87.4	88.7	88.3	0.57	0.66	0.72	1.8	8.1	2.0	126	55	68	0.13	72
WE4-160L-8	7.5	17.2	16.4	15.8	730	88.4	89.7	89.3	0.59	0.67	0.74	1.8	7.8	2.0	148	55	68	0.18	98
WE4-180L-8	11	25	23.7	22.9	735	89.5	90.4	90.4	0.59	0.67	0.74	1.8	7.9	2.0	195	57	70	0.28	143
WE4-200L-8	15	33.3	31.7	30.5	735	90.1	91.2	91.2	0.61	0.70	0.75	1.8	8.0	2.0	245	60	73	0.42	195
WE4-225S-8	18.5	40.9	38.8	37.4	740	90.6	91.7	91.7	0.61	0.70	0.75	1.8	8.1	2.0	285	60	73	0.55	239
WE4-225M-8	22	47.8	45.4	43.7	740	91.1	92.1	92.1	0.62	0.71	0.76	1.8	8.3	2.0	325	60	73	1	284
WE4-250M-8	30	64	61	58	740	91.6	92.7	92.7	0.64	0.72	0.77	1.8	7.9	2.0	420	61	75	1.4	387
WE4-280S-8	37	77	74	71	740	92.1	93.1	93.1	0.64	0.73	0.78	1.8	7.9	2.0	550	62	76	2.8	478
WE4-280M-8	45	94	89	86	740	92.3	93.4	93.4	0.65	0.73	0.78	1.8	7.9	2.0	605	62	76	3.5	581
WE4-315S-8	55	111	106	102	745	92.8	93.7	93.7	0.69	0.75	0.80	1.6	8.2	2.0	960	68	82	3.6	705
WE4-315M-8	75	151	144	138	745	93.3	94.2	94.2	0.69	0.75	0.80	1.6	7.6	2.0	1040	68	82	4.4	961
WE4-315L1-8	90	179	170	164	745	93.3	94.4	94.4	0.71	0.77	0.81	1.6	7.7	2.0	1160	68	82	5.4	1154
WE4-315L2-8	110	218	207	200	745	93.6	94.7	94.7	0.71	0.77	0.81	1.6	7.7	2.0	1280	68	82	6	1410
WE4-355M1-8	132	261	248	239	745	93.8	94.9	94.9	0.72	0.78	0.81	1.6	7.7	2.0	1820	75	90	10	1692
WE4-355M2-8	160	312	296	285	745	94.1	95.1	95.1	0.74	0.80	0.82	1.6	7.7	2.0	1960	75	90	13	2051
WE4-355L-8	200	388	369	356	745	94.3	95.4	95.4	0.74	0.80	0.82	1.6	7.8	2.0	2105	75	90	13	2564

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Aluminium motor-3000/1500/1000 r/min (2/4/6 pole) IE4

Model	Power	Rated Current (A)			Speed	Efficiency (%)			Power Factor			Locked Rotor Torque Rated Torque	Locked Rotor Current Rated Current	Maximum Torque Rated Torque	Weight	Noise		Moment of Inertia	Torque
	kW	I _n 380V	I _n 400V	I _n 415V	r/min	50%	75%	100%	50%	75%	100%				kg	L _{PA} dB(A)	L _{WA} dB(A)		
WE4-63M1-2	0.18	0.50	0.48	0.46	2770	70.5	71.2	70.8	0.62	0.72	0.77	2.2	7.1	2.3	5.5	49	61	0.00067	0.62
WE4-63M2-2	0.25	0.66	0.62	0.60	2775	74.0	74.6	74.3	0.63	0.74	0.78	2.2	7.1	2.3	6.5	49	61	0.00082	0.86
WE4-71M1-2	0.37	0.90	0.85	0.82	2830	77.9	78.5	78.1	0.66	0.77	0.80	2.2	7.1	2.3	8.5	52	64	0.00049	1.25
WE4-71M2-2	0.55	1.27	1.20	1.16	2835	81.3	81.8	81.5	0.67	0.78	0.81	2.2	7.1	2.3	9.5	52	64	0.00063	1.85
WE4-80M1-2	0.75	1.64	1.56	1.51	2875	83.2	83.3	83.5	0.74	0.80	0.83	2.2	8.5	2.3	13	50	62	0.001	2.49
WE4-80M2-2	1.1	2.36	2.25	2.16	2885	84.9	85.5	85.2	0.74	0.80	0.83	2.2	8.5	2.3	15	50	62	0.0014	3.64
WE4-90S-2	1.5	3.10	2.94	2.84	2890	86.2	87.1	86.5	0.75	0.82	0.85	2.2	9.0	2.3	19	55	67	0.0015	4.96
WE4-90L-2	2.2	4.42	4.20	4.04	2895	87.7	88.4	88.0	0.76	0.83	0.86	2.2	9.0	2.3	22	55	67	0.0017	7.3
WE4-100L-2	3	5.9	5.6	5.4	2900	88.8	89.7	89.1	0.79	0.84	0.87	2.2	9.5	2.3	30	62	74	0.0055	9.9
WE4-112M-2	4	7.7	7.3	7.0	2915	89.7	90.6	90.0	0.79	0.86	0.88	2.2	9.5	2.3	43	65	77	0.0075	13.1
WE4-132S1-2	5.5	10.4	9.9	9.6	2925	90.6	91.2	90.9	0.79	0.86	0.88	2.0	9.5	2.3	62	67	79	0.015	18
WE4-132S2-2	7.5	14.0	13.3	12.8	2925	91.4	92.3	91.7	0.80	0.86	0.89	2.0	9.5	2.3	67	67	79	0.019	24.5
WE4-160M1-2	11	20.3	19.3	18.6	2940	92.3	92.9	92.6	0.79	0.86	0.89	2.0	9.5	2.3	104	68	81	0.05	35.7
WE4-160M2-2	15	27.4	26.1	25.1	2940	92.9	93.5	93.3	0.79	0.86	0.89	2.0	9.5	2.3	114	68	81	0.059	48.7
WE4-160L-2	18.5	33.7	32.0	30.9	2940	93.4	94.1	93.7	0.81	0.87	0.89	2.0	9.5	2.3	131	68	81	0.069	60

WE4-63M1-4	0.12	0.37	0.35	0.34	1360	69.1	71.2	69.8	0.50	0.63	0.70	2.1	7.5	2.3	6.5	40	52	0.00054	0.84
WE4-63M2-4	0.18	0.52	0.50	0.48	1360	74.1	75.0	74.7	0.50	0.63	0.70	2.1	7.5	2.3	7.5	40	52	0.00068	1.26
WE4-71M1-4	0.25	0.68	0.64	0.62	1400	76.4	78.1	77.9	0.53	0.65	0.72	2.1	7.5	2.3	9.5	43	55	0.0012	1.71
WE4-71M2-4	0.37	0.96	0.91	0.88	1400	80.0	81.4	81.1	0.53	0.65	0.72	2.1	7.5	2.3	11	43	55	0.0015	2.52
WE4-80M1-4	0.55	1.35	1.28	1.23	1425	82.8	84.2	83.9	0.55	0.67	0.74	2.4	9.8	2.2	15	44	56	0.002	3.69
WE4-80M2-4	0.75	1.80	1.71	1.65	1425	84.5	86.1	85.7	0.55	0.67	0.74	2.3	8.5	2.3	18	44	56	0.0026	5.0
WE4-90S-4	1.1	2.56	2.43	2.34	1430	86.5	87.6	87.2	0.56	0.69	0.75	2.3	8.5	2.3	20	47	59	0.0037	7.3
WE4-90L-4	1.5	3.31	3.15	3.03	1430	87.5	88.5	88.2	0.60	0.72	0.78	2.3	9.0	2.3	25	47	59	0.0047	10.0
WE4-100L1-4	2.2	4.73	4.49	4.33	1435	89.2	89.7	89.5	0.62	0.73	0.79	2.3	9.0	2.3	29	52	64	0.011	14.6
WE4-100L2-4	3	6.3	6	5.8	1440	90.1	90.7	90.4	0.63	0.74	0.80	2.3	9.5	2.3	33	52	64	0.015	19.9
WE4-112M-4	4	8.3	7.9	7.6	1450	90.8	91.4	91.1	0.67	0.75	0.80	2.3	9.5	2.3	47	53	65	0.022	26.3
WE4-132S-4	5.5	11.4	10.8	10.4	1460	91.6	92.1	91.9	0.67	0.77	0.80	2.0	9.5	2.3	61	59	71	0.035	36.0
WE4-132M-4	7.5	15.2	14.4	13.9	1460	92.3	92.9	92.6	0.69	0.79	0.81	2.0	9.5	2.3	71	59	71	0.04	49.1
WE4-160M-4	11	21.6	20.5	19.8	1470	93.0	93.5	93.3	0.71	0.81	0.83	2.0	9.5	2.3	117	60	73	0.098	71
WE4-160L-4	15	28.9	27.4	26.5	1470	93.6	94.2	93.9	0.73	0.81	0.84	2.0	9.5	2.3	133	60	73	0.12	97

WE4-71M1-6	0.18	0.63	0.60	0.58	900	68.5	70.5	70.1	0.42	0.52	0.62	1.9	7.5	2.0	8.5	40	52	0.0011	1.91
WE4-71M2-6	0.25	0.80	0.76	0.73	900	72.9	74.6	74.1	0.44	0.55	0.64	1.9	7.5	2.0	10	40	52	0.0015	2.65
WE4-80M1-6	0.37	1.06	1.01	0.97	930	77.1	78.8	78.0	0.49	0.61	0.68	2.0	9.7	2.1	15	42	54	0.0023	3.8
WE4-80M2-6	0.55	1.48	1.40	1.35	930	80.3	81.7	80.9	0.51	0.63	0.70	2.0	9.0	2.1	18	42	54	0.0036	5.6
WE4-90S-6	0.75	1.97	1.87	1.80	940	82.4	83.5	82.7	0.51	0.63	0.70	2.1	7.5	2.1	19	45	57	0.0061	7.6
WE4-90L-6	1.1	2.83	2.68	2.59	945	84.1	85.3	84.5	0.52	0.64	0.70	2.1	7.5	2.1	25	45	57	0.0079	11.1
WE4-100L-6	1.5	3.74	3.55	3.42	950	84.9	86.7	85.9	0.56	0.66	0.71	2.1	7.5	2.1	31	49	61	0.014	15.1
WE4-112M-6	2.2	5.4	5.1	4.93	950	86.7	88.2	87.4	0.56	0.66	0.71	2.1	7.5	2.1	44	53	65	0.023	22.1
WE4-132S-6	3	7.2	6.9	6.6	960	88.2	88.9	88.6	0.57	0.66	0.71	2.0	7.5	2.1	61	57	69	0.029	29.8
WE4-132M1-6	4	9.4	9.0	8.6	960	88.9	89.8	89.5	0.59	0.67	0.72	2.0	8.0	2.1	67	57	69	0.038	39.8
WE4-132M2-6	5.5	12.8	12.2	11.7	965	89.7	90.8	90.5	0.59	0.67	0.72	2.0	8.0	2.1	71	57	69	0.054	54
WE4-160M-6	7.5	16.4	15.6	15.0	970	90.8	91.6	91.3	0.61	0.72	0.76	2.0	8.0	2.1	115	60	73	0.13	74
WE4-160L-6	11	23.5	22.3	21.5	970	91.7	92.4	92.3	0.62	0.73	0.77	2.0	8.5	2.1	132	60	73	0.19	108

IE3 Performance data

Cast iron motor-3000 r/min (2 pole) IE3

Model	Power	Rated Current (A)			Speed	Efficiency (%)			Power Factor			Locked Rotor Torque Rated Torque	Locked Rotor Current Rated Current	Maximum Torque Rated Torque	Weight	Noise		Moment of Inertia kg·m ²	Torque N.m
	kW	I _N 380V	I _N 400V	I _N 415V	r/min	50%	75%	100%	50%	75%	100%				kg	L _{PA} dB(A)	L _{WA} dB(A)		
WE3-80M1-2	0.75	1.72	1.64	1.58	2860	79.3	81.1	80.7	0.73	0.79	0.82	2.3	7.0	2.3	14	50	62	0.00099	2.5
WE3-80M2-2	1.1	2.43	2.31	2.23	2880	79.6	82.5	82.7	0.73	0.76	0.83	2.2	7.3	2.3	15	50	62	0.0013	3.65
WE3-90S-2	1.5	3.22	3.06	2.95	2885	84.1	84.9	84.2	0.74	0.81	0.84	2.2	7.6	2.3	23	55	67	0.0014	4.97
WE3-90L-2	2.2	4.58	4.35	4.19	2870	85.8	86.5	85.9	0.74	0.82	0.85	2.2	7.6	2.3	26	55	67	0.0016	7.3
WE3-100L-2	3	6	5.7	5.5	2900	86.2	87.4	87.1	0.79	0.84	0.87	2.2	7.8	2.3	37	62	74	0.0053	9.9
WE3-112M-2	4	7.8	7.4	7.2	2900	88.7	89.2	88.1	0.78	0.85	0.88	2.2	8.3	2.3	41	65	77	0.0069	13.2
WE3-132S1-2	5.5	10.6	10.1	9.7	2920	88.9	89.6	89.2	0.78	0.85	0.88	2.0	8.3	2.3	59	67	79	0.014	18
WE3-132S2-2	7.5	14.4	13.7	13.2	2905	89.9	90.6	90.1	0.79	0.85	0.88	2.0	7.9	2.3	67	67	79	0.018	24.7
WE3-160M1-2	11	20.6	19.6	18.9	2940	89.9	91.1	91.2	0.78	0.86	0.89	2.0	8.1	2.3	117	68	81	0.046	35.7
WE3-160M2-2	15	27.9	26.5	25.5	2930	91.3	92.1	91.9	0.79	0.86	0.89	2.0	8.1	2.3	122	68	81	0.053	48.9
WE3-160L-2	18.5	34.2	32.5	31.3	2930	92.2	92.7	92.4	0.81	0.87	0.89	2.0	8.2	2.3	134	68	81	0.063	60
WE3-180M-2	22	40.5	38.5	37.1	2945	92.1	92.9	92.7	0.81	0.87	0.89	2.0	8.2	2.3	168	70	83	0.092	71
WE3-200L1-2	30	55	52	50	2970	91.3	92.9	93.3	0.80	0.87	0.89	2.0	7.6	2.3	253	71	84	0.18	96
WE3-200L2-2	37	67	64	62	2970	91.8	93.3	93.7	0.78	0.86	0.89	2.0	7.6	2.3	271	71	84	0.22	119
WE3-225M-2	45	81	77	74	2970	92.4	94.0	94.0	0.83	0.88	0.90	2.0	7.7	2.3	323	73	86	0.36	145
WE3-250M-2	55	98	94	90	2970	93.0	94.3	94.3	0.78	0.86	0.90	2.0	7.7	2.3	417	75	89	0.45	177
WE3-280S-2	75	134	127	122	2980	93.5	94.7	94.7	0.83	0.87	0.90	1.8	7.1	2.3	530	77	91	0.82	240
WE3-280M-2	90	160	152	146	2980	93.3	95.0	95.0	0.80	0.87	0.90	1.8	7.1	2.3	665	77	91	1	288
WE3-315S-2	110	195	185	179	2985	93.8	95.2	95.2	0.86	0.89	0.90	1.8	7.1	2.3	944	78	92	1.4	352
WE3-315M-2	132	234	222	214	2985	94.0	95.4	95.4	0.84	0.87	0.90	1.8	7.1	2.3	1054	78	92	1.5	422
WE3-315L1-2	160	279	265	256	2985	94.7	95.6	95.6	0.85	0.88	0.91	1.8	7.2	2.3	1149	78	92	2	512
WE3-315L2-2	185	323	307	296	2985	94.6	95.7	95.7	0.86	0.88	0.91	1.8	7.2	2.2	1209	78	92	2.2	592
WE3-315L3-2	200	349	331	319	2985	95.2	95.8	95.8	0.87	0.89	0.91	1.8	7.2	2.2	1249	78	92	2.4	640
WE3-355M1-2	220	383	364	351	2990	95.5	95.8	95.8	0.87	0.89	0.91	1.6	7.2	2.2	1699	85	100	4	703
WE3-355M2-2	250	436	414	399	2990	95.4	95.8	95.8	0.88	0.89	0.91	1.6	7.2	2.2	1716	85	100	4.7	798
WE3-355L1-2	280	488	464	447	2990	94.8	95.8	95.8	0.88	0.89	0.91	1.6	7.2	2.2	2068	85	100	4.3	894
WE3-355L2-2	315	549	522	503	2990	95.3	95.8	95.8	0.88	0.89	0.91	1.6	7.2	2.2	2091	85	100	5.7	1006
WE3-3551-2	355	619	588	567	2990	95.3	95.8	95.8	0.88	0.89	0.91	1.6	7.2	2.2	2406	89	104	6.5	1134
WE3-3552-2	375	654	621	598	2990	95.3	95.8	95.8	0.88	0.89	0.91	1.6	7.2	2.2	2419	89	104	6.5	1198

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Cast iron motor-1500 r/min (4 pole) IE3

Model	Power	Rated Current (A)			Speed	Efficiency (%)			Power Factor			Locked Rotor Torque Rated Torque	Locked Rotor Current Rated Current	Maximum Torque Rated Torque	Weight	Noise		Moment of Inertia	Torque
	kW	I _N 380V	I _N 400V	I _N 415V	r/min	50%	75%	100%	50%	75%	100%				kg	L _{PA} dB(A)	L _{WA} dB(A)		
WE3-80M1-4	0.55	1.38	1.31	1.26	1425	77.9	80.8	80.8	0.57	0.68	0.75	2.3	6.6	2.3	18	44	56	0.0018	3.69
WE3-80M2-4	0.75	1.84	1.75	1.69	1425	79.6	82.4	82.5	0.57	0.69	0.75	2.3	6.6	2.3	19	44	56	0.0023	5
WE3-90S-4	1.1	2.61	2.48	2.39	1430	83.2	84.6	84.1	0.56	0.69	0.76	2.3	6.8	2.3	23	47	59	0.0034	7.3
WE3-90L-4	1.5	3.47	3.3	3.18	1425	84.7	85.8	85.3	0.58	0.70	0.77	2.3	7.0	2.3	26	47	59	0.0043	10.1
WE3-100L1-4	2.2	4.76	4.52	4.36	1445	84.8	86.8	86.7	0.64	0.75	0.81	2.3	7.6	2.3	38	52	64	0.01	14.5
WE3-100L2-4	3	6.3	6	5.8	1420	85.7	87.7	87.7	0.65	0.76	0.82	2.3	7.6	2.3	43	52	64	0.014	20.2
WE3-112M-4	4	8.4	7.9	7.7	1450	88.5	89.2	88.6	0.69	0.78	0.82	2.2	7.8	2.3	48	53	65	0.02	26.3
WE3-132S-4	5.5	11.2	10.7	10.3	1460	89.3	90.0	89.6	0.67	0.77	0.83	2.0	7.9	2.3	69	59	71	0.032	36
WE3-132M-4	7.5	15	14.3	13.7	1445	90.9	91.2	90.4	0.70	0.80	0.84	2.0	7.5	2.3	77	59	71	0.036	49.6
WE3-160M-4	11	21.5	20.4	19.7	1470	90.7	91.6	91.4	0.70	0.80	0.85	2.2	7.7	2.3	120	60	73	0.089	71
WE3-160L-4	15	28.8	27.3	26.3	1470	92.0	92.5	92.1	0.74	0.82	0.86	2.2	7.8	2.3	133	60	73	0.11	97
WE3-180M-4	18.5	35.3	33.5	32.3	1475	92.0	92.8	92.6	0.71	0.81	0.86	2.0	7.8	2.3	172	63	76	0.17	120
WE3-180L-4	22	41.8	39.7	38.3	1475	92.2	93.0	93.0	0.72	0.82	0.86	2.0	7.8	2.3	195	63	76	0.2	142
WE3-200L-4	30	57	54	52	1475	92.7	93.6	93.6	0.76	0.83	0.86	2.0	7.3	2.3	268	63	76	0.42	194
WE3-225S-4	37	70	66	64	1480	92.4	93.9	93.9	0.74	0.82	0.86	2.0	7.4	2.3	299	65	78	0.46	239
WE3-225M-4	45	84	80	77	1480	92.8	94.2	94.2	0.75	0.82	0.86	2.0	7.4	2.3	337	65	78	0.53	290
WE3-250M-4	55	103	98	94	1480	93.0	94.6	94.6	0.77	0.82	0.86	2.2	7.4	2.3	432	65	79	0.84	355
WE3-280S-4	75	136	129	125	1485	93.3	95.0	95.0	0.78	0.85	0.88	2.0	6.9	2.3	576	66	80	1.5	482
WE3-280M-4	90	163	155	149	1485	93.6	95.2	95.2	0.76	0.83	0.88	2.0	6.9	2.3	661	66	80	1.8	579
WE3-315S-4	110	197	187	180	1490	93.6	95.4	95.4	0.82	0.86	0.89	2.0	7.0	2.2	982	74	88	2.9	705
WE3-315M-4	132	236	224	216	1490	94.8	95.6	95.6	0.82	0.87	0.89	2.0	7.0	2.2	1015	74	88	3.3	846
WE3-315L1-4	160	285	271	261	1490	95.2	95.8	95.8	0.84	0.86	0.89	2.0	7.1	2.2	1050	74	88	3.9	1026
WE3-315L2-4	185	329	313	302	1490	95.3	95.3	95.9	0.83	0.86	0.89	2.0	7.1	2.2	1087	74	88	5.1	1186
WE3-315L3-4	200	352	334	322	1490	95.8	96.0	96.0	0.86	0.88	0.90	2.0	7.1	2.2	1111	74	88	5.1	1282
WE3-355M1-4	220	391	372	358	1495	95.8	96.0	96.0	0.84	0.87	0.89	2.0	7.1	2.2	1527	80	95	8.9	1405
WE3-355M2-4	250	440	418	403	1495	95.6	96.0	96.0	0.85	0.88	0.90	2.0	7.1	2.2	1547	80	95	8.2	1597
WE3-355L1-4	280	492	468	451	1495	95.4	96.0	96.0	0.85	0.88	0.90	2.0	7.1	2.2	1670	80	95	11	1789
WE3-355L2-4	315	554	526	507	1495	94.9	96.0	96.0	0.86	0.87	0.90	2.0	7.1	2.2	1827	80	95	9.2	2012
WE3-3551-4	355	638	607	585	1495	94.9	96.0	96.0	0.84	0.85	0.88	1.7	7.0	2.2	2012	87	102	10	2268
WE3-3552-4	375	674	641	618	1495	94.9	96.0	96.0	0.84	0.85	0.88	1.7	7.0	2.2	2307	87	102	12	2395

Cast iron motor-1000 r/min (6 pole) IE3

Model	Power	Rated Current (A)			Speed	Efficiency (%)			Power Factor			Locked Rotor Torque Rated Torque	Locked Rotor Current Rated Current	Maximum Torque Rated Torque	Weight	Noise		Moment of Inertia kg·m ²	Torque N·m
	kW	I _N 380V	I _N 400V	I _N 415V	r/min	50%	75%	100%	50%	75%	100%				kg	L _{PA} dB(A)	L _{WA} dB(A)		
WE3-80M1-6	0.37	1.09	1.04	1	925	72.7	74.8	73.5	0.50	0.62	0.70	2.0	6.0	2.1	17	42	54	0.0021	3.82
WE3-80M2-6	0.55	1.5	1.43	1.38	925	77.0	78.6	77.2	0.53	0.65	0.72	2.0	6.0	2.1	19	42	54	0.0033	5.7
WE3-90S-6	0.75	2.03	1.93	1.86	940	77.5	79.3	78.9	0.51	0.64	0.71	2.0	6.0	2.1	24	45	57	0.0055	7.6
WE3-90L-6	1.1	2.83	2.69	2.59	945	81.1	82.1	81.0	0.55	0.67	0.73	2.0	6.0	2.1	26	45	57	0.0072	11.1
WE3-100L-6	1.5	3.78	3.59	3.47	960	81.5	83.2	82.5	0.57	0.68	0.73	2.0	6.5	2.1	39	49	61	0.013	14.9
WE3-112M-6	2.2	5.4	5.1	4.91	950	82.6	84.5	84.3	0.56	0.67	0.74	2.0	6.6	2.1	45	53	65	0.021	22.1
WE3-132S-6	3	7.2	6.8	6.6	960	82.4	86.4	85.6	0.57	0.68	0.74	2.0	6.8	2.1	56	57	69	0.027	29.8
WE3-132M1-6	4	9.5	9	8.7	960	86.4	87.3	86.8	0.57	0.68	0.74	2.0	6.8	2.1	69	57	69	0.034	39.8
WE3-132M2-6	5.5	12.7	12	11.6	965	87.3	88.2	88.0	0.58	0.69	0.75	2.0	7.0	2.1	81	57	69	0.049	54
WE3-160M-6	7.5	16.2	15.4	14.8	970	88.0	89.2	89.1	0.63	0.74	0.79	2.0	7.0	2.1	117	60	73	0.12	74
WE3-160L-6	11	23.1	22	21.2	970	89.3	90.4	90.3	0.64	0.75	0.80	2.0	7.2	2.1	143	60	73	0.17	108
WE3-180L-6	15	30.9	29.3	28.2	975	90.5	91.4	91.2	0.69	0.78	0.81	2.0	7.3	2.1	194	60	73	0.27	147
WE3-200L1-6	18.5	37.8	35.9	34.7	980	90.5	91.7	91.7	0.69	0.77	0.81	2.0	7.3	2.1	235	60	73	0.4	180
WE3-200L2-6	22	44.8	42.5	41	980	91.2	92.2	92.2	0.68	0.77	0.81	2.0	7.4	2.1	255	60	73	0.47	214
WE3-225M-6	30	59	56	54	980	91.8	92.9	92.9	0.78	0.81	0.83	2.0	6.9	2.1	339	61	74	0.96	292
WE3-250M-6	37	72	68	66	985	92.6	93.3	93.3	0.72	0.80	0.84	2.0	7.1	2.1	437	62	76	1.3	359
WE3-280S-6	45	86	82	79	985	92.0	93.7	93.7	0.78	0.82	0.85	2.0	7.3	2.0	511	64	78	2.6	436
WE3-280M-6	55	103	98	95	985	92.6	94.1	94.1	0.76	0.83	0.86	2.0	7.3	2.0	656	64	78	3.3	533
WE3-315S-6	75	143	136	131	990	94.3	94.6	94.6	0.77	0.80	0.84	2.0	6.6	2.0	972	69	83	3.6	723
WE3-315M-6	90	170	161	155	990	94.2	94.9	94.9	0.73	0.80	0.85	2.0	6.7	2.0	1095	69	83	4.2	868
WE3-315L1-6	110	207	196	189	990	94.8	95.1	95.1	0.76	0.81	0.85	2.0	6.7	2.0	1190	69	83	5.2	1061
WE3-315L2-6	132	244	232	224	990	94.9	95.4	95.4	0.77	0.83	0.86	2.0	6.8	2.0	1265	69	83	6.2	1273
WE3-355M1-6	160	296	281	271	995	95.3	95.6	95.6	0.85	0.84	0.86	1.8	6.8	2.0	1497	70	85	9.8	1536
WE3-355M2-6	200	365	346	334	995	94.6	95.8	95.8	0.81	0.84	0.87	1.8	6.8	2.0	1674	70	85	12	1920
WE3-355L1-6	220	406	385	371	995	94.6	95.8	95.8	0.82	0.84	0.86	1.8	6.8	2.0	2002	70	85	13	2112
WE3-355L2-6	250	461	438	422	995	95.2	95.8	95.8	0.82	0.85	0.86	1.8	6.8	2.0	2022	76	85	14	2399
WE3-3551-6	280	516	491	473	995	95.2	95.8	95.8	0.82	0.85	0.86	1.8	6.8	2.0	2047	76	91	15	2687
WE3-3552-6	315	581	552	532	995	95.2	95.8	95.8	0.82	0.85	0.86	1.8	6.8	2.0	2112	76	91	16	3023

Cast iron motor-750 r/min (8 pole) IE3

Model	Power	Rated Current (A)			Speed	Efficiency (%)			Power Factor			Locked Rotor Torque Rated Torque	Locked Rotor Current Rated Current	Maximum Torque Rated Torque	Weight	Noise		Moment of Inertia kg·m²	Torque N.m
	kW	I _N 380V	I _N 400V	I _N 415V	r/min	50%	75%	100%	50%	75%	100%				kg	L _{PA} dB(A)	L _{WA} dB(A)		
WE3-80M1-8	0.18	0.76	0.73	0.7	695	54.6	59.1	58.7	0.40	0.50	0.61	1.8	3.3	1.9	17	40	52	0.0033	2.47
WE3-80M2-8	0.25	0.97	0.92	0.89	695	59.8	64.2	64.1	0.39	0.50	0.61	1.8	3.3	1.9	19	40	52	0.004	3.44
WE3-90S-8	0.37	1.33	1.26	1.22	700	67.1	71.1	69.3	0.42	0.54	0.61	1.8	4.0	1.9	22	44	56	0.0049	5
WE3-90L-8	0.55	1.88	1.78	1.72	700	69.7	73.3	73.0	0.43	0.55	0.61	1.8	4.0	2.0	25	44	56	0.0061	7.5
WE3-100L1-8	0.75	2.27	2.15	2.08	710	74.3	76.0	75.0	0.53	0.64	0.67	1.8	4.0	2.0	34	47	59	0.013	10.1
WE3-100L2-8	1.1	3.12	2.96	2.85	710	77.3	78.2	77.7	0.54	0.67	0.69	1.8	5.0	2.0	38	47	59	0.016	14.8
WE3-112M-8	1.5	4.14	3.94	3.79	710	79.2	81.3	79.7	0.53	0.65	0.69	1.8	5.0	2.0	41	49	61	0.023	20.2
WE3-132S-8	2.2	5.7	5.5	5.3	715	81.2	82.2	81.9	0.52	0.65	0.71	1.8	6.0	2.0	58	52	64	0.03	29.4
WE3-132M-8	3	7.5	7.1	6.8	715	83.1	84.0	83.5	0.50	0.63	0.73	1.8	6.0	2.0	73	52	64	0.04	40.1
WE3-160M1-8	4	9.8	9.3	9	730	85.2	86.3	84.8	0.52	0.65	0.73	1.9	6.0	2.0	102	55	68	0.092	52
WE3-160M2-8	5.5	13.1	12.4	12	725	86.4	86.5	86.2	0.55	0.69	0.74	2.0	6.0	2.0	109	55	68	0.11	72
WE3-160L-8	7.5	17.4	16.5	15.9	730	87.1	88.0	87.3	0.54	0.67	0.75	2.0	6.0	2.0	130	55	68	0.14	98
WE3-180L-8	11	24.8	23.6	22.7	730	88.6	89.6	88.6	0.56	0.68	0.76	2.0	6.6	2.0	193	57	70	0.28	144
WE3-200L-8	15	33.5	31.8	30.6	735	89.4	90.0	89.6	0.58	0.70	0.76	2.0	6.6	2.0	259	60	73	0.56	195
WE3-225S-8	18.5	41	39	37.6	735	90.0	90.9	90.1	0.61	0.72	0.76	1.9	6.6	2.0	287	60	73	0.86	240
WE3-225M-8	22	47.3	44.9	43.3	735	90.4	91.2	90.6	0.62	0.73	0.78	1.9	6.6	2.0	330	60	73	0.97	286
WE3-250M-8	30	63	60	58	740	91.2	91.6	91.3	0.65	0.76	0.79	1.9	6.6	2.0	452	61	75	1.5	387
WE3-280S-8	37	78	74	71	740	91.8	92.2	91.8	0.70	0.80	0.79	1.9	6.6	2.0	484	62	76	2.8	478
WE3-280M-8	45	94	89	86	740	92.1	92.5	92.2	0.70	0.80	0.79	1.9	6.6	2.0	623	62	76	3.3	581
WE3-315S-8	55	112	106	102	740	92.1	92.7	92.5	0.66	0.77	0.81	1.8	6.6	2.0	927	68	82	5.2	710
WE3-315M-8	75	151	144	138	740	92.7	93.4	93.1	0.68	0.78	0.81	1.8	6.6	2.0	1085	68	82	6.4	968
WE3-315L1-8	90	179	170	163	740	92.9	93.6	93.4	0.68	0.78	0.82	1.8	6.6	2.0	1213	68	82	7.3	1161
WE3-315L2-8	110	218	207	199	740	93.1	93.9	93.7	0.70	0.79	0.82	1.8	6.4	2.0	1288	68	82	8.4	1420
WE3-355M1-8	132	260	247	238	745	93.3	94.0	94.0	0.71	0.79	0.82	1.8	6.4	2.0	1523	75	90	13	1692
WE3-355M2-8	160	314	299	288	745	93.7	94.3	94.3	0.73	0.80	0.82	1.8	6.4	2.0	1640	75	90	15	2051
WE3-355L-8	200	387	368	354	745	93.9	94.6	94.6	0.72	0.80	0.83	1.8	6.4	2.0	1993	75	90	17	2564

Aluminium motor-3000/1500/1000 r/min (2/4/6 pole) IE3

Model	Power	Rated Current (A)			Speed	Efficiency (%)			Power Factor			Locked Rotor Torque Rated Torque	Locked Rotor Current Rated Current	Maximum Torque Rated Torque	Weight	Noise		Moment of Inertia kg·m ²	Torque N·m
	kW	I _N 380V	I _N 400V	I _N 415V	r/min	50%	75%	100%	50%	75%	100%				kg	L _{PA} dB(A)	L _{WA} dB(A)		
WE3-63M1-3	0.18	0.54	0.51	0.49	2765	58.5	67.2	65.9	0.62	0.72	0.77	2.2	7.1	2.3	5.0	49	61	0.00063	0.62
WE3-63M2-2	0.25	0.70	0.66	0.64	2770	60.3	71.1	69.7	0.63	0.74	0.78	2.2	7.1	2.3	5.8	49	61	0.00080	0.86
WE3-71M1-2	0.37	0.94	0.89	0.86	2815	71.2	73.2	73.8	0.63	0.73	0.81	2.3	7.0	2.2	6.6	52	64	0.00053	1.26
WE3-71M2-2	0.55	1.31	1.24	1.20	2835	75.3	77.6	77.8	0.64	0.74	0.82	2.3	7.0	2.3	7.6	52	64	0.00066	1.85
WE3-80M1-2	0.75	1.72	1.64	1.58	2860	79.3	81.1	80.7	0.73	0.79	0.82	2.3	7.0	2.3	11	50	62	0.00099	2.5
WE3-80M2-2	1.1	2.43	2.31	2.23	2880	79.6	82.5	82.7	0.73	0.76	0.83	2.2	7.3	2.3	12.5	50	62	0.0013	3.65
WE3-90S-2	1.5	3.22	3.06	2.95	2885	84.1	84.9	84.2	0.74	0.81	0.84	2.2	7.6	2.3	16	55	67	0.0014	4.97
WE3-90L-2	2.2	4.58	4.35	4.19	2870	85.8	86.5	85.9	0.74	0.82	0.85	2.2	7.6	2.3	19	55	67	0.0016	7.3
WE3-100L-2	3	6	5.7	5.5	2900	86.2	87.4	87.1	0.79	0.84	0.87	2.2	7.8	2.3	26	62	74	0.0053	9.9
WE3-112M-2	4	7.8	7.4	7.2	2900	88.7	89.2	88.1	0.78	0.85	0.88	2.2	8.3	2.3	33	65	77	0.0069	13.2
WE3-132S1-2	5.5	10.6	10.1	9.7	2920	88.9	89.6	89.2	0.78	0.85	0.88	2.0	8.3	2.3	45	67	79	0.014	18
WE3-132S2-2	7.5	14.4	13.7	13.2	2905	89.9	90.6	90.1	0.79	0.85	0.88	2.0	7.9	2.3	50	67	79	0.018	24.7
WE3-160M1-2	11	20.6	19.6	18.9	2940	89.9	91.1	91.2	0.78	0.86	0.89	2.0	8.1	2.3	82	68	81	0.046	35.7
WE3-160M2-2	15	27.9	26.5	25.5	2930	91.3	92.1	91.9	0.79	0.86	0.89	2.0	8.1	2.3	90	68	81	0.053	48.9
WE3-160L-2	18.5	34.2	32.5	31.3	2930	92.2	92.7	92.4	0.81	0.87	0.89	2.0	8.2	2.3	104	68	81	0.063	60

WE3-63M1-4	0.12	0.40	0.38	0.37	1355	64.1	66.2	64.8	0.50	0.63	0.70	2.1	7.5	2.3	6.0	40	52	0.00051	0.84
WE3-63M2-4	0.18	0.56	0.53	0.51	1355	69.1	71.0	69.9	0.50	0.63	0.70	2.1	7.5	2.3	7.0	40	52	0.00065	1.26
WE3-71M1-4	0.25	0.70	0.66	0.64	1390	70.2	73.1	73.5	0.52	0.64	0.74	2.1	6.6	2.2	8.3	43	55	0.0013	1.72
WE3-71M2-4	0.37	0.97	0.92	0.89	1390	74.1	76.8	77.3	0.53	0.65	0.75	2.1	6.6	2.2	9.0	43	55	0.0015	2.54
WE3-80M1-4	0.55	1.38	1.31	1.26	1425	77.9	80.8	80.8	0.57	0.68	0.75	2.3	6.6	2.3	11.5	44	56	0.0018	3.69
WE3-80M2-4	0.75	1.84	1.75	1.69	1425	79.6	82.4	82.5	0.57	0.69	0.75	2.3	6.6	2.3	12.5	44	56	0.0023	5
WE3-90S-4	1.1	2.61	2.48	2.39	1430	83.2	84.6	84.1	0.56	0.69	0.76	2.3	6.8	2.3	16	47	59	0.0034	7.4
WE3-90L-4	1.5	3.47	3.3	3.18	1425	84.7	85.8	85.3	0.58	0.70	0.77	2.3	7.0	2.3	19	47	59	0.0043	10.1
WE3-100L1-4	2.2	4.76	4.52	4.36	1445	84.8	86.8	86.7	0.64	0.75	0.81	2.3	7.6	2.3	26	52	64	0.01	14.5
WE3-100L2-4	3	6.3	6	5.8	1420	85.7	87.7	87.7	0.65	0.76	0.82	2.3	7.6	2.3	31	52	64	0.014	20.2
WE3-112M-4	4	8.4	7.9	7.7	1450	88.5	89.2	88.6	0.69	0.78	0.82	2.2	7.8	2.3	38	53	65	0.02	26.3
WE3-132S-4	5.5	11.2	10.7	10.3	1460	89.3	90.0	89.6	0.67	0.77	0.83	2.0	7.9	2.3	48	59	71	0.032	36
WE3-132M-4	7.5	15	14.3	13.7	1445	90.9	91.2	90.4	0.70	0.80	0.84	2.0	7.5	2.3	59	59	71	0.036	49.6
WE3-160M-4	11	21.5	20.4	19.7	1470	90.7	91.6	91.4	0.70	0.80	0.85	2.2	7.7	2.3	96	60	73	0.089	71
WE3-160L-4	15	28.8	27.3	26.3	1470	92.0	92.5	92.1	0.74	0.82	0.86	2.2	7.8	2.3	106	60	73	0.11	97

WE3-71M1-6	0.18	0.65	1.07	1.03	900	60.5	63.4	63.9	0.45	0.56	0.66	1.9	6.0	2.0	6.0	40	52	0.0013	1.91
WE3-71M2-6	0.25	0.81	1.34	1.29	900	65.6	68.1	68.6	0.45	0.58	0.68	1.9	6.0	2.0	7.5	40	52	0.0014	2.65
WE3-80M1-6	0.37	1.09	1.04	1.00	925	72.7	74.8	73.5	0.50	0.62	0.70	2.0	6.0	2.1	11	42	54	0.0021	3.82
WE3-80M2-6	0.55	1.50	1.43	1.38	925	77.0	78.6	77.2	0.53	0.65	0.72	2.0	6.0	2.1	12.5	42	54	0.0033	5.7
WE3-90S-6	0.75	2.03	1.93	1.86	940	77.5	79.3	78.9	0.51	0.64	0.71	2.0	6.0	2.1	16	45	57	0.0055	7.6
WE3-90L-6	1.1	2.83	2.69	2.59	945	81.1	82.1	81.0	0.55	0.67	0.73	2.0	6.0	2.1	19	45	57	0.0072	11.1
WE3-100L-6	1.5	3.78	3.59	3.47	960	81.5	83.2	82.5	0.57	0.68	0.73	2.0	6.5	2.1	28	49	61	0.013	14.9
WE3-112M-6	2.2	5.4	5.1	4.91	950	82.6	84.5	84.3	0.56	0.67	0.74	2.0	6.6	2.1	36	53	65	0.021	22.1
WE3-132S-6	3	7.2	6.8	6.6	960	82.4	86.4	85.6	0.57	0.68	0.74	2.0	6.8	2.1	42	57	69	0.027	29.8
WE3-132M1-6	4	9.5	9	8.7	960	86.4	87.3	86.8	0.57	0.68	0.74	2.0	6.8	2.1	49	57	69	0.034	39.8
WE3-132M2-6	5.5	12.7	12	11.6	965	87.3	88.2	88.0	0.58	0.69	0.75	2.0	7.0	2.1	64	57	69	0.049	54
WE3-160M-6	7.5	16.2	15.4	14.8	970	88.0	89.2	89.1	0.63	0.74	0.79	2.0	7.0	2.1	89	60	73	0.12	74
WE3-160L-6	11	23.1	22	21.2	970	89.3	90.4	90.3	0.64	0.75	0.80	2.0	7.2	2.1	109	60	73	0.17	108

Technical information

Mounting arrangements

Basic structural type	With foot, endshield without flange					
Mounting type code	B3	B6	B7	B8	V5	V6
Schematic diagram						
Frame	63~355	63~160				

Basic structural type	Without foot, endshield with flange			With foot, endshield with flange		
Mounting type code	B5	V1	V3	B35	V15	V36
Schematic diagram						
Frame	63~280	63~355	63~160	63~355	63~160	

Basic structural type	Without foot, endshield with a small flange		With foot, endshield with a small flange
Mounting type code	B14	V18	B34
Schematic diagram			
Frame	71~112		

Level of protection

WE series standard protection grade is IP55, IP56, IP65, IP66 and other protection grades can be customized according to customer requirements.

The protection level of the shell is mainly to prevent electric shock to human body or close to live parts or rotating parts, to prevent solid foreign matter from entering and to prevent harmful effects caused by water and oil. The code name and meaning of the protection form is shown in the table below.

Code	Meaning	First digit	Meaning	Second-order digit	Meaning
IP	Level of protection	5	Dust prevention	5	Prevent water spray
		6	Dust tight	6	Prevent strong spraying of water

Insulation grade and temperature rise limit

WE series adopts F grade insulation, and the temperature rise is assessed as B grade. Nano-insulation impregnating resin can be selected to further improve the service life in the power supply environment and service environment.

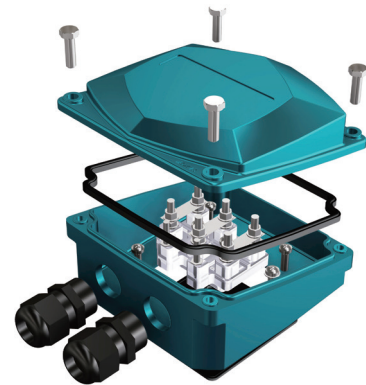
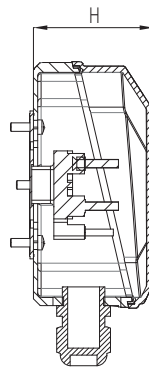
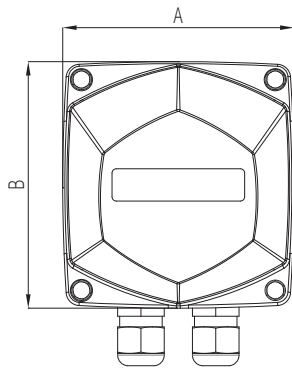
In order to run the motor reliably, insulation materials are needed to separate the live parts from the enclosure or live parts. Motor as an energy conversion or signal conversion element. There is energy loss in the process of operation itself, a portion of the energy losses caused by temperature rise from itself. Under the general condition, insulation class, suffering the most from extreme temperatures and the resistance method is used to measure the motor temperature rise limit between comply with the following table, the temperature rise limit within the motor should be able to work properly.

Insulation grade	Limited temperature°C	The temperature rise limit K
B	130	80
F	155	105
H	180	125

▼ Nameplate sample

○ BROOK CROMPTON 3~AC MOTOR IEC/EN 60034 IE5 ○	
	
TYPE	IM P/ No
Th.Cl.	S IP kg
Temp Rise B	
V Δ/Δ	Hz kW A Δ/Δ cos φ r/min η%
○ Made in China ○	

▼ Terminal box



Frame	Boundary dimension AxBxH (mm)	Number and size of outlets	Diameter of single hole screw sleeve can lock the cable (mm)	Thread of terminal
63~80	90x96x50	1-M25x1.5	Φ8~Φ12	M4
90~100	102x110x57.5	1-M25x1.5	Φ8~Φ12	M4
112~132	136x146x72	2-M25x1.5	Φ8~Φ12	M5
160~180	171x181x91	2-M32x1.5	Φ16~Φ21	M6
200~225	220x230x113	2-M50x1.5	Φ32~Φ39	M8
250~280	270x280x162	2-M63x1.5	Φ37~Φ44	M10
315	312x329x175	2-M63x1.5	Φ37~Φ44	M12
355	382x402x200	2-M72x2	Φ45~Φ53	M16

▼ Lifting ring

Frame	WE3&WE4			WE5		
	Lifting ring	Quantity	Location	Lifting ring	Quantity	Location
63~71	-	-	-	-	-	-
80~90S	-	-	-	M8	1	Top (Horizontal mounting)
90L~112	M8	1	Both sides of terminal box Left front and right rear view from shaft end	M8	1	
132	M10	1		M10	1	
160	M12	1		M12	1	
180	M16	1		M16	1	
200~225	M20	2	Both sides of terminal box	M20	1	Top (Horizontal mounting)
250	M20	2		M24	1	
280	M24	2		M30	1	
315	M30	2		M30	2	
355	M36	2		M36	2	

▼ WE3&WE4 Series Bearing type for aluminum motor

Frame	Poles	DE	NDE
63	2~4	6201ZZ	6201ZZ
71	2~6	6202ZZ	6202ZZ
80	2~6	6204ZZ	6204ZZ
90	2~6	6205ZZ	6203ZZ
100	2~6	6206ZZ	6205ZZ
112	2~6	6206ZZ	6206ZZ
132	2~6	6208ZZ	6208ZZ
160	2~6	6309ZZ	6309ZZ

▼ Bearing type for cast iron motor(WE3 series)

Frame	Poles	DE	NDE	Frame	Poles	DE	NDE
80	2~8	6204ZZ	6204ZZ	H225	4~8	6313	6312
90	2~8	6205ZZ	6203ZZ	H250	2	6313	6313
100	2~8	6206ZZ	6205ZZ	H250	4~8	6314	6313
112	2~8	6206ZZ	6206ZZ	H280	2	6314	6314
132	2~8	6208ZZ	6305ZZ	H280	4~8	6317	6314
160	2~8	6309ZZ	6307ZZ	H315	2	6317	6317
180	2~8	6310ZZ	6308ZZ	H315	4~8	6319	6319
200	2~8	6312	6212	H355	2	6319	6319
225	2	6312	6312	H355	4~8	6322	6322

Note:ZZ - Double shielded bearings.

The table above shows standard bearing sizes, alternative bearings are available if required.

▼ Bearing type for cast iron motor(WE4&WE5 series)

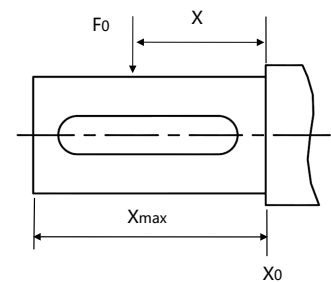
Frame	Poles	DE	NDE
80	2~8	6204ZZ	6204ZZ
90	2~8	6205ZZ	6205ZZ
100	2~8	6206ZZ	6206ZZ
112	2~8	6206ZZ	6206ZZ
132	2~8	6208ZZ	6208ZZ
160	2~8	6309ZZ	6309ZZ
180	2~8	6310ZZ	6310ZZ
200	2~8	6312	6312
225	2	6312	6312
225	4~8	6313	6312
250	2	6313	6313
250	4~8	6314	6313
280	2	6314	6314
280	4~8	6317	6314
315	2	6317	6317
315	4~8	6319	6319
355	2	6319	6319
355	4~8	6322	6322

▼ Permissible forces at the shaft end

Maximum radial force (for pulley drive system): The maximum allowable radial force F_0 (unit: N) for radial load is based on the premise that the load line (center of pulley) must be within the length of the motor shaft extension (the motor shaft elongation is shown in the installation size code E size). The radial force length X (mm) is the distance from the axial extension shoulder to the radial force F_0 action line, so when the length $X = \text{Max}$, it is the total length of the axial extension (size value E). Maximum allowable radial force as below table.

Frame	Radial force F_0 (N)							
	2P		4P		6P		8P	
	$X=0$	$X=\text{max}$	$X=0$	$X=\text{max}$	$X=0$	$X=\text{max}$	$X=0$	$X=\text{max}$
71	440	380	460	400	540	470	-	-
80	720	600	760	630	860	720	980	820
90	780	650	810	670	940	780	1060	880
100	1100	900	1110	910	1310	1070	1480	1210
112	1090	900	1080	890	1290	1060	1460	1200
132	1730	1360	1740	1400	2000	1610	2330	1880
160	2950	2330	3050	2410	3420	2700	3870	3060
180	3420	2740	3460	2820	4080	3320	4430	3610
200	4390	3640	4500	3730	5270	4370	5790	4800
225	4340	3620	5050	4030	5870	4690	6470	5170
250	4910	4000	5710	4650	6520	5310	7180	5840
280	5380	4500	6870	5750	8090	6770	9120	7630
315	6400	5550	7500	6310	8420	7080	9120	7670
355	6770	6070	8620	7560	9910	8690	11590	10160

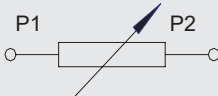
Permissible radial force Frame sizes 80~355



Optional accessories

Thermal protection device is optional for WE series.

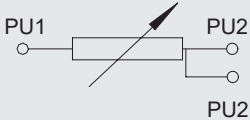
Thermistor PTC

Name	PTC thermistor
Type	MZ6 160 D
Application	Motor overheating protection
Operating temperature and accuracy	160 ±5°C
Set position	1 in each phase, in series, at the highest temperature point embedded at the end of the winding at the drive end
Connection	Three components in series, two leads to the terminal box.
Color and marking of wiring	P1 & P2
Wiring diagram	
Frame	71~355

Note : (1) PTC operating temperature can be customized according to specifications.

(2) PTO thermosensitive bimetal switch can be used according to specifications.

Winding Resistant Temperature Detector (RTD)

Name	Platinum Resistant Temperature Detector (RTD)
Type	PT100, three leads
Application	Motor winding temperature detection, high temperature protection
0°C resistance and precision	100± 0.12Ω (Class B tolerances)
Set position	1 in each phase, at the highest temperature point embedded at the end of the winding at the drive end
Connection	Each component has three lead wires to the terminal box
Lead Markings	U — PU1, PU2, PU2 ; V— PVI, PV2, PV2; W— PW1, PW2, PW2. If there are two elements in each phase winding, the lead of the other element is marked as: U— PU3, PU4, PU4 ; V— PV3, PV4, PV4 ; W— PW3, PW4, PW4
Wiring diagram	
Frame	160~355

▼ Bearing Resistant Temperature Detector (RTD)

Name	Platinum Resistant Temperature Detector (RTD)
Type	WZP-M, three leads, sealed metal body
Application	Motor winding temperature detection, over temperature protection
0°C resistance and precision	100± 0.12Ω [Class B tolerances]
Quantity	One per bearing
Set position	Embedded inside the endshield, the face of the sensor must contact the outer ring of the bearing
Connection	Each component has three lead wires to the terminal box.
Lead Markings	drive-end bearing (D E) — PD1, PD2, PD2 ; non-driven-end bearing (NDE) — PN1, PN2, PN2 If two elements are used for each end of the bearing, the lead of the other element is marked as: drive-end bearing (D E) - PD3, PD4, PD4 ; non-driven-end bearing (NDE) - PN3, PN4, PN4
Wiring diagram	
Frame sizes	160~355

According to temperature measuring elements, K or T type thermocouples can be fitted as an alternative.

▼ Anti-condensation heater

Name	Anti-condensation heater										
Application	Prevent condensation within the motor, which would lead to low insulation resistance										
Temperature resistance of insulating material	≥250°C										
Rated voltage	AC single-phase, 220 - 240V (order schedule)										
Set position	Bound to the winding overhang										
Connection	Two lead wires to the terminal box										
lead Marking	H1 & H2										
Wiring diagram											
Frame	100	112	132	160	180	200	225	250	280	315	355
Rated wattage of each heating belt	30	30	40	40	50	50	60	60	60	80	110
Quantity	1	1	1	1	1	1	1	1	1	2	2

▼ Terminal device of protective equipment

- When the motor is installed with PTC or PTO, its wiring shall be in the main terminal box with eight-post terminal board.
- When the winding or bearing of motor is loaded with PT100, its wiring is arranged in an independent auxiliary terminal box and equipped with terminal bank.
- When the motor is only equipped with winding heating belt, its wiring is on the wall of the main terminal box. (d) When the motor is assembled with heating belt and PT100, the heating belt shall be connected on the wall of the main terminal box, and the PT100 connection shall be located in an independent auxiliary terminal box with terminal bar.
- When the motor is assembled with heating belt and PTC, the heating belt shall be connected on the wall of the main terminal box, and the PTC shall be connected on the eight-column terminal board of the main terminal box.

Ordering guide

▼ The following factors should be taken into account in motor selection:

- Voltage: ☐ 380 V ☐ 660 V ☐ 400 V ☐ 690 V ☐ Others.
- Frequency: ☐ 50 Hz ☐ 60 Hz ☐ Others.
- Mounting type: ☐ IMB3 ☐ IMB35 ☐ IMB5 ☐ IMV1 ☐ Others.
- Operating environment: ☐ Indoor ☐ Outdoor ☐ Ambient temperature ☐ Altitude
- Protection grade: ☐ IP55 ☐ IP56
- Equipment type and moment of inertia of load
- Connection mode between the motor and load
- Start mode, start frequency, start voltage drop, etc.
- Operating mode: ☐ S1 ☐ Others
- Insulation grade: ☐ 155 (F) ☐ 180(H), ☐ Nanometer insulation
- Rotation direction: ☐ Clockwise ☐ Counterclockwise ☐ Bidirectional
- Wiring box position: ☐ Top of motor ☐ Right side of motor ☐ Left side of motor (viewed from the shaft extension end)
- Energy Efficiency Level: ☐ IE5 ☐ IE4 ☐ IE3

▼ Example of demand:

- Base center height 315, 132 kW, 2P base equipped with feet, no flange at the end cover, 380/660V, clockwise rotation, IP55 rated, insulation grade F, energy efficiency level IE5.
The motor label is as follows: WE5-315M-2 132kW 380/660V 50Hz IMB3 IP55 F.
 - If you have any special requirements for voltage, frequency, protection grade, rotation direction, installation mode, dual-shaft extension, noise, vibration and wiring box connection, consult the local technical personnel for approval before manufacturing.
- ※ The data in this sample is subject to change without notice. Please pay attention to change to the sample version.

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