

WOLONG
Power your future



The WEPM-CR & WEPM 5-CR series
Compressor special frequency conversion
speed regulation permanent magnet
synchronous motor



Wolong Electric Drive Group Co., Ltd
W O N G E L E C T R I C G R O U P L T D .

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Brief Introduction

Wolong Group, founded in 1984, headquartered in Shaoxing, Zhejiang province, is committed to providing global users with safe, efficient and reliable products. It is a member of the Program of the world's leading industrial enterprises.

Adhering to the mission of "driving the future with science and technology and providing inexhaustible power for the world", the company has introduced advanced technologies and new processes

The comprehensive application and innovation, to achieve the continuous improvement of energy efficiency and smart energy system technology innovation, widely used in industry and agriculture, manufacturing, energy, mining, construction, In transportation and other fields, it will help all industries achieve green development, energy conservation and emission reduction, and help "carbon peak" and "carbon neutral".



Product overview

product description

WEPM-CR & WEPM 5-CR series compressor dedicated frequency conversion speed regulating permanent magnet synchronous motor energy efficiency meets the IE 4 & IE 5 efficiency class in IEC60034-30-1. The motor features a rotor with permanent magnet, with higher efficiency and power density than the induction motor, and smaller seat number for the same power and torque output motor. The motor adopts self-fan cooling and forced ventilation cooling to meet the different working conditions of the equipment, with good constant torque operation capacity at low speed, wide speed control range and high efficiency within the full speed control range.

WEPM-CR & WEPM 5-CR series motor design split motor for compressor industry, can choose air cooling machine, oil cooling machine, water cooling machine, etc.; with beautiful appearance, high efficiency, low noise, low vibration, safety and reliability, and convenient maintenance.

WEPM-CR & WEPM 5-CR series motors are mainly used in oil-free, micro-oil screw air compressor, oil rotary gear air compressor, centrifugal air compressor, piston air compressor, water jet air compressor and vortex air compressor, etc.



efficient characteristics

In the full load state of the compressor, the permanent magnet synchronous motor can produce the maximum gas volume under the minimum energy consumption, and the high efficiency can still be guaranteed when the load rate is <20%. Therefore, no matter the compressor in the "no

power factor

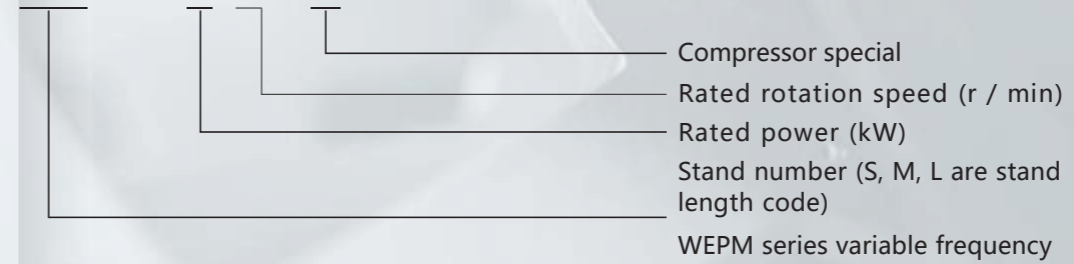
Since the motor has inductance characteristics, the active power from the power grid for work, and the power factor reflects the active power in the total power, the power factor of permanent magnet synchronous motor is close to 1, the less the reactive power consumed, the higher the

small volume in light

The permanent magnet synchronous motor uses high performance permanent magnet material to generate magnetic field, which makes the medium structure of the motor more compact, the power density increases, and the volume and weight decrease; the inertia

excellent performance

Permanent magnet motor structure is simple and easy to maintain; with high reliability, long service life; good speed regulation characteristics, high accuracy, good instantaneous characteristics, fast response speed; good overload performance and low temperature rise.



WEPM-CR Motor Characteristics (IE 5 Efficiency Class)		
name	Standard features	Optional (special) features
seat No	132~355	-
power rating	.57 kW ~400kW	-
rated speed	3000 r/min, 1500r/min	1000 r/min et al
rated voltage	380V	400V, 660V or as per customer requirements
character of service	S 1	S2, S3, etc
Efficiency level	IE 5	-
way to install	B35	B 3, B5 and other optional
insulation grade	F	H
Service coefficient	SF =1.2/SF=1.3	Other optional
levels of protection	IP 55	The IP56 and so on are optional
cooling-down method	IC 411/IC416	Other optional
Case material	iron casting	-

group | WEPM-CR & WEPM 5-CR series compressor dedicated frequency control permanent magnet synchronous motor

▼ demonstration of the type

The motor model code name is described as follows:

WEPM - 225S - 55 - 3000 - CR

▼ Technical features

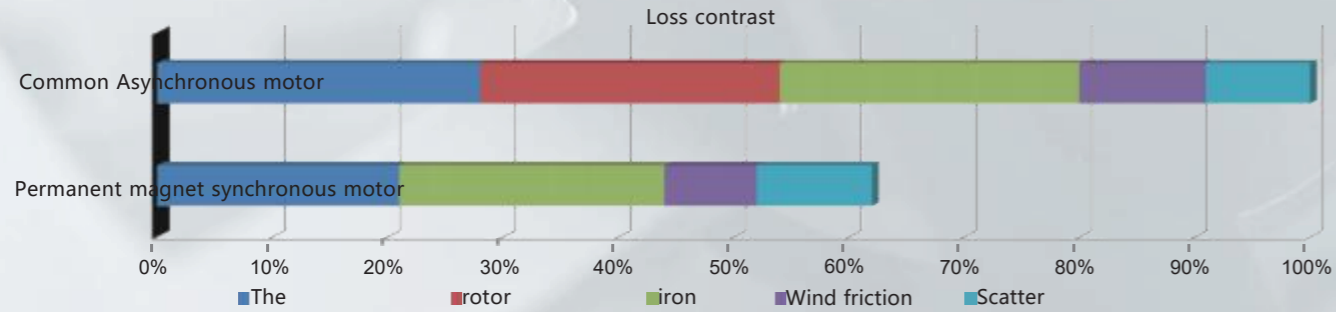
WEPM-CR Motor Characteristics (IE 4 Efficiency Class)		
name	Standard features	Optional (special) features
seat No	132~355	-
power rating	.57 kW ~400kW	-
rated speed	3000 r/min, 1500r/min	1000 r/min et al
rated voltage	380V	400V, 660V or as per customer requirements
character of service	S 1	S2, S3, etc
Efficiency level	IE 4	IE 5
way to install	B35	B 3, B5 and other optional
insulation grade	F	H
Service coefficient	SF =1.2/SF=1.3	Other optional
levels of protection	IP 55	The IP56 and so on are optional
cooling-down method	IC 411/IC416	Other optional
Case material	iron casting	-
Location of junction box	Top of the motor (outlet hole facing left)	Right side or left side of the motor

- bearing lubrica
- Motor protective device
- frequency transfer
- Face p. color
- ambient temperature
- height
- hum

Motor technical advantages

Motor loss is reduced

Compared with the IE 3 induction motor, the loss is greatly reduced

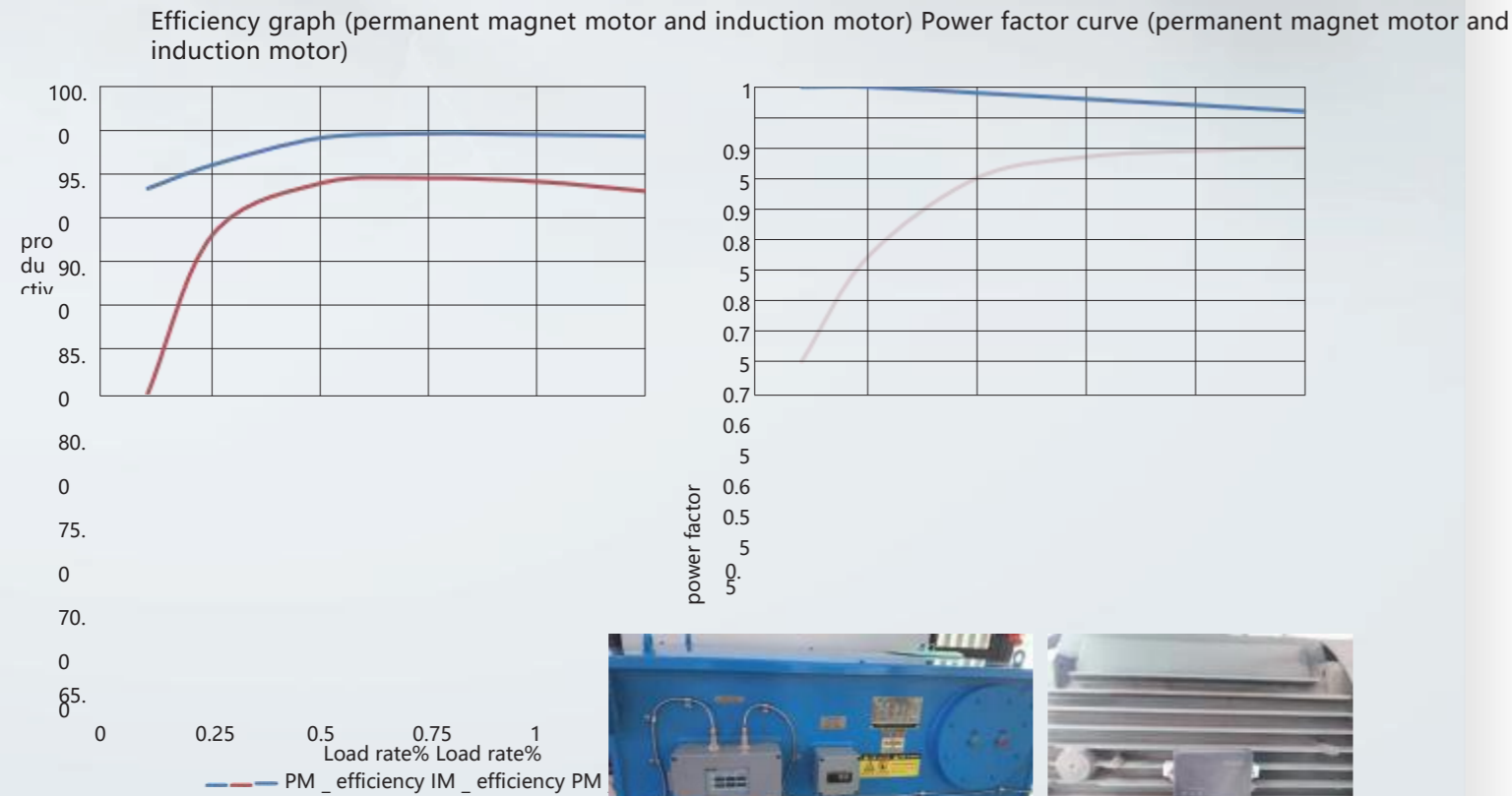


Comparison of loss between IE 3 induction motor and WEPM motor of IE 4

The motor provides ultra-high efficiency at full range speed or load

The WEPM-CR series multi-stage pump permanent magnet synchronous motor rotor relies on the permanent magnet to generate a magnetic field without reactive excitation current, and can significantly increase the power factor (up to 1), providing ultra-high efficiency regardless of speed or load. Excellent efficiency in the full speed control range compared to induction motors, especially at low speed or low torque output, efficiency and The power factor increase value is more significant.

Efficiency and power factor curve under rated speed variable torque operation



Measures to prevent axial current: the axial voltage of AC large motor is inevitable, and the axial current generated by the axial voltage is serious harm to the equipment. Our company takes anti-axial current measures in the design to fundamentally eliminate the formation of axial current.

Digital service: the iMotor intelligent system independently developed by our company can monitor the equipment operation in real time and monitor when the motor fails, ensure the solution at the initial stage and avoid the expansion of equipment faults; the multi-dimensional intelligent alarm based on the fault diagnosis concept effectively reduces the occurrence of false alarm and false alarm; for common motor faults Foreforeseen comprehensive diagnostic analysis.

Insulation system: adopt VPI immersion paint process with good insulation effect; high strike Wear strength (2.8kV / 1s test after immersion); excellent mechanical strength Degree (enameled wire, insulation paper tensile strength is better than the industry standard).

Electrical performance

WEPM-CR series compressor permanent magnet synchronous motor technical data (IE 4) 3000r / min SF =1.2

model	power rating		seat No	Rate d torque (Nm)	nu m ber of poles	freq uen cy (Hz)	speci fied speed (rp m)	380V										weig ht k g
	k W	H P						speci fied current (A)	prod uctiv enes s(%)	po wer fact or	L d (mh)	L q (mh)	Antiel ectric potenti al V / krpm	Ser vice fact or (SF)	serve coeffi cient current (A)	Serv ice fact or torque (Nm)		
WEPM -132S1-7.5-3000-CR	7.5	10	132S1	23.88	6	150	3000	13.8	91.7	0.95	5.083	9.361	114	1.2	16.56	28.66	62	
WEPM-132S2-11-3000-CR	11	15	132S2	35.02	6	150	3000	19.5	92.6	0.95	2.902	5.836	113	1.2	23.4	42.03	67	
WEPM -132M-15-3000-CR	15	20	132M	47.75	6	150	3000	26.8	93.3	0.95	2.231	4.123	114	1.2	32.16	57.3	73	
WEPM -160M1-18.5-3000-CR	18.5	25	160M1	58.89	6	150	3000	33	93.7	0.95	2.423	4.572	117	1.2	39.6	70.67	109	
WEPM -160M2-22-3000-CR	22	30	160M2	70.03	6	150	3000	38	94.0	0.95	2.288	4.312	117	1.2	45.6	84.04	119	
WEPM -160L-30-3000-CR	30	40	160L	95.5	6	150	3000	52	94.5	0.95	1.489	2.803	116	1.2	62.4	114.6	136	
WEPM -180M-37-3000-CR	37	50	180M	117.78	8	200	3000	65	94.8	0.95	0.968	1.721	117	1.2	78	141.34	208	
WEPM -180L-45-3000-CR	45	60	180L	143.25	8	200	3000	78	95.0	0.95	0.796	1.427	118	1.2	93.6	171.9	226	
WEPM -200L-55-3000-CR	55	75	200L	175.08	8	200	3000	98	95.3	0.96	0.602	1.103	116	1.2	117.6	210.1	282	
WEPM-225S1-55-3000-CR	55	75	225S1	175.08	8	200	3000	97.8	95.3	0,96	0.596	1.035	116	1.2	117.36	210.1	346	
WEPM-225S2-75-3000-CR	75	100	225S2	238.75	8	200	3000	131	95.6	0.96	0.423	0.735	117	1.2	157.2	286.5	361	
WEPM -225M-90-3000-CR	90	125	225M	286.5	8	200	3000	154	95.8	0,96	0.324	0.563	118	1.2	184.8	343.8	382	
WEPM -250M1-90-3000-CR	90	125	250M1	286.5	8	200	3000	153	95.8	0.96	0.335	0.589	117	1.2	183.6	343.8	446	
WEPM -250M2-110-3000-CR	110	150	250M2	350.17	8	200	3000	196	96.0	0,96	0.287	0.505	119	1.2	235.2	420.21	463	
WEPM -250M3-132-3000-CR	132	175	250M3	420.2	8	200	3000	236	96.2	0,96	0.247	0.435	119	1.2	283.2	504.24	485	
WEPM-280S-160-3000-CR	160	220	280S	509.33	8	200	3000	278	96.3	0.97	0.232	0.442	119	1.2	333.6	611.2	662	
WEPM -280M-185-3000-CR	185	250	280M	588.92	8	200	3000	322	96.3	0.97	0.179	0.345	116	1.2	386.4	706.71	701	
WEPM-315S-200-3000-CR	200	270	315S	636.67	8	200	3000	352	96.5	0.97	0.197	0.358	120	1.2	422.4	764.01	916	
WEPM -315M-250-3000-CR	250	340	315M	795.83	8	200	3000	443	96.5	0.97	0.156	0.288	120	1.2	531.6	954.5	952	
WEPM -355M-315-3000-CR	315	430	355M5	1002.75	8	200	3000	553	96.5	0.97	0.102	0.188	115	1.2	663.6	1203.3	1490	

WEPM-CR series compressor permanent magnet synchronous motor technical data (IE 4) 1500r / min
SF =1.2

model	power rating		seat No	Rate d torque (Nm)	nu m ber of poles P	freq uen cy (Hz)	speci fied speed (rpm)	380V										weig ht
	k W	H P						speci fied current (A)	prod uctiv enes s(%)	po wer factor	L d (mh)	L q (mh)	Anti el ectric potenti al V / krpm	Ser vice factor (SF)	serve coefficient current (A)	Ser vice factor torque (Nm)	k g	
WEPM -132S-7.5-1500-CR	7.5	10	132S	47.75	6	75	1500	13.8	92.6	0.95	8.925	17.856	229	1.2	16.56	57.3	67	
WEPM -132M-11-1500-CR	11	15	132M	70.03	6	75	1500	19.5	93.3	0.95	6.132	11.325	232	1.2	23.4	84.04	75	
WEPM -160M-15-1500-CR	15	20	160M	95.5	6	75	1500	26.8	93.9	0.95	5.959	11.089	234	1.2	32.16	114.6	129	
WEPM -160L1-18.5-1500-CR	18.5	25	160L1	117.78	6	75	1500	32	94.2	0.95	4.733	8.911	233	1.2	38.4	141.34	145	
WEPM-160L2-22-1500-CR	22	30	160L2	140.07	6	75	1500	38	94.5	0.95	3.876	7.296	232	1.2	45.6	168.09	162	
WEPM -180M-22-1500-CR	22	30	180M	140.07	8	100	1500	38	94.5	0.95	3.292	5.862	232	1.2	45.6	168.09	276	
WEPM -180L-30-1500-CR	30	40	180L	191	8	100	1500	52	94.9	0.95	2.465	4.396	233	1.2	62.4	229.2	310	
WEPM -200L-37-1500-CR	37	50	200L	235.57	8	100	1500	67	95.2	0.96	1.791	3.326	228	1.2	80.4	282.69	365	
WEPM-225S1-37-1500-CR	37	50	225S1	235.57	8	100	1500	67.1	95.2	0.96	1.949	3.475	236	1.2	80.52	282.69	380	
WEPM-225S2-45-1500-CR	45	60	225S2	286.5	8	100	1500	79	95.4	0.96	1.738	3.112	236	1.2	94.8	343.8	405	
WEPM -250M1-55-1500-CR	55	75	250M1	350.17	8	100	1500	95	95.7	0.96	1.462	2.618	240	1.2	114	420.21	470	
WEPM -250M2-75-1500-CR	75	100	250M2	477.5	8	100	1500	132	96.0	0.96	1.055	1.903	239	1.2	158.4	573	510	
WEPM-280S1-90-1500-CR	90	125	280S1	573	8	100	1500	156	96.1	0.97	1.006	1.908	231	1.2	187.2	687.6	665	
WEPM-280S2-110-1500-CR	110	150	280S2	700.33	8	100	1500	192	96.3	0.97	0.819	1.562	232	1.2	230.4	840.4	735	
WEPM -280M-132-1500-CR	132	175	280M	840.4	8	100	1500	233	96.4	0.97	0.602	1.155	228	1.2	279.6	1008.48	790	
WEPM-315S-160-1500-CR	160	220	315S	1018.67	8	100	1500	280	96.6	0.97	0.519	0.985	225	1.2	336	1222.41	910	
WEPM -315M1-185-1500-CR	185	250	315M1	1177.83	8	100	1500	320	96.6	0.97	0.453	0.862	227	1.2	384	1413.4	950	
WEPM -315M2-200-1500-CR	200	270	315M2	1273.33	8	100	1500	352	96.7	0.97	0.399	0.758	226	1.2	422.4	1528	995	
WEPM -315M3-220-1500-CR	220	300	315M3	1400.67	8	100	1500	382	96.7	0.97	0.382	0.727	226	1.2	458.4	1680.81	1050	
WEPM-315L1-250-1500-CR	250	340	315L1	1591.67	8	100	1500	438	96.7	0.97	0.338	0.646	226	1.2	525.6	1910.01	1110	
WEPM-315L2-280-1500-CR	280	380	315L2	1782.67	8	100	1500	489	96.7	0.97	0.265	0.508	225	1.2	586.8	2139.21	1205	

WEPM-CR series compressor permanent magnet synchronous motor technical data (IE 4) 3000r / min SF =1.3

model	power rating		seat No	Rated torque (Nm)	number of poles P	frequency (Hz)	specified speed (rpm)	380V										weight kg
	kW	HP						specified current (A)	productiveness (%)	power factor	Ld (mh)	Lq (mh)	Anti electric potential V / krpm	Service factor (SF)	service coefficient current (A)	Service factor torque (Nm)		
WEPM -132S1-7.5-3000-CR	7.5	10	132S1	23.88	6	150	3000	13.9	91.7	0.95	4.301	8.032	115	1.3	18.07	31.04	65	
WEPM -132S2-11-3000-CR	11	15	132S2	35.02	6	150	3000	19.6	92.6	0.95	2.869	5.356	115	1.3	25.48	45.53	69	
WEPM -132M-15-3000-CR	15	20	132M	47.75	6	150	3000	26.9	93.3	0.95	2.183	3.986	116	1.3	34.97	62.08	76	
WEPM -160M1-18.5-3000-CR	18.5	25	160M1	58.89	6	150	3000	33.2	93.7	0.95	2.271	4.275	117	1.3	43.16	76.56	112	
WEPM -160M2-22-3000-CR	22	30	160M2	70.03	6	150	3000	38.2	94.0	0.95	1.838	3.459	117	1.3	49.66	91.04	121	
WEPM -160L-30-3000-CR	30	40	160L	95.5	6	150	3000	52.5	94.5	0.95	1.383	2.602	118	1.3	68.25	124.15	139	
WEPM -180M-37-3000-CR	37	50	180M	117.78	8	200	3000	65	94.8	0.95	0.871	1.548	117	1.3	84.5	153.11	212	
WEPM -180L-45-3000-CR	45	60	180L	143.25	8	200	3000	78.6	95.0	0.95	0.769	1.367	118	1.3	102.18	186.23	229	
WEPM -200L-55-3000-CR	55	75	200L	175.08	8	200	3000	98.3	95.3	0.96	0.569	1.042	117	1.3	127.79	227.6	287	
WEPM -225S1-55-3000-CR	55	75	225S1	175.08	8	200	3000	98.2	95.3	0.96	0.527	0.915	117	1.3	127.66	227.6	351	
WEPM -225S2-75-3000-CR	75	100	225S2	238.75	8	200	3000	131	95.6	0.96	0.395	0.686	118	1.3	170.3	310.38	367	
WEPM -225M-90-3000-CR	90	125	225M	286.5	8	200	3000	154	95.8	0.96	0.288	0.499	116	1.3	200.2	372.45	389	
WEPM -250M1-90-3000-CR	90	125	250M1	286.5	8	200	3000	153	95.8	0.96	0.353	0.619	119	1.3	198.90	372.45	456	
WEPM-250M2-110-3000-CR	110	150	250M2	350.17	8	200	3000	195.6	96.0	0.96	0.301	0.529	119	1.3	254.28	455.22	469	
WEPM-250M3-132-3000-CR	132	175	250M3	420.2	8	200	3000	235	96.2	0.96	0.242	0.426	119	1.3	305.5	546.26	496	
WEPM -280S-160-3000-CR	160	220	280S	509.33	8	200	3000	278	96.3	0.97	0.223	0.429	121	1.3	361.4	662.13	677	
WEPM -280M-185-3000-CR	185	250	280M	588.92	8	200	3000	323	96.3	0.97	0.183	0.353	119	1.3	419.9	765.6	729	
WEPM -315S-200-3000-CR	200	270	315S	636.67	8	200	3000	351	96.5	0.97	0.234	0.433	120	1.3	456.3	827.67	939	
WEPM -315M-250-3000-CR	250	340	315M	795.83	8	200	3000	439	96.5	0.97	0.146	0.272	119	1.3	570.7	1034.58	981	
WEPM -355M-315-3000-CR	315	430	355M	1002.75	8	200	3000	552	96.5	0.97	0.104	0.191	115	1.3	717.6	1303.58	1530	

WEPM-CR series compressor permanent magnet synchronous motor technical data (IE 4) 1500r / min
SF =1.3

model	power rating		seat No	Rate d torque (Nm)	nu m ber of poles P	freq uen cy (Hz)	speci fied speed (rpm)	380V									weig ht
	k W	H P						speci fied current (A)	prod uctiv enes s(%)	po wer factor	L d (mh)	L q (mh)	Anti el ectric potenti al V / krpm	Ser vice factor (SF)	serve coefficient current (A)	Serv ice fact or torque (Nm)	k g
WEPM -132S-7.5-1500-CR	7.5	10	132S	47.75	6	75	1500	13.8	92.6	0.95	8.722	15.169	233	1.3	17.94	62.08	68
WEPM -132M-11-1500-CR	11	15	132M	70.03	6	75	1500	19.5	93.3	0.95	5.715	11.235	231	1.3	25.35	91.04	76
WEPM -160M-15-1500-CR	15	20	160M	95.5	6	75	1500	26.8	93.9	0.95	5.532	10.431	232	1.3	34.84	124.15	131
WEPM -160L1-18.5-1500-CR	18.5	25	160L1	117.78	6	75	1500	32	94.2	0.95	4.294	8.099	231	1.3	41.6	153.11	147
WEPM-160L2-22-1500-CR	22	30	160L2	140.07	6	75	1500	38.2	94.5	0.95	3.619	6.811	232	1.3	49.66	182.09	164
WEPM -180M-22-1500-CR	22	30	180M	140.07	8	100	1500	38.1	94.5	0.95	3.018	5.383	231	1.3	49.53	182.09	278
WEPM -180L-30-1500-CR	30	40	180L	191	8	100	1500	52.3	94.9	0.95	2.321	4.139	233	1.3	67.99	248.30	313
WEPM -200L-37-1500-CR	37	50	200L	235.57	8	100	1500	67.5	95.2	0.96	1.646	3.052	228	1.3	87.75	306.24	368
WEPM-225S1-37-1500-CR	37	50	225S1	235.57	8	100	1500	67.3	95.2	0.96	1.737	3.097	236	1.3	87.5	306.24	385
WEPM-225S2-45-1500-CR	45	60	225S2	286.5	8	100	1500	79.1	95.4	0.96	1.603	2.856	236	1.3	102.83	372.45	410
WEPM -250M1-55-1500-CR	55	75	250M1	350.17	8	100	1500	96	95.7	0.96	1.347	2.415	239	1.3	124.8	455.22	475
WEPM -250M2-75-1500-CR	75	100	250M2	477.5	8	100	1500	132	96.0	0.96	0.948	1.709	239	1.3	171.6	620.75	516
WEPM-280S1-90-1500-CR	90	125	280S1	573	8	100	1500	156	96.1	0.97	0.909	1.733	231	1.3	202.8	744.90	672
WEPM-280S2-110-1500-CR	110	150	280S2	700.33	8	100	1500	192	96.3	0.97	0.697	1.333	229	1.3	249.6	910.43	747
WEPM -280M-132-1500-CR	132	175	280M	840.4	8	100	1500	233	96.4	0.97	0.532	1.023	226	1.3	302.9	1092.52	810
WEPM-315S-160-1500-CR	160	220	315S	1018.67	8	100	1500	280	96.6	0.97	0.435	0.832	225	1.3	364	1324.27	936
WEPM -315M1-185-1500-CR	185	250	315M1	1177.83	8	100	1500	321	96.6	0.97	0.396	0.757	226	1.3	417.3	1531.18	972
WEPM -315M2-200-1500-CR	200	270	315M2	1273.33	8	100	1500	350	96.7	0.97	0.379	0.725	226	1.3	455	1655.33	1026
WEPM -315M3-220-1500-CR	220	300	315M3	1400.67	8	100	1500	382	96.7	0.97	0.328	0.629	225	1.3	496.6	1820.87	1096
WEPM-315L1-250-1500-CR	250	340	315L1	1591.67	8	100	1500	436	96.7	0.97	0.323	0.623	228	1.3	566.8	2069.17	1141
WEPM-315L2-280-1500-CR	280	380	315L2	1782.67	8	100	1500	488	96.7	0.97	0.246	0.475	225	1.3	634.4	2317.47	1239

WE PM 5-CR series compressor permanent magnet synchronous compressor technical data (IE 5) 3000r / min SF =1.2

model	power rating		seat No	Rate d torque (Nm)	nu m ber of poles P	freq uen cy (Hz)	speci fied speed (rpm)	380V										weig ht k g
	k W	H P						speci fied current (A)	prod uctiv enes s(%)	po wer fact or	L d (mh)	L q (mh)	Antiel ectric potenti al V / krpm	Ser vice fact or (SF)	serve coeffi cient curre nt (A)	Serv ice fact or torque (Nm)		
WEPM 5-132S1-7.5-3000-CR	7.5	10	132S1	23.88	6	150	3000	13.5	93.3	0.95	4.877	9.176	115	1.2	16.2	28.66	64	
WEPM 5-132S2-11-3000-CR	11	15	132S2	35.02	6	150	3000	19.2	94.0	0.95	2.776	5.213	115	1.2	23.04	42.03	68	
WEPM 5-132M-15-3000-CR	15	20	132M	47.75	6	150	3000	26.6	94.5	0.95	2.132	4.003	116	1.2	31.92	57.3	74	
WEPM 5-160M1-18.5-3000-CR	18.5	25	160M1	58.89	6	150	3000	32.8	94.9	0.95	2.223	4.172	117	1.2	39.36	70.67	113	
WEPM5-160M2-22-3000-CR	22	30	160M2	70.03	6	150	3000	37.6	95.1	0.95	2.088	4.312	117	1.2	45.12	84.04	124	
WEPM 5-160L-30-3000-CR	30	40	160L	95.5	6	150	3000	51.7	95.5	0.95	1.399	2.621	117	1.2	62.04	114.6	139	
WEPM 5-180M-37-3000-CR	37	50	180M	117.78	8	200	3000	64.3	95.8	0.95	0.869	1.543	117	1.2	77.16	141.34	213	
WEPM 5-180L-45-3000-CR	45	60	180L	143.25	8	200	3000	77.5	96.0	0.95	0.698	1.241	118	1.2	93	171.9	230	
WEPM 5-200L-55-3000-CR	55	75	200L	175.08	6	150	3000	97.6	96.2	0.96	0.901	1.578	116	1.2	117.12	210.1	286	
WEPM 5-225S1-55-3000-CR	55	75	225S1	175.08	6	150	3000	97.2	96.2	0.96	0.987	1.729	116	1.2	116.64	210.1	350	
WEPM 5-225S2-75-3000-CR	75	100	225S2	238.75	6	150	3000	130	96.5	0.96	0.692	1.202	117	1.2	156	286.5	366	
WEPM 5-225M-90-3000-CR	90	125	225M	286.5	6	150	3000	153	96.6	0.96	0.612	1.065	118	1.2	183.6	343.8	388	
WEPM5-250M1-90-3000-CR	90	125	250M1	286.5	6	150	3000	152	96.6	0.96	0.602	1.041	117	1.2	182.4	343.8	452	
WEPM5-250M2-110-3000-CR	110	150	250M2	350.17	6	150	3000	194	96.8	0.96	0.533	0.926	119	1.2	232.8	420.21	469	
WEPM5-250M3-132-3000-CR	132	175	250M3	420.2	6	150	3000	235	96.9	0.96	0.435	0.752	119	1.2	282	504.24	491	
WEPM 5-280S-160-3000-CR	160	220	280S	509.33	6	150	3000	277	97.0	0.97	0.269	0.471	119	1.2	332.4	611.2	672	
WEPM5-280M-185-3000-CR	185	250	280M	588.92	6	150	3000	320	97.2	0.97	0.231	0.405	116	1.2	384	706.71	711	
WEPM 5-315S-200-3000-CR	200	270	315S	636.67	6	150	3000	350	97.2	0.97	0.251	0.441	120	1.2	420	764.01	928	
WEPM5-315M-250-3000-CR	250	340	315M	795.83	6	150	3000	441	97.2	0.97	0.219	0.383	120	1.2	529.2	954.5	965	
WEPM5-355M-315-3000-CR	315	430	355M	1002.75	6	150	3000	550	97.2	0.97	0.178	0.331	115	1.2	660	1203.3	1520	

WE PM 5-CR series compressor permanent magnet synchronous motor technical data (IE 5) 1500r / min SF = 1.2

model	power rating		seat No	Rate d torque (Nm)	nu m ber of poles P	freq uen cy (Hz)	speci fied speed (rpm)	380V										weig ht k g
	k W	H P						speci fied current (A)	prod uctiv enes s(%)	po wer fact or	L d (mh)	L q (mh)	Anti el ectric potenti al V / krpm	Ser vice fact or (SF)	serve coefficient current (A)	Serv ice fact or torque (Nm)		
WEPM 5-132S-7.5-1500-CR	7.5	10	132S	47.75	6	75	1500	13.5	94.0	0.95	8.812	16.003	230	1.2	16.2	57.3	68	
WEPM 5-132M-11-1500-CR	11	15	132M	70.03	6	75	1500	19.3	94.6	0.95	6.096	11.245	233	1.2	23.16	84.04	76	
WEPM 5-160M-15-1500-CR	15	20	160M	95.5	6	75	1500	26.5	95.1	0.95	5.759	10.759	234	1.2	31.8	114.6	132	
WEPM5-160L1-18.5-1500-CR	18.5	25	160L1	117.78	6	75	1500	31.5	95.3	0.95	4.631	8.661	233	1.2	37.8	141.34	147	
WEPM 5-160L2-22-1500-CR	22	30	160L2	140.07	6	75	1500	37.3	95.5	0.95	3.771	7.052	233	1.2	44.76	168.09	164	
WEPM 5-180M-22-1500-CR	22	30	180M	140.07	8	100	1500	37.2	95.5	0.95	3.181	5.661	232	1.2	44.64	168.09	278	
WEPM 5-180L-30-1500-CR	30	40	180L	191	8	100	1500	51.5	95.9	0.95	2.405	4.279	233	1.2	61.8	229.2	313	
WEPM 5-200L-37-1500-CR	37	50	200L	235.57	6	75	1500	66.4	96.1	0.96	3.011	5.269	228	1.2	79.68	282.69	367	
WEPM 5-225S1-37-1500-CR	37	50	225S1	235.57	6	75	1500	66.2	96.1	0.96	3.111	5.445	236	1.2	79.44	282.69	382	
WEPM 5-225S2-45-1500-CR	45	60	225S2	286.5	6	75	1500	78	96.3	0.96	2.633	4.585	236	1.2	93.6	343.8	409	
WEPM5-250M1-55-1500-CR	55	75	250M1	350.17	6	75	1500	93	96.5	0.96	2.061	3.563	240	1.2	111.6	420.21	476	
WEPM5-250M2-75-1500-CR	75	100	250M2	477.5	6	75	1500	131	96.7	0.96	1.567	2.706	239	1.2	157.2	573	516	
WEPM 5-280S1-90-1500-CR	90	125	280S1	573	6	75	1500	155	96.9	0.97	1.121	1.971	231	1.2	186	687.6	671	
WEPM 5-280S2-110-1500-CR	110	150	280S2	700.33	6	75	1500	190	97.0	0.97	0.891	1.575	232	1.2	228	840.4	740	
WEPM5-280M-132-1500-CR	132	175	280M	840.4	6	75	1500	232	97.1	0.97	0.758	1.339	228	1.2	278.4	1008.48	799	
WEPM 5-315S-160-1500-CR	160	220	315S	1018.67	6	75	1500	279	97.2	0.97	0.783	1.378	225	1.2	334.8	1222.41	920	
WEPM5-315M1-185-1500-CR	185	250	315M1	1177.83	6	75	1500	319	97.2	0.97	0.735	1.291	227	1.2	382.8	1413.4	962	
WEPM5-315M2-200-1500-CR	200	270	315M2	1273.33	6	75	1500	351	97.4	0.97	0.638	1.121	226	1.2	421.2	1528	1005	
WEPM5-315M3-220-1500-CR	220	300	315M3	1400.67	6	75	1500	380	97.4	0.97	0.552	0.973	226	1.2	456	1680.81	1062	
WEPM 5-315L1-250-1500-CR	250	340	315L1	1591.67	6	75	1500	437	97.4	0.97	0.499	0.878	226	1.2	524.4	1910.01	1131	
WEPM 5-315L2-280-1500-CR	280	380	315L2	1782.67	6	75	1500	488	97.4	0.97	0.396	0.696	225	1.2	585.6	2139.21	1235	

WE PM 5-CR series compressor permanent magnet synchronous compressor technical data (IE 5) 3000r / min SF =1.3

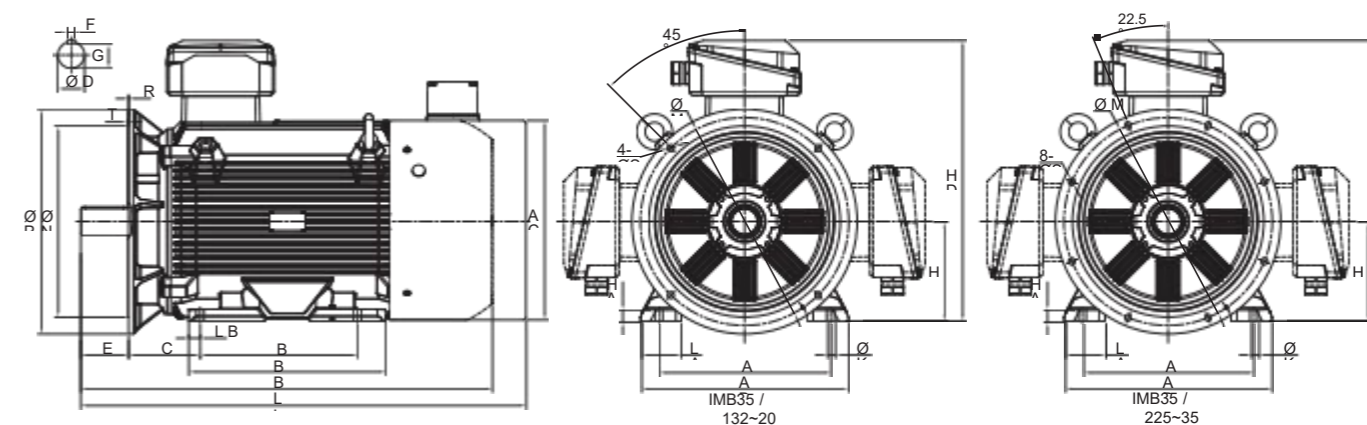
model	power rating		seat No	Rate d torque (Nm)	nu m ber of poles P	freq uen cy (Hz)	speci fied speed (rpm)	380V										weig ht
	k W	H P						speci fied current (A)	prod uctiv enes s(%)	po wer fact or	L d (mh)	L q (mh)	Anti el ectric potenti al V / krpm	Ser vice fact or (SF)	serve coeffi cient curre nt (A)	Serv ice fact or torque (Nm)	k g	
WEPM 5-132S1-7.5-3000-CR	7.5	10	132S1	23.88	6	150	3000	13.5	93.3	0.95	4.621	8.676	114	1.3	17.68	28.66	66	
WEPM 5-132S2-11-3000-CR	11	15	132S2	35.02	6	150	3000	19.2	94.0	0.95	2.667	5.012	113	1.3	25.09	42.03	70	
WEPM 5-132M-15-3000-CR	15	20	132M	47.75	6	150	3000	26.6	94.5	0.95	2.132	4.003	116	1.3	34.45	57.3	77	
WEPM 5-160M1-18.5-3000-CR	18.5	25	160M1	58.89	6	150	3000	32.8	94.9	0.95	2.123	3.973	117	1.3	42.51	70.67	114	
WEPM5-160M2-22-3000-CR	22	30	160M2	70.03	6	150	3000	37.6	95.1	0.95	1.992	3.726	117	1.3	48.75	84.04	124	
WEPM 5-160L-30-3000-CR	30	40	160L	95.5	6	150	3000	51.7	95.5	0.95	1.321	2.075	117	1.3	67.08	114.6	143	
WEPM 5-180M-37-3000-CR	37	50	180M	117.78	8	200	3000	64.3	95.8	0.95	0.799	1.438	118	1.3	83.72	141.34	216	
WEPM 5-180L-45-3000-CR	45	60	180L	143.25	8	200	3000	77.5	96.0	0.95	0.628	1.116	118	1.3	100.88	171.9	233	
WEPM 5-200L-55-3000-CR	55	75	200L	175.08	6	150	3000	97.6	96.2	0.96	0.811	1.419	116	1.3	126.75	210.1	292	
WEPM 5-225S1-55-3000-CR	55	75	225S1	175.08	6	150	3000	97.2	96.2	0.96	0.821	1.437	116	1.3	126.23	210.1	357	
WEPM 5-225S2-75-3000-CR	75	100	225S2	238.75	6	150	3000	130	96.5	0.96	0.713	1.239	117	1.3	167.7	286.5	373	
WEPM 5-225M-90-3000-CR	90	125	225M	286.5	6	150	3000	153	96.6	0.96	0.525	0.907	118	1.3	200.2	343.8	397	
WEPM5-250M1-90-3000-CR	90	125	250M1	286.5	6	150	3000	152	96.6	0.96	0.589	1.018	117	1.3	198.9	343.8	466	
WEPM5-250M2-110-3000-CR	110	150	250M2	350.17	6	150	3000	194	96.8	0.96	0.491	0.846	119	1.3	250.9	420.21	479	
WEPM5-250M3-132-3000-CR	132	175	250M3	420.2	6	150	3000	235	96.9	0.96	0.392	0.679	119	1.3	304.2	504.24	506	
WEPM 5-280S-160-3000-CR	160	220	280S	509.33	6	150	3000	277	97.0	0.97	0.218	0.381	119	1.3	358.8	611.2	689	
WEPM5-280M-185-3000-CR	185	250	280M	588.92	6	150	3000	320	97.2	0.97	0.191	0.333	116	1.3	417.3	706.71	741	
WEPM 5-315S-200-3000-CR	200	270	315S	636.67	6	150	3000	350	97.2	0.97	0.241	0.425	120	1.3	456.3	764.01	961	
WEPM5-315M-250-3000-CR	250	340	315M	795.83	6	150	3000	441	97.2	0.97	0.211	0.371	120	1.3	572	954.5	1010	
WEPM5-355M-315-3000-CR	315	430	355M	1002.75	6	150	3000	550	97.2	0.97	0.182	0.338	115	1.3	716.3	1203.3	1570	

WE PM 5-CR series compressor permanent magnet synchronous motor technical data (IE 5) 1500r / min SF =1.3

model	power rating		seat No	Rate d torque (Nm)	nu m ber of poles P	freq uen cy (Hz)	speci fied speed (rpm)	380V										weig ht k g
	k W	H P						speci fied current (A)	prod uctiv enes s(%)	po wer fact or	L d (mh)	L q (mh)	Antie lectric potenti al V / krpm	Ser vice fact or (SF)	serve coefficient current (A)	Serv ice fact or torque (Nm)		
WEPM 5-132S-7.5-1500-CR	7.5	10	132S	47.75	6	75	1500	13.4	94.0	0.95	8.798	16.256	231	1.3	17.42	62.08	69	
WEPM 5-132M-11-1500-CR	11	15	132M	70.03	6	75	1500	19.4	94.6	0.95	6.001	11.009	232	1.3	25.22	91.04	77	
WEPM 5-160M-15-1500-CR	15	20	160M	95.5	6	75	1500	26.6	95.1	0.95	5.669	10.611	233	1.3	34.58	124.15	133	
WEPM5-160L1-18.5-1500-CR	18.5	25	160L1	117.78	6	75	1500	31.3	95.3	0.95	4.573	8.551	234	1.3	40.69	153.11	149	
WEPM 5-160L2-22-1500-CR	22	30	160L2	140.07	6	75	1500	37.2	95.5	0.95	3.691	6.902	231	1.3	48.36	182.09	166	
WEPM 5-180M-22-1500-CR	22	30	180M	140.07	8	100	1500	37.1	95.5	0.95	3.021	5.378	233	1.3	48.23	182.09	280	
WEPM 5-180L-30-1500-CR	30	40	180L	191	8	100	1500	51.6	95.9	0.95	2.365	4.208	232	1.3	67.08	248.30	315	
WEPM 5-200L-37-1500-CR	37	50	200L	235.57	6	75	1500	66.5	96.1	0.96	2.621	4.587	228	1.3	86.45	306.24	369	
WEPM 5-225S1-37-1500-CR	37	50	225S1	235.57	6	75	1500	66.3	96.1	0.96	2.982	5.218	236	1.3	86.19	306.24	387	
WEPM 5-225S2-45-1500-CR	45	60	225S2	286.5	6	75	1500	78.3	96.3	0.96	2.192	3.823	236	1.3	101.79	372.45	415	
WEPM5-250M1-55-1500-CR	55	75	250M1	350.17	6	75	1500	93.2	96.5	0.96	1.822	3.152	240	1.3	121.16	455.22	481	
WEPM5-250M2-75-1500-CR	75	100	250M2	477.5	6	75	1500	130.5	96.7	0.96	1.288	2.228	239	1.3	169.65	620.75	522	
WEPM 5-280S1-90-1500-CR	90	125	280S1	573	6	75	1500	154	96.9	0.97	0.909	1.602	231	1.3	200.2	744.90	688	
WEPM 5-280S2-110-1500-CR	110	150	280S2	700.33	6	75	1500	190.6	97.0	0.97	0.803	1.411	232	1.3	247.78	910.43	761	
WEPM5-280M-132-1500-CR	132	175	280M	840.4	6	100	1500	231	97.1	0.97	0.679	1.201	228	1.3	300.3	1092.52	827	
WEPM 5-315S-160-1500-CR	160	220	315S	1018.67	6	75	1500	278	97.2	0.97	0.711	1.251	225	1.3	361.4	1324.27	945	
WEPM5-315M1-185-1500-CR	185	250	315M1	1177.83	6	75	1500	318	97.2	0.97	0.641	1.126	227	1.3	413.4	1531.18	980	
WEPM5-315M2-200-1500-CR	200	270	315M2	1273.33	6	75	1500	350	97.4	0.97	0.562	0.988	226	1.3	455	1655.33	1026	
WEPM5-315M3-220-1500-CR	220	300	315M3	1400.67	6	75	1500	379	97.4	0.97	0.469	0.825	226	1.3	492.7	1820.87	1085	
WEPM 5-315L1-250-	250	340	315L1	1591.6	6	75	1500	436	97.4	0.97	0.457	0.805	226	1.3	566.8	2069.1	1156	

Motor structure and

motor B35 installation and external



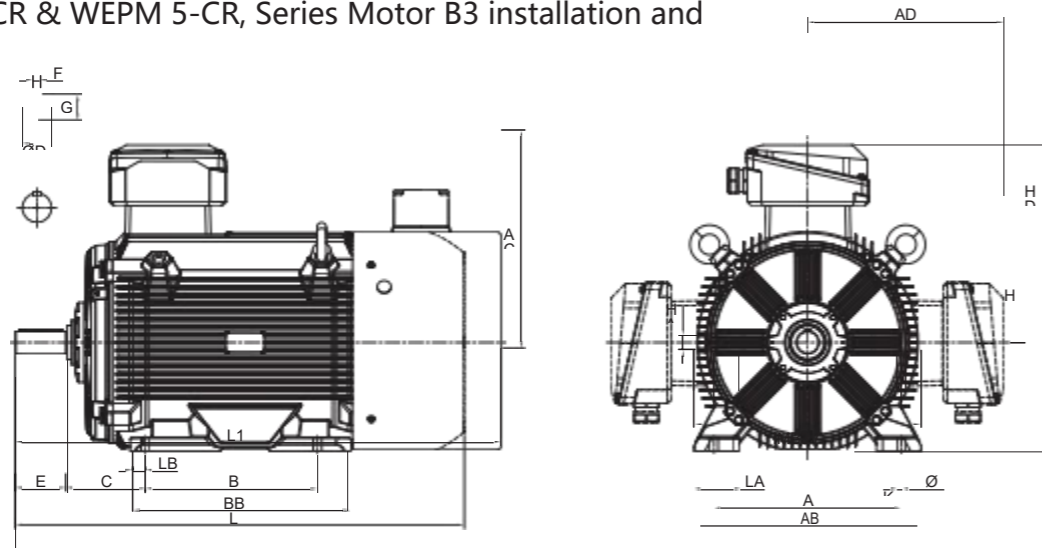
IMB 35 / IM2001 type motor

seat No	Installation size (mm)															Overall dimensions (mm)								
	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	LA	LB	AB	BB	HA	AC	HD	L	L1
132S	216	140	89	38	80	10	33	132	12	265	230	300	0±2.0	14.5	4	56.5	21.5	262	184	18	260	345	450	520
132M	216	178	89	38	80	10	33	132	12	265	230	300	0±2.0	14.5	4	56.5	21.5	262	222	18	260	345	490	560
160M	254	210	108	42	110	12	37	160	14.5	300	250	350	0±3.0	18.5	5	65	27	314	280	20	320	422	620	655
160L	254	254	108	42	110	12	37	160	14.5	300	250	350	0±3.0	18.5	5	65	27	314	324	20	320	422	665	700
180M	279	241	121	48	110	14	42.5	180	14.5	300	250	350	0±3.0	18.5	5	68	26.5	349	297	22	360	463	735	765
180L	279	279	121	48	110	14	42.5	180	14.5	300	250	350	0±3.0	18.5	5	68	26.5	349	335	22	360	463	770	800
200L	318	305	133	55	110	16	49	200	18.5	350	300	400	0±3.0	18.5	5	84	30	388	380	25	396	526	845	850
225S	356	286	149	60	140	18	53	225	18.5	400	350	450	0±4.0	18.5	5	84	43	431	368	28	442	570	900	891
225M	356	311	149	60	140	18	53	225	18.5	400	350	450	0±4.0	18.5	5	84	30.5	431	368	28	442	570	925	916
250M	406	349	168	65	140	18	58	250	24	500	450	550	0±4.0	18.5	5	80	43	484	421	30	488	671	950	1079
280S	457	368	190	75	140	20	67.5	280	24	500	450	550	0±4.0	18.5	5	84	55	542	460	35	547	728	1007	1186
280M	457	419	190	75	140	20	67.5	280	24	500	450	550	0±4.0	18.5	5	84	58.5	542	515	35	547	728	1055	1234
315S	508	406	216	80	170	22	71	315	28	600	550	660	0±4.0	24	6	115	46	628	540	40	631	822	1220	1335

1500-CR				7												7	
WEPM 5-315L2-280-1500-CR	280	380	315L2	1782.67	6	75	1500	487	97.4	0.97	0.401	0.705	225	1.3	633.1	2317.47	1260
WEPM 5-355M-315-1500-CR	315	430	355M	2005.5	6	75	1500	546	97.4	0.98	0.408	0.759	230	1.3	709.8	2607.15	1750
WEPM 5-355L1-355-1500-CR	355	475	355L1	2260.16	6	75	1500	618	97.4	0.98	0.330	0.613	228	1.3	803.4	2938.21	1895
WEPM 5-355L2-400-1500-CR	400	545	355L2	2546.66	6	75	1500	695	97.4	0.98	0.322	0.599	228	1.3	903.5	3310.66	2005

Note: L: IC411 motor length; L1: IC416 motor length

WEPM-CR & WEPM 5-CR, Series Motor B3 installation and

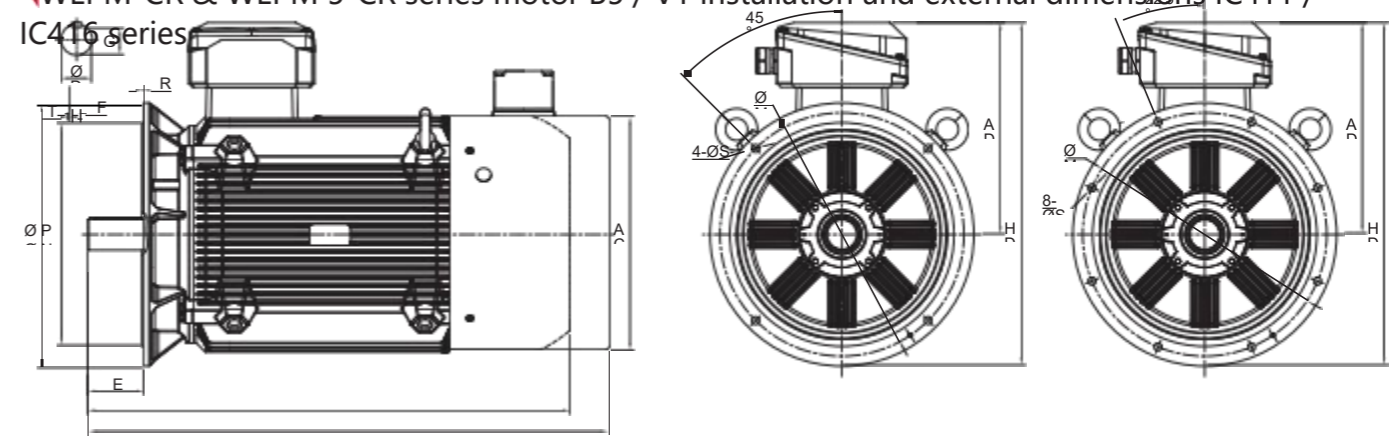


IMB 3 / IM1001 type motor installation and external dimensions

seat No	Installation size (mm)									Overall dimensions (mm)									
	A	B	C	D	E	F	G	H	K	LA	LB	AB	BB	HA	AC	AD	HD	L	L1
132S	216	140	89	38	80	10	33	132	12	56.5	21.5	262	184	18	260	210	345	450	520
132M	216	178	89	38	80	10	33	132	12	56.5	21.5	262	222	18	260	210	345	490	560
160M	254	210	108	42	110	12	37	160	14.5	65	27	314	280	20	320	260	422	620	655
160L	254	254	108	42	110	12	37	160	14.5	65	27	314	324	20	320	260	422	665	700
180M	279	241	121	48	110	14	42.5	180	14.5	68	26.5	349	297	22	360	279	463	735	765
180L	279	279	121	48	110	14	42.5	180	14.5	68	26.5	349	335	22	360	279	463	770	800
200L	318	305	133	55	110	16	49	200	18.5	84	30	388	380	25	396	321	526	845	850
225S	356	286	149	60	140	18	53	225	18.5	84	43	431	368	28	442	345	570	900	891
225M	356	311	149	60	140	18	53	225	18.5	84	30.5	431	368	28	442	345	570	925	916
250M	406	349	168	65	140	18	58	250	24	80	43	484	421	30	488	421	671	950	1079
280S	457	368	190	75	140	20	67.5	280	24	84	55	542	460	35	547	449	728	1007	1186
280M	457	419	190	75	140	20	67.5	280	24	84	58.5	542	515	35	547	449	728	1055	1234
315S	508	406	216	80	170	22	71	315	28	115	46	628	540	40	631	507	822	1220	1335
315M	508	457	216	80	170	22	71	315	28	115	46	628	640	40	631	507	822	1320	1435
315L	508	508	216	80	170	22	71	315	28	115	46	628	640	40	631	507	822	1320	1435
355M	610	560	254	95	170	25	86	355	28	146	40.5	740	700	45	709	644	999	1462	1687
355L	610	630	254	95	170	25	86	355	28	146	49	740	887	45	709	644	999	1632	1857

Note: L: IC411 motor length; L1: IC416 motor length

WEPM-CR & WEPM 5-CR series motor B5 / V1 installation and external dimensions IC411 / IC416 series






seat No	Installation size (mm)										Overall dimensions (mm)				
	D	E	F	G	M	N	P	R	S	T	AC	AD	HD	L	L1
132S	38	80	10	33	265	230	300	0±2.0	14.5	4	260	210	345	450	520
132M	38	80	10	33	265	230	300	0±2.0	14.5	4	260	210	345	490	560
160M	42	110	12	37	300	250	350	0±3.0	18.5	5	320	260	422	620	655
160L	42	110	12	37	300	250	350	0±3.0	18.5	5	320	260	422	665	700
180M	48	110	14	42.5	300	250	350	0±3.0	18.5	5	360	279	463	735	765
180L	48	110	14	42.5	300	250	350	0±3.0	18.5	5	360	279	463	770	800
200L	55	110	16	49	350	300	400	0±3.0	18.5	5	396	321	526	845	850
225S	60	140	18	53	400	350	450	0±4.0	18.5	5	442	345	570	900	891
225M	60	140	18	53	400	350	450	0±4.0	18.5	5	442	345	570	925	916
250M	65	140	18	58	500	450	550	0±4.0	18.5	5	488	421	671	950	1079
280S	75	140	20	67.5	500	450	550	0±4.0	18.5	5	547	449	728	1007	1186
280M	75	140	20	67.5	500	450	550	0±4.0	18.5	5	547	449	728	1055	1234
315S	80	170	22	71	600	550	660	0±4.0	24	6	631	507	822	1220	1335
315M	80	170	22	71	600	550	660	0±4.0	24	6	631	507	822	1320	1435
315L	80	170	22	71	600	550	660	0±4.0	24	6	631	507	822	1320	1435
355M	95	170	25	86	740	680	800	0±4.0	24	6	709	644	999	1462	1687
355L	95	170	25	86	740	680	800	0±4.0	24	6	709	644	999	1632	1857

Note: L: IC411 motor length; L1: IC416 motor

- 132
- 160
- 180
- 200-22
- 250-28
- 315
- 355

Technical description of the

Structure and installation type code and schematic diagram are as follows

Basic structure type	The seat has a base foot and no flange on the end cover	The seat has no feet and a flange on the end cover	The seat has a base foot and a flange on the end cover
Installation type code	B 3	B 5	B35
diagrammatic sketch			
seat No	132~355	132~280	132~355

levels of protection

WEPM-CR & WEPM 5-CR series standard protection level IP55, IP56, IP65, IP66 according to customer needs.

The protection grade of the shell is mainly to prevent electric shock or close to the live parts or rotating parts in the shell, to prevent the entry of solid foreign bodies and to prevent the harmful effects caused by water and oil, in accordance with the provisions of GB / T 4942.1 and IEC60034-5. The code name and meaning of the protection form are as follows:

code name	meaning	The first number	meaning	second-order digit	meaning
I P	Protection form	5	dustproof	5	Water prevention
		6	dust seal	6	Prevent strong water spray

Insulation grade and temperature rise limit

WEPM-CR & WEPM 5-CR series adopts class F insulation, and the temperature rise is assessed according to class B. Nanoinsulation immersion resin can be used to further improve the life in complex power supply environment and use environment.

In order to reliable operation, the motor needs to be isolated between live parts and shell or between live parts, and the service life of insulation material is greatly related to its insulation grade and service temperature. Motor as an energy conversion or signal conversion element, in the process of operation itself is energy loss, part of energy loss cause their temperature rise, in general state, insulation level, bear the highest use limit temperature and resistance method of motor temperature rise limit value in accordance with the table below, in the motor should be able to work normally. Compliance with GB755 and I E C 60034-30-1.

insulation grade	Use the limit temperature of °C	Temperature rise limit value K
B	130	80
F	155	105
H	180	125

Cooling mode of the hanging ring

seat No	ring	Horizontal installation
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▼ bearing designation

WEPM-CR & WEPM 5-CR motor bearing model							
seat No	speed r/min	Axis extension end	Non-axial extension end	seat No	speed r/min	Axis extension end	Non-axial extension end
132	3000/1500/1000	6208	6208	250	3000/1500/1000	6314	6314
160	3000/1500/1000	6309	6309	280	3600	6314	6314
180	3000/1500/1000	6310	6310	280	3000/1500/1000	6317	6317
200	3000/1500/1000	6312	6312	315	3600	6317	6317
225	3600	6312	6312	315	3000/1500/1000	6319	6319
225	3000/1500/1000	6313	6313	355	3600	6319	6319
250	3600	6313	6313	355	3000/1500/1000	6322	6322

Note: Standard configuration is deep groove ball bearings: H132~180 is sealed maintenance-free bearings, H200~355 is re-lubricated bearings. Motor standard design drive end bearing fixed, non-drive end bearing floating. Bearing selection can be changed according to the needs of the customer operating conditions, such as angular contact bearing or short cylindrical bearing. H225~355 seat number 3600 r/min bearing selection is optional.

▼ Bearing life

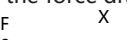
Bearing are parts easy to wear in motor products, and their use and maintenance status is closely related to the life of the bearing. The bearing should be maintained regularly, and the grease should be replaced. If the damaged bearings are not replaced in time, it is easy to cause the motor to be burned out. Under the allowable range of load, the bearing design life of the motor meets: 3000 r / min motor at least 20000 hours, 1000r / min, motor at least 30000 hours (refers to the life of the motor in normal operation and normal maintenance as required).

▼ Axis load

Maximum radial force (for the pulley drive system): The maximum allowable radial force F_0 (unit: N) is based on the premise that the action line of the load force (the center of the pulley) must be within the length of the motor shaft extension (the motor shaft extension is code E in the installation size diagram). The radial force length X (mm) is the distance from the shoulder of the radial force F_0 , hence the total length of the length $X=\max$. The maximum allowable radial force at 3000r / min, 1500r / min and 1000 r / min is shown in the following table:

seat No	Axial extension load (maximum radial force F_0) (N)					
	3000r/min		1500r/min		1000r/min	
	$X=0$	$X=\max$	$X=0$	$X=\max$	$X=0$	$X=\max$
132	1730	1360	1740	1400	2000	1610
160	2950	2330	3050	2410	3420	2700
180	3420	2740	3460	2820	4080	3320
200	4390	3640	4500	3730	5270	4370
225	4340	3620	5050	4030	5870	4690

Radial load is affected by the force drawing





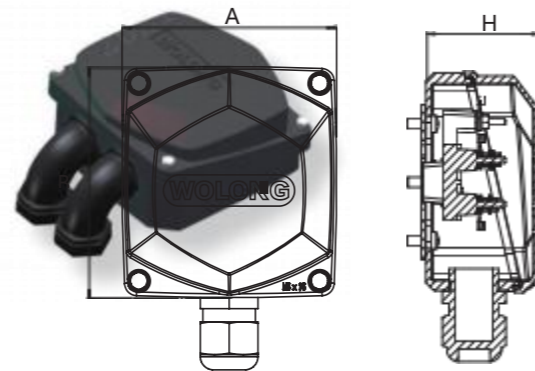
Out-line line of junction box

seat No	Overall dimension: A x B x H (mm)	Number and size of the outlet holes at the motor end	Number and size of client outgoing holes	Adapt to the hose (sylphon bellows)	binding post screw thread
132	136 x 146 x 72	2-M33X2	2-M33X2	AD 34.5	M 5
160-180	171 x 181 x 91	2-M36X2	2-M36X2	AD 34.5	M 6
200-225	220 x 230 x 113	2-M48X2	2-M48X2	AD 42.5	M 8
250-280	270 x 280 x 116.5	2-M64X2	2-M64X2	AD 54.5	M 10
315	312 x 329 x 175	2-M64X2	2-M64X2	AD 54.5	M 12
355	382 x 402 x 200	2-M75X2	2-M75X2	Φ 64	M 16

Cover plate of of cover form

seat No	Overall dimension: A x B x H (mm)	Number and size of the outlet holes at the motor end	Number and size of client outgoing holes	Adapt to the hose (sylphon bellows)	binding post screw thread
132	136 x 146 x 72	2-M33X2	2-M33X2	AD 34.5	M 5
160-180	171 x 181 x 91	2-M36X2	2-M36X2	AD 34.5	M 6
200-225	220 x 230 x 113	2-M48X2	2-M48X2	AD 42.5	M 8
250-280	270 x 280 x 116.5	2-M64X2	2-M64X2	AD 54.5	M 10
315	312 x 329 x 175	2-M64X2	2-M64X2	AD 54.5	M 12
355	382 x 402 x 200	2-M75X2	2-M75X2	Φ 64	M 16

Out-line line of junction



1 seat No	Overall dimension: A x B x H (mm)	Number and size of the outlet	Single sleeve lock cable, diameter range (mm)	Terminal terminal
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Motor selections

WEPM-CR & WEPM 5-CR series motors can be set with thermal protection,

the user can choose according to the configuration below.

name	The PTC thermistor
model	MZ 6 160 D
use	Motor overheat protection
Action temperature and precision	160±5°C
quantity	tris
Set the location	One for each phase, buried at the highest temperature at the end of the drive end.
attended mode	Three elements are connected in series with two lead lines to the junction box junction board
Leader color and marking	Black and black, P1, P2
Schematic diagram of wiring	

Note: 1. The PTC action temperature can be customized according to customer

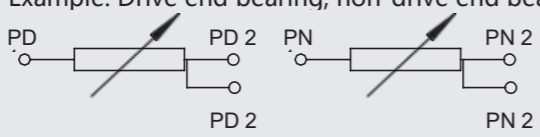
Winding thermal sensor

name	mometer
model	WZP platinum thermal resistance sensor, three leads.
use	Motor winding temperature detection, high temperature protection.
Resistance and precision at 0°C	100 ± 0.12 Ω (Class B tolerance)
quantity	3 units per unit
Set the location	One for each phase, buried at the highest temperature at the end of the drive end.
attended mode	The three elements are not connected, and each element has three lead lines to the junction box.
Lead marking	<p>U-PU 1, PU2, PU2; V-PV1, PV2, PV2; W-PW 1, PW 2, PW 2.</p> <p>If there are two elements per phase winding, the lead of the other element is marked as:</p> <p>U phase- -PU3, PU4, PU4; V phase- -PV3, PV4, PV4; W phase- -PW 3, PW 4, PW 4</p>
Schematic diagram of wiring	<p>Example: The U-phase</p>

		holes		thread
132	136 x 146 x 72	2-M25X1.5	Φ 8~Φ12	M 5
160-180	171 x 181 x 91	2-M32X1.5	Φ 16~Φ21	M 6
200-225	220 x 230 x 113	2-M50X1.5	Φ 32~Φ39	M 8
250-280	270 x 280 x 116.5	2-M63X1.5	Φ 37~Φ44	M 10
315	312 x 329 x 175	2-M63X1.5	Φ 37~Φ44	M 12
355	382 x 402 x 200	2-M72X2	Φ 45~Φ53	M 16


3. Pipe joint size can be customized according to the British system and non-standard size specifications of customer needs;
4. The length of lead wiring is 1.5m, and the length of suitable corrugated hose is 1.3m.

Bearing thermal sensor element PT 100

name	mometer
model	WZP-M bearing temperature measurement high temperature lead sensor, three leads, metal shell packaging
use	Bearing temperature display, high temperature protection.
Resistance and precision at 0°C	100 ± 0.12 Ω (Class B tolerance)
quantity	One bearing at each end
Set the location	Buried on the inside of the end cover, the end surface of the sensor must contact the bearing outer ring.
attended mode	Three lead lines for each element to the junction box.
Lead marking	Drive end bearing (DE) -PD 1, PD 2, PD 2; non-drive end bearing (NDE) -PN 1, PN 2, PN 2 If two elements are used for each end bearing, the lead of the other element is marked: Drive end bearing (DE) -PD 3, PD 4, PD 4; non-drive end bearing (NDE) -PN 3, PN 4, PN 4
Schematic diagram of wiring	Example: Drive end bearing, non-drive end bearing 
Applicable seat number	160~355

According to the need of temperature measurement elements can also be used in K type or T type temperature measuring line.

Anti-condensation plus tropical

name	Moisture-proof and tropical
use	Prevent condensation inside the motor resulting in low insulation resistance
Insulation materials are temperature-resistant	≥ 250°C
rated voltage	AC single phase, 220~240V (specified when ordering)
Set the location	Bind at the drive winding end of the motor
attended mode	Two lead lines to the junction box
Lead marking	H 1、 H2
Schematic diagram of wiring	
Single plus tropic rated power (W)	30 30 40 40 50 50 60 60 60 80 110
Motor set number	100 112 132 160 180 200 225 250 280 315 355
Tropical numbers	1 1 1 1 1 1 1 1 1 2 2

Motor ordering guide

Motor selection considers the following factors

Voltage: 380V; 400V; 460V; 660V; Other.

Speed: 1500r / min; 3000r / min; others.

Installation type: IMB 3; IMB 35; IMB 5; Other.

Operating environment: indoor; outdoor; anti-corrosion; Other.

Protection level: IP 55; IP 56; Other.

Service factor: SF =1.15; SF =1.2; SF =1.3; Other.

Connecting mode of the motor and the driven equipment: coupling; belt; other.

Working system: S 1; Other.

Insulation class: 155 (F); 180 (H); Other.

Rotation direction: clockwise; counterclockwise; bidirectional.

Junction box position: motor top facing left (see from the shaft extension end); Other.

Junction box inlet port type: screw sleeve; pipe joint; other.

Instance

Requirements: hub center height 280,132kW, 1500r / min, service coefficient SF=1.2,380V, protection level IP55, insulation level F, installation mode B35 top outlet (outlet hole facing left). The motor is marked as follows: WEPM-280S-132-1500-CR SF =1.2 380V IMB 35 Top outlet (outlet hole facing left) IP55 F

If the user has special requirements for voltage, rotation speed, protection level, rotation direction, installation method, shaft extension, noise, vibration and junction box, the consent of the technical personnel shall be obtained before manufacturing.

The data in this sample is allowed to change with technological progress without notice. Please note the change of the sample version.

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