Keeping Industry Turning

WEPM(A) IE5

Frequency Controlled Permanent Magnet Motor

BROOK CROMPTON
Keeping Industry Turning

2407

WOLONG
Power your future

Introduction

WEPM(A) IE5 specification

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 of 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 motor drives fans, pumps, compressors, conveyors and more, ever 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 environment impact.

Quality Assurance

Stringent quality proceduresare 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.

WEPM(A) IE5 Range

WEPM(A) IE5 series variable frequency spped regulating permanent magnet synchronous motors can be matched with multiple brands of universal frequency converters.

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

Specification		
	Standard product	Option
Frame material	IE5: 80 to 315 cast iron	IE5: 63-160 aluminium
Enclosure	IP55	IP56, IP65, IP66
Mounting option	Foot (B3), Flange (B5),Face (B14)	V1, V15
	Foot & Flange (B35), Foot & Face (B34)	
Standard terminal box position	Top	Right or Left
Standard terminal box material	Aluminium	-
Voltage	3kW and below 230/400/50Hz & 460/60Hz	-
	4kW and above 400/690/50Hz & 460/60Hz	-
Frequency	50Hz frequency converter	60Hz
Cooling	IC411	IC416
Insulation	Class F	Class H
Thermal protection	-	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	
Located bearing position	Drive end	-
Lubrication	56 to 180 - sealed for life bearings	180 regreasing
	200 to 355 - regreasing	-
Paint colour	Water blue (RAL 5021)	-

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

Introduction

Standards, environment & efficiency

Standards

The WEPM(A) IE5 range of motors are manufactured to the international standards listed below:

Standards

Motors 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 countires.

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 [3]	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 techical 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)

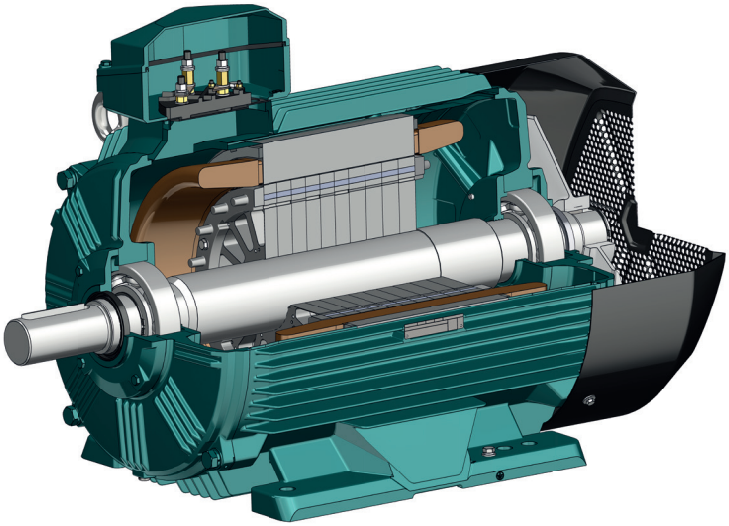
* UKCA marked in accordance to the relevant Statutory Instruments and Designated Standards, with equivalence to the EU regulations quoted above.
[1] Motors operating from a correctly applied, sinusoidal (AC) supply meet the requirements of the EMC directive and are within the limits specified in standard 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 Janunary 2027, replaced by Regulation (EU) 2023/1230.
[4] And amending Regulation (EU) 2021/341.

Introduction

WEPM(A) IE5 advantages

Motor Features

- WEPM cast iron range has a robust contruction. WEPMA aluminium has a lightweight flexible design.
- WEPM(A) have reputable branded bearings fitted as standard.
- Above frame size 280, a engineered ceramic plate is used on NDE shaft to protect the bearings from circulating currents.
- The design of the fan blade and stator frame allows the cooling air circuit to work at its most optimal.
- WEPM(A) IE5 are available with higher outputs in reduced frame sizes.



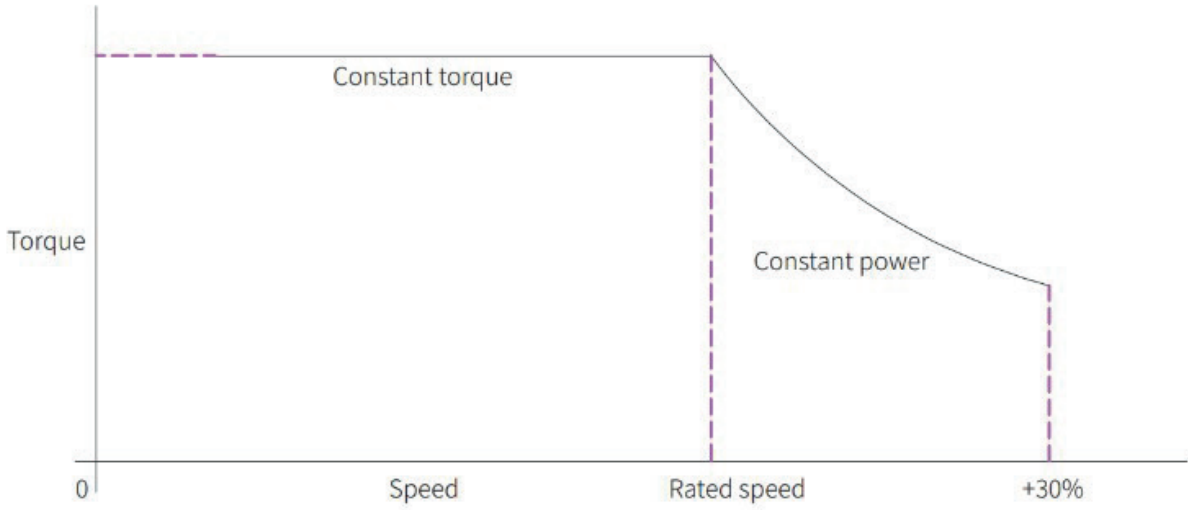
WEPM 315 Frame, Foot mounted (B3)

High power density advantage - low volume and reduced weight

When compared to IE3 and IE4, the IE5 efficiency of the WEPM motor not only improves the motor efficiency but also reduces the motor weight and volume.
WEPM motors have shafts and bearings that can with withstand higher power and torque in a smaller housing size.

Maintain constant torque over a wide speed

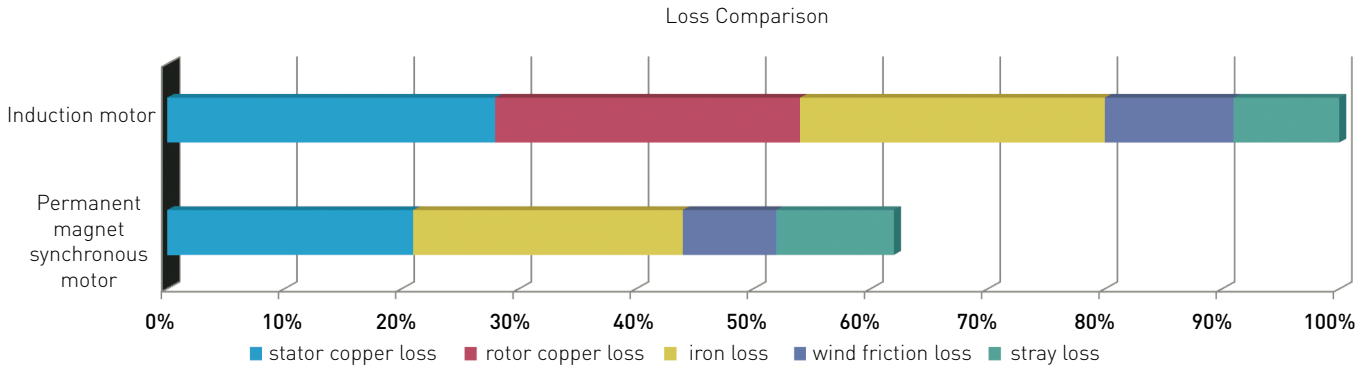
The need for forced ventilation is because the WEPM motors can operate at constant torque over a wide range of rotational speeds.



Introduction

Loss Reduction

In an IE3 induction motor, the rotor copper loss accounts for nearly 30% of the overall sum of losses. The WEPM(A) IE5 motor uses permanent magnet technology use which eliminates the rotor copper losses in comparison to the IE3 induction motor.



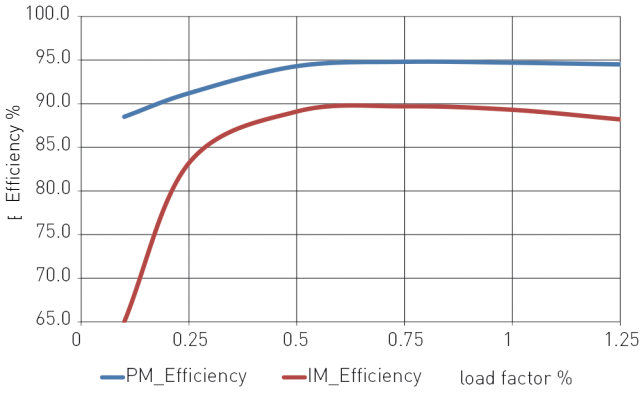
Comparison of loss between IE3 induction motor and WEPM IE5 motor

Ultra-high efficiency at full range of speeds or loads

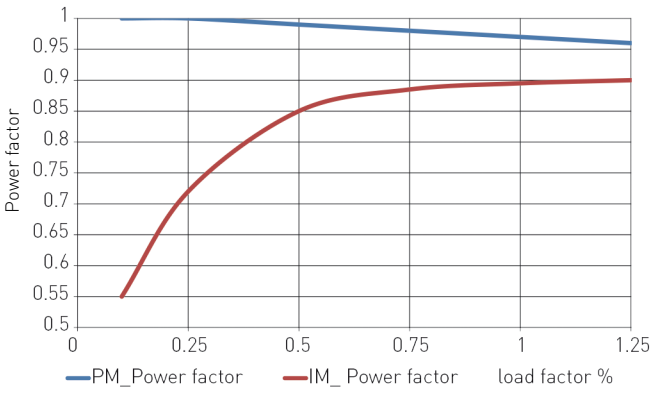
The WEPM(A) IE5 series uses a permanent magnetic field that significantly improves the power factor and efficiency, regardless of the speed or low torque output.

Efficiency and power factor curves under rated speed variable torque operation

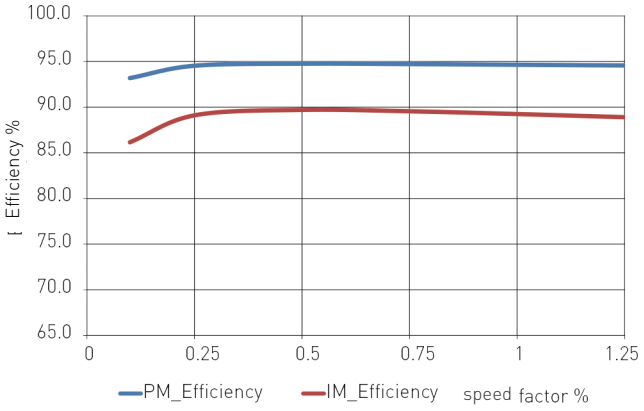
Efficiency curve (permanent magnet motor and induction motor)

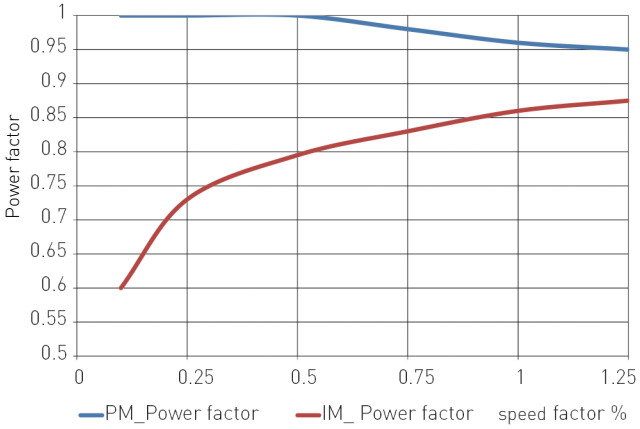


Power factor curve (permanent magnet motor and induction)



Efficiency and power factor curves of fan & pump under frequency conversion operation





Performance Data

3000min^{-1}

Aluminium

P_N kW	P_N hp	n min^{-1}	Hz	Type		I_N 400V A (full load current at rated voltage)	η 1.0 P_N (efficiency)	J kgm^2 (rotor inertia wK^2)	L_{PA} dB(A) (mean sound pressure level @ 1m on no load)	kg (weight)
0.25	0.35	3000	100	**WEPMA5-63M-0.25-3000**	IE5	0.44	78.3	0.28	50	4.3
0.37	0.5	3000	100	**WEPMA5-71M-0.37-3000**	IE5	0.72	81.7	0.46	50	5.6
0.55	0.75	3000	100	**WEPMA5-71M-0.55-3000**	IE5	1.05	87.3	0.53	50	6.0
0.75	1	3000	100	**WEPMA5-80M-0.75-3000**	IE5	1.33	88.6	1.12	50	8.4
1.1	1.5	3000	100	**WEPMA5-80M-1.1-3000**	IE5	1.95	89.8	1.18	50	10.6
1.5	2	3000	100	**WEPMA5-90S-1.5-3000**	IE5	2.8	90.9	2.08	50	12.7
2.2	3	3000	100	**WEPMA5-90L-2.2-3000**	IE5	4.0	91.8	2.39	50	13.8
3	4	3000	100	**WEPMA5-100L-3-3000**	IE5	5.8	92.6	5.56	62	18.4
4	5.5	3000	100	**WEPMA5-112M-4-3000**	IE5	7.3	93.3	9.16	65	25.0
5.5	7.5	3000	100	**WEPMA5-132S-5.5-3000**	IE5	10.0	94	42.3	67	29.1
7.5	10	3000	100	**WEPMA5-132S-7.5-3000**	IE5	13.3	94.5	44.5	67	30.3
11	15	3000	100	**WEPMA5-160M-11-3000**	IE5	19.5	95	53.8	68	50.3
15	20	3000	100	**WEPMA5-160M-15-3000**	IE5	26.5	95.3	74.3	68	60.2
18.5	25	3000	1000	**WEPMA5-160L-18.5-3000**	IE5	33.0	95.6	78.4	68	63.5

Cast Iron

P_N kW	P_N hp	n min^{-1}	Hz	Type		I_N 400V A (full load current at rated voltage)	η 1.0 P_N (efficiency)	J kgm^2 (rotor inertia wK^2)	L_{PA} dB(A) (mean sound pressure level @ 1m on no load)	kg (weight)
1.1	1.5	3000	100	**WEPM5-80M-1.1-3000**	IE5	1.95	89.8	1.18	62	16.3
1.5	2	3000	100	**WEPM5-90S-1.5-3000**	IE5	2.8	90.9	2.08	67	20.1
2.2	3	3000	100	**WEPM5-90L-2.2-3000**	IE5	4.0	91.8	2.39	67	22
3	4	3000	100	**WEPM5-100L-3-3000**	IE5	5.8	92.6	5.56	74	30
4	5.5	3000	100	**WEPM5-112M-4-3000**	IE5	7.3	93.3	9.16	77	38.7
5.5	7.5	3000	150	**WEPM5-132S-5.5-3000**	IE5	10	94	42.3	79	48.1
7.5	10	3000	150	**WEPM5-132S-7.5-3000**	IE5	13.3	94.5	44.5	79	49.3
11	15	3000	150	**WEPM5-160M-11-3000**	IE5	19.5	95	53.8	81	83.3
15	20	3000	150	**WEPM5-160M-15-3000**	IE5	26.5	95.3	74.3	81	93.2
18.5	25	3000	150	**WEPM5-160L-18.5-3000**	IE5	33	95.6	78.4	81	100
22	30	3000	150	**WEPM5-180M-22-3000**	IE5	39	95.9	121	83	122
30	41	3000	150	**WEPM5-200L-30-3000**	IE5	53	96.1	218	84	189
37	50	3000	150	**WEPM5-200L-37-3000**	IE5	65	96.3	256	84	200
45	61	3000	150	**WEPM5-225M-45-3000**	IE5	82	96.4	425	86	246
55	75	3000	150	**WEPM5-250M-55-3000**	IE5	92	96.5	639	89	333
75	102	3000	150	**WEPM5-280S-75-3000**	IE5	127	96.6	873	91	422
90	123	3000	150	**WEPM5-280M-90-3000**	IE5	152	96.7	1019	91	459
110	150	3000	150	**WEPM5-315S-110-3000**	IE5	190	96.8	1463	92	765
132	180	3000	150	**WEPM5-315S-132-3000**	IE5	228	96.9	1647	92	787
160	218	3000	150	**WEPM5-315L-160-3000**	IE5	275	97	1894	92	852
200	272	3000	150	**WEPM5-315L-200-3000**	IE5	342	97.2	2140	92	879

Performance Data

3000min^{-1}

Aluminium - Smaller Frame Size

P_N kW	P_N hp	n min^{-1}	Hz	Type		I_N 400V A (full load current at rated voltage)	η 1.0 P_N (efficiency)	J kgm^2 (rotor inertia wK^2)	L_{PA} dB(A) (mean sound pressure level @ 1m on no load)	kg (weight)
0.75	1	3000	100	**WEPMA5-63M-0.75-3000**	IE5	1.35	88.6	0.53	62	5.4
1.1	1.5	3000	100	**WEPMA5-63M-1.1-3000**	IE5	2	89.8	0.72	62	6.4
1.5	2	3000	100	**WEPMA5-71M-1.5-3000**	IE5	2.64	90.9	1.38	62	9.5
2.2	3	3000	100	**WEPMA5-71M-2.2-3000**	IE5	3.88	91.8	1.53	62	10.2
3	4	3000	100	**WEPMA5-80M-3-3000**	IE5	5.4	92.6	3.84	62	16.3
4	5.5	3000	100	**WEPMA5-90L-4-3000**	IE5	7.2	93.3	4.16	67	20.5
5.5	7.5	3000	100	**WEPMA5-90L-5.5-3000**	IE5	9.8	94	4.85	67	22.6
7.5	10	3000	100	**WEPMA5-100L-7.5-3000**	IE5	13.5	94.5	11.1	74	26.1
11	15	3000	100	**WEPMA5-100L-11-3000**	IE5	20	95	13.9	74	30.5
15	20	3000	100	**WEPMA5-112M-15-3000**	IE5	26	95.3	22.2	77	44.1
18.5	25	3000	100	**WEPMA5-112M-18.5-3000**	IE5	32.2	95.6	22.2	77	44.1
22	30	3000	150	**WEPMA5-132M-22-3000**	IE5	38.1	95.9	98.8	79	46.9
30	40	3000	150	**WEPMA5-160M-30-3000**	IE5	52.2	96.1	116.5	81	71.9
37	50	3000	150	**WEPMA5-160M-37-3000**	IE5	64.5	96.3	134.4	81	79.3
45	60	3000	150	**WEPMA5-160L-45-3000**	IE5	78.5	96.4	170.2	81	93.2

Cast Iron - Smaller Frame Size

P_N kW	P_N hp	n min^{-1}	Hz	Type		I_N 400V A (full load current at rated voltage)	η 1.0 P_N (efficiency)	J kgm^2 (rotor inertia wK^2)	L_{PA} dB(A) (mean sound pressure level @ 1m on no load)	kg (weight)
3	4	3000	100	**WEPM5-80M-1.1-3000**	IE5	5.4	92.6	3.84	62	19.6
4	5.5	3000	100	**WEPM5-90S-1.5-3000**	IE5	7.2	93.3	4.16	67	25.8
5.5	7.5	3000	100	**WEPM5-90L-2.2-3000**	IE5	9.8	94	4.85	67	27.9
7.5	10	3000	100	**WEPM5-100L-3-3000**	IE5	13.5	94.5	11.1	74	35.5
11	15	3000	100	**WEPM5-112M-4-3000**	IE5	20	95	13.9	74	39.8
15	20	3000	100	**WEPM5-132S-5.5-3000**	IE5	26	95.3	22.2	77	51.7
18.5	25	3000	100	**WEPM5-132S-7.5-3000**	IE5	32.2	95.6	22.2	77	51.7
22	30	3000	150	**WEPM5-160M-11-3000**	IE5	38.1	95.9	98.8	79	60.6
30	40	3000	150	**WEPM5-160M-15-3000**	IE5	52.2	96.1	116.5	81	100.3
37	50	3000	150	**WEPM5-160L-18.5-3000**	IE5	64.5	96.3	134.4	81	107.7
45	60	3000	150	**WEPM5-180M-22-3000**	IE5	78.5	96.4	170.2	81	125.2
55	75	3000	150	**WEPM5-200L-30-3000**	IE5	93	96.5	214.2	83	150.1
75	100	3000	150	**WEPM5-200L-37-3000**	IE5	132	96.6	307.9	83	183.6
90	125	3000	150	**WEPM5-225M-45-3000**	IE5	155	96.7	458.4	84	235.2
110	150	3000	150	**WEPM5-250M-55-3000**	IE5	188	96.8	523.9	84	250.8
132	175	3000	150	**WEPM5-280S-75-3000**	IE5	222	96.9	992.4	86	316.2
160	220	3000	150	**WEPM5-280M-90-3000**	IE5	270	97	1748.8	89	437.7
185	250	3000	150	**WEPM5-315S-110-3000**	IE5	311	97	1964.3	91	538.7
200	270	3000	150	**WEPM5-315S-132-3000**	IE5	335	97.2	1964.3	91	538.7
220	300	3000	150	**WEPM5-315L-160-3000**	IE5	366	97.2	2619	91	631.3
250	340	3000	150	**WEPM5-315L-200-3000**	IE5	418	97.2	2619	91	631.3
280	380	3000	150	**WEPM5-315S-280-3000**	IE5	495	97.2	3291.8	92	886.9
315	430	3000	150	**WEPM5-315S-315-3000**	IE5	555	97.2	3803.7	92	935.8

Performance Data

1500min^{-1}

Aluminium

P_N kW	P_N hp	n min^{-1}	Hz	Type		full load current at rated voltage I_N 400V A	efficiency η 1.0 P_N	rotor inertia wK^2 J kgm^2	mean sound pressure level (ā 1m on no load L_{PA} dB(A)	weight kg
0.12	0.17	1500	50	**WEPMA5-63M-0.12-1500**	IE5	0.22	74.3	1.31	55	3.9
0.18	0.25	1500	50	**WEPMA5-63M-0.18-1500**	IE5	0.32	78.7	1.57	55	4.2
0.25	0.35	1500	50	**WEPMA5-71M-0.25-1500**	IE5	0.48	81.5	0.53	55	6
0.37	0.5	1500	50	**WEPMA5-71M-0.37-1500**	IE5	0.71	84.3	0.86	55	7.7
0.55	0.75	1500	50	**WEPMA5-80M-0.55-1500**	IE5	1.0	86.7	1.18	56	10.6
0.75	1	1500	50	**WEPMA5-80M-0.75-1500**	IE5	1.3	88.2	1.87	56	11.4
1.1	1.5	1500	50	**WEPMA5-90S-1.1-1500**	IE5	2.2	89.5	2.23	59	13.3
1.5	2	1500	50	**WEPMA5-90L-1.5-1500**	IE5	2.9	90.4	2.99	59	14.9
2.2	3	1500	50	**WEPMA5-100L-2.2-1500**	IE5	4.1	91.4	7.97	64	22.5
3	4	1500	50	**WEPMA5-100L-3-1500**	IE5	5.5	92.1	10.4	64	26.9
4	5.5	1500	50	**WEPMA5-112M-4-1500**	IE5	7.4	92.8	14.4	65	33.3
5.5	7.5	1500	75	**WEPMA5-132S-5.5-1500**	IE5	10.2	93.4	59.9	71	37.7
7.5	10	1500	75	**WEPMA5-132M-7.5-1500**	IE5	13.5	94	78.9	71	47.5
11	15	1500	75	**WEPMA5-160M-11-1500**	IE5	19.1	94.6	84.6	73	65.2
15	20	1500	75	**WEPMA5-160L-15-1500**	IE5	26	95.1	109	73	78.4

Cast Iron

P_N kW	P_N hp	n min^{-1}	Hz	Type		full load current at rated voltage I_N 400V A	efficiency η 1.0 P_N	rotor inertia wK^2 J kgm^2	mean sound pressure level (ā 1m on no load L_{PA} dB(A)	weight kg
0.55	0.75	1500	50	**WEPM5-80M-0.55-1500**	IE5	1.0	86.7	1.18	56	16.3
0.75	1	1500	50	**WEPM5-80M-0.75-1500**	IE5	1.3	88.2	1.87	56	17.2
1.1	1.5	1500	50	**WEPM5-90S-1.1-1500**	IE5	2.2	89.5	2.23	59	20.7
1.5	2	1500	50	**WEPM5-90L-1.5-1500**	IE5	2.9	90.4	2.99	59	23.1
2.2	3	1500	50	**WEPM5-100L-2.2-1500**	IE5	4.1	91.4	7.97	64	34.2
3	4	1500	50	**WEPM5-100L-3-1500**	IE5	5.5	92.1	10.4	64	38.6
4	5.5	1500	50	**WEPM5-112M-4-1500**	IE5	7.4	92.8	14.4	65	47
5.5	7.5	1500	75	**WEPM5-132S-5.5-1500**	IE5	10.2	93.4	59.9	71	56.7
7.5	10	1500	75	**WEPM5-132M-7.5-1500**	IE5	13.5	94	78.9	71	68.4
11	15	1500	75	**WEPM5-160M-11-1500**	IE5	19.1	94.6	84.6	73	98.1
15	20	1500	75	**WEPM5-160L-15-1500**	IE5	26	95.1	109	73	115
18.5	25	1500	100	**WEPM5-180M-18.5-1500**	IE5	31.5	95.3	153	76	130
22	30	1500	100	**WEPM5-180L-22-1500**	IE5	38	95.5	182	76	146
30	41	1500	100	**WEPM5-200L-30-1500**	IE5	50.5	95.9	331	76	219
37	50	1500	75	**WEPM5-225S-37-1500**	IE5	63	96.1	545	78	264
45	61	1500	75	**WEPM5-225M-45-1500**	IE5	76	96.3	724	78	302
55	75	1500	75	**WEPM5-250M-55-1500**	IE5	93	96.5	996	79	654
75	102	1500	75	**WEPM5-280S-75-1500**	IE5	127	96.7	1572	80	485
90	123	1500	75	**WEPM5-280M-90-1500**	IE5	151	96.9	1787	80	575
110	150	1500	75	**WEPM5-315S-110-1500**	IE5	197	97	2509	88	890
132	180	1500	75	**WEPM5-315M-132-1500**	IE5	240	97.1	3002	88	983
160	218	1500	75	**WEPM5-315L-160-1500**	IE5	286	97.2	3864	88	1083
200	272	1500	75	**WEPM5-315L-200-1500**	IE5	356	97.4	4480	88	1154

Performance Data

1500min^{-1}

Aluminium - Smaller Frame Size

P_N kW	P_N hp	n min^{-1}	Hz	Type		I_N 400V A (full load current at rated voltage)	η 1.0 P_N (efficiency)	J kgm^2 (rotor inertia wK^2)	L_{PA} dB(A) (mean sound pressure level @ 1m on no load)	kg (weight)
0.4	0.55	1500	50	**WEPMA5-63M-0.4-1500**	IE5	0.76	84.8	0.58	55	5.6
0.55	0.75	1500	50	**WEPMA5-63M-0.55-1500**	IE5	1.03	86.7	0.72	55	6.4
0.75	1	1500	50	**WEPMA5-71M-0.75-1500**	IE5	1.38	88.2	1.38	55	9.5
1.1	1.5	1500	50	**WEPMA5-71M-1.1-1500**	IE5	2.02	89.5	1.53	55	10.2
1.5	2	1500	50	**WEPMA5-80M-1.5-1500**	IE5	2.7	90.4	3.84	56	16.3
2.2	3	1500	50	**WEPMA5-90L-2.2-1500**	IE5	3.97	91.4	4.85	59	22.6
3	4	1500	50	**WEPMA5-90L-3-1500**	IE5	5.6	92.1	4.85	59	22.6
4	5.5	1500	50	**WEPMA5-100L-4-1500**	IE5	7.1	92.8	11.1	64	26.2
5.5	7.5	1500	50	**WEPMA5-100L-5.5-1500**	IE5	9.7	93.4	14.8	64	32
7.5	10	1500	50	**WEPMA5-112M-7.5-1500**	IE5	13.4	94	22.2	65	44.1
11	15	1500	75	**WEPMA5-132M-11-1500**	IE5	19.2	94.6	105.9	71	49
15	20	1500	75	**WEPMA5-160M-15-1500**	IE5	26.8	95.1	107.5	73	68.4
18.5	25	1500	75	**WEPMA5-160M-18.5-1500**	IE5	33.3	95.3	122.4	73	73.2
22	30	1500	75	**WEPMA5-160M-22-1500**	IE5	39.8	95.5	134.4	73	78.3

Cast Iron - Smaller Frame Size

P_N kW	P_N hp	n min^{-1}	Hz	Type		I_N 400V A (full load current at rated voltage)	η 1.0 P_N (efficiency)	J kgm^2 (rotor inertia wK^2)	L_{PA} dB(A) (mean sound pressure level @ 1m on no load)	kg (weight)
1.5	2	1500	50	**WEPM5-80M-1.5-1500**	IE5	2.7	90.4	3.84	56	19.6
2.2	3	1500	50	**WEPM5-90L-2.2-1500**	IE5	4	91.4	4.85	59	27.9
3	4	1500	50	**WEPM5-90L-3-1500**	IE5	5.6	92.1	4.85	59	27.9
4	5.5	1500	50	**WEPM5-100L-4-1500**	IE5	7.1	92.8	11.1	64	35.6
5.5	7.5	1500	50	**WEPM5-100L-5.5-1500**	IE5	9.7	93.4	14.8	64	41.3
7.5	10	1500	50	**WEPM5-112M-7.5-1500**	IE5	13.4	94	22.2	65	51.7
11	15	1500	75	**WEPM5-132M-11-1500**	IE5	19.2	94.6	105.9	71	62.7
15	20	1500	75	**WEPM5-160M-15-1500**	IE5	26.8	95.1	107.5	73	73.2
18.5	25	1500	75	**WEPM5-160M-18.5-1500**	IE5	33.3	95.3	122.4	73	96.9
22	30	1500	75	**WEPM5-160M-22-1500**	IE5	39.8	95.5	134.4	73	106.7
30	40	1500	100	**WEPM5-180M-30-1500**	IE5	52	95.9	244.8	76	143.8
37	50	1500	100	**WEPM5-180M-37-1500**	IE5	66	96.1	267.8	76	150.4
45	60	1500	100	**WEPM5-180L-45-1500**	IE5	78	96.3	351.9	76	177.1
55	75	1500	75	**WEPM5-200L-55-1500**	IE5	98	96.5	491.2	76	243
75	100	1500	75	**WEPM5-225M-75-1500**	IE5	129	96.7	972.1	78	314.8
90	125	1500	75	**WEPM5-250M-90-1500**	IE5	154	96.9	1513.4	79	408.3
110	150	1500	75	**WEPM5-280S-110-1500**	IE5	188	97	2182.5	8	577.6
132	175	1500	75	**WEPM5-280S-132-1500**	IE5	225	97.1	2531.7	80	619.1
160	220	1500	75	**WEPM5-280M-160-1500**	IE5	285	97.2	2880.9	80	667.8
185	250	1500	75	**WEPM5-315M-185-1500**	IE5	330	97.4	4901.1	88	1076.5
200	270	1500	75	**WEPM5-315M-200-1500**	IE5	356	97.4	5486.3	88	1132.1
220	297	1500	75	**WEPM5-315L-220-1500**	IE5	392	97.4	5486.3	88	1132.1
250	340	1500	75	**WEPM5-315L-250-1500**	IE5	450	97.4	6217.8	88	1211.9
280	380	1500	75	**WEPM5-315L-280-1500**	IE5	500	97.4	6217.8	88	1211.9
315	430	1500	75	**WEPM5-315L-315-1500**	IE5	557	97.4	7315	88	1316.7

Performance Data

1000min^{-1}

Aluminium

P_N kW	P_N hp	n min^{-1}	Hz	Type		full load current at rated voltage I_N 400V A	efficiency η 1.0 P_N	rotor inertia J kgm^2	mean sound pressure level (@ 1m on no load L_{PA} dB(A)	weight kg
0.18	0.25	1000	33.3	**WEPMA5-71M-0.18-1000**	IE5	0.36	74.6	1.31	55	3.9
0.25	0.35	1000	33.3	**WEPMA5-71M-0.25-1000**	IE5	0.5	78.1	1.57	55	4.2
0.37	0.5	1000	33.3	**WEPMA5-80M-0.37-1000**	IE5	0.7	81.6	0.53	55	6
0.55	0.75	1000	33.3	**WEPMA5-80M-0.55-1000**	IE5	1.1	85.9	0.86	55	7.7
0.75	1	1000	33.3	**WEPMA5-90S-0.75-1000**	IE5	1.5	87.4	1.18	56	10.6
1.1	1.5	1000	33.3	**WEPMA5-90L-1.1-1000**	IE5	2.2	88.7	1.87	56	11.4
1.5	2	1000	33.3	**WEPMA5-100L-1.5-1000**	IE5	2.9	89.9	2.23	59	13.3
2.2	3	1000	33.3	**WEPMA5-112M-2.2-1000**	IE5	4.1	90.9	2.99	59	14.9
3	4	1000	33.3	**WEPMA5-132S-3-1000**	IE5	5.5	91.8	7.97	64	22.5
4	5.5	1000	50	**WEPMA5-132M-4-1000**	IE5	7.3	92.7	10.4	64	26.9
5.5	7.5	1000	50	**WEPMA5-132M-5.5-1000**	IE5	10	93.4	14.4	65	33.3
7.5	10	1000	50	**WEPMA5-160M-7.5-1000**	IE5	13.5	94	59.9	71	37.7
11	15	1000	50	**WEPMA5-160L-11-1000**	IE5	19.8	94.5	78.9	71	47.5

Cast Iron

P_N kW	P_N hp	n min^{-1}	Hz	Type		full load current at rated voltage I_N 400V A	efficiency η 1.0 P_N	rotor inertia J kgm^2	mean sound pressure level (@ 1m on no load L_{PA} dB(A)	weight kg
0.37	0.5	1000	33.3	**WEPM5-80M-0.37-1000**	IE5	0.7	81.6	1	54	16.3
0.55	0.75	1000	33.3	**WEPM5-80M-0.55-1000**	IE5	1.1	85.9	2	54	17.2
0.75	1	1000	33.3	**WEPM5-90S-0.75-1000**	IE5	1.5	87.4	2	57	21.2
1.1	1.5	1000	33.3	**WEPM5-90L-1.1-1000**	IE5	2.2	88.7	3	57	24.6
1.5	2	1000	33.3	**WEPM5-100L-1.5-1000**	IE5	2.9	89.9	9	61	35.7
2.2	3	1000	33.3	**WEPM5-112M-2.2-1000**	IE5	4.1	90.9	13	65	44.7
3	4	1000	33.3	**WEPM5-132S-3-1000**	IE5	5.5	91.8	56	69	54.7
4	5.5	1000	50	**WEPM5-132M-4-1000**	IE5	7.3	92.7	70	69	64.0
5.5	7.5	1000	50	**WEPM5-132M-5.5-1000**	IE5	10.0	93.4	88	69	72.5
7.5	10	1000	50	**WEPM5-160M-7.5-1000**	IE5	13.5	94	85	73	97.9
11	15	1000	50	**WEPM5-160L-11-1000**	IE5	19.8	94.5	116	73	118
15	20	1000	66.7	**WEPM5-180L-15-1000**	IE5	26.5	94.9	183	73	146
18.5	25	1000	66.7	**WEPM5-200L-18.5-1000**	IE5	33	95.3	341	73	222
22	30	1000	66.7	**WEPM5-200L-22-1000**	IE5	38	95.6	444	73	251
30	41	1000	66.7	**WEPM5-225M-30-1000**	IE5	54	95.8	654	74	290
37	50	1000	66.7	**WEPM5-250M-37-1000**	IE5	64	96	1038	76	394
45	61	1000	66.7	**WEPM5-280S-45-1000**	IE5	78	96.2	1292	78	484
55	75	1000	66.7	**WEPM5-280M-55-1000**	IE5	96	96.3	1508	78	532
75	102	1000	66.7	**WEPM5-315L-75-1000**	IE5	131	96.4	2140	83	835
90	123	1000	66.7	**WEPM5-315M-90-1000**	IE5	156	96.5	2509	83	912
110	150	1000	66.7	**WEPM5-315L-110-1000**	IE5	197	96.6	3002	83	966
132	180	1000	66.7	**WEPM5-315L-132-1000**	IE5	235	96.8	3618	83	1032

Performance Data

1000min^{-1}

Aluminium - Smaller Frame Size

P_N kW	P_N hp	n min^{-1}	Hz	Type		full load current at rated voltage I_N 400V A	efficiency η 1.0 P_N	rotor inertia J kgm^2	mean sound pressure level L_{pA} dB(A) 1m on no load	weight kg
0.25	0.35	1000	33.3	**WEPMA5-63M-0.25-1000**	IE5	0.53	78.1	0.48	52	5.1
0.37	0.5	1000	33.3	**WEPMA5-63M-0.37-1000**	IE5	0.75	81.6	0.72	52	6.4
0.4	0.55	1000	33.3	**WEPMA5-71M-0.4-1000**	IE5	0.79	82.2	1.07	52	8.1
0.55	0.75	1000	33.3	**WEPMA5-71M-0.55-1000**	IE5	1.05	85.9	1.53	52	10.1
0.75	1	1000	33.3	**WEPMA5-80M-0.75-1000**	IE5	1.35	87.4	3.84	54	16.3
1.1	1.5	1000	33.3	**WEPMA5-90L-1.1-1000**	IE5	2.03	88.7	4.51	57	21.5
1.5	2	1000	33.3	**WEPMA5-100L-1.5-1000**	IE5	2.7	89.9	9.73	61	23.9
2.2	3	1000	33.3	**WEPMA5-100L-2.2-1000**	IE5	4	90.9	13	61	29.2
3	4	1000	33.3	**WEPMA5-112M-3-1000**	IE5	5.35	91.8	19.6	65	40.9
4	5.5	1000	50	**WEPMA5-132S-4-1000**	IE5	7	92.7	84.7	69	41.3
5.5	7.5	1000	50	**WEPMA5-132M-5.5-1000**	IE5	9.6	93.4	112.9	69	50.9
7.5	10	1000	50	**WEPMA5-132M-7.5-1000**	IE5	12.9	94	134.1	69	57.5
11	15	1000	50	**WEPMA5-160M-11-1000**	IE5	19.7	94.5	143.3	73	81.7
15	20	1000	50	**WEPMA5-160L-15-1000**	IE5	26.5	94.9	192.6	73	101.3

Cast Iron - Smaller Frame Size

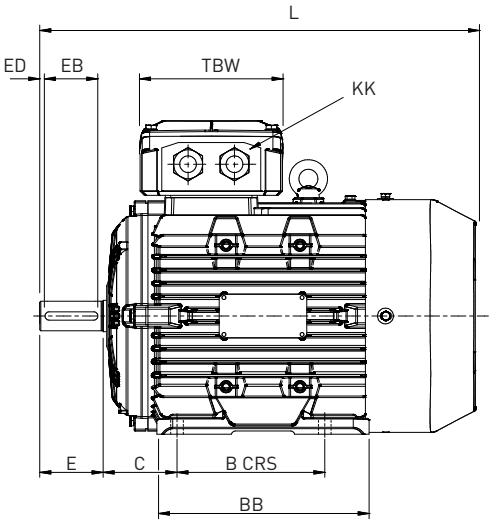
P_N kW	P_N hp	n min^{-1}	Hz	Type		full load current at rated voltage I_N 400V A	efficiency η 1.0 P_N	rotor inertia J kgm^2	mean sound pressure level L_{pA} dB(A) 1m on no load	weight kg
0.75	1	1000	33.3	**WEPM5-80M-0.75-1000**	IE5	1.35	87.4	3.84	54	19.5
1.1	1.5	1000	33.3	**WEPM5-90L-1.1-1000**	IE5	2.03	88.7	4.51	57	26.8
1.5	2	1000	33.3	**WEPM5-100L-1.5-1000**	IE5	2.7	89.9	9.73	61	33.2
2.2	3	1000	33.3	**WEPM5-100L-2.2-1000**	IE5	4	90.9	13	61	38.5
3	4	1000	33.3	**WEPM5-112M-3-1000**	IE5	5.35	91.8	19.6	65	48.5
4	5.5	1000	33.3	**WEPM5-132S-4-1000**	IE5	7	92.7	84.7	69	53.1
5.5	7.5	1000	50	**WEPM5-132M-5.5-1000**	IE5	9.6	93.4	112.9	69	64.6
7.5	10	1000	50	**WEPM5-132M-7.5-1000**	IE5	12.9	94	134.1	69	71.2
11	15	1000	50	**WEPM5-160M-11-1000**	IE5	19.7	94.5	143.3	73	110.1
15	20	1000	50	**WEPM5-160L-15-1000**	IE5	26.5	94.9	192.6	73	133.2
18.5	25	1000	66.7	**WEPM5-180M-18.5-1000**	IE5	32.5	95.3	275.4	73	151.7
22	30	1000	66.7	**WEPM5-180L-22-1000**	IE5	38.5	95.6	321.3	73	169.1
30	40	1000	66.7	**WEPM5-180L-30-1000**	IE5	51.5	95.8	367.2	73	181.1
37	50	1000	66.7	**WEPM5-200L-37-1000**	IE5	64	96	523.9	73	250
45	60	1000	66.7	**WEPM5-225M-45-1000**	IE5	78	96.2	1000.2	74	321.7
55	75	1000	50	**WEPM5-250M-55-1000**	IE5	97	96.3	1311.6	76	383.9
75	100	1000	50	**WEPM5-250M-75-1000**	IE5	132	96.4	1647.9	76	426.2
90	125	1000	66.7	**WEPM5-280S-90-1000**	IE5	159	96.5	1938	78	545.9
110	150	1000	66.7	**WEPM5-280S-110-1000**	IE5	192	96.6	2341.8	78	593.8
132	175	1000	66.7	**WEPM5-280M-132-1000**	IE5	226	96.8	2664.8	78	660.5
160	220	1000	66.7	**WEPM5-315M-160-1000**	IE5	288	96.9	3682.6	83	973.5
185	250	1000	66.7	**WEPM5-315M-185-1000**	IE5	334	96.9	4134.9	83	1017.4
200	270	1000	66.7	**WEPM5-315L-200-1000**	IE5	362	97	4716.3	83	1084.3
220	300	1000	66.7	**WEPM5-315L-220-1000**	IE5	395	97	5556.2	83	1167.8
250	340	1000	66.7	**WEPM5-315L-250-1000**	IE5	446	97	5556.2	83	1167.8

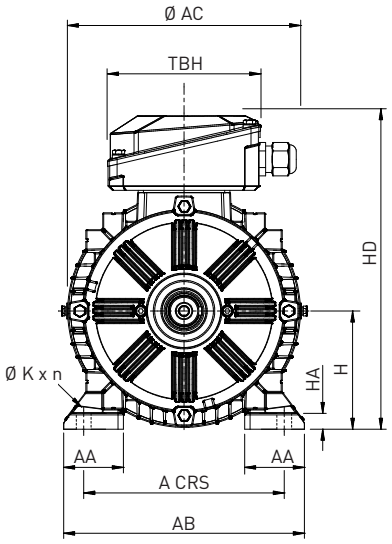
Dimensions - IEC Specification

Foot, flange and face mounting - Frame sizes 63 - 160 Aluminium

IM B3
IM 1001

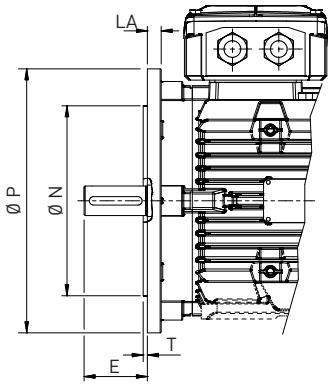
Mounting options

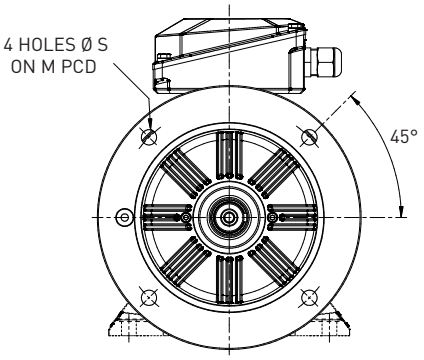




IM B5 / IM B35
IM 3001 / IM 2001

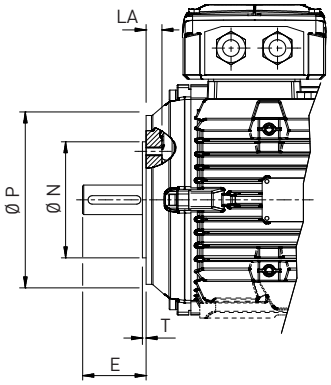
Mounting options

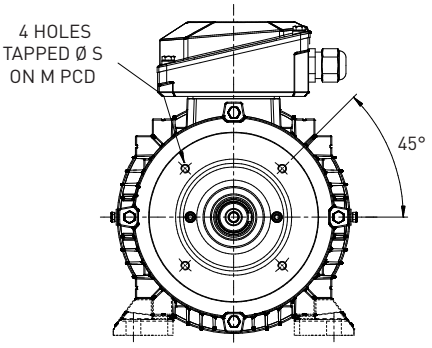




IM B14 / IM B34
IM 3601 / IM 2101

Mounting options





Dimensions - IEC Specification

Foot, flange and face mounting - Frame Sizes 63 - 160 Aluminium

General Dimensions - WEPMA Aluminium

Type	A	B	C	H	K x n	IE5 L	IE5 kW + L	IE4 L	AA	AB	Ø AC	BB	HA	HD	terminal box TBW	terminal box TBH	terminal box KK
WEPMA-63M	100	80	49	63	7 x 4	232	-	233	30	130	130	104	8	180	90	96	1 x CM25
WEPMA-71M	112	90	45	71	7 x 4	280	-	250	32	144	147	139	8	210	90	96	1 x CM25
WEPMA-80M	125	100	50	80	10 x 4	315	336	315	38.5	156	160	125	10	211	90	96	1 x CM20
WEPMA-90S	140	100	56	90	10 x 4	329	-	329	39.5	172	177	150	13	244	102	110	1 x CM25
WEPMA-90L	140	125	56	90	10 x 4	351	370	351	39.5	172	177	175	13	244	102	110	1 x CM25
WEPMA-100L	160	140	63	100	12 x 4	401	-	401	46.5	200	208	198	13	268	102	110	1 x CM25
WEPMA-112M	190	140	70	112	12 x 4	417	465	417	56.5	228	226	201	15	305	136	146	2 x CM32
WEPMA-132S	216	140	89	132	12 x 4	450	-	450	60	262	260	230	18	345	136	146	2 x CM32
WEPMA-132M	216	178	89	132	12 x 4	490	-	490	60	262	260	250	18	345	136	146	2 x CM32
WEPMA-160M	254	210	108	160	14.5 x 4	620	-	620	65	314	320	280	20	422	171	181	2 x CM40
WEPMA-160L	254	254	108	160	14.5 x 4	665	-	665	65	314	320	324	20	422	171	181	2 x CM40

D Flange

Type	IM B5 flange mounting M	N	P	S	T	LA
WEPMA-63	115	95	140	10	3	9
WEPMA-71	130	110	160	10	3.5	9.5
WEPMA-80	165	130	200	12	3.5	10
WEPMA-90	165	130	200	12	3.5	12
WEPMA-100	215	180	250	14.5	4	13
WEPMA-112	215	180	250	14.5	4	13
WEPMA-132	265	230	300	14.5	4	16
WEPMA-160	300	250	350	18.5	5	16.5

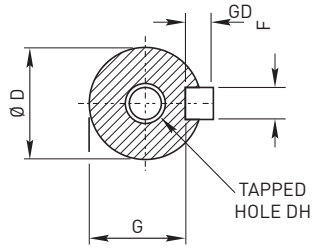
C Face

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

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

Shaft

Type	All poles Ø D	E	F	G	GD	EB	ED	DH
WEPMA-63	11	23	4	8.5	4	18	2.5	M4 x 10
WEPMA-71	14	30	5	11	5	25	2.5	M5 x 12.5
WEPMA-80	19	40	6	15.5	6	30	5	M6 x 15
WEPMA-90	24	50	8	20	7	40	5	M8 x 22
WEPMA-100	28	60	8	24	7	45	7.5	M10 x 22
WEPMA-112	28	60	8	24	7	45	7.5	M10 x 28
WEPMA-132	38	80	10	33	8	60	10	M12 x 28
WEPMA-160	42	110	12	37	8	90	10	M16 x 36



Shaft dimensions

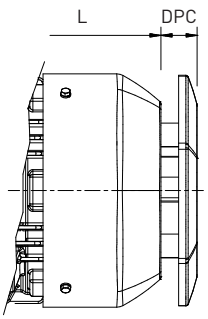
Drip Proof Canopy

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 WEPMA motors must be fitted with a drip proof canopy.

Overall length + DPC

Type	L + DPC
WEPMA-63	'L' + 30mm
WEPMA-71	'L' + 45mm
WEPMA-80	'L' + 35mm
WEPMA-90	'L' + 45mm
WEPMA-100	'L' + 45mm
WEPMA-112	'L' + 50mm
WEPMA-132	-
WEPMA-160	-

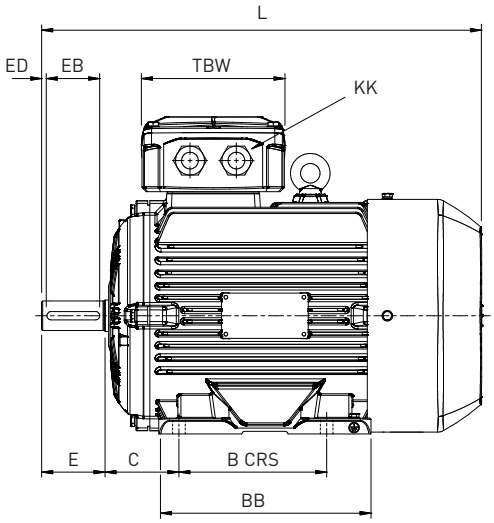


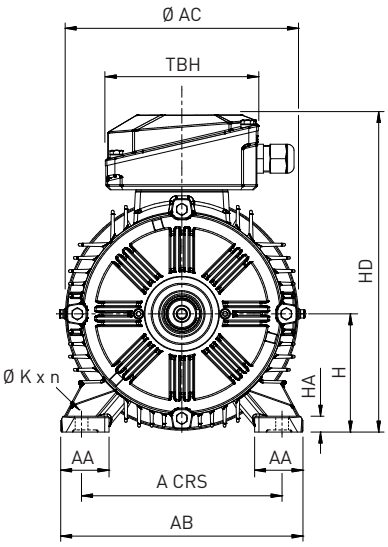
Dimensions - IEC Specification

Foot, flange and face mounting - Frame sizes 80 - 315 Cast Iron

IM B3
IM 1001

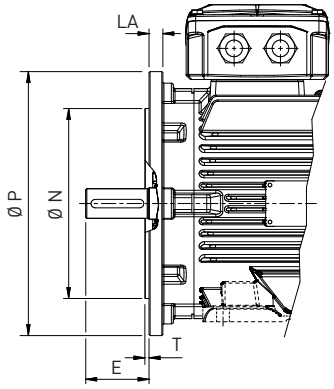
Mounting options

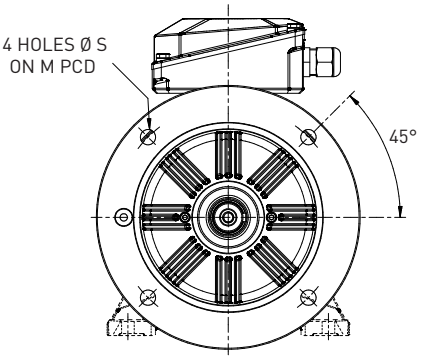




IM B5 / IM B35
IM 3001 / IM 2001

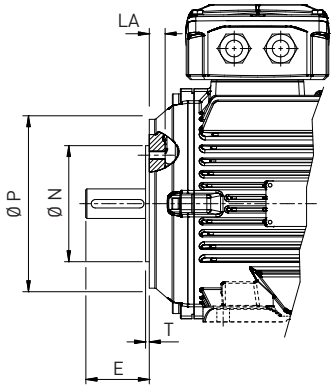
Mounting options

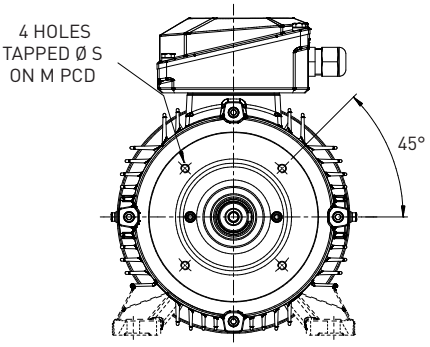




IM B14 / IM B34
IM 3601 / IM 2101

Mounting options





Dimensions - IEC Specification

Foot, flange and face mounting - Frame sizes 80 - 315 Cast Iron

General Dimensions - WEPM Cast Iron

Type	Speed (r/min)	A	B	C	H	K x n	IE5 L	IE5 kW + L	IE4 L	AA	AB	Ø AC	BB	HA	HD	terminal box TBW	terminal box TBH	terminal box KK
WEPM-80M	1000-3000	125	100	50	80	10 x 4	299	320	299	32	157	163	146	10	226	90	96	1 x CM20
WEPM-90S	1000-3000	140	100	56	90	10 x 4	329	-	329	37	172	177	153	12	244	102	110	1 x CM25
WEPM-90L	1000-3000	140	125	56	90	10 x 4	351	370	351	37	172	177	175	12	244	102	110	1 x CM25
WEPM-100L	1000-3000	160	140	63	100	12 x 4	401	-	401	45	200	208	198	15	268	102	110	1 x CM25
WEPM-112M	1000-3000	190	140	70	112	12 x 4	417	465	417	45	228	226	201	15	305	136	146	2 x CM32
WEPM-132S	1000-3000	216	140	89	132	12 x 4	454	-	454	56.5	262	252	184	18	340	136	146	2 x CM32
WEPM-132M	1000-1500	216	178	89	132	12 x 4	492	-	492	56.5	262	252	222	18	340	136	146	2 x CM32
WEPM-160M	1000-3000	254	210	108	160	14.5 x 4	590	-	590	65	314	318	280	20	421	171	181	2 x CM40
WEPM-160L	1000-3000	254	254	108	160	14.5 x 4	634	-	634	65	314	318	324	20	421	171	181	2 x CM40
WEPM-180M	1500-3000	279	241	121	180	14.5 x 4	655	-	655	68	349	360	297	22	463	171	181	2 x CM40
WEPM-180L	1000-1500	279	279	121	180	14.5 x 4	693	-	693	68	349	360	335	22	463	171	181	2 x CM40
WEPM-200L	1000-3000	318	305	133	200	18.5 x 4	796	320	796	84	388	396	380	25	526	220	230	2 x CM50
WEPM-225S	1500	356	286	149	225	18.5 x 4	846	-	846	84	431	442	368	28	570	220	230	2 x CM50
WEPM-225M	3000	356	311	149	225	18.5 x 4	841	370	871	84	431	442	368	28	570	220	230	2 x CM50
WEPM-225M	1000-1500	356	311	149	225	18.5 x 4	871	-	871	84	431	442	368	28	570	220	230	2 x CM50
WEPM-250M	3000	406	349	168	250	24 x 4	929	465	929	80	484	488	421	30	671	270	280	2 x CM63
WEPM-250M	1000-1500	406	349	168	250	24 x 4	929	-	929	80	484	488	421	30	671	270	280	2 x CM63
WEPM-280S	3000	457	368	190	280	24 x 4	1007	-	1007	84	542	547	460	35	728	270	280	2 x CM63
WEPM-280S	1000-1500	457	368	190	280	24 x 4	1007	-	1007	84	542	547	460	35	728	270	280	2 x CM63
WEPM-280M	3000	457	419	190	280	24 x 4	1055	-	1055	84	542	547	515	35	728	270	280	2 x CM63
WEPM-280M	1000-1500	457	419	190	280	24 x 4	1055	-	1055	84	542	547	515	35	728	270	280	2 x CM63
WEPM-315S	3000	508	406	216	315	28 x 4	1190	-	1220	115	628	631	540	40	822	312	329	2 x CM72
WEPM-315S	1000-1500	508	406	216	315	28 x 4	1220	-	1220	115	628	631	540	40	822	312	329	2 x CM72
WEPM-315M	3000	508	457	216	315	28 x 4	1290	-	1320	115	628	631	640	40	822	312	329	2 x CM72
WEPM-315M	1000-1500	508	457	216	315	28 x 4	1320	-	1320	115	628	631	640	40	822	312	329	2 x CM72
WEPM-315L	3000	508	508	216	315	28 x 4	1290	-	-	115	628	631	640	40	822	312	329	2 x CM72
WEPM-315L	1000-1500	508	508	216	315	28 x 4	1320	-	-	115	628	631	640	40	822	312	329	2 x CM72

D Flange

Type	IM B5 flange mounting M	N	P	S	T	LA
WEPM-80M	165	130	200	12	3.5	12
WEPM-90S	165	130	200	12	3.5	12
WEPM-90L	165	130	200	12	3.5	12
WEPM-100L	215	180	250	14.5	4	13
WEPM-112M	215	180	250	14.5	4	13
WEPM-132S	265	230	300	14.5	4	16
WEPM-132M	265	230	300	14.5	4	16
WEPM-160M	300	250	350	18.5	5	16
WEPM-160L	300	250	350	18.5	5	16
WEPM-180M	300	250	350	18.5	5	16.5
WEPM-180L	300	250	350	18.5	5	16.5
WEPM-200L	350	300	400	18.5	5	17
WEPM-225S	400	350	450	18.5	5	20
WEPM-225M	400	350	450	18.5	5	20
WEPM-250M	500	450	550	18.5	5	22
WEPM-280S	500	450	550	18.5	5	22
WEPM-280M	500	450	550	18.5	5	22
WEPM-315S	600	550	660	24	6	22
WEPM-315M	600	550	660	24	6	22
WEPM-315L	600	550	660	24	6	22

C Face

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

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

Shaft

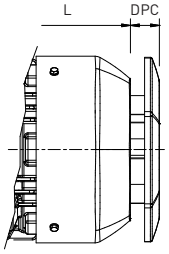
Type	All poles r/min^{-1}	Ø D	E	F	G	GD	EB	ED	DH
WEPM-80	1000-3000	19	40	6	15.5	6	30	5	M6 x 20
WEPM-90	1000-3000	24	50	8	20	7	40	5	M8 x 22
WEPM-100	1000-3000	28	60	8	24	7	45	7.5	M10 x 22
WEPM-112	1000-3000	28	60	8	24	7	45	7.5	M10 x 28
WEPM-132	1000-3000	38	80	10	33	8	60	10	M12 x 28
WEPM-160	1000-3000	42	110	12	37	8	90	10	M16 x 36
WEPM-180	1000-3000	48	110	14	42.5	9	90	10	M16 x 36
WEPM-200	1000-3000	55	110	16	49	10	90	10	M20 x 42
WEPM-225	3000	55	110	16	49	10	90	9	M20 x 42
WEPM-225	1000-1500	60	140	18	53	11	110	14	M20 x 42
WEPM-250	3000	60	140	18	53	11	110	14	M20 x 42
WEPM-250	1000-1500	65	140	18	58	11	110	14	M20 x 42
WEPM-280	3000	65	140	18	58	11	110	14	M20 x 42
WEPM-280	1000-1500	75	140	20	67.5	12	110	14	M20 x 42
WEPM-315	3000	65	140	18	58	11	110	14	M20 x 42
WEPM-315	1000-1500	80	170	22	71	14	140	14	M20 x 42

Drip proof canopy (impact canopy)

To find the overal length of a motor fitted with a drip proof canopy, please add dimension 'DPC' to dimension 'L'.
Note: All shaft down WEPM motors must be fitted with a drip proof canopy.

Overall length + DPC

Type	L + DPC	Type	L + DPC
WEPM-80	'L' + 35mm	WEPM-180	'L' + 50mm
WEPM-90	'L' + 30mm	WEPM-200	'L' + 60mm
WEPM-100	'L' + 45mm	WEPM-225	'L' + 60mm
WEPM-112	'L' + 35mm	WEPM-250	'L' + 80mm
WEPM-132	'L' + 45mm	WEPM-280	'L' + 80mm
WEPM-160	'L' + 45mm	WEPM-315	'L' + 100mm



Dimensions - IEC Specification

Mechanical: bearings and relubrication, permissable radial load

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:

Type	Standard grease	Regreasing facility
80 - 180	EA6 Polyurea	-
200 - 315	Esso Unirex N3	Standard

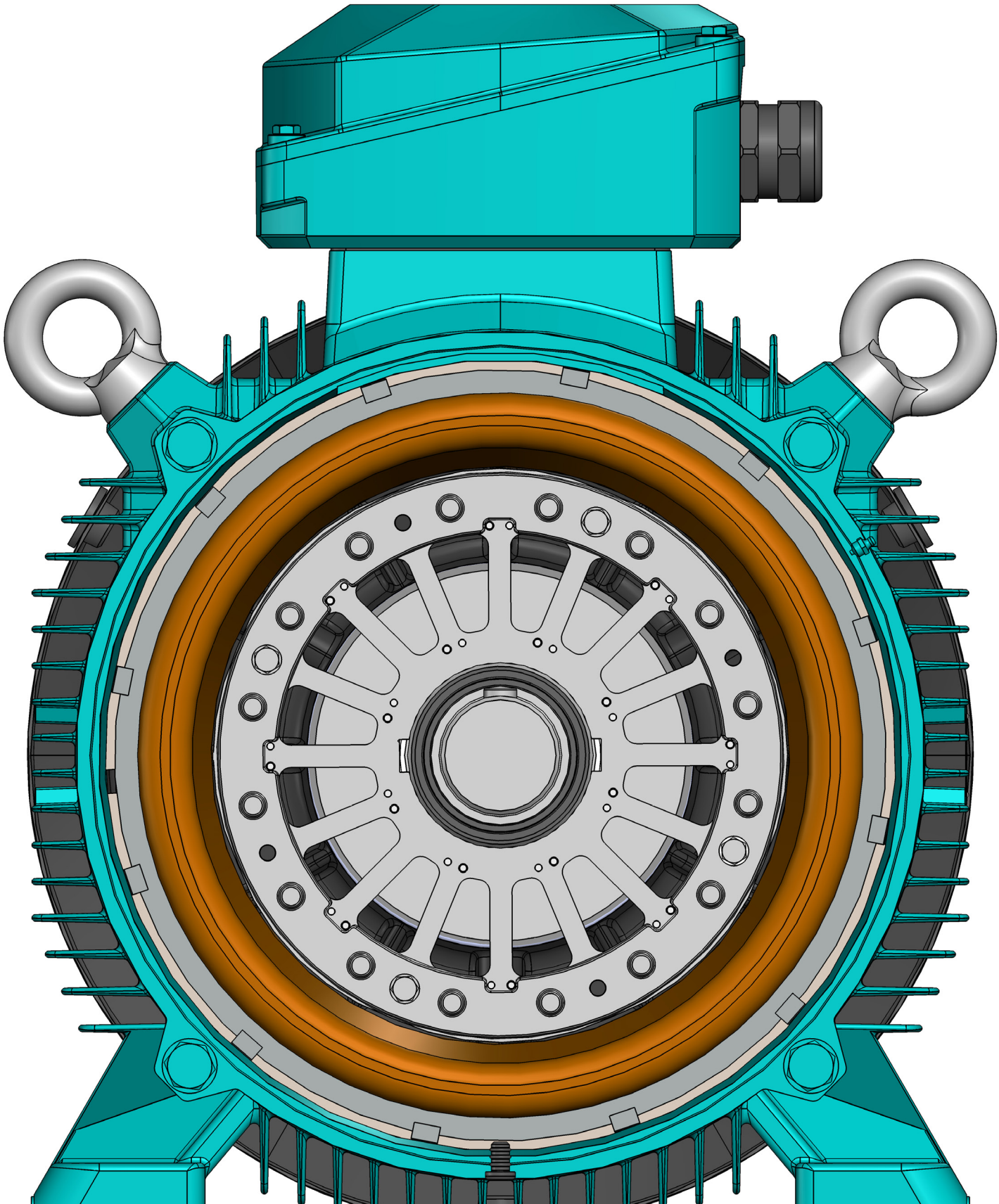
WEPM5 - Bearing references

		IE5 Bearings	
Type	Speed	Drive end	Non drive end
WEPM5-63	1000-3000	6201ZZ C3	6201ZZ C3
WEPM5-71	1000-3000	6202ZZ C3	6202ZZ C3
WEPM5-80	1000-3000	6204ZZ C3	6204ZZ C3
WEPM5-90	1000-3000	6205ZZ C3	6203ZZ C3
WEPM5-100	1000-3000	6206ZZ C3	6205ZZ C3
WEPM5-112	1000-3000	6206ZZ C3	6206ZZ C3
WEPM5-132	1000-3000	6208ZZ C3	6305ZZ C3
WEPM5-160	1000-3000	6309ZZ C3	6307ZZ C3
WEPM5-180	1000-3000	6310ZZ C3	6308ZZ C3
WEPM5-200	1000-3000	6312	6212
WEPM5-225	3000	6312	6312
	1000-1500	6313	6312
WEPM5-250	3000	6313	6313
	1000-1500	6314	6313
WEPM5-280	3000	6314	6314
	1000-1500	6317	6314
WEPM5-315	3000	6317	6317
	1000-1500	6319	6319

WEPM5 & WEPM - Bearing references

		IE5 Bearings increased kW		IE4 Bearings	
Type	Speed	Drive end	Non drive end	Drive end	Non drive end
WEPM-63	1000-3000	6201ZZ C3	6201ZZ C3	6201ZZ C3	6201ZZ C3
WEPM-71	1000-3000	6202ZZ C3	6202ZZ C3	6202ZZ C3	6202ZZ C3
WEPM-80	1000-3000	6204ZZ C3	6204ZZ C3	6204ZZ C3	6204ZZ C3
WEPM-90	1000-3000	6205ZZ C3	6203ZZ C3	6205ZZ C3	6203ZZ C3
WEPM-100	1000-3000	6206ZZ C3	6205ZZ C3	6206ZZ C3	6205ZZ C3
WEPM-112	1000-3000	6206ZZ C3	6206ZZ C3	6206ZZ C3	6206ZZ C3
WEPM-132	1000-3000	6208ZZ C3	6208ZZ C3	6208ZZ C3	6208ZZ C3
WEPM-160	1000-3000	6309ZZ C3	6309ZZ C3	6309ZZ C3	6309ZZ C3
WEPM-180	1000-3000	6310ZZ C3	6308ZZ C3	6310ZZ C3	6308ZZ C3
WEPM-200	1000-3000	6312	6212	6312	6212
WEPM-225	1000-3000	6313	6312	6313	6312
WEPM-250	1000-3000	6314	6313	6314	6313
WEPM-280	1000-3000	6317	6314	6317	6314
WEPM-315	1000-3000	6319	6319	6319	6319

[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 verical mount motors should be multiplied by a factor 0.65.



Europe

Brook Crompton UK Ltd
St Thomas' Road Huddersfield
West Yorkshire HD1 3LJ UK
T: +44 (0) 1484 557200
F: +44 (0) 1484 557201
E: sales@brookcrompton.com
www.brookcrompton.com

Brook Crompton UK LTD - Sede secondaria in Italia
Via De Chirico, 9/11
42124 – Reggio Emilia (RE)
T: +39 0522 345055
E: italy@brookcrompton.com
www.brookcrompton.com

Asia

Brook Crompton Asia Pacific Pte Ltd
19 Keppel Road #08-01, Jit Poh Building
Singapore 089058
T: +65 6227 0308
F: +65 6227 0605
E: marketing@brookcrompton-ap.com
www.brookcrompton.com

Brook Crompton Australia Pty Ltd
5/220 New Cleveland Road,
Tingalpa, Queensland
Australia
T: +61 (0) 721 117 280
E: salesau@brookcrompton.com
www.brookcrompton.com

Americas

Brook Crompton Inc
1100 E. 222nd Street
Euclid, Ohio 44117, USA
T: +1 800 668 6779
T: +1 - 800 463 8917
E: sales@brookcromptonna.com
www.brookcromptonna.com

Brook Crompton Ltd
264 Attwell Drive
Toronto, Ontario, M9W 5B2, Canada
T: + 416 675 3844 (Toronto)
T: +1 888 668 9843 (Quebec)
E: sales@brookcromptonna.com
www.brookcromptonna.com

Every care has been taken to ensure the accuracy of the information contained in this publication, but, due to a policy of continuous development and improvement the right is reserved to supply products which may differ slightly from those illustrated and described in this publication

BROOK CROMPTON
Keeping Industry Turning

oh 2407-01/*/**/10/25 2407E (WEPM(A))
© Copyright Brook Crompton UK Ltd. All rights reserved.

WOLONG
Power your future