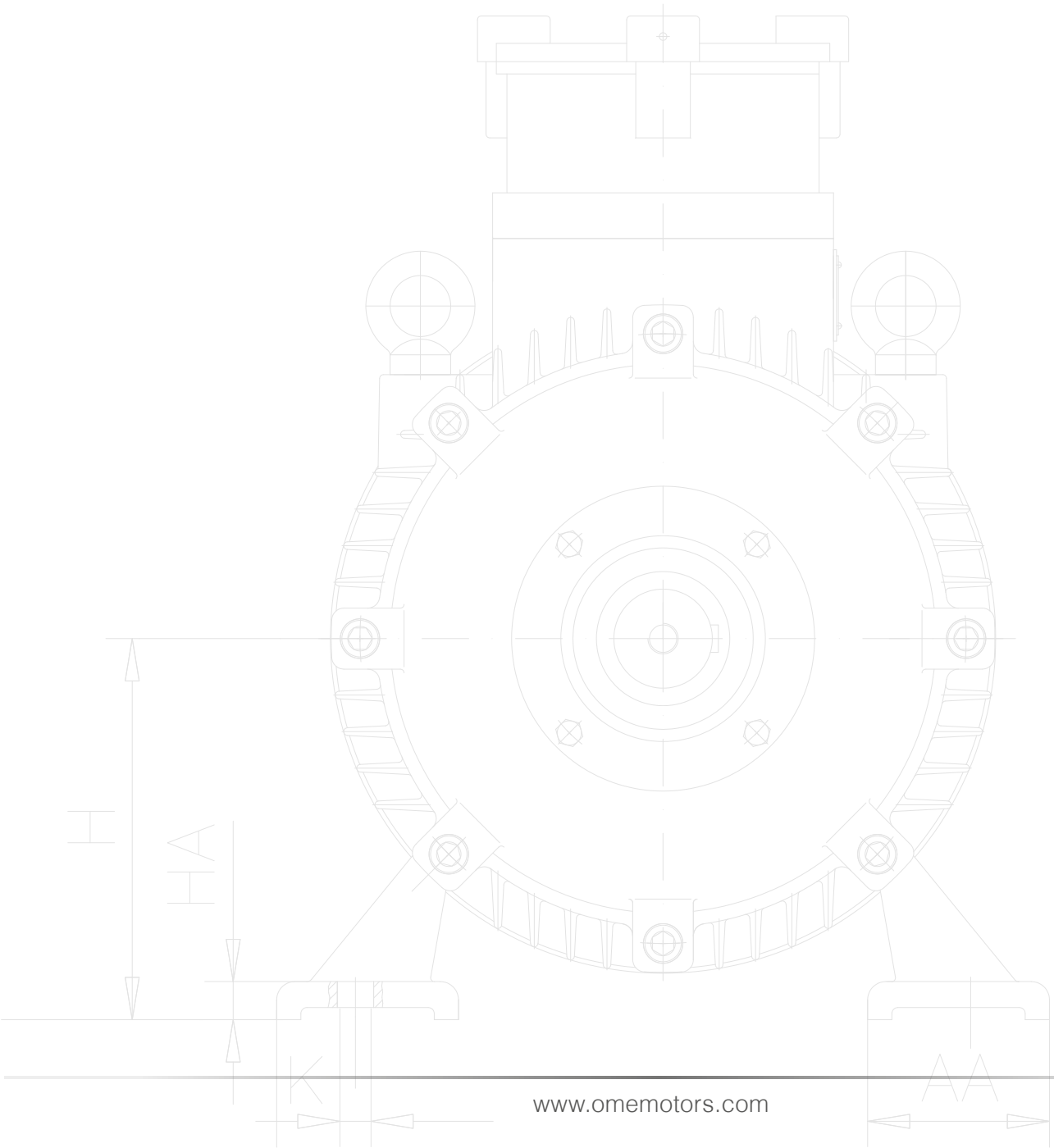
OMPM

PERMANENT MAGNET ULTRA PREMIUM EFFICIENCY SERIES

www.omemotors.com

ISO14000 ISO9001

GENERAL INFORMATION



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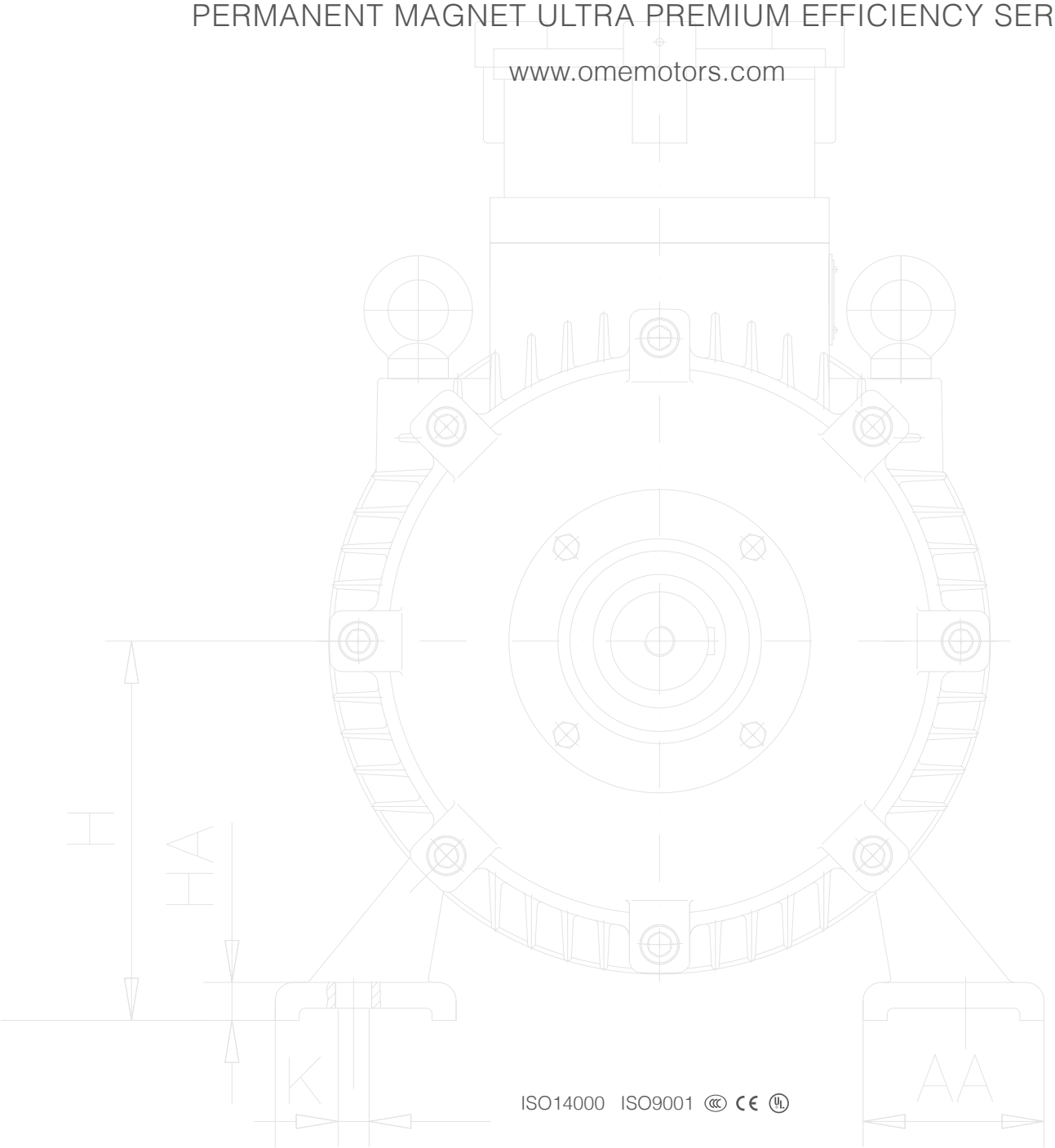

ISO14000 ISO9001

OMPM SERIES
PERMANENT MAGNET ULTRA PREMIUM EFFICIENCY

Magnet drive System • Precise control at low speed • Compact design

- Standard low voltage motors - or IEC motors - designed and manufactured by OME are low voltage motors that offer high efficiency and at the same time effective energy savings, in line with environmental regulations.

- OME high efficiency motors ensure significant optimisation of energy consumption, safeguarding the environment and ensuring substantial savings in operating costs.

OME Electric Motors

OME IEC low voltage motors are suitable for all industrial sectors and applications, complying with national and international mandatory efficiency rules.
OME's motors help our customers increase their productivity, save energy, improve quality and generate power.

- High quality components including superior copper, metal cable glands and SKF bearings.
Thanks to their high quality, OME electric motors are perfectly suitable for heavy duty applications, with Long lasting performances.

High quality production

- OME also pays exceptional care and to the design attention of its electric motors.
This increase the cooling efficiency and also the looking of the product.

Modern design

- Customized packaging that provides increased protection during transport and an easyer handling.

Superior packaging

OME Electric Motors and Orsatti Group

OME is a well-established global reality born from the Orsatti family's long experience in the electrical machinery sector and characterized by a history in continuous evolution.

The key points that distinguish the Orsatti Group are in particular:

- Technical experience of over 50 years
- The continuous research for new solutions to increase the performance of our electric motors
- Development of technical solutions in compliance with current standards
- The tailor-made service to customize the motors on customer request
- The wide range of production to meet any market need
- The constant research for suitable solutions to increase the efficiency of our electric motors
- Compliance with the standards required for energy saving and environmental protection

MISSION

Our mission is to be a leading company in the production of electric motors at an international level.

VISION

Our vision is to design and manufacture highly customized motors, meeting the most varied customer requirements, managing to make competitive even the smallest realities.

VALUES

- The high quality of production, sales, service and maintenance;
- Intelligent and low costs logistics;
- Providing motors, services and expertise to save energy and improve customer processes throughout the life cycle of our products and beyond.

Series OMPM

PERMANENT MAGNET ULTRA PREMIUM EFFICIENCY SERIES

- The OMPM series motors by Ome Motors are self-ventilated three-phase motors equipped with IC 411 cooling systems with air-water exchanger.

These are highly efficient devices, with a light and compact structure that can successfully adapt to the most diverse work situations, offering high performance.

Permanent Magnets Motors: the Best for Efficiency and Performance.
The OMPM series permanent magnet motors designed and built by OME Motors are the best model for efficiency, power and size among those available on the market. These are special synchronous electric motors with magnetic bars added to the rotor, which increase thrust and make these devices more efficient in terms of performance and energy savings.

Therefore, permanent magnet motors are even more powerful than standard motors - low voltage IE4: with the same power, in fact, the OMPM series devices have smaller dimensions and greater efficiency. Thanks to their low weight and low volume, in addition, permanent magnet synchronous motors save space, taking advantage of a large condensed power.
The permanent magnet motors designed and made to measure by OME Motors are controlled and operate through a frequency inverter, which guarantees constant torque over a wide speed range, operating even at the lowest levels with superior efficiency. Therefore, these devices can also be defined as direct current motors with permanent magnets.

High Level Efficiency For Unmatched Benefits: Discover the Features of Permanent Magnet Motors.

• DC motors with permanent magnets are devices capable of enclosing maximum power in a reduced volume. In particular, they offer the following advantages:

- High level of technology.

- Greater efficiency in terms of performance and energy consumption (each permanent magnet electric motor) is powerful and efficient, but also energy saving.

- High power density per frame.

- Long life, resistance and reliability over time.

- Reduced weight and volume for a compact design

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- Greater efficiency in terms of performance and energy consumption (each permanent magnet electric motor) is powerful and efficient, but also energy saving.

- High power density per frame.

- Long life, resistance and reliability over time.

- Reduced weight and volume for a compact design.

- Maximum flexibility and interchangeability, guaranteed by the structure of each permanent magnet motor.

- Less energy and temperature loss thanks to the two efficiency levels guaranteed by each permanent magnet synchronous motor.

- Variable speed.

- Precise control and operation at lower temperatures, even at low speeds.

- Reduced noise.

Permanent Magnet Synchronous Motors: Maximum Performance In Every Application.

Thanks to their advanced and innovative features, the permanent magnet electric motors designed and manufactured by OME Motors are ideal in the most diverse fields. In general, these devices can be used with excellent performance and maximum efficiency in all those applications that require a variation in speed and constant torque even at low speeds. Specifically, permanent magnet synchronous motors can be used inside power plants, purification systems, water treatment and desalination, air treatment plants but also food industries. They work effectively in combination with pumps, compressors, crushers and shredders, fans and blowers, conveyor belts, heating, ventilation and air conditioning (HVAC) systems.

MAIN FEATURES:

Rated power: KW 0,55-KW 315

Ambient temperature: -15+40°C

Altitude:lower than 1000 meters above sea level

Rated voltage:V.230/400,V. 400/690

Rated frequency: HZ.50 HZ.60

Connection: Delta connetion

Duty: Continuous(S1)

Insulation class: F

Protection calss: IP54/IP55

Cooling method:IC 411

The series has a self starting capability within 25-120% load range,relative to the same standard asynchronous motors. have a higher efficiency, wide range of economic operation, with significant energy savings.

Motor temperature low, at rated load, the motor temperature at 30-50K.

Application:

Widely used in petrochemical, power, transportation, textile and other industrial and mining environment,for driving fans, pumps, compressors, belt machines, machine tools and other machinery.

TECHNICAL DATA

OMPM Permanent Magnet Ultra Premium Efficiency Series

2P Synchronous speed 3000r/min

Model	Rated Output		Rated Current (A)		Speed	Eff(%)	Power factor COSφ	Is/In	Tmax/Tn
	HP	KW	230/400V	400/690V	rpm				
OMPM80A2	1	0.75	2.29/1.32	/	3000	90.0	0.96	9.5	2.3
OMPM80B2	1.5	1.1	3.36/1.94	/	3000	90.0	0.96	9.5	2.3
OMPM90S2	2	1.5	4.59/2.65	/	3000	90.0	0.96	9.5	2.3
OMPM90L2	3	2.2	6.73/3.88	/	3000	91.0	0.96	9.5	2.3
OMPM100M2	4	3	9.17/5.3	/	3000	91.0	0.96	9.5	2.3
OMPM112M2	5.5	4	12.09/6.98	/	3000	92.0	0.96	9.5	2.3
OMPM132SA2	7.5	5.5	16.43/9.49	/	3000	92.1	0.96	9.0	2.3
OMPM132SB2	10	7.5	22.17/12.8	/	3000	92.1	0.96	9.0	2.3
OMPM160MA2	15	11	/	18.54/10.71	3000	93.6	0.96	9.0	2.2
OMPM160MB2	20	15	/	24.84/14.34	3000	92.1	0.96	9.0	2.3
OMPM160L2	25	18.5	/	30.46/17.58	3000	94.0	0.96	9.0	2.2
OMPM180M2	30	22	/	36.11/20.85	3000	94.3	0.96	9.0	2.2
OMPM200LA2	40	30	/	48.92/28.25	3000	94.7	0.96	9.0	2.2
OMPM200LB2	50	37	/	60.09/34.69	3000	95.0	0.96	9.0	2.2
OMPM225M2	60	45	/	72.84/42.05	3000	95.6	0.96	9.0	2.2
OMPM250M2	75	55	/	88.74/51.24	3000	95.8	0.96	9.0	2.2
OMPM280S2	100	75	/	118.32/68.32	3000	96.0	0.96	9.0	2.2
OMPM280M2	125	90	/	147.9/85.4	3000	96.2	0.96	9.0	2.2
OMPM315S2	150	110	/	177.49/102.47	3000	96.4	0.96	9.0	2.1
OMPM315M2	180	132	/	212.89/122.97	3000	96.5	0.96	9.0	2.1
OMPM315LA2	200	160	/	236.65/136.63	3000	96.5	0.96	9.0	2.1
OMPM315LB2	270	200	/	319.47/184.45	3000	96.6	0.96	9.0	2.1
OMPM355MA2	300	220	/	354.97/204.95	3000	96.6	0.96	9.0	2.1
OMPM355MB2	340	250	/	402.3/232.28	3000	96.7	0.96	9.0	2.1
OMPM355LA2	370	280	/	437.8/252.77	3000	96.8	0.96	9.0	2.1
OMPM355LB2	430	315	/	508.79/293.76	3000	96.8	0.96	9.0	2.1

4P Synchronous speed 1500r/min

Model	Rated Output		Rated Current (A)		Speed	Eff(%)	Power factor COSφ	Is/In	Tmax/Tn
	HP	KW	230/400V	400/690V	rpm				
OMPM80A4	0.75	0.55	1.29/0.74	/	1500	90.0	0.96	9.5	2.3
OMPM80B4	1	0.75	2.19/1.27	/	1500	90.0	0.96	9.5	2.3
OMPM90S4	1.5	1.1	3.23/1.87	/	1500	90.0	0.96	9.5	2.3
OMPM90L4	2	1.5	4.4/2.54	/	1500	91.0	0.96	9.5	2.3
OMPM100LA4	3	2.2	6.38/3.69	/	1500	91.0	0.96	9.5	2.3
OMPM100LB4	4	3	8.69/5.02	/	1500	92.0	0.96	9.5	2.3
OMPM112M4	5.5	4	11.46/6.62	/	1500	92.0	0.96	9.5	2.3
OMPM132S4	7.5	5.5	15.67/9.05	/	1500	92.1	0.96	9.0	2.3
OMPM132M4	10	7.5	21.11/12.19	/	1500	92.6	0.96	9.0	2.3
OMPM160M4	15	11	/	17.71/10.23	1500	93.6	0.96	9.0	2.2
OMPM160L4	20	15	/	24.1/13.91	1500	94.0	0.96	9.0	2.2
OMPM180M4	25	18.5	/	29.52/17.05	1500	94.3	0.96	9.0	2.2
OMPM180L4	30	22	/	35.05/20.24	1500	94.7	0.96	9.0	2.2
OMPM200L4	40	30	/	47.62/27.49	1500	95.0	0.96	9.0	2.2
OMPM225S4	50	37	/	58.48/33.76	1500	95.3	0.96	9.0	2.2
OMPM225M4	60	45	/	70.95/40.97	1500	95.6	0.96	9.0	2.2
OMPM250M4	75	55	/	86.57/49.98	1500	95.8	0.96	9.0	2.2
OMPM280S4	100	75	/	117.71/67.96	1500	96.0	0.96	9.0	2.2
OMPM280M4	125	90	/	141.05/81.44	1500	96.2	0.96	9.0	2.2
OMPM315S4	150	110	/	172/99.31	1500	96.4	0.96	9.0	2.1
OMPM315M4	180	132	/	206.19/119.05	1500	96.5	0.96	9.0	2.1
OMPM315LA4	220	160	/	249.9/144.29	1500	96.5	0.96	9.0	2.1
OMPM315LB4	270	200	/	312.1/180.19	1500	96.6	0.96	9.0	2.1
OMPM315LC4	293	220	/	343.24/198.17	1500	96.6	0.96	9.0	2.1
OMPM355M4	340	250	/	387.82/223.91	1500	96.7	0.96	9.0	2.1
OMPM355L4	430	315	/	490.48/283.18	1500	96.8	0.96	9.0	2.1

6P Synchronous speed 1000r/min

Model	Rated Output		Rated Current (A)		Speed	Eff(%)	Power factor COSφ	Is/In	Tmax/Tn
	HP	KW	230/400V	400/690V	rpm				
OMPM80B6	0.75	0.55	1.65/0.95	/	1000	90.0	0.96	9.5	2.1
OMPM90S6	1	0.75	2.19/1.27	/	1000	90.0	0.96	9.5	2.1
OMPM90L6	1.5	1.1	3.23/1.87	/	1000	91.0	0.96	9.5	2.1
OMPM100LA6	2	1.5	4.39/2.53	/	1000	91.0	0.96	9.5	2.0
OMPM112M6	3	2.2	6.38/3.69	/	1000	91.0	0.96	9.5	2.0
OMPM132SA6	4	3	8.69/5.02	/	1000	91.5	0.96	9.0	2.1
OMPM132MA6	5.5	4	11.38/6.57	/	1000	92.4	0.96	9.0	2.1
OMPM132MB6	7.5	5.5	15.34/8.86	/	1000	93.1	0.96	9.0	2.1
OMPM160MA6	10	7.5	/	12.1/6.98	1000	93.7	0.96	9.0	2.0
OMPM160L6	15	11	/	17.62/10.17	1000	94.3	0.96	9.0	2.0
OMPM180L6	20	15	/	23.9/13.8	1000	94.7	0.96	9.0	2.0
OMPM200LA6	25	18.5	/	29.33/16.94	1000	95.1	0.96	9.0	2.1
OMPM200LB6	30	22	/	34.76/20.07	1000	95.4	0.96	9.0	2.1
OMPM225M6	40	30	/	47.24/27.27	1000	95.7	0.96	9.0	2.0
OMPM250M6	50	37	/	58.19/33.6	1000	95.9	0.96	9.0	2.1
OMPM280S6	60	45	/	70.67/40.8	1000	96.0	0.96	9.0	2.1
OMPM280M6	75	55	/	86.29/49.82	1000	96.1	0.96	9.0	2.1
OMPM315S6	100	75	/	117.52/67.85	1000	96.2	0.96	9.0	2.0
OMPM315M6	125	90	/	141.05/81.44	1000	96.2	0.96	9.0	2.0
OMPM315LA6	150	110	/	172.19/99.42	1000	96.3	0.96	9.0	2.0
OMPM315LB6	180	132	/	206.57/119.27	1000	96.3	0.96	9.0	2.0
OMPM355MA6	220	160	/	250.48/144.62	1000	96.3	0.96	9.0	1.9
OMPM355MB6	270	200	/	312.76/180.58	1000	96.4	0.96	9.0	1.9
OMPM355L6	340	250	/	390.86/225.67	1000	96.4	0.96	9.0	1.9

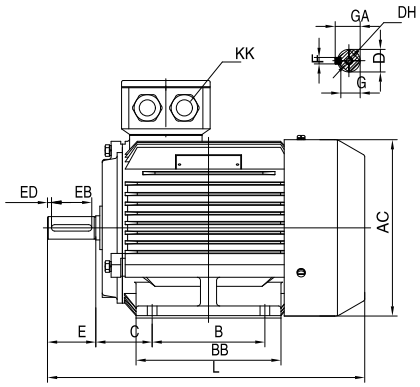
8P Synchronous speed 750r/min

Model	Rated Output		Rated Current (A)		Speed	Eff(%)	Power factor COSφ	Is/In	Tmax/Tn
	HP	KW	230/400V	400/690V	rpm				
OMPM160MA8	5.5	4	/	6.57/3.79	750	91.8	0.96	9.0	1.9
OMPM160MB8	7.5	5.5	/	8.95/5.17	750	92.6	0.96	9.0	2.0
OMPM160L8	10	7.5	/	12.1/6.98	750	93.2	0.96	9.0	2.0
OMPM180L8	15	11	/	17.71/10.23	750	93.7	0.96	9.0	2.0
OMPM200LA8	20	15	/	24/13.86	750	94.2	0.96	9.0	2.0
OMPM200LB8	25	18.5	/	29.52/17.05	750	94.6	0.96	9.0	1.9
OMPM225M8	30	22	/	34.95/20.18	750	94.9	0.96	9.0	1.9
OMPM250M8	40	30	/	47.52/27.44	750	95.1	0.96	9.0	1.9
OMPM280S8	50	37	/	58.48/33.76	750	95.3	0.96	9.0	1.9
OMPM280M8	60	45	/	71.05/41.02	750	95.5	0.96	9.0	1.9
OMPM315S8	75	55	/	86.76/50.09	750	95.6	0.96	9.0	1.8
OMPM315M8	100	75	/	118.1/68.18	750	95.7	0.96	9.0	1.8
OMPM315LA8	125	90	/	141.71/81.82	750	95.7	0.96	9.0	1.8
OMPM315LB8	150	110	/	173.24/100.02	750	95.7	0.96	9.0	1.8
OMPM315LC8	180	132	/	207.71/119.93	750	95.8	0.96	9.0	1.8

10P Synchronous speed 600r/min

Model	Rated Output		Rated Current (A)		Speed	Eff(%)	Power factor COSφ	Is/In	Tmax/Tn
	HP	KW	230/400V	400/690V	rpm				
OMPM315S10	60	45	/	73.63/42.51	600	95.7	0.96	9.0	1.8
OMPM315M10	75	55	/	89.79/51.84	600	95.7	0.96	9.0	1.8
OMPM315L10	100	75	/	122.19/70.55	600	95.8	0.96	9.0	1.8

MOUNTING AND OVERALL DIMENSIONS



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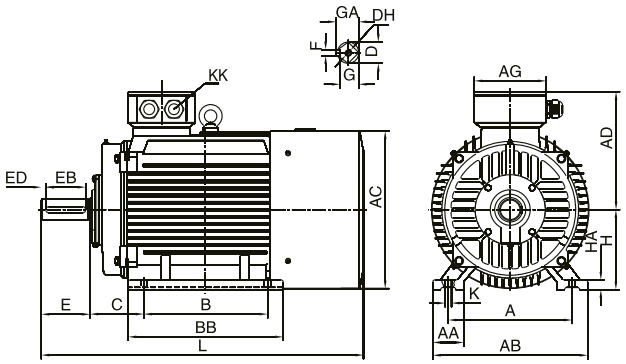
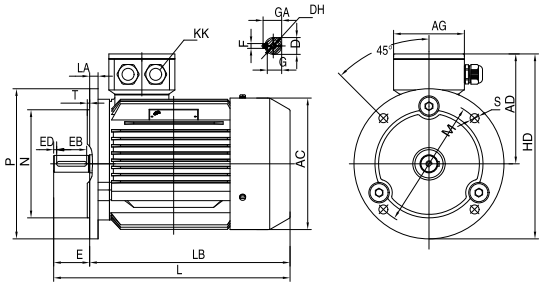


160-355

IM B3 H80-355																						
TYPE	POLE	A	AA	AB	AC	AD	AG	B	BB	C	D	DH	E	EB	ED	F	G	GA	H	HA	K	KK	L
80	2/4/6/8	125	32	165	175	140	94	100	150	50	19	M6X16	40	30	5	6	15.5	21.5	80	12	4-Φ10	1-M25X1.5	295
90S	2/4/6/8	140	34	180	195	160	102	100	185	56	24	M8X19	50	40	5	8	20	27	90	14	4-Φ10	1-M25X1.5	320
90L	2/4/6/8	140	34	180	195	160	102	125	210	56	24	M8X19	50	40	5	8	20	27	90	14	4-Φ10	1-M25X1.5	345
100L	2/4/6/8	160	39	205	215	170	102	140	223	63	28	M10X22	60	50	5	8	24	31	100	16	4-Φ12	1-M32X1.5	385
112M	2/4/6/8	190	45	230	240	188	118	140	230	70	28	M10X22	60	50	5	8	24	31	112	16	4-Φ12	2-M32X1.5	400
132S	2/4/6/8	216	55	270	275	213	118	140	186	89	38	M12X28	80	65	7.5	10	33	41	132	20.5	4-Φ12	2-M32X1.5	470
132M	4/6/8	216	55	270	275	213	118	178	224	89	38	M12X28	80	65	7.5	10	33	41	132	20.5	4-Φ12	2-M32X1.5	510
160M	2/4/6/8	254	65	320	330	260	162	210	304	108	42	M16X36	110	90	10	12	37	45	160	23	4-Φ14.5	2-M40X1.5	615
160L	2/4/6/8	254	65	320	330	260	162	254	334	108	42	M16X36	110	90	10	12	37	45	160	23	4-Φ14.5	2-M40X1.5	670
180M	2/4/8	279	70	355	380	275	162	241	311	121	48	M16X36	110	90	10	14	42.5	51.5	180	25	4-Φ14.5	2-M40X1.5	700
180L	4/6/8	279	70	355	380	275	162	279	349	121	48	M16X36	110	90	10	14	42.5	51.5	180	25	4-Φ14.5	2-M40X1.5	740
200L	2/4/6/8	318	74	395	420	305	210	305	379	133	55	M20X42	110	100	5	16	49	59	200	29	4-Φ16.5	2-M50X1.5	770
225S	4/8	356	75	435	470	335	210	286	368	149	60	M20X42	140	125	7.5	18	53	64	225	31	4-Φ18.5	2-M50X1.5	815
225M	2	356	75	435	470	335	210	311	393	149	55	M20X42	110	100	5	16	49	59	225	31	4-Φ18.5	2-M50X1.5	820
225M	4/6/8	356	75	435	470	335	210	311	393	149	60	M20X42	140	125	7.5	18	53	64	225	31	4-Φ18.5	2-M50X1.5	845
250M	2	406	80	490	510	365	248	349	445	168	60	M20X42	140	125	7.5	18	53	64	250	33	4-Φ24	2-M63X1.5	910
250M	4/6/8	406	80	490	510	365	248	349	445	168	65	M20X42	140	125	7.5	18	58	69	250	33	4-Φ24	2-M63X1.5	910
280S	2	457	85	550	580	400	248	368	485	190	65	M20X42	140	125	7.5	18	58	69	280	38.5	4-Φ24	2-M63X1.5	985
280S	4/6/8	457	85	550	580	400	248	368	485	190	75	M20X42	140	125	7.5	20	67.5	79.5	280	38.5	4-Φ24	2-M63X1.5	985
280M	2	457	85	550	580	400	248	419	536	190	65	M20X42	140	125	7.5	18	58	69	280	38.5	4-Φ24	2-M63X1.5	1035
280M	4/6/8	457	85	550	580	400	248	419	536	190	75	M20X42	140	125	7.5	20	67.5	79.5	280	38.5	4-Φ24	2-M63X1.5	1035
315S	2	508	120	635	645	530	320	406	570	216	65	M20X42	140	125	7.5	18	58	69	315	45	4-Φ28	2-M63X1.5	1160
315S	4/6/8/10	508	120	635	645	530	320	406	570	216	80	M20X42	170	160	5	22	71	85	315	45	4-Φ28	2-M63X1.5	1270
315M	2	508	120	635	645	530	320	457	610	216	65	M20X42	140	125	7.5	18	58	69	315	45	4-Φ28	2-M63X1.5	1190
315M	4 6/8/10	508	120	635	645	530	320	457	610	216	80	M20X42	170	160	5	22	71	85	315	45	4-Φ28	2-M63X1.5	1300
315L	2	508	120	635	645	530	320	508	680	216	65	M20X42	140	125	7.5	18	58	69	315	45	4-Φ28	2-M63X1.5	1190
315L	4 6/8/10	508	120	635	645	530	320	508	680	216	80	M20X42	170	160	5	22	71	85	315	45	4-Φ28	2-M63X1.5	1300
355M	2	610	130	730	710	655	380	560	690	254	75	M20X50	140	130	5	20	67.5	79.5	355	52	6-Φ28	2-M63X1.5	1500
355M	4 6/8/10	610	130	730	710	655	380	560	690	254	95	M24X50	170	160	5	25	86	100	355	52	6-Φ28	2-M63X1.5	1530
355L	2	610	130	730	710	655	380	630	750	254	75	M20X50	140	130	5	20	67.5	79.5	355	52	6-Φ28	2-M63X1.5	1500
355L	4 6/8/10	610	130	730	710	655	380	630	750	254	95	M24X50	170	160	5	25	86	100	355	52	6-Φ28	2-M63X1.5	1530



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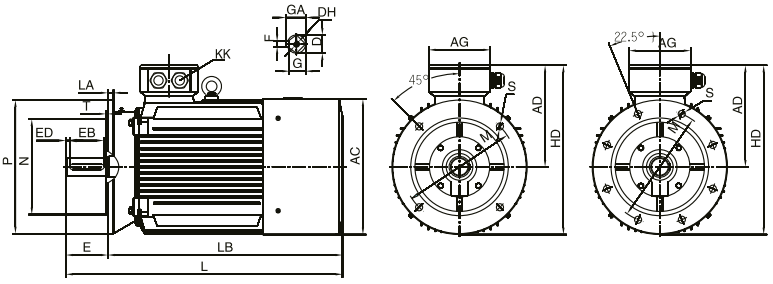

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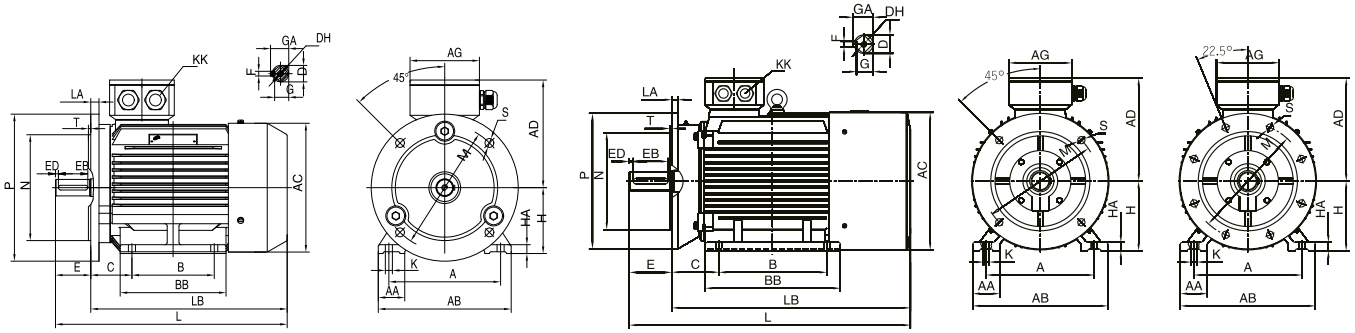
IM B5 H80-355																				
TYPE	POLE	AC	AD	AG	D	DH	E	EB	ED	F	G	GA	HD	KK	L	M	N	P	S	T
80	2/4/6/8	175	140	94	19	M6X16	40	30	5	6	15.5	21.5	211.5	1-M25X1.5	295	165	130	200	12	3.5
90S	2/4/6/8	195	160	102	24	M8X19	50	40	5	8	20	27	232	1-M25X1.5	320	165	130	200	12	3.5
90L	2/4/6/8	195	160	102	24	M8X19	50	40	5	8	20	27	232	1-M25X1.5	345	165	130	200	12	3.5
100L	2/4/6/8	215	180	102	28	M10X22	60	50	5	8	24	31	245	1-M32X1.5	385	215	180	250	14.5	4
112M	2/4/6/8	240	190	118	28	M10X22	60	50	5	8	24	31	265	2-M32X1.5	400	215	180	250	14.5	4
132S	2/4/6/8	275	210	118	38	M12X28	80	65	7.5	10	33	41	315	2-M32X1.5	470	265	230	300	14.5	4
132M	4/6/8	275	210	118	38	M12X28	80	65	7.5	10	33	41	315	2-M32X1.5	510	265	230	300	14.5	4
160M	2/4/6/8	300	255	162	42	M16X36	110	90	10	12	37	45	385	2-M40X1.5	615	300	250	350	18.5	5
160L	2/4/6/8	300	255	162	42	M16X36	110	90	10	12	37	45	385	2-M40X1.5	670	300	250	350	18.5	5
180M	2/4/8	380	280	162	48	M16X36	110	90	10	14	42.5	51.5	430	2-M40X1.5	700	300	250	350	18.5	5
180L	4/6/8	380	280	162	48	M16X36	110	90	10	14	42.5	51.5	430	2-M40X1.5	740	300	250	350	18.5	5
200L	2/4/6/8	420	305	210	55	M20X42	110	100	5	16	49	59	480	2-M50X1.5	770	350	300	400	18.5	5
225S	4/8	470	335	210	60	M20X42	140	125	7.5	18	53	64	535	2-M50X1.5	815	400	350	450	18.5	5
225M	2	470	335	210	55	M20X42	110	100	5	16	49	59	535	2-M50X1.5	820	400	350	450	18.5	5
225M	4/6/8	470	335	210	60	M20X42	140	125	7.5	18	53	64	535	2-M50X1.5	845	400	350	450	18.5	5
250M	2	510	370	248	60	M20X42	140	125	7.5	18	53	64	595	2-M63X1.5	910	500	450	550	18.5	5
250M	4/6/8	510	370	248	65	M20X42	140	125	7.5	18	58	69	595	2-M63X1.5	910	500	450	550	18.5	5
280S	2	580	410	248	65	M20X42	140	125	7.5	18	58	69	650	2-M63X1.5	985	500	450	550	18.5	5
280S	4/6/8	580	410	248	75	M20X42	140	125	7.5	20	67.5	79.5	650	2-M63X1.5	985	500	450	550	18.5	5
280M	2	580	410	248	65	M20X42	140	125	7.5	18	58	69	650	2-M63X1.5	1035	500	450	550	18.5	5
280M	4/6/8	580	410	248	75	M20X42	140	125	7.5	20	67.5	79.5	650	2-M63X1.5	1035	500	450	550	18.5	5
315S	2	645	527	320	65	M20X42	140	125	7.5	18	58	69	857	2-M63X1.5	1160	600	550	660	24	6
315S	4/6/8/10	645	527	320	80	M20X42	170	160	5	22	71	85	857	2-M63X1.5	1270	600	550	660	24	6
315M	2	645	527	320	65	M20X42	140	125	7.5	18	58	69	857	2-M63X1.5	1190	600	550	660	24	6
315M	4 6/8/10	645	527	320	80	M20X42	170	160	5	22	71	85	857	2-M63X1.5	1300	600	550	660	24	6
315L	2	645	527	320	65	M20X42	140	125	7.5	18	58	69	857	2-M63X1.5	1190	600	550	660	24	6
315L	4 6/8/10	645	527	320	80	M20X42	170	160	5	22	71	85	857	2-M63X1.5	1300	600	550	660	24	6
355M	2	710	642	380	75	M20X50	140	130	5	20	67.5	79.5	1042	2-M63X1.5	1500	740	680	800	24	6
355M	4 6/8/10	710	642	380	95	M24X50	170	160	5	25	86	100	1042	2-M63X1.5	1530	740	680	800	24	6
355L	2	710	642	380	75	M20X50	140	130	5	20	67.5	79.5	1042	2-M63X1.5	1500	740	680	800	24	6
355L	4 6/8/10	710	642	380	95	M24X50	170	160	5	25	86	100	1042	2-M63X1.5	1530	740	680	800	24	6



80-132 160-200 225-355

IM B35 H80-355																											
TYPE	POLE	A	AA	AB	AC	AD	AG	B	BB	C	D	DH	E	EB	ED	F	G	GA	H	HA	K	KK	L	M	N	P	S	T
80	2/4/6/8	125	32	165	175	140	102	100	150	50	19	M6×16	40	30	5	6	15.5	21.5	80	12	4-Φ10	1-M25×1.5	295	165	130	200	12	3.5
90S	2/4/6/8	140	34	180	195	170	102	100	185	56	24	M8×19	50	40	5	8	20	27	90	14	4-Φ10	1-M25×1.5	320	165	130	200	12	3.5
90L	2/4/6/8	140	34	180	195	170	102	125	210	56	24	M8×19	50	40	5	8	20	27	90	14	4-Φ10	1-M25×1.5	345	165	130	200	12	3.5
100L	2/4/6/8	160	39	205	215	170	102	140	223	63	28	M10×22	60	50	5	8	24	31	100	16	4-Φ12	1-M32×1.5	385	215	180	250	14.5	4
112M	2/4/6/8	190	45	230	240	188	118	140	230	70	28	M10×22	60	50	5	8	24	31	112	16	4-Φ12	2-M32×1.5	400	215	180	250	14.5	4
132S	2/4/6/8	216	55	270	275	213	118	140	186	89	38	M12×28	80	65	7.5	10	33	41	132	20.5	4-Φ12	2-M32×1.5	470	265	230	300	14.5	4
132M	4/6/8	216	55	270	275	213	118	178	224	89	38	M12×28	80	65	7.5	10	33	41	132	20.5	4-Φ12	2-M32×1.5	510	265	230	300	14.5	4
160M	2/4/6/8	254	65	320	330	260	162	210	304	108	42	M16×36	110	90	10	12	37	45	160	23	4-Φ14.5	2-M40×1.5	615	300	250	350	18.5	5
160L	2/4/6/8	254	65	320	330	260	162	254	334	108	42	M16×36	110	90	10	12	37	45	160	23	4-Φ14.5	2-M40×1.5	670	300	250	350	18.5	5
180M	2/4/8	279	70	355	380	275	162	241	311	121	48	M16×36	110	90	10	14	42.5	51.5	180	25	4-Φ14.5	2-M40×1.5	700	300	250	350	18.5	5
180L	4/6/8	279	70	355	380	275	162	279	349	121	48	M16×36	110	90	10	14	42.5	51.5	180	25	4-Φ14.5	2-M40×1.5	740	300	250	350	18.5	5
200L	2/4/6/8	318	74	395	420	305	210	305	379	133	55	M20×42	110	100	5	16	49	59	200	29	4-Φ16.5	2-M50×1.5	770	350	300	400	18.5	5
225S	4/8	356	75	435	470	335	210	286	368	149	60	M20×42	140	125	7.5	18	53	64	225	31	4-Φ18.5	2-M50×1.5	815	400	350	450	18.5	5
225M	2	356	75	435	470	335	210	311	393	149	55	M20×42	110	100	5	16	49	59	225	31	4-Φ18.5	2-M50×1.5	820	400	350	450	18.5	5
225M	4/6/8	356	75	435	470	335	210	311	393	149	60	M20×42	140	125	7.5	18	53	64	225	31	4-Φ18.5	2-M50×1.5	845	400	350	450	18.5	5
250M	2	406	80	490	510	365	248	349	445	168	60	M20×42	140	125	7.5	18	53	64	250	33	4-Φ24	2-M63×1.5	910	500	450	550	18.5	5
250M	4/6/8	406	80	490	510	365	248	349	445	168	65	M20×42	140	125	7.5	18	58	69	250	33	4-Φ24	2-M63×1.5	910	500	450	550	18.5	5
280S	2	457	85	550	580	400	248	368	485	190	65	M20×42	140	125	7.5	18	58	69	280	38.5	4-Φ24	2-M63×1.5	985	500	450	550	18.5	5
280S	4/6/8	457	85	550	580	400	248	368	485	190	75	M20×42	140	125	7.5	20	67.5	79.5	280	38.5	4-Φ24	2-M63×1.5	985	500	450	550	18.5	5
280M	2	457	85	550	580	400	248	419	536	190	65	M20×42	140	125	7.5	18	58	69	280	38.5	4-Φ24	2-M63×1.5	1035	500	450	550	18.5	5
280M	4/6/8	457	85	550	580	400	248	419	536	190	75	M20×42	140	125	7.5	20	67.5	79.5	280	38.5	4-Φ24	2-M63×1.5	1035	500	450	550	18.5	5
315S	2	508	120	635	645	530	320	406	570	216	65	M20×42	140	125	7.5	18	58	69	315	45	4-Φ28	2-M63×1.5	1160	600	550	660	24	6
315S	4/6/8/10	508	120	635	645	530	320	406	570	216	80	M20×42	170	160	5	22	71	85	315	45	4-Φ28	2-M63×1.5	1270	600	550	660	24	6
315M	2	508	120	635	645	530	320	457	610	216	65	M20×42	140	125	7.5	18	58	69	315	45	4-Φ28	2-M63×1.5	1190	600	550	660	24	6
315M	4 6/8/10	508	120	635	645	530	320	457	610	216	80	M20×42	170	160	5	22	71	85	315	45	4-Φ28	2-M63×1.5	1300	600	550	660	24	6
315L	2	508	120	635	645	530	320	508	680	216	65	M20×42	140	125	7.5	18	58	69	315	45	4-Φ28	2-M63×1.5	1190	600	550	660	24	6
315L	4 6/8/10	508	120	635	645	530	320	508	680	216	80	M20×42	170	160	5	22	71	85	315	45	4-Φ28	2-M63×1.5	1300	600	550	660	24	6
355M	2	610	130	730	710	655	380	560	690	254	75	M20×50	140	130	5	20	67.5	79.5	355	52	6-Φ28	2-M63×1.5	1500	740	680	800	24	6
355M	4 6/8/10	610	130	730	710	655	380	560	690	254	95	M24×50	170	160	5	25	86	100	355	52	6-Φ28	2-M63×1.5	1530	740	680	800	24	6
355L	2	610	130	730	710	655	380	630	750	254	75	M20×50	140	130	5	20	67.5	79.5	355	52	6-Φ28	2-M63×1.5	1500	740	680	800	24	6
355L	4 6/8/10	610	130	730	710	655	380	630	750	254	95	M24×50	170	160	5	25	86	100	355	52	6-Φ28	2-M63×1.5	1530	740	680	800	24	6

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