

OMEx

FLAME-PROOF SERIES
HIGH VOLTAGE THREE PHASE ELECTRIC MOTOR

www.omemotors.com





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1. General Description

Based on the manufacturing technology of high voltage motors introduced by Siemens, Germany; OMEX High Voltage Flameproof Three Phase Induction Motors are our newest products. Combining the many years of design and manufacturing experience of steadily producing high-voltage flameproof three-phase induction motors, adopting new techniques, material and technology with excellent workmanship, these series motors have remarkable features such as compact construction, light weight, great power, high efficiency, low noise, small vibration, safe operation and easy maintenance amongs others.

The motors are also available in different protection types, cooling forms and mounting arrangements according to customer requirements.

These series motors are manufactured with flameproof structure in accordance with IEC60034:1-2004 "Rotating electrical machines-Rating and Performance", GB3836.1 "Electrical apparatus for explosive-Part 1; General requirements" and GB3836.2" Electrical apparatus for explosive gas atmospheres-Part 2;



Flameproof enclosure “d”, the flameproof groups are marked by Exdbl, ExdbIAT4, ExdbII BT4, Exd IICT4, suitable for zone 1 and zone 2 hazardous areas where explosive gas and air mixtures exist. These series motors can be used to drive different kinds of general-purpose machines, petrochemical industries and power plants etc. They can be used ad drivers.

“Exdl” is suitable for the areas where the explosive mixtures containing methane or coal dust exist, but not for the coal mining surface.

“ExdbIAT4” is suitable for plant areas where the explosive mixtures of Group II A, temperature class T1, T2, T3 and T4 exist.

“ExdbIIBT4” is suitable for plant areas where the explosive mixtures of Group II B, temperature class T1, T2 and T4 exist.

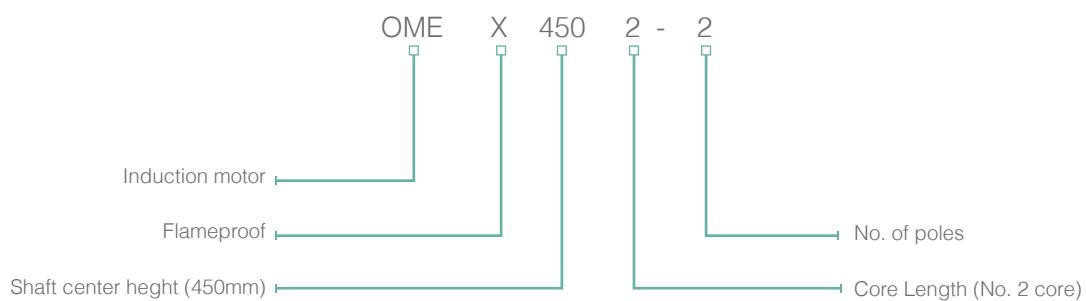
“ExdbIICT4” is suitable for plant areas where the explosive mixtures of Group II B, temperature class T1, T2 and T4 exist.

For the enclosure and the terminal box of this series motors, the protection degree is IP54, IP55 can also be met.

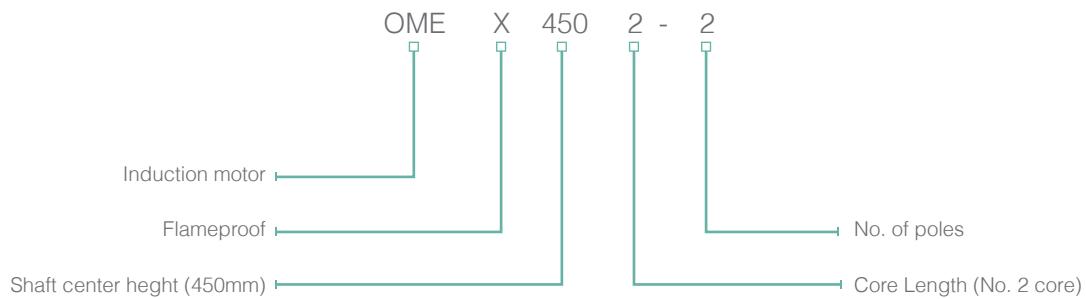
The motors can also be manufactured for special environments, such as outdoor locations, indoor tropical humidity, outdoor tropical humidity, indoor tropical, outdoor tropical, indoor tropical, outdoor tropical and outdoor middle-chemical corrosion locations, which main installation dimensions are same as the dimension of the basic series motors.

2. Model Instruction

The indication meaning of motor model:



The meaning of EX mark:



3. Construction Features

This series of motors have a compact structure popular worldwide. It has a compact structure and an attractive appearance. The cooling ribs are distributed in the inner and outer surface of the frame and end shield.

The stators have external pressure assembly constructions and are of Class F insulation. The Stator coils are wound with insulating flat copper wire. All the winding are vacuum-pressure-impregnated to make the possess the highest electrical performance, mechanical strength, insulation property, moisture resistance and thermo-stability.

The rotors are of squirrel cage structure. After high precision balancing verification, the motors can run smoothly with small vibration.

High-voltage terminal boxes are seal structure with a large terminal compartment within which position of cable heads are left. The terminal boxes are generally located on the right side of the motors.

The bearing structure shall be selected according to different output and speed. For frame size H355~560 and 4,6,8p motors, rolling bearing shall be provided. For frame H500~560 and 2p motors, sleeve bearing shall be provided. For rolling bearing, attachments having the use to replenish the lubricating grease without stopping the motor are set up at both ends of the bearing, attachments having the use to replenish grease periodically. Sleeve bearing.

Which is end shield sphere sleeve bearing, is pressure fed lubrication form, oil ring self-lubrication and combined type lubrication (The lubrication form shall be selected by user. Pressure feed lubrication form shall be provided if the user has no special requirement) The measures to prevent shaft current from generating are taken at the same time.

Motors can be equipped with a bearing temperature detector to detect bearing temperature and also with a stator temperature detector and an anti-condensation heating device on customers request.

The flameproof structures are adopted with the barrel configuration, plain and axial labyrinth etc.

4. Service conditions

Ambient temperature subject to seasonal variation with the highest and the lower temperatures do not separately exceed 40°C and -15°C.

Altitude up to 1000m above sea level

Rated Voltage: 6kV, 10kV.

Rated Frequency: 50Hz

Duty type: continuous S1

5. Technical Data

5.1 Electrical performance of 6kV and 10kV motors shall conform to the requirement separately shown in Table 5 or Table 6.

5.2 The virtual value of the moon vibration velocity should not exceed 2.8mm/s.

6. Mounting Arrangement

The mounting and overall dimensions are given in the table.

Table 1
2 Poles (6 kV)

| Type | Rated Output (Kw) | Current (A) | Rated Speed (rpm) | Efficiency % | Power Factor cos (l) | Locked torque Rated torque | Pull out torque Rated torque | Locked current Rated current | Vibration (mm/s) | Noise dB (A) | GD2 Moment of inertia | Weight (Kg) |
|--------------------------------|-------------------|-------------|-------------------|--------------|----------------------|----------------------------|------------------------------|------------------------------|------------------|--------------|-----------------------|-------------|
| Synchronous speed 3000 (r/min) | | | | | | | | | | | | |
| OMEX-3551-2 | 185 | 22,6 | 2985 | 93,9 | 0,84 | 0,7 | 2 | 7 | 2,8 | 109 | 8 | 2035 |
| OMEX-3552-2 | 200 | 24,4 | 2985 | 94 | 0,84 | 0,7 | 2 | 7 | 2,8 | 109 | 8,5 | 2075 |
| OMEX-3553-2 | 220 | 26,8 | 2985 | 94,2 | 0,84 | 0,7 | 2 | 7 | 2,8 | 109 | 9,5 | 2160 |
| OMEX-3554-2 | 250 | 30,3 | 2985 | 94,4 | 0,84 | 0,7 | 2 | 7 | 2,8 | 111 | 10 | 2215 |
| OMEX-3555-2 | 280 | 33,1 | 2985 | 94,6 | 0,86 | 0,7 | 2 | 7 | 2,8 | 111 | 11 | 2280 |
| OMEX-4001-2 | 315 | 37,2 | 2985 | 94,8 | 0,86 | 0,7 | 2 | 7 | 2,8 | 111 | 17 | 2630 |
| OMEX-4002-2 | 355 | 41,9 | 2985 | 94,9 | 0,86 | 0,7 | 2 | 7 | 2,8 | 111 | 18 | 2700 |
| OMEX-4003-2 | 400 | 47,1 | 2985 | 95,1 | 0,86 | 0,7 | 2 | 7 | 2,8 | 111 | 19,5 | 2830 |
| OMEX-4004-2 | 450 | 52,9 | 2985 | 95,2 | 0,86 | 0,7 | 2 | 7 | 2,8 | 111 | 21 | 2920 |
| OMEX-4501-2 | 500 | 58,0 | 2985 | 95,3 | 0,87 | 0,7 | 2 | 7 | 2,8 | 111 | 22 | 3200 |
| OMEX-4502-2 | 560 | 64,9 | 2985 | 95,4 | 0,87 | 0,7 | 2 | 7 | 2,8 | 112 | 24 | 3300 |
| OMEX-4503-2 | 630 | 73,0 | 2985 | 95,5 | 0,87 | 0,7 | 2 | 7 | 2,8 | 112 | 27 | 3500 |
| OMEX-4504-2 | 710 | 82,1 | 2985 | 95,7 | 0,87 | 0,7 | 2 | 7 | 2,8 | 112 | 30 | 3600 |
| OMEX-5001-2 | 800 | 91,5 | 2985 | 95,6 | 0,88 | 0,7 | 2 | 7 | 2,8 | 112 | 61 | 5360 |
| OMEX-5002-2 | 900 | 102,8 | 2985 | 95,7 | 0,88 | 0,7 | 2 | 7 | 2,8 | 112 | 65 | 5500 |
| OMEX-5003-2 | 1000 | 114,0 | 2985 | 95,9 | 0,88 | 0,7 | 2 | 7 | 2,8 | 112 | 69 | 5640 |
| OMEX-5004-2 | 1120 | 127,5 | 2985 | 96 | 0,88 | 0,7 | 2 | 7 | 2,8 | 113 | 75 | 5900 |
| OMEX-5601-2 | 1250 | 140,6 | 2985 | 96,1 | 0,89 | 0,7 | 2 | 7 | 2,8 | 113 | 111 | 5800 |
| OMEX-5602-2 | 1400 | 157,2 | 2985 | 96,3 | 0,89 | 0,7 | 2 | 7 | 2,8 | 113 | 119 | 5860 |
| OMEX-5603-2 | 1600 | 179,3 | 2985 | 96,5 | 0,89 | 0,7 | 2 | 7 | 2,8 | 113 | 127 | 5930 |

Table 2
4 Poles (6 kV)

| Type | Rated Output (Kw) | Current (A) | Rated Speed (rpm) | Efficiency % | Power Factor cos (l) | Locked torque Rated torque | Pull out torque Rated torque | Locked current Rated current | Vibration (mm/s) | Noise dB (A) | GD2 Moment of inertia | Weight (Kg) |
|--------------------------------|-------------------|-------------|-------------------|--------------|----------------------|----------------------------|------------------------------|------------------------------|------------------|--------------|-----------------------|-------------|
| Synchronous speed 1500 (r/min) | | | | | | | | | | | | |
| OMEX-3551-4 | 185 | 22,6 | 1488 | 93,7 | 0,84 | 0,8 | 2 | 6,5 | 2,8 | 106 | 19 | 2120 |
| OMEX-3552-4 | 200 | 24,4 | 1488 | 93,9 | 0,84 | 0,8 | 2 | 6,5 | 2,8 | 106 | 21,5 | 2220 |
| OMEX-3553-4 | 220 | 26,8 | 1488 | 94,1 | 0,84 | 0,8 | 2 | 6,5 | 2,8 | 106 | 23 | 2290 |
| OMEX-3554-4 | 250 | 30,4 | 1488 | 94,3 | 0,84 | 0,8 | 2 | 6,5 | 2,8 | 108 | 24,5 | 2340 |
| OMEX-3555-4 | 280 | 33,9 | 1488 | 94,5 | 0,84 | 0,8 | 2 | 6,5 | 2,8 | 108 | 25,5 | 2400 |
| OMEX-4001-4 | 315 | 37,7 | 1488 | 94,6 | 0,85 | 0,8 | 2 | 6,5 | 2,8 | 108 | 32 | 2970 |
| OMEX-4002-4 | 355 | 42,4 | 1488 | 94,8 | 0,85 | 0,8 | 2 | 6,5 | 2,8 | 108 | 34 | 3080 |
| OMEX-4003-4 | 400 | 47,7 | 1488 | 95 | 0,85 | 0,8 | 2 | 6,5 | 2,8 | 108 | 37 | 3170 |
| OMEX-4004-4 | 450 | 53,5 | 1488 | 95,2 | 0,85 | 0,8 | 2 | 6,5 | 2,8 | 108 | 39 | 3250 |
| OMEX-4501-4 | 500 | 58,7 | 1488 | 95,3 | 0,86 | 0,8 | 2 | 6,5 | 2,8 | 108 | 52 | 3500 |
| OMEX-4502-4 | 560 | 65,7 | 1488 | 95,4 | 0,86 | 0,8 | 2 | 6,5 | 2,8 | 111 | 58 | 3700 |
| OMEX-4503-4 | 630 | 73,8 | 1488 | 95,5 | 0,86 | 0,8 | 2 | 6,5 | 2,8 | 111 | 65 | 3950 |
| OMEX-4504-4 | 710 | 83,1 | 1488 | 95,6 | 0,86 | 0,8 | 2 | 6,5 | 2,8 | 111 | 73 | 4200 |
| OMEX-5001-4 | 800 | 93,5 | 1488 | 95,7 | 0,86 | 0,8 | 2 | 6,5 | 2,8 | 111 | 130 | 5350 |
| OMEX-5002-4 | 900 | 105,1 | 1488 | 95,8 | 0,86 | 0,8 | 2 | 6,5 | 2,8 | 111 | 141 | 5540 |
| OMEX-5003-4 | 1000 | 116,7 | 1488 | 95,9 | 0,86 | 0,8 | 2 | 6,5 | 2,8 | 111 | 148 | 5700 |
| OMEX-5004-4 | 1120 | 130,5 | 1488 | 96 | 0,86 | 0,8 | 2 | 6,5 | 2,8 | 113 | 156 | 5800 |
| OMEX-5601-4 | 1250 | 143,9 | 1488 | 96,1 | 0,87 | 0,7 | 2 | 6,5 | 2,8 | 113 | 252 | 5900 |
| OMEX-5602-4 | 1400 | 161,0 | 1488 | 96,2 | 0,87 | 0,7 | 2 | 6,5 | 2,8 | 113 | 272 | 5950 |
| OMEX-5603-4 | 1600 | 183,6 | 1488 | 96,4 | 0,87 | 0,7 | 2 | 6,5 | 2,8 | 113 | 305 | 6020 |

Table 3
6 Poles (6 kV)

| Type | Rated Output (Kw) | Current (A) | Rated Speed (rpm) | Efficiency % | Power Factor cos (l) | Locked torque Rated torque | Pull out torque Rated torque | Locked current Rated current | Vibration (mm/s) | Noise dB (A) | GD2 Moment of inertia | Weight (Kg) |
|--------------------------------|-------------------|-------------|-------------------|--------------|----------------------|----------------------------|------------------------------|------------------------------|------------------|--------------|-----------------------|-------------|
| Synchronous speed 1000 (r/min) | | | | | | | | | | | | |
| OMEX-3553-6 | 160 | 20,6 | 987 | 93,4 | 0,80 | 0,8 | 2 | 6 | 2,8 | 102 | 26 | 2255 |
| OMEX-3554-6 | 185 | 23,8 | 987 | 93,5 | 0,80 | 0,8 | 2 | 6 | 2,8 | 102 | 28 | 2345 |
| OMEX-3555-6 | 200 | 25,7 | 987 | 93,6 | 0,80 | 0,8 | 2 | 6 | 2,8 | 102 | 31 | 2440 |
| OMEX-4001-6 | 220 | 27,5 | 987 | 93,8 | 0,82 | 0,8 | 2 | 6 | 2,8 | 102 | 47 | 3010 |
| OMEX-4002-6 | 250 | 31,2 | 987 | 93,9 | 0,82 | 0,8 | 2 | 6 | 2,8 | 105 | 50 | 3110 |
| OMEX-4003-6 | 280 | 34,9 | 987 | 94,1 | 0,82 | 0,8 | 2 | 6 | 2,8 | 105 | 53 | 3200 |
| OMEX-4004-6 | 315 | 49,2 | 987 | 94,3 | 0,82 | 0,8 | 2 | 6 | 2,8 | 105 | 57 | 3250 |
| OMEX-4501-6 | 355 | 43,6 | 987 | 94,5 | 0,83 | 0,8 | 2 | 6 | 2,8 | 105 | 64 | 3600 |
| OMEX-4502-6 | 400 | 49,0 | 987 | 94,6 | 0,83 | 0,8 | 2 | 6 | 2,8 | 105 | 73 | 3800 |
| OMEX-4503-6 | 450 | 55,1 | 987 | 94,7 | 0,83 | 0,8 | 2 | 6 | 2,8 | 105 | 81 | 4000 |
| OMEX-4504-6 | 500 | 61,1 | 987 | 94,9 | 0,83 | 0,8 | 2 | 6 | 2,8 | 105 | 90 | 4200 |
| OMEX-5001-6 | 560 | 68,3 | 987 | 95,1 | 0,83 | 0,8 | 2 | 6 | 2,8 | 108 | 177 | 5370 |
| OMEX-5002-6 | 630 | 76,7 | 987 | 95,2 | 0,83 | 0,8 | 2 | 6 | 2,8 | 108 | 184 | 5500 |
| OMEX-5003-6 | 710 | 86,4 | 987 | 95,3 | 0,83 | 0,8 | 2 | 6 | 2,8 | 108 | 191 | 5630 |
| OMEX-5004-6 | 800 | 97,2 | 987 | 95,4 | 0,83 | 0,8 | 2 | 6 | 2,8 | 108 | 202 | 5830 |
| OMEX-5601-6 | 900 | 107,8 | 987 | 95,6 | 0,84 | 0,7 | 2 | 6 | 2,8 | 108 | 388 | 5930 |
| OMEX-5602-6 | 1000 | 119,7 | 987 | 95,7 | 0,84 | 0,7 | 2 | 6 | 2,8 | 108 | 402 | 6020 |
| OMEX-5603-6 | 1120 | 134,0 | 987 | 95,8 | 0,84 | 0,7 | 2 | 6 | 2,8 | 110 | 423 | 6100 |
| OMEX-5604-6 | 1250 | 149,3 | 987 | 95,9 | 0,84 | 0,7 | 2 | 6 | 2,8 | 110 | 450 | 6150 |

Table 4
8 Poles (6 kV)

| Type | Rated Output (Kw) | Current (A) | Rated Speed (rpm) | Efficiency % | Power Factor cos (l) | Locked torque Rated torque | Pull out torque Rated torque | Locked current Rated current | Vibration (mm/s) | Noise dB (A) | GD2 Moment of inertia | Weight (Kg) |
|-------------------------------|-------------------|-------------|-------------------|--------------|----------------------|----------------------------|------------------------------|------------------------------|------------------|--------------|-----------------------|-------------|
| Synchronous speed 750 (r/min) | | | | | | | | | | | | |
| OMEX-4001-8 | 160 | 21,7 | 742 | 93,2 | 0,76 | 0,8 | 2 | 5,5 | 2,8 | 99 | 50 | 3020 |
| OMEX-4002-8 | 185 | 25,1 | 742 | 93,3 | 0,76 | 0,8 | 2 | 5,5 | 2,8 | 99 | 52 | 3090 |
| OMEX-4003-8 | 200 | 26,7 | 742 | 93,5 | 0,77 | 0,8 | 2 | 5,5 | 2,8 | 99 | 56 | 3150 |
| OMEX-4004-8 | 220 | 29,3 | 742 | 93,7 | 0,77 | 0,8 | 2 | 5,5 | 2,8 | 99 | 61 | 3260 |
| OMEX-4501-8 | 250 | 32,8 | 742 | 93,9 | 0,78 | 0,8 | 2 | 5,5 | 2,8 | 102 | 65 | 3600 |
| OMEX-4502-8 | 280 | 32,9 | 742 | 94,1 | 0,78 | 0,8 | 2 | 5,5 | 2,8 | 102 | 73 | 3800 |
| OMEX-4503-8 | 315 | 40,0 | 742 | 94,2 | 0,78 | 0,8 | 2 | 5,5 | 2,8 | 102 | 82 | 4000 |
| OMEX-4504-8 | 355 | 46,4 | 742 | 94,4 | 0,78 | 0,8 | 2 | 5,5 | 2,8 | 102 | 91 | 4200 |
| OMEX-5001-8 | 400 | 51,6 | 742 | 94,5 | 0,79 | 0,8 | 2 | 5,5 | 2,8 | 102 | 177 | 5380 |
| OMEX-5002-8 | 450 | 57,9 | 742 | 94,6 | 0,79 | 0,8 | 2 | 5,5 | 2,8 | 102 | 184 | 5510 |
| OMEX-5003-8 | 500 | 63,4 | 742 | 94,8 | 0,80 | 0,8 | 2 | 5,5 | 2,8 | 102 | 191 | 5640 |
| OMEX-5004-8 | 560 | 71,0 | 742 | 94,9 | 0,80 | 0,8 | 2 | 5,5 | 2,8 | 105 | 202 | 5850 |
| OMEX-5601-8 | 630 | 78,7 | 742 | 95,1 | 0,81 | 0,7 | 2 | 5,5 | 2,8 | 105 | 480 | 6200 |
| OMEX-5602-8 | 710 | 88,6 | 742 | 95,3 | 0,81 | 0,7 | 2 | 5,5 | 2,8 | 105 | 510 | 6240 |
| OMEX-5603-8 | 800 | 99,7 | 742 | 95,4 | 0,81 | 0,7 | 2 | 5,5 | 2,8 | 105 | 535 | 6320 |
| OMEX-5604-8 | 900 | 111,9 | 742 | 95,6 | 0,81 | 0,7 | 2 | 5,5 | 2,8 | 105 | 560 | 6400 |

Table 5
2 Poles (10kV)

| Type | Rated Output (Kw) | Current (A) | Rated Speed (rpm) | Efficiency % | Power Factor cos (l) | Locked torque Rated torque | Pull out torque Rated torque | Locked current Rated current | Vibration (mm/s) | Noise dB (A) | GD2 Moment of inertia | Weight (Kg) |
|--------------------------------|-------------------|-------------|-------------------|--------------|----------------------|----------------------------|------------------------------|------------------------------|------------------|--------------|-----------------------|-------------|
| Synchronous speed 3000 (r/min) | | | | | | | | | | | | |
| OMEX-4501-2 | 220 | 16,3 | 2985 | 92,8 | 0,84 | 0,7 | 2 | 7 | 2,8 | 111 | 17 | 2730 |
| OMEX-4502-2 | 250 | 18,5 | 2985 | 93 | 0,84 | 0,7 | 2 | 7 | 2,8 | 111 | 18 | 2800 |
| OMEX-4503-2 | 280 | 20,2 | 2985 | 93,1 | 0,86 | 0,7 | 2 | 7 | 2,8 | 111 | 19,5 | 2930 |
| OMEX-4504-2 | 315 | 22,7 | 2985 | 93,3 | 0,86 | 0,7 | 2 | 7 | 2,8 | 111 | 21 | 3120 |
| OMEX-4505-2 | 355 | 25,5 | 2985 | 93,5 | 0,86 | 0,7 | 2 | 7 | 2,8 | 111 | 22 | 3200 |
| OMEX-4506-2 | 400 | 28,7 | 2985 | 93,8 | 0,86 | 0,7 | 2 | 7 | 2,8 | 111 | 24 | 3300 |
| OMEX-4507-2 | 450 | 32,2 | 2985 | 93,9 | 0,86 | 0,7 | 2 | 7 | 2,8 | 111 | 27 | 3500 |
| OMEX-4508-2 | 500 | 35,3 | 2985 | 94 | 0,87 | 0,7 | 2 | 7 | 2,8 | 111 | 30 | 3600 |
| OMEX-5001-2 | 560 | 39,5 | 2985 | 94,2 | 0,87 | 0,7 | 2 | 7 | 2,8 | 112 | 48 | 5050 |
| OMEX-5002-2 | 630 | 44,3 | 2985 | 94,4 | 0,87 | 0,7 | 2 | 7 | 2,8 | 112 | 54 | 5200 |
| OMEX-5003-2 | 710 | 49,8 | 2985 | 94,6 | 0,87 | 0,7 | 2 | 7 | 2,8 | 112 | 61 | 5360 |
| OMEX-5004-2 | 800 | 55,4 | 2985 | 94,8 | 0,88 | 0,7 | 2 | 7 | 2,8 | 112 | 65 | 5500 |
| OMEX-5005-2 | 900 | 62,2 | 2985 | 95 | 0,88 | 0,7 | 2 | 7 | 2,8 | 112 | 69 | 5640 |
| OMEX-5601-2 | 1000 | 69,0 | 2985 | 95,1 | 0,88 | 0,7 | 2 | 7 | 2,8 | 112 | 75 | 5700 |
| OMEX-5602-2 | 1120 | 76,2 | 2985 | 95,3 | 0,89 | 0,7 | 2 | 7 | 2,8 | 112 | 111 | 5800 |
| OMEX-5603-2 | 1250 | 84,9 | 2985 | 95,5 | 0,89 | 0,7 | 2 | 7 | 2,8 | 112 | 119 | 5860 |
| OMEX-5604-2 | 1400 | 94,9 | 2985 | 95,7 | 0,89 | 0,7 | 2 | 7 | 2,8 | 112 | 127 | 5930 |

Table 6
4 Poles (10kV)

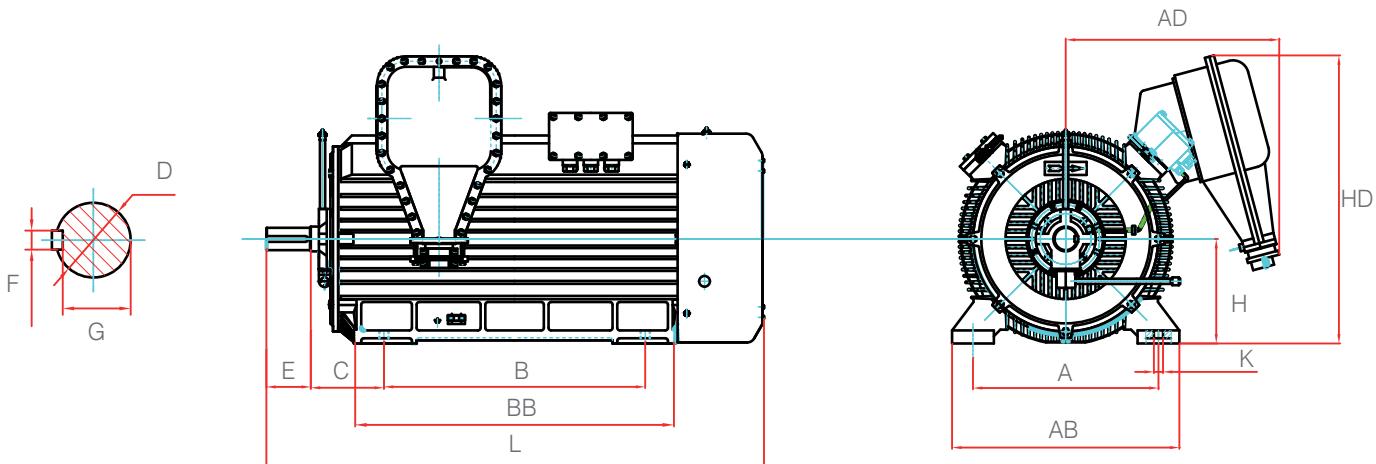
| Type | Rated Output (Kw) | Current (A) | Rated Speed (rpm) | Efficiency % | Power Factor cos (l) | Locked torque Rated torque | Pull out torque Rated torque | Locked current Rated current | Vibration (mm/s) | Noise dB (A) | GD2 Moment of inertia | Weight (Kg) |
|--------------------------------|-------------------|-------------|-------------------|--------------|----------------------|----------------------------|------------------------------|------------------------------|------------------|--------------|-----------------------|-------------|
| Synchronous speed 1500 (r/min) | | | | | | | | | | | | |
| OMEX-4501-4 | 220 | 16,3 | 1488 | 92,7 | 0,84 | 0,8 | 2 | 6,5 | 2,8 | 106 | 21 | 2810 |
| OMEX-4502-4 | 250 | 18,5 | 1488 | 92,9 | 0,84 | 0,8 | 2 | 6,5 | 2,8 | 108 | 34 | 3000 |
| OMEX-4503-4 | 280 | 20,7 | 1488 | 93,0 | 0,84 | 0,8 | 2 | 6,5 | 2,8 | 108 | 38. | 3160 |
| OMEX-4504-4 | 315 | 22,9 | 1488 | 93,3 | 0,85 | 0,8 | 2 | 6,5 | 2,8 | 108 | 43 | 3350 |
| OMEX-4505-4 | 355 | 25,8 | 1488 | 93,4 | 0,85 | 0,8 | 2 | 6,5 | 2,8 | 108 | 52 | 3500 |
| OMEX-4506-4 | 400 | 29,0 | 1488 | 93,6 | 0,85 | 0,8 | 2 | 6,5 | 2,8 | 108 | 58 | 3700 |
| OMEX-4507-4 | 450 | 32,6 | 1488 | 93,8 | 0,85 | 0,8 | 2 | 6,5 | 2,8 | 108 | 65 | 3950 |
| OMEX-4508-4 | 500 | 35,7 | 1488 | 94,0 | 0,86 | 0,8 | 2 | 6,5 | 2,8 | 108 | 73 | 4200 |
| OMEX-5001-4 | 560 | 39,9 | 1488 | 94,1 | 0,86 | 0,8 | 2 | 6,5 | 2,8 | 111 | 122 | 5130 |
| OMEX-5002-4 | 630 | 44,9 | 1488 | 94,3 | 0,86 | 0,8 | 2 | 6,5 | 2,8 | 111 | 130 | 5350 |
| OMEX-5003-4 | 710 | 50,4 | 1488 | 94,5 | 0,86 | 0,8 | 2 | 6,5 | 2,8 | 111 | 141 | 5540 |
| OMEX-5004-4 | 800 | 56,0 | 1488 | 94,8 | 0,87 | 0,8 | 2 | 6,5 | 2,8 | 111 | 148 | 5700 |
| OMEX-5005-4 | 900 | 62,9 | 1488 | 95,0 | 0,87 | 0,8 | 2 | 6,5 | 2,8 | 111 | 156 | 5800 |
| OMEX-5601-4 | 1000 | 69,8 | 1488 | 95,1 | 0,87 | 0,8 | 2 | 6,5 | 2,8 | 111 | 230 | 5850 |
| OMEX-5602-4 | 1120 | 77,2 | 1488 | 95,2 | 0,88 | 0,8 | 2 | 6,5 | 2,8 | 111 | 252 | 5900 |
| OMEX-5603-4 | 1250 | 85,0 | 1488 | 95,4 | 0,88 | 0,8 | 2 | 6,5 | 2,8 | 113 | 272 | 5950 |
| OMEX-5604-4 | 1400 | 96,1 | 1488 | 95,6 | 0,88 | 0,8 | 2 | 6,5 | 2,8 | 113 | 305 | 6020 |

Table 7
6 Poles (10kV)

| Type | Rated Output (Kw) | Current (A) | Rated Speed (rpm) | Efficiency % | Power Factor cos (l) | Locked torque Rated torque | Pull out torque Rated torque | Locked current Rated current | Vibration (mm/s) | Noise dB (A) | GD2 Moment of inertia | Weight (Kg) |
|-------------------------------|-------------------|-------------|-------------------|--------------|----------------------|----------------------------|------------------------------|------------------------------|------------------|--------------|-----------------------|-------------|
| Synchronous speed 750 (r/min) | | | | | | | | | | | | |
| OMEX-4504-6 | 220 | 16,7 | 987 | 92,5 | 0,82 | 0,8 | 2 | 6,5 | 2,8 | 105 | 56 | 3400 |
| OMEX-4505-6 | 250 | 18,9 | 987 | 92,7 | 0,82 | 0,8 | 2 | 6,5 | 2,8 | 105 | 64 | 3600 |
| OMEX-4506-6 | 180 | 21,2 | 987 | 92,9 | 0,82 | 0,8 | 2 | 6,5 | 2,8 | 105 | 73 | 3800 |
| OMEX-4507-6 | 315 | 23,8 | 987 | 93,1 | 0,82 | 0,8 | 2 | 6,5 | 2,8 | 105 | 81 | 4000 |
| OMEX-4508-6 | 355 | 26,8 | 987 | 93,3 | 0,82 | 0,8 | 2 | 6,5 | 2,8 | 105 | 90 | 4200 |
| OMEX-5001-6 | 400 | 30,1 | 987 | 93,5 | 0,82 | 0,8 | 2 | 6,5 | 2,8 | 105 | 170 | 5250 |
| OMEX-5002-6 | 450 | 33,4 | 987 | 93,7 | 0,83 | 0,8 | 2 | 6 | 2,8 | 105 | 177 | 5370 |
| OMEX-5003-6 | 500 | 37 | 987 | 93,9 | 0,83 | 0,8 | 2 | 6 | 2,8 | 105 | 184 | 5500 |
| OMEX-5004-6 | 560 | 41,4 | 987 | 94,1 | 0,83 | 0,8 | 2 | 6 | 2,8 | 108 | 191 | 5630 |
| OMEX-5005-6 | 630 | 46,5 | 987 | 94,3 | 0,83 | 0,8 | 2 | 6 | 2,8 | 108 | 202 | 5830 |
| OMEX-5601-6 | 710 | 52,3 | 987 | 94,3 | 0,83 | 0,8 | 2 | 6 | 2,8 | 108 | 370 | 5840 |
| OMEX-5602-6 | 800 | 58,8 | 987 | 94,7 | 0,83 | 0,8 | 2 | 6 | 2,8 | 108 | 388 | 5930 |
| OMEX-5603-6 | 900 | 65,2 | 987 | 94,9 | 0,84 | 0,7 | 2 | 6 | 2,8 | 108 | 402 | 6020 |
| OMEX-5604-6 | 1000 | 72,2 | 987 | 95,1 | 0,84 | 0,7 | 2 | 6 | 2,8 | 108 | 423 | 6100 |
| OMEX-5605-6 | 1120 | 80,8 | 987 | 95,3 | 0,84 | 0,7 | 2 | 6 | 2,8 | 108 | 450 | 6150 |

Table 8
8 Poles (10kV)

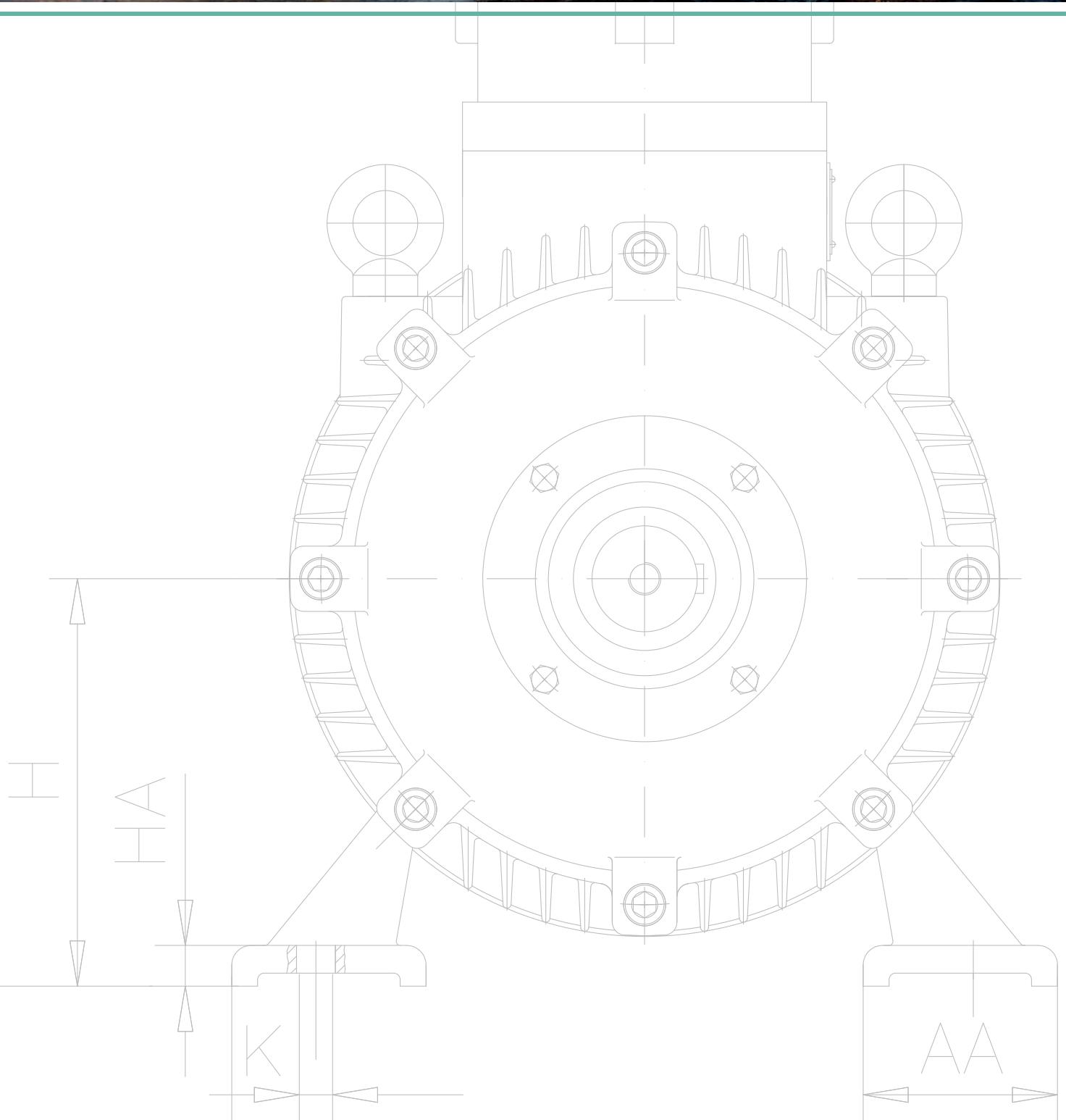
| Type | Rated Output (Kw) | Current (A) | Rated Speed (rpm) | Efficiency % | Power Factor cos (I) | Locked torque Rated torque | Pull out torque Rated torque | Locked current Rated current | Vibration (mm/s) | Noise dB (A) | GD2 Moment of inertia | Weight (Kg) |
|--------------------------------|-------------------|-------------|-------------------|--------------|----------------------|----------------------------|------------------------------|------------------------------|------------------|--------------|-----------------------|-------------|
| Synchronous speed 1000 (r/min) | | | | | | | | | | | | |
| OMEX-4506-8 | 220 | 18,3 | 742 | 92,4 | 0,75 | 0,8 | 2 | 5,5 | 2,8 | 102 | 73 | 3800 |
| OMEX-4507-8 | 250 | 20,8 | 742 | 92,6 | 0,75 | 0,8 | 2 | 5,5 | 2,8 | 102 | 82 | 4000 |
| OMEX-4508-8 | 280 | 22,6 | 742 | 92,8 | 0,77 | 0,8 | 2 | 5,5 | 2,8 | 102 | 91 | 4200 |
| OMEX-5002-8 | 315 | 25,4 | 742 | 93 | 0,77 | 0,8 | 2 | 5,5 | 2,8 | 102 | 170 | 5250 |
| OMEX-5003-8 | 355 | 28,6 | 742 | 93,2 | 0,77 | 0,8 | 2 | 5,5 | 2,8 | 102 | 177 | 5380 |
| OMEX-5004-8 | 400 | 31,3 | 742 | 93,4 | 0,79 | 0,8 | 2 | 5,5 | 2,8 | 102 | 184 | 5510 |
| OMEX-5005-8 | 450 | 35,2 | 742 | 93,5 | 0,79 | 0,8 | 2 | 5,5 | 2,8 | 102 | 191 | 5640 |
| OMEX-5601-8 | 500 | 38,9 | 742 | 93,7 | 0,79 | 0,8 | 2 | 5,5 | 2,8 | 105 | 450 | 6100 |
| OMEX-5602-8 | 560 | 43,6 | 742 | 93,9 | 0,79 | 0,8 | 2 | 5,5 | 2,8 | 105 | 480 | 6200 |
| OMEX-5603-8 | 630 | 48,3 | 742 | 94,1 | 0,8 | 0,7 | 2 | 5,5 | 2,8 | 105 | 510 | 6240 |
| OMEX-5604-8 | 710 | 54,3 | 742 | 94,3 | 0,8 | 0,7 | 2 | 5,5 | 2,8 | 105 | 535 | 6320 |
| OMEX-5605-8 | 800 | 61,1 | 742 | 94,5 | 0,8 | 0,7 | 2 | 5,5 | 2,8 | 105 | 560 | 6400 |



| Frame size | Poles | A | B | C | D | E | F | G | H | K | AB | AD | BB | HB | HD | L | |
|------------|---------|------------|-------------|-----------|------------|------------|------------|-------------|------------------|-----|------------|------|------|------|------|------|------|
| 355 | 2 | 630 ± 1.4 | 900 ± 1.4 | 245 ± 4.0 | 75 | 140 ± 0.50 | 20 | 67.5 | 355 | 28 | +0.52 0 | 790 | 7860 | 1110 | 210 | 1110 | 2000 |
| | 4, 6 | | | | 100 | 210 ± 0.57 | 28 | 90 | | | | | | | | | |
| 400 | 2 | 710 ± 1.75 | 1000 ± 1.75 | 280 ± 4.0 | 85 | 170 ± 0.50 | 22 | 0 -0.052 | 76 | 400 | 870 | 860 | 1200 | 290 | 1140 | 2200 | |
| | 4, 6, 8 | | | | 110 | 210 ± 0.57 | 28 | 100 | 0 -0.2 | | | | | | | | |
| 450 | 2 | 800 ± 1.75 | 1120 ± 1.75 | 280 ± 4.0 | 95 | 170 ± 0.50 | 25 | 86 | 35 | 40 | 950 | 930 | 1340 | 390 | 1250 | 2310 | |
| | 4 | | | | 120 | 210 ± 0.57 | 32 | 0 -0.062 | 109 | | | | | | | | |
| | 6, 8 | | | | 130 | 250 ± 0.57 | | 119 | 0 -1.0 | | | | | | | | |
| 500 | 2 | 900 ± 2.1 | 1250 ± 2.1 | 315 ± 4.0 | 425* ± 4.0 | 110 | 210 ± 0.57 | 28 | 0 -0.052 | 100 | 500 | 1080 | 970 | 1490 | 470 | 1420 | 2600 |
| | 4 | | | | 130 | | | 32 | 119 | | | | | | | | |
| | 6, 8 | | | | 140 | | | 36 | 128 0 -0.3 | | | | | | | | |
| 560 | 2 | 1000 ± 2.1 | 1400 ± 2.1 | 355 ± 4.0 | 530 ± 4.0 | 130 | 250 ± 0.57 | 32 | 0 -0.062 | 119 | 560 | 1180 | 1030 | 1680 | 590 | 1480 | 2900 |
| | 4 | | | | 150 | | | 36 | 138 0 -0.3 | | | | | | | | |
| | 6, 8 | | | | 160 | | | 40 | 147 | | | | | | | | |

*C-dimension if motor with rolling bearing. The shaft deviation in axial direction can be agreed upon request.

The shaft deviation excluded in the limitation deviation.



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