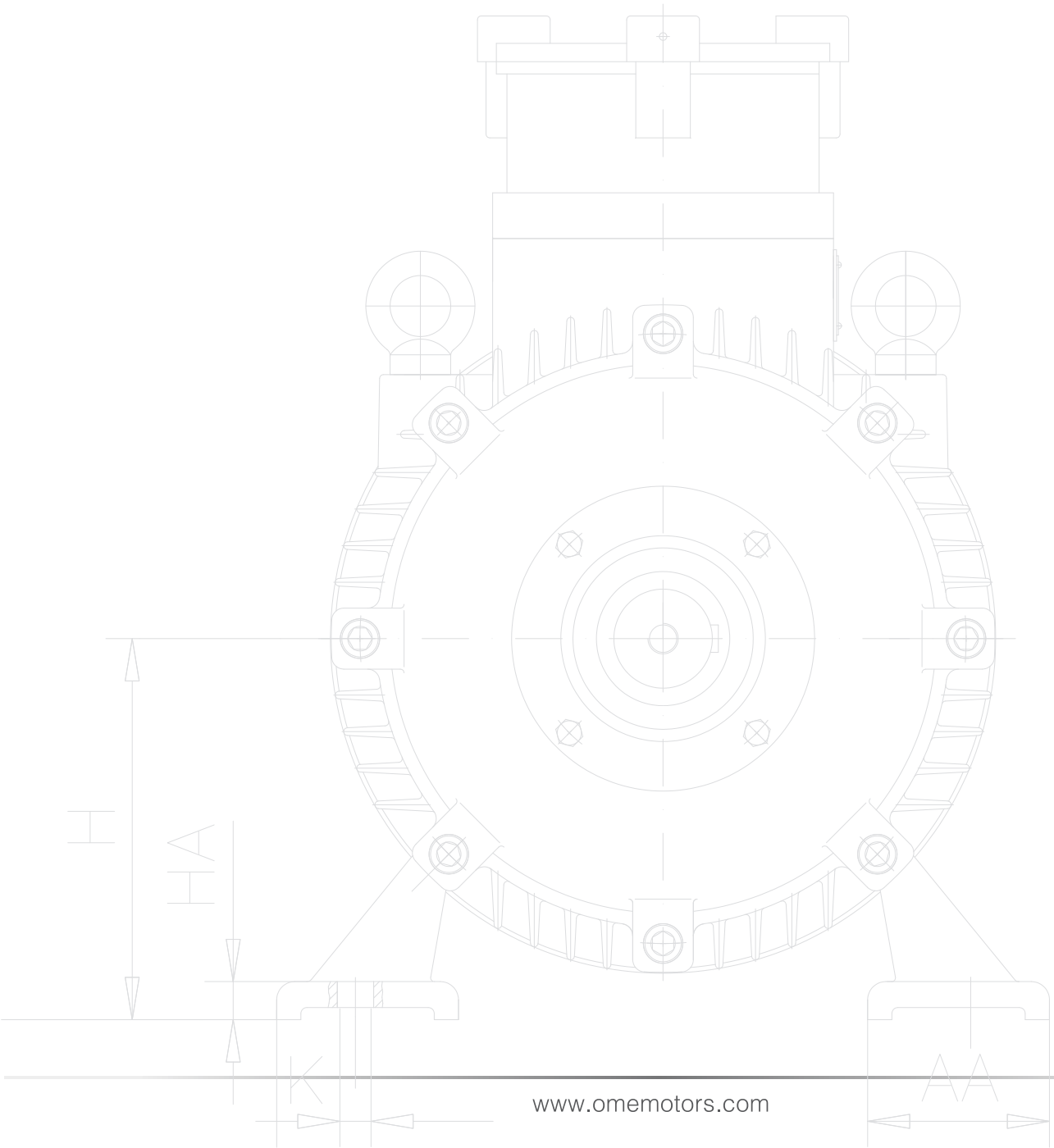
OMA

HIGH VOLTAGE SLIP RING MOTORS

www.omemotors.com

ISO14000 ISO9001

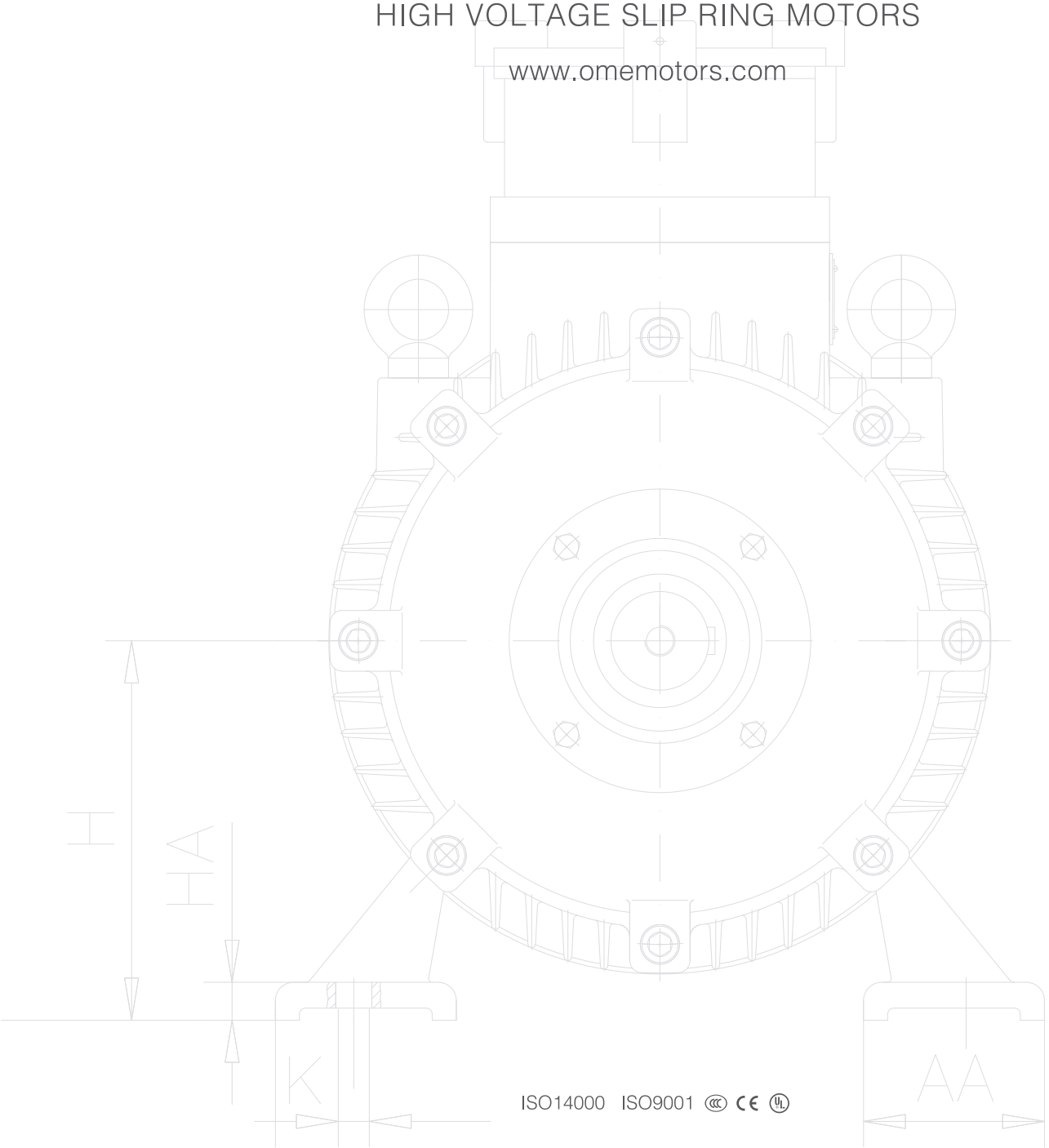
GENERAL INFORMATION



OMA

HIGH VOLTAGE SLIP RING MOTORS

www.omemotors.com



ISO14000 ISO9001

OMA
HIGH VOLTAGE SLIP RING MOTORS

Reliable • Efficient • Fire Proof

- OMA Slip Ring series is designed and manufactured by OME are an ideal solution for application which require high starting torque and low starting current. They are especially suitable for heavy load inertia applications like mill drivers or situations where network conditions are weak.

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

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.

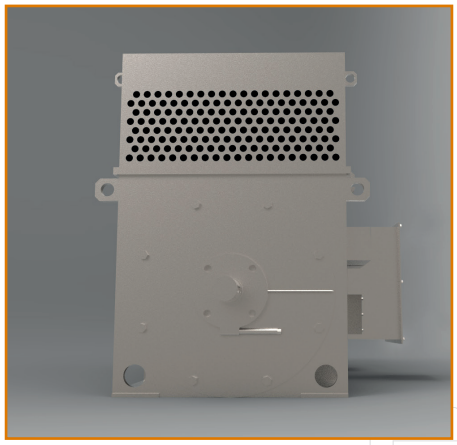
VISION

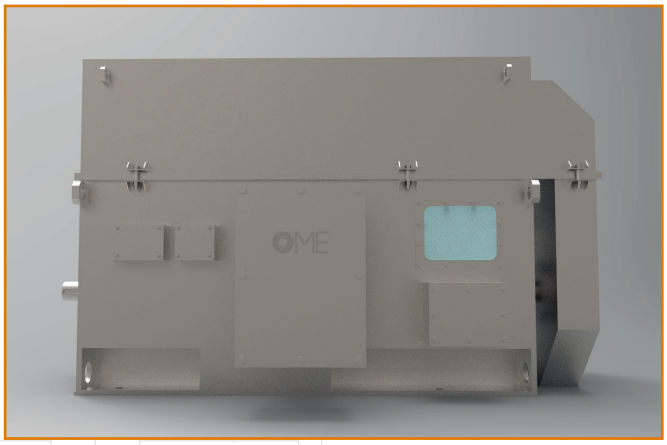
Our vision is to design and manufacture highly customized motors, meeting the most varied customer requirements, managing to make competitive even the smallest realities.

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.

OMA SERIES MEDIUM-SIZED HIGH VOLTAGE THREE PHASE ASYNCHRONOUS MOTORS





OMA series medium-sized high voltage three phase asynchronous motors are our latest products and voltage 6kv and 10kv.

To develop these series motors, advanced analytic and calculation technology is used, fine materials and excellent workmanship are also adopted during manufacturing.

All of those give seires motor high efficiency, low noise, low vibration and high reliability. All motor in basic design are of horizontal with feet mounting type (IMB3), duty type is continuous operation (S1).

Normally, the motor have three types of enclosure protection degree: IP23, IP44 or IP54.

In respect to cooling type , the motors basically have IC01, IC81W, IC611 or IC616 four types to be selected.

OMA series motors maybe used to drive rolling mills, grinders, hoists, belt conveyers, heavy load blowers,etc.

If required, other types of mounting type, enclosure protection degree and cooling type are also available by separate agreement.

Briefing of construction

A steel plate welded construction has used to reduce the frame weight and increase the rigidity, optimum constructiom design also makes series motors convenience for installationand maintenance.
One piece laminations for the stator and rotor are precision-stamped form low loss electrical steel, thus theiron loss is minimized and the efficiency is improved.
The insulation class of series motoes is class F.
The stator coil is a double layer formed coil,the stator core is stacked and assembled with coils outside the frame, coil braces are applied on the circumference of the stator coil ends with spacers inserted between coils to improve rigidity.
After the connection between coils is made, the completed stator winding is placed in a vacuum tank and impregnated, then the stator winding is put into the stator frame and fixed with it.
The standard design of the rotor is of copper bar construction, depending on starting conditions, the rotor bar are made of copper or copper alloy.
Advanced brazing technology of the rotor bars to the end rings insures mechanical integrity and results in uniform strength and electrical conductivity at the brazed joints.
By swaging the rotor bars against the slot sides, the vibrations of rotor bars to electromanetic force or centrifugal force are eliminated and insure long motor life.
For the frame size below shaft height 500mm, the cast aluminum rotor construction is also possible.
Because of the tight fitness between the rotor conductor and slot sides, the heat generated in the rotor conductor is easy to be dissipated, the safety locked rotor time is longer and the permitted moment of inertia to be driven by the motor is bigger.
For 2P motors form H355~H450 and all 4~12P motors, the stanard designed series motors adopt antifriction bearings, self-lubricated with grease or oil according to motor's frame size and operating speed, separate oil supply system is not needed.
Split sleeve bearings are sed for 2Pmotor from H500~H630 or when specified by purchaser, they are either ring-lubricated or forced-oil lubricated depending pon the loading.
The rotor cores are shrunk onto the shaft and rotor coils are tightly fitted into the slots to inimize vibration.
Advanced brazing technology of the rotor coils to coils insures high mechanical strength and good electrical conductivity at thebrazed joints.
The coil end s are supported by bandage.
The rotor winding is vacuum pressure impregnated (VPI) and connected to the slip ring unit. This construction gives the rotor an excellent fit against centrifugal forces.
The slip ring unit is mounted outside the frame to the non-drive end in order to provide easy maintenance without disassembling the motor. As a result, the bearing are closer together, preventing any vibration.
Carbon dust, caused by brush wear, is prevented from entering the motor due to the unit.
The slip ring unit has a shaft mounted fan and an easily removable and washable filter located in the slip ring housing to collect the carbon dust caused by brush wear.

TECHNICAL DATA

OMA Series (6kV) Asynchronous Motor Technical Data (IP23 IC01)

Type	Rated Output (kW)	Rated Current (A)	Speed (r/min)	Efficiency %	Power Favtor (cosΦ)	Mmax Mn	Rotor Voltage (V)	Rotor Current (A)
OMA 355A4	355	43.5	1478	93.5	0.84	1.8	400	545
OMA 355B4	400	49.0	1478	93.6	0.84	1.8	435	567
OMA 355C4	450	54.3	1478	93.8	0.85	1.9	475	584
OMA 355D4	500	60.3	1480	93.9	0.85	1.9	521	585
OMA 400A4	560	67.2	1482	94.4	0.85	1.9	521	654
OMA 400B4	630	74.6	1483	94.5	0.86	2.0	578	659
OMA 400C4	710	84.0	1483	94.6	0.86	2.0	650	657
OMA 400D4	800	93.4	1483	94.7	0.87	2.0	745	645
OMA 450A4	900	105.0	1485	94.8	0.87	2.2	1005	542
OMA 450B4	1000	116.5	1485	94.9	0.87	2.1	1081	559
OMA 450C4	1120	128.9	1485	95.0	0.88	2.1	1173	578
OMA 450D4	1250	143.7	1485	95.1	0.88	2.2	1280	590
OMA 500A4	1400	160.8	1486	95.2	0.88	2.2	1164	722
OMA 500B4	1600	183.6	1486	95.3	0.88	2.5	1267	758
OMA 500C4	1800	206.3	1486	95.4	0.88	2.3	1401	724
OMA 500D4	2000	226.4	1487	95.5	0.89	2.3	1402	868
OMA 560A4	2240	253.3	1487	95.6	0.89	2.5	1558	874
OMA 560B4	2500	282.4	1488	95.7	0.89	2.5	1706	862
OMA 560C4	2800	316.0	1488	95.8	0.89	2.5	1927	855
OMA 355A6	280	35.0	990	92.7	0.83	1.8	366	513
OMA 355B6	315	39.3	990	93.0	0.83	1.8	367	532
OMA 355C6	355	44.2	990	93.2	0.83	1.8	399	551
OMA 355D6	400	49.7	991	93.3	0.83	1.8	399	619
OMA 400A6	450	55.1	991	93.6	0.84	2.0	439	632
OMA 400B6	500	61.0	991	93.9	0.84	2.0	488	628
OMA 400C6	560	68.2	991	94.1	0.84	2.0	549	622
OMA 400D6	630	76.6	991	94.2	0.84	2.0	966	441
OMA 450A6	710	85.1	992	94.4	0.85	2.1	919	468
OMA 450B6	800	95.7	992	94.6	0.85	2.1	1098	497
OMA 450C6	900	107.6	992	94.7	0.85	2.2	1183	458
OMA 450D6	1000	118.0	992	94.8	0.86	2.2	1049	573
OMA 500A6	1120	132.1	992	94.9	0.86	2.2	1128	597
OMA 500B6	1250	147.2	992	95.0	0.86	2.3	1229	615
OMA 500C6	1400	164.7	993	95.1	0.86	2.3	1473	568
OMA 500D6	1600	185.9	993	95.2	0.87	2.5	1638	584
OMA 560A6	1800	208.9	993	95.3	0.87	2.5	1829	583
OMA 560B6	2000	231.9	993	95.4	0.87	2.5	1860	644
OMA 560C6	2240	259.4	994	95.5	0.87	2.5	1900	700
OMA 560D6	2500	288.9	994	95.7	0.87	2.5	1935	765
OMA 355A8	250	33.3	739	92.5	0.78	1.8	473	327
OMA 355B8	280	36.8	740	92.6	0.79	1.8	509	339
OMA 355C8	315	41.4	740	92.7	0.79	1.8	587	327
OMA 400A8	355	46.0	740	92.8	0.80	1.8	636	340
OMA 400B8	400	51.7	740	93.1	0.80	1.8	693	351

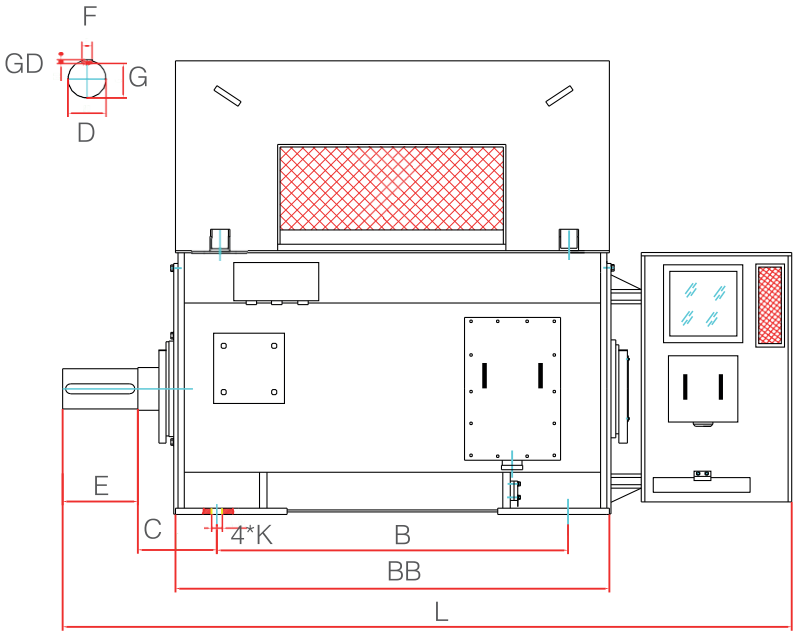
TECHNICAL DATA

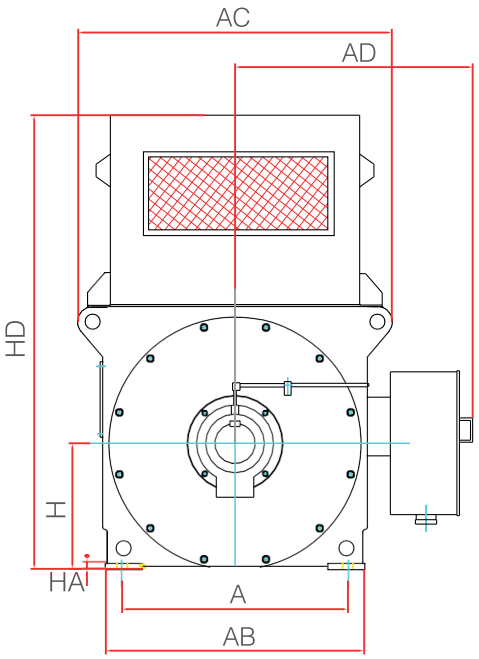
OMA Series (6kV) Asynchronous Motor Technical Data (IP23 IC01)

Type	Rated Output (kW)	Rated Current (A)	Speed (r/min)	Efficiency %	Power Favtor (cosΦ)	Mmax Mn	Rotor Voltage (V)	Rotor Current (A)
OMA 400C8	450	57.9	740	93.5	0.80	1.8	763	357
OMA 400D8	500	64.2	740	93.7	0.80	1.8	723	420
OMA 450A8	560	70.9	741	93.8	0.81	1.8	797	428
OMA 450B8	630	79.7	741	93.9	0.81	1.8	886	432
OMA 450C8	710	89.7	741	94.0	0.81	2.0	952	455
OMA 450D8	800	100.9	742	94.2	0.81	2.0	850	576
OMA 500A8	900	112.0	742	94.3	0.82	2.0	957	573
OMA 500B8	1000	124.3	742	94.4	0.82	2.2	1093	553
OMA 500C8	1120	139.1	743	94.5	0.82	2.3	1177	578
OMA 500D8	1250	154.9	743	94.7	0.82	2.3	1277	596
OMA 560A8	1400	171.2	743	94.8	0.83	2.3	1394	613
OMA 560B8	1600	195.5	743	94.9	0.83	2.5	1534	637
OMA 560C8	1800	219.7	744	95.0	0.83	2.5	1610	665
OMA 560D8	2000	240.7	744	95.2	0.84	2.5	1705	677
OMA 400A10	250	33.9	593	92.0	0.77	1.8	582	262
OMA 400B10	280	38.0	593	92.1	0.77	1.8	631	272
OMA 400C10	315	42.6	593	92.3	0.77	1.8	687	279
OMA 400D10	355	47.4	593	92.4	0.78	1.8	757	285
OMA 450A10	400	53.3	595	92.6	0.78	1.9	793	303
OMA 450B10	450	59.9	595	92.7	0.78	1.9	882	306
OMA 450C10	500	65.6	595	92.9	0.79	1.9	948	317
OMA 450D10	560	73.3	595	93.0	0.79	1.9	1083	309
OMA 500A10	630	81.3	595	93.2	0.80	2.0	843	457
OMA 500B10	710	91.4	595	93.4	0.80	2.0	950	456
OMA 500C10	800	102.7	595	93.7	0.80	2.0	1084	445
OMA 500D10	900	115.4	595	93.8	0.80	2.0	1265	425
OMA 560A10	1000	126.5	596	93.9	0.81	2.0	1378	432
OMA 560B10	1120	141.4	596	94.1	0.81	2.0	1520	440
OMA 560C10	1250	157.3	596	94.4	0.81	2.0	1689	441
OMA 560D10	1400	176.0	596	94.5	0.81	2.0	1882	457
OMA 400A12	250	35.5	490	91.7	0.74	1.8	537	260
OMA 400B12	280	39.6	490	91.9	0.74	1.8	539	316
OMA 450A12	315	44.5	490	92.1	0.74	1.8	584	328
OMA 450B12	355	50.0	490	92.3	0.74	1.8	638	340
OMA 450C12	400	56.2	490	92.6	0.74	1.8	702	348
OMA 450D12	450	63.1	490	92.7	0.74	1.8	697	385
OMA 500A12	500	69.8	490	93.1	0.74	1.8	698	432
OMA 500B12	560	78.1	490	93.2	0.74	1.8	776	435
OMA 500C12	630	86.3	490	93.3	0.75	1.9	873	433
OMA 500D12	710	97.2	491	93.7	0.75	1.9	958	449
OMA 560A12	800	108.1	491	93.7	0.76	2.0	1034	473
OMA 560B12	900	120.0	491	93.8	0.77	2.0	1122	493
OMA 560C12	1000	133.1	491	93.9	0.77	2.0	1224	503
OMA 560D12	1120	148.9	491	94.0	0.77	2.0	1335	506

Outline drawing and outling dimenaions for installation

OMA Series (6000V) IP23 High Voltage 3-phase Asyn. Motors. (H355-560mm) Out line Diagram.





Frame Size	A	AB	AC	AD	B	BB	C	D	E	F	G	GD	H	HA	HD	K	L
355-4-8	630	800	1020	755	1000	1400	315	100	210	28	90	16	355	25	1360	28	2250
400-4-12	710	880	1120	800	1120	1620	335	110	210	28	100	16	400	30	1590	35	2420
450-4-12	800	980	1180	850	1250	1730	335	130	250	32	119	18	450	30	1760	35	2640
500-4-12	900	1080	1320	900	1400	1860	475	150	250	36	138	20	500	35	1960	42	3020
560-4-12	1000	1220	1460	980	1600	2000	500	170	300	40	157	22	560	40	2160	42	3250

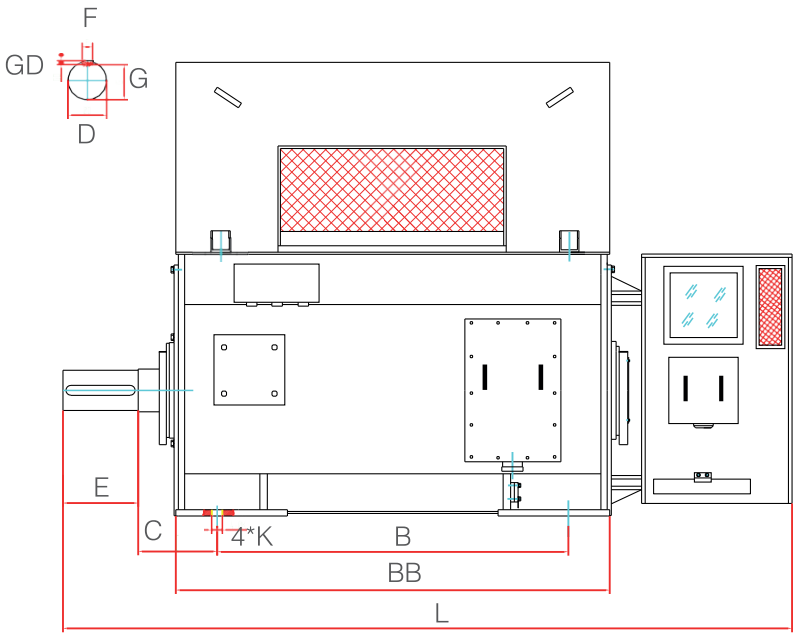
OMA Series (10kV) Asynchronous Motor Technical Data (IP23 IC01)

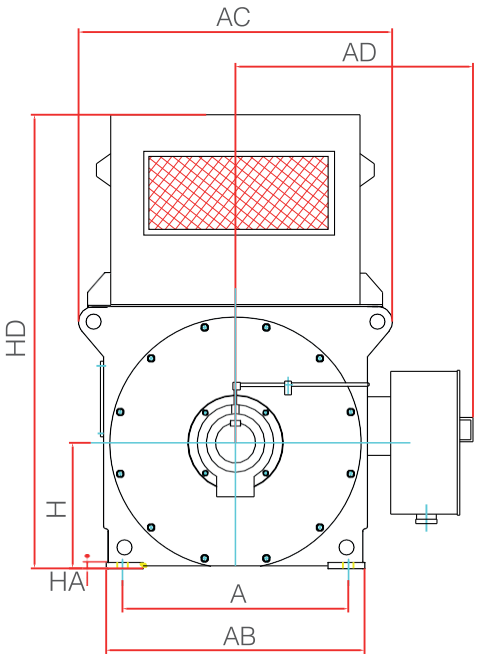
Type	Rated Output (kW)	Rated Current (A)	Speed (r/min)	Efficiency %	Power Favtor (cosΦ)	Mmax Mn	Rotor Voltage (V)	Rotor Current (A)
OMA 355A4	280	20.8	1490	92.4	0.84	1.8	403	415
OMA 355B4	315	23.4	1490	92.5	0.84	1.8	454	423
OMA 355C4	355	26.3	1490	92.8	0.84	1.8	507	426
OMA 355D4	400	29.2	1490	93.1	0.85	1.8	552	438
OMA 400A4	450	32.8	1490	93.3	0.85	1.8	577	472
OMA 400B4	500	36.3	1490	93.6	0.85	1.8	634	475
OMA 400C4	560	40.6	1490	93.8	0.85	1.8	674	500
OMA 400D4	630	45.4	1490	94.2	0.85	1.8	641	590
OMA 450A4	710	51.0	1490	94.6	0.85	2.0	660	647
OMA 450B4	800	57.4	1490	94.7	0.85	2.0	701	688
OMA 450C4	900	64.5	1492	94.8	0.85	2.0	722	754
OMA 450D4	1000	70.7	1492	94.9	0.86	2.0	795	760
OMA 500A4	1120	79.1	1492	95.1	0.86	2.1	938	714
OMA 500B4	1250	87.1	1493	95.2	0.87	2.1	1018	734
OMA 500C4	1400	97.5	1493	95.3	0.87	2.1	1112	753
OMA 500D4	1600	111.3	1492	95.4	0.87	2.2	1253	760
OMA 560A4	1800	123.7	1492	95.5	0.88	2.2	1642	654
OMA 560B4	2000	137.3	1493	95.6	0.88	2.5	1781	671
OMA 560C4	2240	153.6	1493	95.7	0.88	2.5	1829	726
OMA 560D4	2500	171.2	1493	95.8	0.88	2.5	2043	729
OMA 400A6	315	24.3	990	92.4	0.81	1.8	509	375
OMA 400B6	355	27.3	990	92.6	0.81	1.8	552	389
OMA 400C6	400	30.7	990	92.8	0.81	1.8	602	401
OMA 400D6	450	34.5	991	93.1	0.81	1.8	812	332
OMA 400E6	500	38.2	991	93.4	0.81	1.8	849	353
OMA 450A6	560	42.1	992	93.6	0.82	2.0	909	369
OMA 450B6	630	47.3	992	93.8	0.82	2.0	939	404
OMA 450C6	710	53.2	992	94.0	0.82	2.0	1060	400
OMA 450D6	800	58.3	992	94.3	0.84	2.2	844	570
OMA 500A6	900	65.5	993	94.5	0.84	2.2	906	600
OMA 500B6	1000	72.6	993	94.7	0.84	2.2	973	618
OMA 500C6	1120	80.2	993	94.9	0.85	2.4	1062	625
OMA 500D6	1250	89.3	993	95.1	0.85	2.4	1137	660
OMA 560A6	1400	99.8	994	95.3	0.85	2.5	1270	659
OMA 560B6	1600	112.6	994	95.4	0.86	2.5	1453	650
OMA 560C6	1800	126.4	994	95.6	0.86	2.5	1570	683
OMA 560D6	2000	140.2	994	95.8	0.86	2.5	1690	707

OMA Series (10kV) Asynchronous Motor Technical Data (IP23 IC01)

Type	Rated Output (kW)	Rated Current (A)	Speed (r/min)	Efficiency %	Power Favtor (cosΦ)	Mmax Mn	Rotor Voltage (V)	Rotor Current (A)
OMA 400A8	280	22.7	740	92.3	0.77	1.8	579	291
OMA 400B8	315	25.5	740	92.5	0.77	1.8	639	295
OMA 400C8	355	28.7	740	92.8	0.77	1.8	677	314
OMA 400D8	400	32.2	740	93.1	0.77	1.8	719	333
OMA 450A8	450	35.7	741	93.3	0.78	1.8	734	369
OMA 450B8	500	39.1	741	93.5	0.79	1.8	785	382
OMA 450C8	560	43.7	741	93.7	0.79	2.0	879	379
OMA 450D8	630	48.5	741	93.8	0.80	2.0	944	398
OMA 500A8	710	54.5	741	94.0	0.80	2.1	1016	417
OMA 500B8	800	60.5	742	94.2	0.81	2.1	1102	434
OMA 500C8	900	67.1	742	94.4	0.82	2.1	1197	405
OMA 500D8	1000	74.4	742	94.6	0.82	2.2	1277	475
OMA 560A8	1120	83.2	745	94.8	0.82	2.2	1400	483
OMA 560B8	1250	91.5	745	95.0	0.83	2.5	1375	545
OMA 560C8	1400	102.4	745	95.1	0.83	2.5	1448	582
OMA 560D8	1600	116.8	745	95.3	0.83	2.5	1548	619
OMA 450A10	280	24.1	591	92.0	0.73	1.8	682	246
OMA 450B10	315	26.7	591	92.1	0.74	1.8	727	259
OMA 450C10	355	27.7	591	92.3	0.74	1.8	779	272
OMA 450D10	400	33.3	591	92.5	0.75	1.8	734	329
OMA 450E10	450	36.8	593	92.9	0.76	1.8	787	344
OMA 500A10	500	40.8	593	93.1	0.76	1.8	848	355
OMA 500B10	560	45.6	593	93.3	0.76	2.0	919	367
OMA 500C10	630	50.5	593	93.5	0.77	2.0	1006	378
OMA 500D10	710	56.0	594	93.8	0.78	2.0	1086	395
OMA 560A10	800	63.0	594	94.0	0.78	2.0	1149	422
OMA 560B10	900	70.8	595	94.1	0.78	2.0	1191	457
OMA 560C10	1000	78.5	595	94.3	0.78	2.2	1229	493
OMA 560D10	1120	86.6	595	94.5	0.79	2.2	1350	496
OMA 450A12	280	24.5	494	91.6	0.72	1.8	683	244
OMA 450B12	315	27.2	494	91.7	0.73	1.8	726	257
OMA 450C12	355	30.6	494	91.8	0.73	1.8	776	272
OMA 500A12	400	34.4	495	92.0	0.73	1.8	832	286
OMA 500B12	450	38.6	495	92.3	0.73	1.8	895	298
OMA 500C12	500	42.8	495	92.5	0.73	1.8	856	345
OMA 500D12	560	47.0	495	92.9	0.74	1.8	928	357
OMA 560A12	630	52.7	495	93.2	0.74	1.8	1012	368
OMA 560B12	710	58.5	496	93.5	0.75	1.8	1116	377
OMA 560C12	800	65.7	496	93.7	0.75	1.8	1219	393
OMA 560D12	900	73.8	496	93.9	0.75	1.8	1305	416

OMA Series (10000V) IP23 High Voltage 3-phase Asyn. Motors. (H355-560mm) Outline Drawings.





Frame Size	A	AB	AC	AD	B	BB	C	D	E	F	G	GD	H	HA	HD	K	L
355-4	630	800	1020	900	1000	1400	315	100	210	28	90	16	355	25	1360	28	2250
400-4~8	710	880	1120	950	1120	1620	335	110	210	28	100	16	400	30	1590	35	2420
450-4~12	800	980	1180	1000	1250	1730	335	120	210	32	109	18	450	30	1760	35	2640
500-4~12	900	1080	1320	1050	1400	1860	475	140	250	36	128	20	500	35	1960	42	3020
560-4~12	1000	1220	1460	1120	1600	2000	500	160	300	40	147	22	560	40	2160	42	3450

TECHNICAL DATA

OMA Series (6kV) Asynchronous Motor Technical Data (IP54 IC611)

Type	Rated Output (kW)	Rated Current (A)	Speed (r/min)	Efficiency %	Power Favtor (cosΦ)	Mmax Mn	Rotor Voltage (V)	Rotor Current (A)
OMA 355A4	280	35.1	1478	92.4	0.83	1.8	401	423
OMA 355B4	315	39.4	1478	92.6	0.83	1.8	434	439
OMA 355C4	355	43.8	1479	92.8	0.84	1.8	474	452
OMA 355D4	400	49.3	1480	93.0	0.84	2.0	475	514
OMA 400A4	450	55.3	1482	93.2	0.84	2.0	521	520
OMA 400B4	500	61.3	1483	93.4	0.84	2.0	578	519
OMA 400C4	560	67.7	1483	93.6	0.85	2.0	649	515
OMA 400D4	630	76.0	1483	93.8	0.85	2.0	744	505
OMA 450A4	710	85.5	1484	94.0	0.85	2.1	921	460
OMA 450B4	800	96.0	1484	94.3	0.85	2.2	987	484
OMA 450C4	900	107.9	1484	94.4	0.85	2.2	1064	506
OMA 450D4	1000	118.4	1485	94.5	0.86	2.2	1153	518
OMA 500A4	1120	132.5	1488	94.6	0.86	2.2	1149	581
OMA 500B4	1250	147.5	1488	94.8	0.86	2.2	1256	594
OMA 500C4	1400	165.1	1488	94.9	0.86	2.4	1385	604
OMA 500D4	1600	186.3	1490	95.0	0.87	2.4	1537	622
OMA 560A4	1800	209.3	1490	95.1	0.87	2.5	1606	668
OMA 560B4	2000	232.1	1490	95.3	0.87	2.5	1734	686
OMA 560C4	2240	256.5	1490	95.5	0.88	2.5	1850	721
OMA 560D4	2500	285.9	1490	95.6	0.88	2.5	1956	761
OMA 355A6	250	32.9	990	92.6	0.79	1.8	365	414
OMA 355B6	280	36.8	990	92.8	0.79	1.8	399	424
OMA 355C6	315	41.3	990	92.9	0.79	1.8	395	479
OMA 355D6	355	46.9	990	93.0	0.79	1.8	436	491
OMA 400A6	400	51.6	990	93.3	0.80	1.9	484	497
OMA 400B6	450	58.0	990	93.4	0.80	1.9	546	496
OMA 400C6	500	64.3	990	93.6	0.80	1.9	857	348
OMA 400D6	560	71.8	991	93.8	0.80	2.0	920	361
OMA 450A6	630	77.8	991	93.9	0.83	2.2	1059	355
OMA 450B6	710	87.4	991	94.2	0.83	2.2	1159	363
OMA 450C6	800	98.2	991	94.4	0.83	2.2	1028	464
OMA 450D6	900	110.4	992	94.5	0.83	2.2	1060	511
OMA 500A6	1000	121.1	992	94.6	0.84	2.4	1237	484
OMA 500B6	1120	135.5	993	94.7	0.84	2.4	1345	496
OMA 500C6	1250	150.1	993	94.9	0.84	2.4	1455	516
OMA 500D6	1400	168.8	993	95.0	0.84	2.4	1560	538
OMA 560A6	1600	190.5	993	95.1	0.85	2.5	1592	602
OMA 560B6	1800	214.0	994	95.2	0.85	2.5	1616	665

OMA Series (6kV) Asynchronous Motor Technical Data (IP54 IC611)

Type	Rated Output (kW)	Rated Current (A)	Speed (r/min)	Efficiency %	Power Favtor (cosΦ)	Mmax Mn	Rotor Voltage (V)	Rotor Current (A)
OMA 560C6	2000	237.3	994	95.4	0.85	2.5	1740	687
OMA 400A8	280	37.9	740	92.4	0.77	1.8	633	265
OMA 400B8	315	42.5	740	92.7	0.77	1.8	691	273
OMA 400C8	355	47.8	740	92.8	0.77	1.8	601	352
OMA 400D8	400	53.1	740	93.0	0.78	1.8	661	360
OMA 450A8	450	59.6	741	93.1	0.78	1.8	735	364
OMA 450B8	500	65.9	741	93.6	0.78	1.8	826	358
OMA 450C8	560	72.7	742	93.8	0.79	2.0	741	450
OMA 450D8	630	81.7	742	93.9	0.79	2.0	742	509
OMA 500A8	710	90.9	743	94.0	0.80	2.0	835	512
OMA 500B8	800	102.1	743	94.2	0.80	2.0	956	500
OMA 500C8	900	112.0	743	94.3	0.82	2.2	1020	526
OMA 500D8	1000	124.3	743	94.4	0.82	2.2	1076	558
OMA 560A8	1120	139.1	745	94.5	0.82	2.5	1156	584
OMA 560B8	1250	154.9	745	94.7	0.82	2.5	1277	601
OMA 560C8	1400	171.2	745	94.8	0.83	2.5	1334	627
OMA 560D8	1600	195.3	745	95.0	0.83	2.5	1460	664
OMA 450A10	280	39.0	590	92.0	0.75	1.8	600	277
OMA 450B10	315	43.3	590	92.1	0.76	1.8	660	283
OMA 450C10	355	48.7	590	92.2	0.76	1.8	733	287
OMA 450D10	400	54.8	590	92.5	0.76	1.8	823	286
OMA 500A10	450	60.7	592	92.6	0.77	1.8	739	362
OMA 500B10	500	67.2	593	93.0	0.77	1.8	740	404
OMA 500C10	560	75.2	593	93.1	0.77	1.9	834	402
OMA 500D10	630	83.4	593	93.2	0.78	1.9	954	395
OMA 560A10	710	93.8	595	93.4	0.78	2.0	989	432
OMA 560B10	800	104.0	595	93.7	0.79	2.0	1022	475
OMA 560C10	900	116.7	595	93.9	0.79	2.0	1155	472
OMA 560D10	1000	129.4	595	94.1	0.79	2.0	1226	500
OMA 450A12	250	36.4	490	91.7	0.72	1.8	501	296
OMA 450B12	280	40.7	490	91.9	0.72	1.8	539	308
OMA 450C12	315	45.1	490	92.1	0.73	1.8	584	320
OMA 450D12	355	50.7	491	92.3	0.73	1.8	706	298
OMA 500A12	400	56.9	491	92.6	0.73	1.9	701	337
OMA 500B12	450	63.1	492	92.7	0.74	1.9	785	341
OMA 500C12	500	69.8	492	93.1	0.74	1.9	797	384
OMA 500D12	560	77.1	492	93.2	0.75	2.0	853	393
OMA 560A12	630	86.6	493	93.3	0.75	2.0	977	386
OMA 560B12	710	97.5	495	93.4	0.75	2.0	992	431
OMA 560C12	800	109.5	495	93.7	0.75	2.0	1042	471
OMA 560D12	900	121.5	493	93.8	0.76	2.0	1163	476

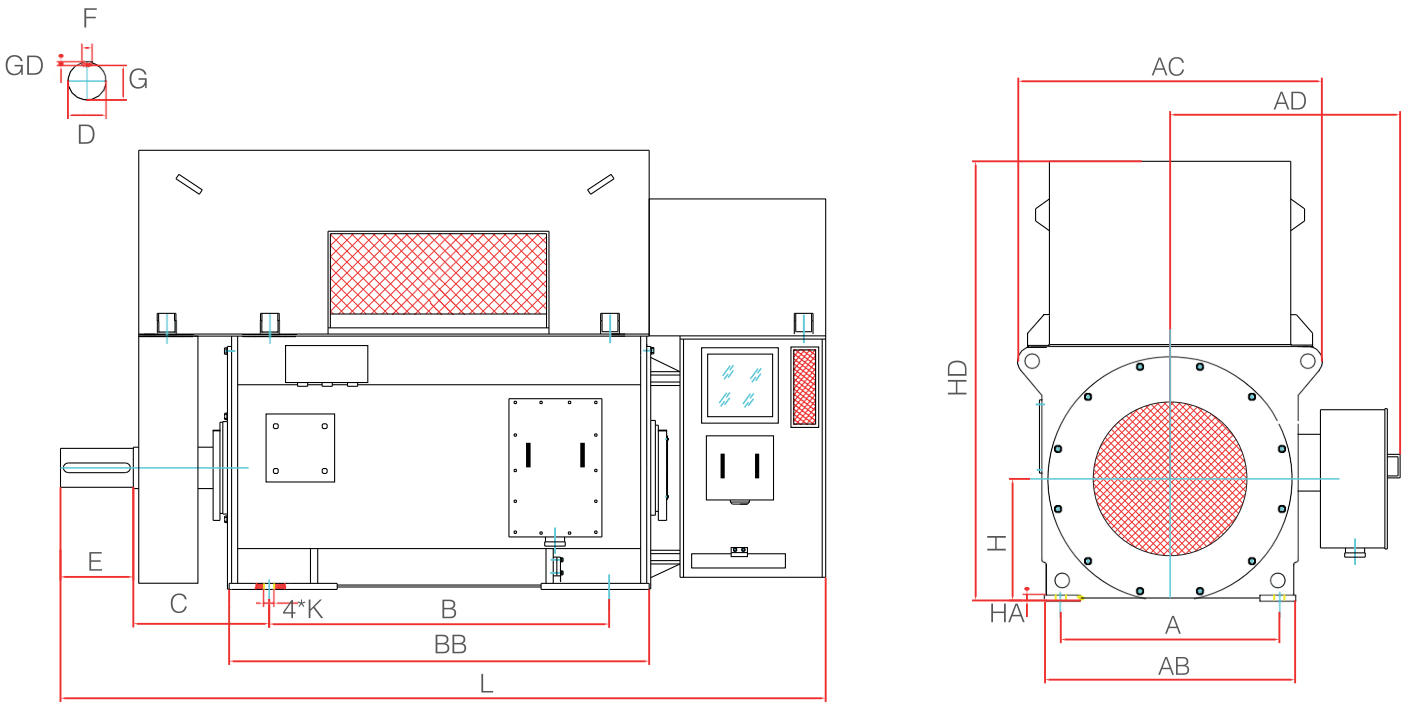
OMA Series (10kV) Asynchronous Motor Technical Data (IP54 IC611)

Type	Rated Output (kW)	Rated Current (A)	Speed (r/min)	Efficiency %	Power Favtor (cosΦ)	Mmax Mn	Mst Mn	Ist Mn	Jmotor (Kg.m2)	Jload (Kg.m2)	Weight (Kg)
OM 355A2	280	18.9	2978	95.0	0.90	2.6	0.9	6.4	3.6	34	2200
OM 355B2	315	21.2	2981	95.1	0.90	2.9	1.0	7.0	4	42	2250
OM 355C2	355	23.9	2981	95.2	0.90	2.8	1.0	7.0	4.3	46.4	2300
OM 355D2	400	26.9	2981	95.3	0.90	2.8	1.0	7.0	4.7	52	2350
OM 400A2	450	30.3	2980	95.4	0.90	2.5	1.0	6.5	6.8	65	2650
OM 400B2	500	33.6	2981	95.6	0.90	2.5	1.0	6.6	7.4	73	2730
OM 400C2	560	37.5	2981	95.7	0.90	2.5	1.1	6.8	8	81	2850
OM 400D2	630	42.2	2982	95.8	0.90	2.5	1.1	6.9	8.9	88	2950
OM 450A2	710	47.5	2984	95.9	0.90	2.6	0.9	6.6	11	65	3900
OM 450B2	800	53.5	2985	96.0	0.90	2.7	1.0	7.0	13	83	4200
OM 450C2	900	60.1	2985	96.1	0.90	2.6	1.0	6.9	14	87	4500
OM 450D2	1000	66.6	2985	96.3	0.90	2.6	1.0	6.9	15.4	99	4800
OM 500A2	1120	73.6	2987	96.5	0.91	2.9	0.7	7.0	19	78	5100
OM 500B2	1250	82.1	2987	96.6	0.91	2.8	0.8	7.0	21	92	5340
OM 500C2	1400	90.9	2987	96.7	0.92	2.9	0.8	7.2	24	101	5550
OM 500D2	1600	103.7	2988	96.8	0.92	2.9	0.8	7.3	26	113	5780
OM 560A2	1800	116.7	2986	96.9	0.92	2.2	0.6	5.6	34	114	6800
OM 560B2	2000	129.5	2986	96.9	0.92	2.3	0.6	5.9	37	132	6900
OM 560C2	2240	144.9	2987	97.0	0.92	2.5	0.7	6.4	41	149	7150
OM 560D2	2500	161.6	2988	97.1	0.92	2.7	0.8	7.0	45	182	7460
OM 355A4	280	19.2	1488	94.4	0.89	2.5	1.0	6.3	6.9	124	2450
OM 355B4	315	21.6	1487	94.5	0.89	2.4	1.0	6.1	7.5	145	2500
OM 355C4	355	24.3	1487	94.6	0.89	2.3	1.0	5.9	8	173	2550
OM 355D4	400	27.4	1489	94.7	0.89	2.6	1.1	6.7	9	197	2600
OM 400A4	450	30.4	1488	94.9	0.90	2.3	0.8	5.7	14	218	2690
OM 400B4	500	33.7	1488	95.1	0.90	2.3	0.8	5.8	16	242	2750
OM 400C4	560	37.7	1488	95.2	0.90	2.2	0.8	5.7	17.4	272	2820
OM 400D4	630	42.4	1488	95.3	0.90	2.3	0.9	5.9	19.3	306	2940
OM 450A4	710	48.3	1491	95.4	0.89	2.4	0.8	6.1	20	283	4320
OM 450B4	800	54.3	1492	95.5	0.89	2.5	0.9	6.4	22	305	4480
OM 450C4	900	60.4	1491	95.6	0.90	2.3	0.8	6.1	25	363	4640
OM 450D4	1000	67.0	1491	95.7	0.90	2.2	0.8	5.9	27	387	4810
OM 500A4	1120	75.0	1491	95.8	0.90	1.9	0.7	5.2	46	491	5540
OM 500B4	1250	83.6	1491	95.9	0.90	1.9	0.7	5.1	51	566	5680
OM 500C4	1400	93.6	1491	96.0	0.90	1.9	0.7	5.1	56	653	5780
OM 500D4	1600	106.8	1491	96.1	0.90	1.9	0.7	5.1	61	710	5950
OM 560A4	1800	120.0	1493	96.2	0.90	2.4	0.8	6.4	64	588	7800
OM 560B4	2000	133.2	1494	96.3	0.90	2.6	0.8	6.8	70	663	8050
OM 560C4	2240	147.4	1493	96.4	0.91	2.1	0.7	6.8	77	757	8300
OM 560D4	2500	164.4	1493	96.5	0.91	2.3	0.8	6.4	85	809	8560
OM 400A6	315	22.8	990	94.0	0.85	2.1	0.9	5.1	17	397	2700
OM 400B6	355	25.6	990	94.1	0.85	1.9	0.8	4.9	19	462	2800
OM 400C6	400	28.8	990	94.2	0.85	2.2	1.0	5.6	20	545	2895
OM 400D6	450	32.4	991	94.3	0.85	2.1	0.9	5.4	22	630	3020
OM 400E6	500	36.0	991	94.4	0.85	2.1	1.0	5.5	25	714	3150
OM 450A6	560	40.2	991	94.6	0.85	2.0	0.9	5.3	29	685	4300

OMA Series (10kV) Asynchronous Motor Technical Data (IP54 IC611)

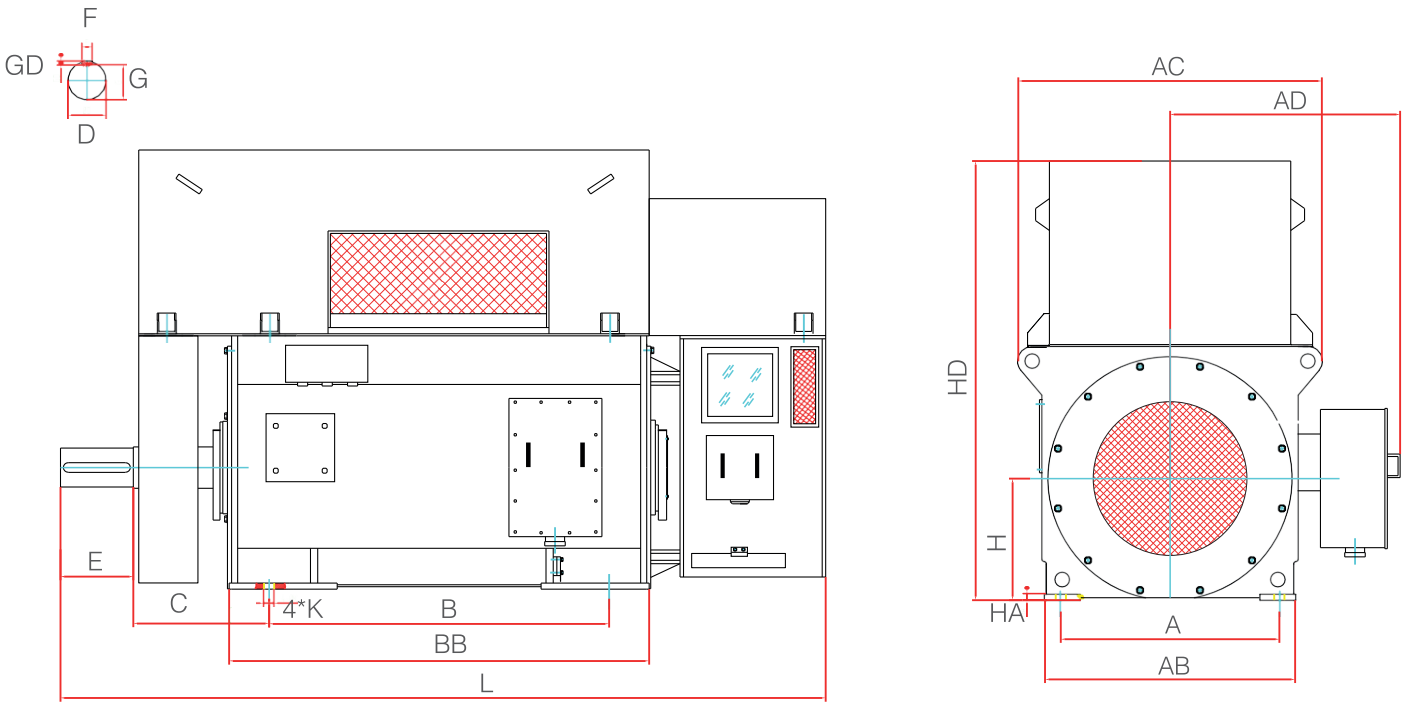
Type	Rated Output (kW)	Rated Current (A)	Speed (r/min)	Efficiency %	Power Favtor (cosΦ)	Mmax Mn	Mst Mn	Ist Mn	Jmotor (Kg.m2)	Jload (Kg.m2)	Weight (Kg)
OM 450B6	630	44.7	991	94.7	0.86	2.0	0.9	5.2	33	783	4460
OM 450C6	710	50.3	991	94.8	0.86	2.0	0.9	5.3	36	842	4610
OM 450D6	800	56.5	992	95.0	0.86	2.1	0.9	5.5	40	1070	4730
OM 500A6	900	62.8	992	95.1	0.87	2.2	0.9	5.6	62	1030	5250
OM 500B6	1000	68.9	992	95.2	0.88	2.2	0.9	5.6	69	1170	5340
OM 500C6	1120	77.1	992	95.3	0.88	2.1	0.9	5.6	75	1340	5600
OM 500D6	1250	85.9	992	95.4	0.88	2.1	0.9	5.6	83	1470	5780
OM 560A6	1400	96.1	993	95.6	0.88	1.9	0.9	5.5	107	1410	7500
OM 560B6	1600	109.7	993	95.7	0.88	1.9	0.9	5.5	120	1580	7850
OM 560C6	1800	121.9	994	95.8	0.89	2.0	0.9	5.7	132	1770	8100
OM 560D6	2000	135.1	994	96.0	0.89	2.1	1.0	6.3	144	2100	8360
OM 400A8	280	21.7	743	93.2	0.80	2.5	1.3	6.0	27	788	2700
OM 400B8	315	24.3	742	93.4	0.80	2.4	1.2	5.8	30	960	2750
OM 400C8	355	27.1	742	93.5	0.81	2.3	1.2	5.6	33	1060	2790
OM 400D8	400	30.5	742	93.6	0.81	2.3	1.2	5.6	36	1180	2850
OM 450A8	450	34.1	743	94.0	0.81	2.0	1.0	5.1	39	1030	4450
OM 450B8	500	37.8	743	94.2	0.81	2.1	1.0	5.2	43	1160	4560
OM 450C8	560	42.3	743	94.4	0.81	2.1	1.0	5.3	47	1390	4640
OM 450D8	630	47.5	743	94.5	0.81	2.1	1.1	5.4	52	1540	4750
OM 500A8	710	52.7	744	94.9	0.82	2.2	1.0	5.6	83	1520	5100
OM 500B8	800	58.6	744	95.0	0.83	2.1	1.0	5.3	90	1840	5180
OM 500C8	900	65.8	743	95.1	0.83	2.0	0.9	5.1	100	2070	5320
OM 500D8	1000	72.2	743	95.2	0.84	1.9	0.9	5.0	111	2350	5550
OM 560A8	1120	79.8	744	95.3	0.85	1.9	0.7	4.8	143	2250	7500
OM 560B8	1250	89.0	744	95.4	0.85	1.8	0.7	4.7	159	2550	7750
OM 560C8	1400	99.6	744	95.5	0.85	1.8	0.7	4.7	175	2890	8000
OM 560D8	1600	113.7	744	95.6	0.85	1.8	0.7	4.7	191	3090	8200
OM 450A10	315	24.7	593	93.1	0.79	2.0	1.0	4.9	45	1930	4570
OM 450B10	355	27.8	593	93.2	0.79	1.9	0.9	4.7	50	2150	4660
OM 450C10	400	30.9	593	93.3	0.79	1.9	0.9	4.6	54	2410	4760
OM 450D10	450	34.8	593	93.4	0.80	1.8	0.9	4.5	60	2730	4850
OM 500A10	500	39.0	595	93.6	0.79	2.1	1.1	5.4	91	2920	5100
OM 500B10	560	43.1	594	93.8	0.80	1.9	0.9	4.9	101	3470	5270
OM 500C10	630	48.4	594	93.9	0.80	2.0	0.9	5.0	111	4300	5420
OM 500D10	710	54.5	594	94.0	0.80	1.9	0.9	4.7	122	4580	5640
OM 560A10	800	60.3	594	94.6	0.81	1.8	0.8	4.6	151	3770	7460
OM 560B10	900	67.7	594	94.7	0.81	1.8	0.8	4.4	168	4300	7680
OM 560C10	1000	75.2	594	94.8	0.81	1.8	0.8	4.4	185	4740	7900
OM 560D10	1120	84.1	594	94.9	0.81	1.8	0.8	4.5	202	5300	8100
OM 450A12	280	22.4	494	92.7	0.78	2.1	1.0	4.7	53	3060	4500
OM 450B12	315	25.1	494	92.8	0.78	2.0	0.9	4.7	58	3430	4680
OM 450C12	355	28.3	494	92.9	0.78	2.0	0.9	4.5	65	3900	4670
OM 500A12	400	31.0	494	93.0	0.80	2.1	1.0	4.7	100	4110	5150
OM 500B12	450	34.9	494	93.1	0.80	2.1	1.0	4.7	109	4590	5240
OM 500C12	500	38.7	494	93.2	0.80	2.1	1.0	4.8	121	4930	5310
OM 500D12	560	43.3	494	93.3	0.80	2.1	1.0	4.9	133	6130	5540
OM 560A12	630	47.9	494	93.8	0.81	1.8	0.9	4.3	168	4940	7400
OM 560B12	710	53.9	494	93.9	0.81	1.8	0.8	4.1	186	5590	7600
OM 560C12	800	60.7	494	94.0	0.81	1.8	0.8	4.1	205	6330	7800
OM 560D12	900	68.2	494	94.1	0.81	1.8	0.8	4.1	224	6440	8000

OMA Series (6000V) Totally enclosed Air-Air cooling IP44/IP54 High Voltage 3-phase Asyn. Motors. (H355-560mm) Out line Diagram.



Frame Size	Poles	A	B	C	D	E	F	G	H	K	AB	AC	AD	BB	GD	HA	HD	L
355	2	630	1000	315	80	170	22	71	355	28	800	1020	755	1400	14	25	1420	2225
	4-8				100	210	28	90							16			2075
400	2	710	1120	335	90	170	25	81	400	35	880	1120	800	1620	14	30	1460	2280
	4-12				110	210	28	100							16			2150
450	2	800	1250	400	100			90	450		980	1180	850	1730			1660	2505
	4			355	120		32	109							18			2455
	6-12				130	250		119										2255
500	2	900	1400	560	110	210	28	100	500	42	1080	1320	900	1860	16	35	1860	2895
	4			475	130	250	32	119							18			2795
	6-12				140		36	128							20			2595
560	2	1000	1600	560	130		32	119	560		1220	1460	980	2000	18	40	2200	3150
	4			500	150		36	138							20			3010
	6-12				160	300	40	147							22			2805

OMA Series (10000V) Totally enclosed Air-Air cooling (IC611) Enclosure IP44/IP54 High Voltage 3-phase Asyn. Motors. (H355-560mm) Out line Drawings



Frame Size	A	AB	AC	AD	B	BB	C	D	E	F	G	GD	H	HA	HD	K	L
400-4~8	710	880	1120	950	1120	1620	630	110	210	28	100	16	400	30	1700	35	2750
450-4~10	800	980	1180	1000	1250	1730	710	110	210	28	100	16	450	30	1900	35	3150
500-4~12	900	1080	1320	1050	1400	1860	800	130	250	32	119	18	500	35	2200	42	3450
560-4~12	1000	1220	1460	1120	1600	2000	800	160	300	40	147	22	560	40	2400	42	3650

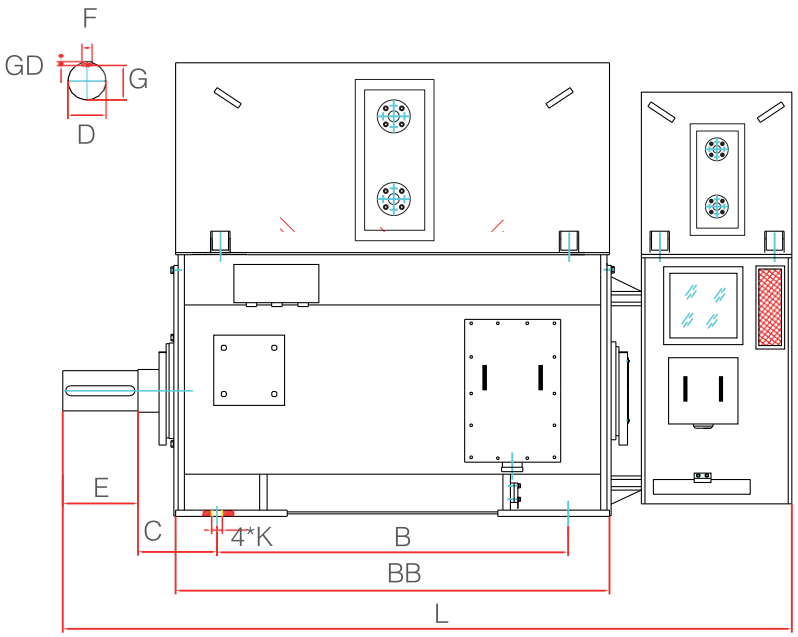
OMA Series (10kV) Asynchronous Motor Technical Data (IP54 IC81W)

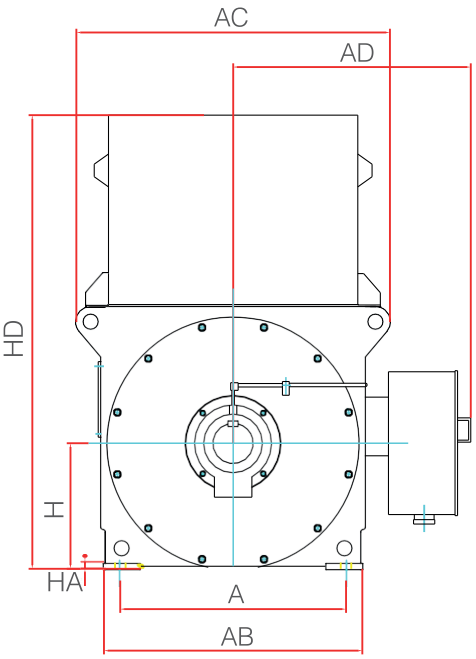
Type	Rated Output (kW)	Rated Current (A)	Speed (r/min)	Efficiency %	Power Favtor (cosΦ)	Mmax Mn	Rotor Voltage (V)	Rotor Current (A)
OMA 400A4	280	20.9	1486	92.0	0.84	1.8	506	333
OMA 400B4	315	23.5	1486	92.1	0.84	1.8	553	342
OMA 400C4	355	26.4	1486	92.3	0.84	1.8	576	369
OMA 400D4	400	29.7	1487	92.5	0.84	1.8	633	377
OMA 400E4	450	33.0	1487	92.6	0.85	1.8	674	398
OMA 400F4	500	36.6	1488	92.7	0.85	1.8	640	473
OMA 450A4	560	40.4	1487	92.9	0.86	1.9	660	514
OMA 450B4	630	45.4	1487	93.1	0.86	1.9	700	544
OMA 450C4	710	51.0	1487	93.5	0.86	2.0	721	595
OMA 450D4	800	57.4	1488	93.6	0.86	2.0	794	608
OMA 500A4	900	64.3	1488	93.9	0.86	2.0	937	569
OMA 500B4	1000	71.4	1489	94.0	0.86	2.0	1018	583
OMA 500C4	1120	78.9	1489	94.2	0.87	2.1	1111	598
OMA 500D4	1250	87.8	1490	94.5	0.87	2.1	1168	644
OMA 560A4	1400	98.1	1490	94.7	0.87	2.2	1286	655
OMA 560B4	1600	112.0	1490	94.8	0.87	2.2	1430	672
OMA 560C4	1800	125.9	1490	94.9	0.87	2.4	1555	687
OMA 560D4	2000	139.7	1490	95.0	0.87	2.4	1640	725
OMA 400A6	280	21.1	988	92.2	0.83	1.8	551	304
OMA 400B6	315	23.7	988	92.4	0.83	1.8	601	313
OMA 400C6	355	26.7	989	92.6	0.83	1.8	809	264
OMA 400D6	400	29.6	989	92.8	0.84	1.8	846	284
OMA 450A6	450	33.3	989	93.0	0.84	1.9	906	298
OMA 450B6	500	36.9	990	93.2	0.84	1.9	934	321
OMA 450C6	560	40.7	990	93.5	0.85	1.9	1055	316
OMA 450D6	630	45.7	990	93.7	0.85	2.0	842	443
OMA 500A6	710	51.4	991	93.8	0.85	2.0	905	465
OMA 500B6	800	57.2	992	93.9	0.86	2.0	971	486
OMA 500C6	900	64.3	992	94.0	0.86	2.1	1053	505
OMA 500D6	1000	71.3	993	94.2	0.86	2.2	1062	562
OMA 560A6	1120	79.6	993	94.5	0.86	2.2	1160	577
OMA 560B6	1250	88.7	993	94.6	0.86	2.4	1271	583
OMA 560C6	1400	99.2	994	94.7	0.86	2.4	1365	609
OMA 560D6	1600	113.3	994	94.8	0.86	2.5	1487	644

OMA Series (10kV) Asynchronous Motor Technical Data (IP54 IC81W)

Type	Rated Output (kW)	Rated Current (A)	Speed (r/min)	Efficiency %	Power Favtor (cosΦ)	Mmax Mn	Rotor Voltage (V)	Rotor Current (A)
OMA 450A8	280	24.1	740	92.0	0.73	1.8	677	250
OMA 450B8	315	27.0	740	92.2	0.73	1.8	718	263
OMA 450C8	355	30.0	740	92.4	0.74	1.8	733	291
OMA 450D8	400	33.6	741	92.8	0.74	1.8	784	305
OMA 450E8	450	37.7	741	93.1	0.74	1.8	878	302
OMA 450F8	500	41.8	741	93.3	0.74	1.8	942	313
OMA 500A8	560	46.1	742	93.5	0.75	1.8	1014	325
OMA 500B8	630	51.8	742	93.6	0.75	1.9	1101	337
OMA 500C8	710	56.8	742	93.7	0.77	1.9	1059	398
OMA 500D8	800	63.9	745	93.8	0.77	2.0	1152	409
OMA 560A8	900	70.0	745	94.0	0.79	2.2	1268	418
OMA 560B8	1000	74.7	745	94.2	0.82	2.2	1374	439
OMA 560C8	1120	83.5	745	94.4	0.82	2.3	1463	458
OMA 560D8	1250	92.9	745	94.7	0.82	2.3	1571	478
OMA 450A10	280	24.9	594	91.6	0.71	1.8	779	214
OMA 450B10	315	27.9	594	91.8	0.71	1.8	860	240
OMA 450C10	355	30.9	594	92.0	0.72	1.8	785	269
OMA 500A10	400	34.8	594	92.3	0.72	1.8	847	281
OMA 500B10	450	37.5	594	92.5	0.75	1.8	918	292
OMA 500C10	500	41.6	595	92.6	0.75	1.8	1002	296
OMA 500D10	560	44.6	595	92.9	0.78	1.9	960	344
OMA 560A10	630	50.1	595	93.0	0.78	1.9	1048	354
OMA 560B10	710	55.7	595	93.2	0.79	1.9	1153	362
OMA 560C10	800	62.6	595	93.4	0.79	1.9	1282	367
OMA 560D10	900	70.3	595	93.6	0.79	1.9	1374	391
OMA 500A12	280	25.2	493	91.5	0.70	1.8	775	213
OMA 500B12	315	28.4	493	91.6	0.70	1.8	832	223
OMA 500C12	355	31.9	494	91.9	0.70	1.8	894	233
OMA 500D12	400	34.4	494	92.0	0.73	1.8	858	275
OMA 500E12	450	38.1	495	92.2	0.74	1.8	929	285
OMA 560A12	500	41.7	495	92.3	0.75	2.0	1015	290
OMA 560B12	560	46.0	495	92.5	0.76	2.0	1117	295
OMA 560C12	630	51.6	495	92.7	0.76	2.0	1233	304
OMA 560D12	710	58.1	495	92.9	0.76	2.0	1347	315

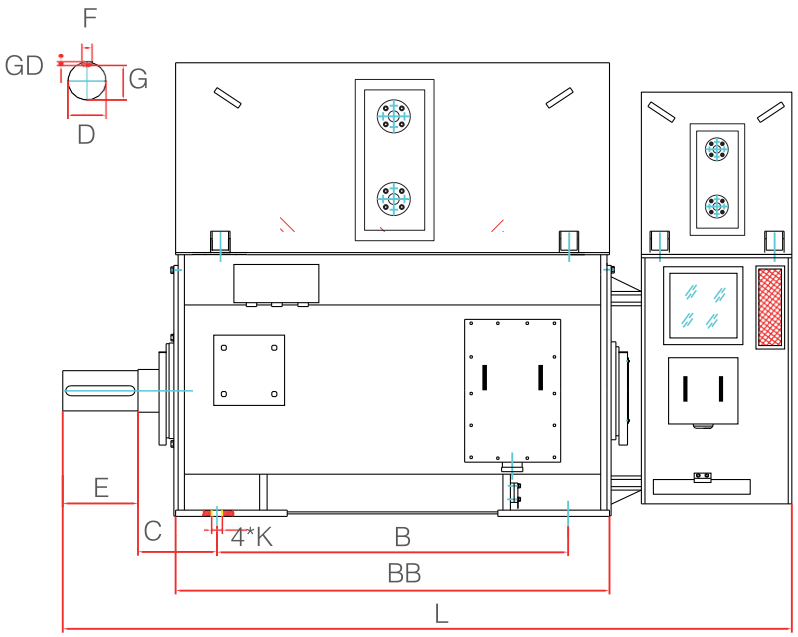
OMA Series (6000V) Totally enclosed Air-Water cooling (IC81W)Enclosure IP44/IP54 High Voltage 3-phase Asyn. Motors. (H355-560mm) Out line Diagram.

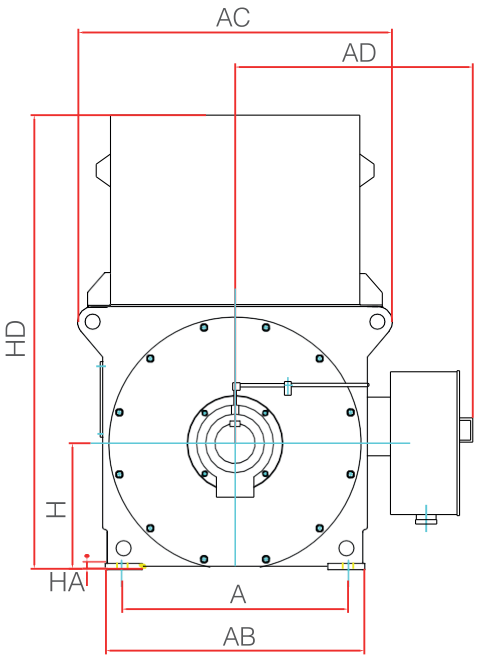




Frame Size	A	AB	AC	AD	B	BB	C	D	E	F	G	GD	H	HA	HD	K	L
355-4-8	630	800	1020	755	1000	1400	315	100	210	28	90	16	355	25	1400	28	2250
400-4-10	710	880	1120	800	1120	1620	335	110	210	28	100	16	400	30	1500	35	2420
450-4-12	800	980	1180	850	1250	1730	335	130	250	32	119	18	450	30	1550	35	2640
500-4-12	900	1080	1320	900	1400	1860	475	150	250	36	138	20	500	35	1730	42	3020
560-4-12	1000	1220	1460	980	1600	2000	500	170	300	40	157	22	560	40	1950	42	3450

OMA Series (10000V) Totally enclosed Air-Water cooling IP44/IP54 High Voltage 3-phase Asyn. Motors. (H355-560mm) Out line Drawings





Frame Size	A	AB	AC	AD	B	BB	C	D	E	F	G	GD	H	HA	HD	K	L
355-4	630	800	1020	900	1000	1400	315	100	210	28	90	16	355	25	1360	28	2250
400-4~8	710	880	1120	950	1120	1620	335	110	210	28	100	16	400	30	1590	35	2420
450-4~12	800	980	1180	1000	1250	1730	335	120	210	32	109	18	450	30	1760	35	2640
500-4~12	900	1080	1320	1050	1400	1860	475	140	250	36	128	20	500	35	1960	42	3020
560-4~12	1000	1220	1460	1120	1600	2000	500	160	300	40	147	22	560	40	2160	42	3450

Information for ordering

The following have to be separately specified when ordering:

Type of motor (an example)	OMA 560C6
Rated power (kW)	1800
Rated voltage (V)	10000
Number of poles	6
Rated frequency (Hz)	50
Protection degree	IP23
Type of cooling	IC01
Type of mounting	IMB3
Duty type	S1
Direction of rotation	Clockwise (View from shaft extension end)
Location of terminal box	On the right hand (Viewing from shaft extension end)
Load moment of inertia	If needed
Resistance curve of load	If needed

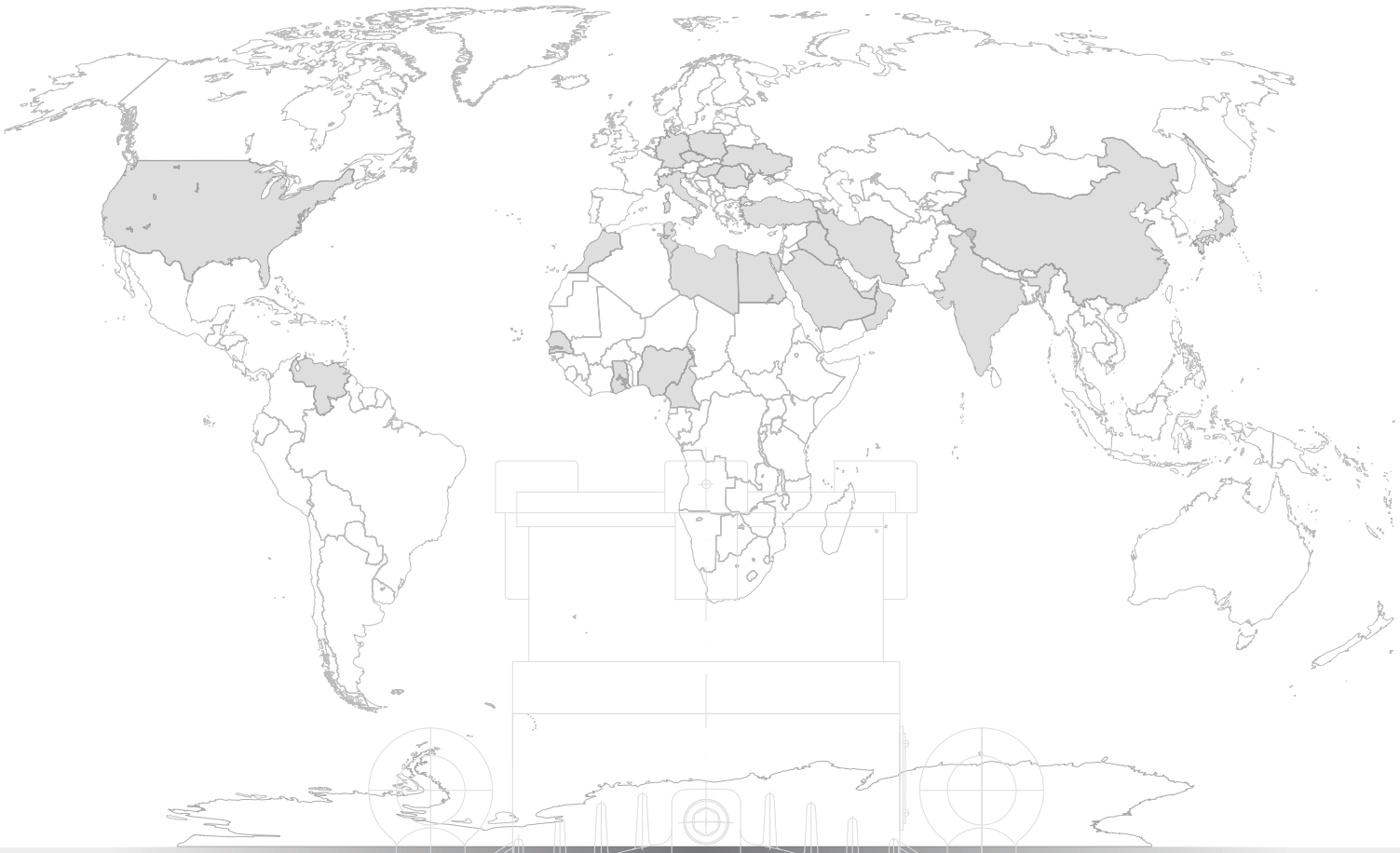
Other special requirements, if any, with respect to break down torque, starting current, noise, altitude (If greater than 1000mm above sea level), ambient temperature (if not within -15℃~+40℃), belt tension (for belt conveyer),etc., please deliver to manufacturer.

Notes:

1. If there are special requirements, a technical agreement should be signed before ordering.
2. If no special requirement is raised when placing an order, the motor will run in clockwise direction and the terminal box will be at the right side of the motor viewing from the shaft extension.
3. The technical data in the Technical Data Table is for rated voltage 6KV and 10KV only. If the rated voltage is changed, the technical data could also be delivered by manufacturer before placing an order.

CATALOGUE

OMA HIGH VOLTAGE SLIP RING MOTORS



OME IN THE WORLD

since1967

ORSATTI GROUP

OME Electric Motors srl

Sede - Via N. Tartaglia N.6b 25064 Gussago (Bs) Italy - Cod.Fisc. e Partita IVA: 03276210980 - Tel.+39 030 3737072 - Fax. +39 030 2411395 - info@omemotors.com

www.omemotors.com