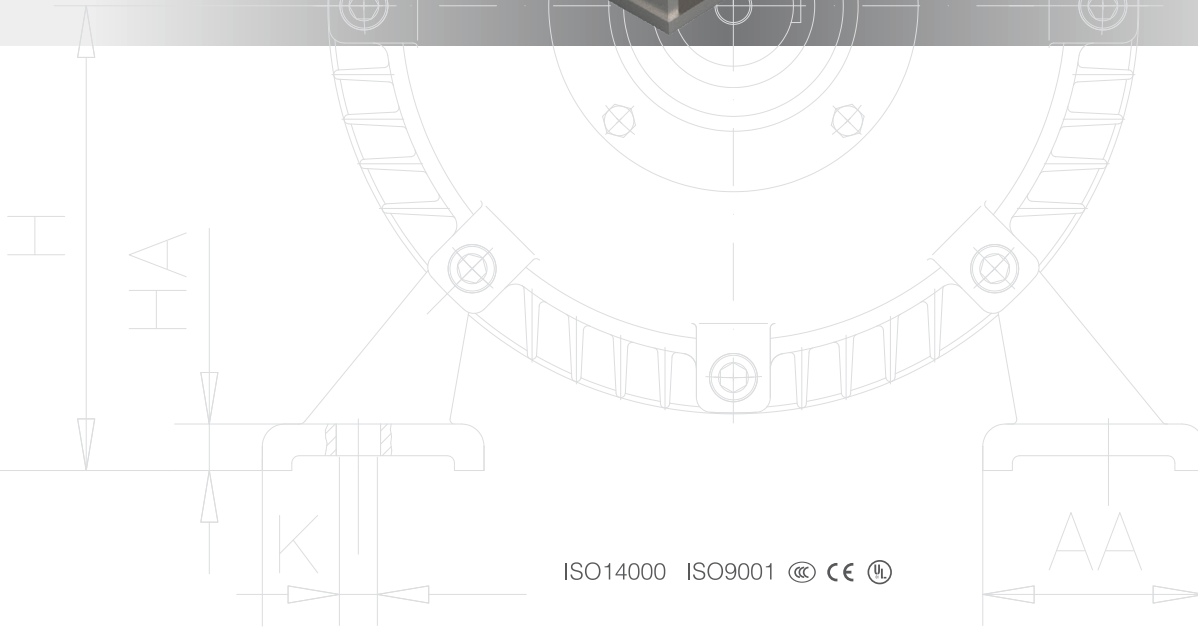
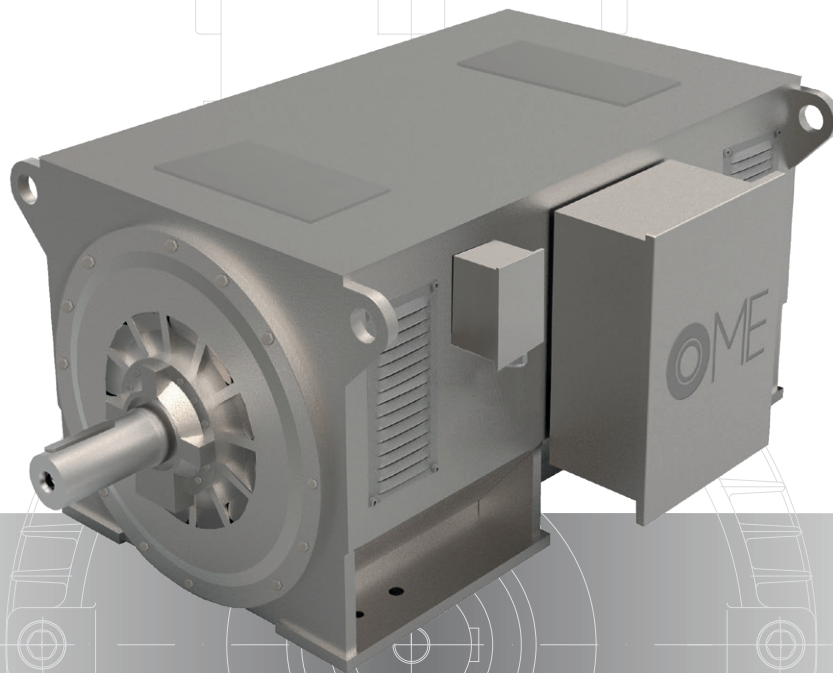




OMVP SERIES

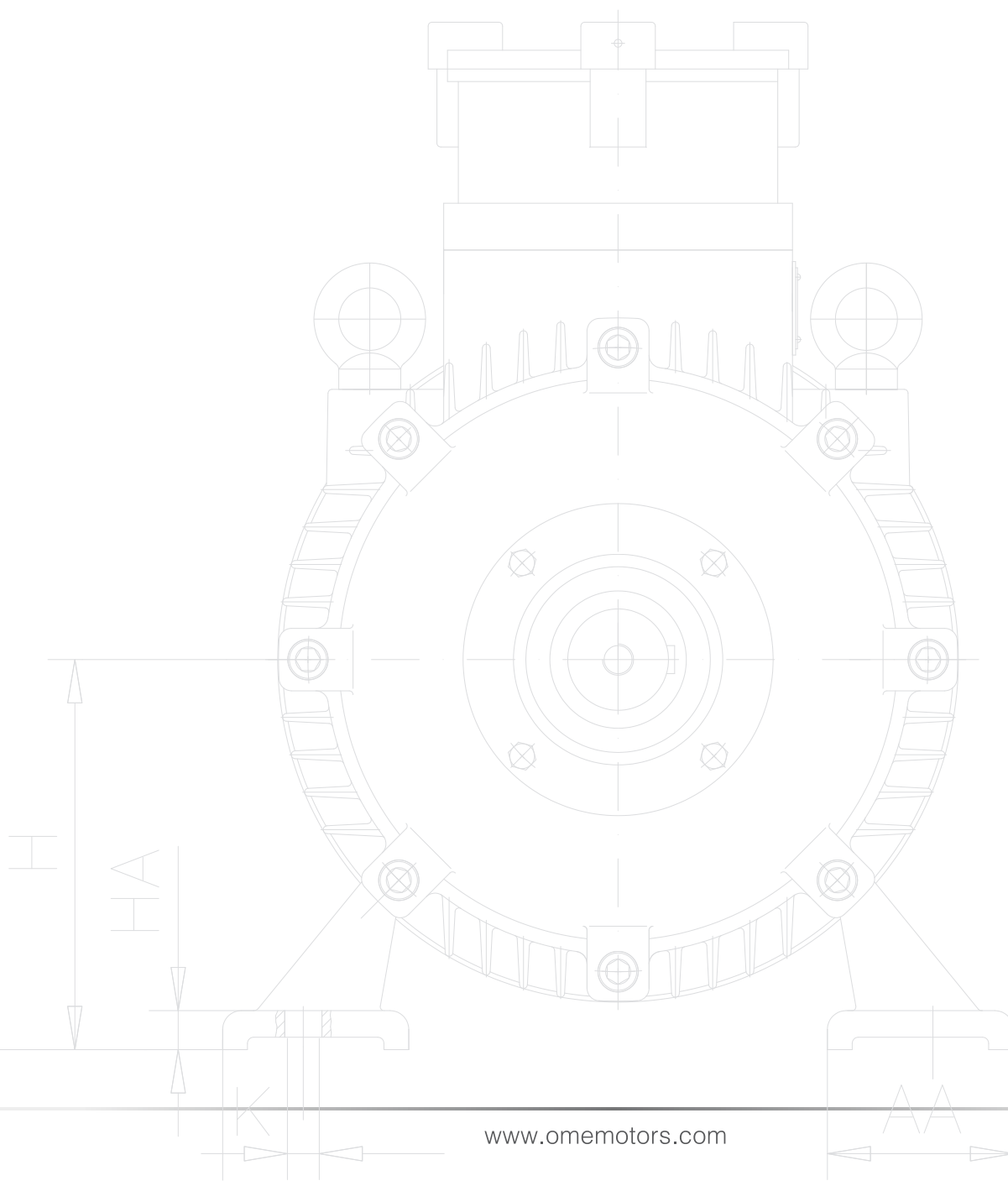
HIGH-VOLTAGE THREE-PHASE INDUCTION ELECTRIC MOTOR

[www.omemotors.com](http://www.omemotors.com)



## GENERAL INFORMATION

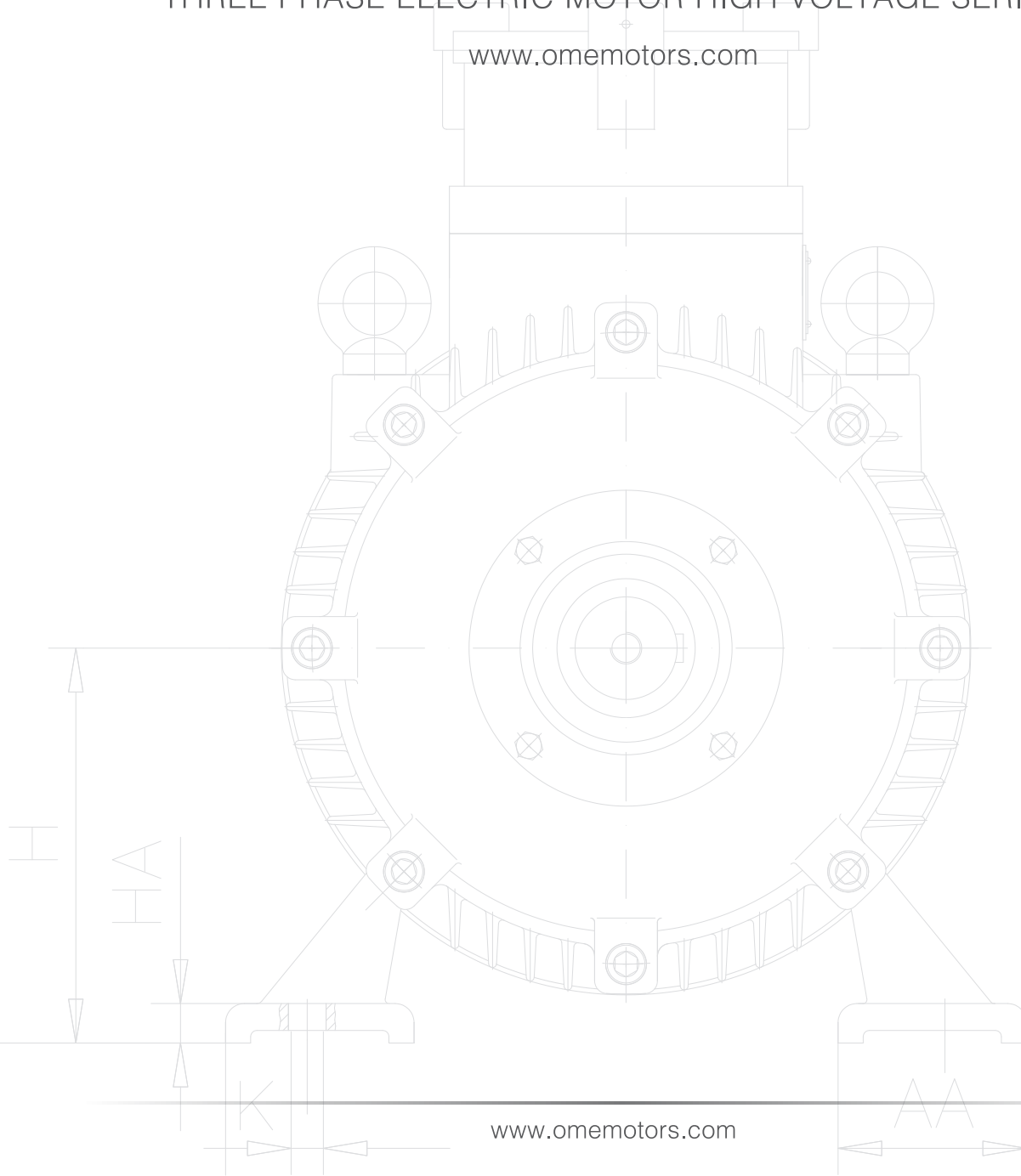
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OME MV SERIES  
THREE PHASE ELECTRIC MOTOR HIGH VOLTAGE SERIES

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## 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.



## OME MV SERIES THREE PHASE ELECTRIC MOTOR HIGH VOLTAGE SERIES

- High Voltage and Medium Voltage Motors: Maximum Efficiency, High Customization Capability.

OME Motors' medium-voltage motors and three-phase asynchronous high-voltage motors are characterized by a high build quality. What differentiates them is the modularity of the cooling system: depending on the model, in fact, high voltage motors and medium voltage motors can be IC 411-416-511-611- IC 81W. In particular the high Voltage motors equipped with the IC 611 air to air cooling system (OMVK model) are built from a steel sheet, welded to the frame, which ensures lightness and at the same time stability.

### Characteristics and Operating Conditions of High Voltage and Medium Voltage Motors.

The high voltage and medium voltage electric motors are equipped with a laminated core which, before being mounted in the frame, is compressed and protected, then pressed. These particular construction procedures guarantee the high voltage and medium voltage motors of OME Motors excellent insulating performance, greater mechanical resistance, better resistance to humidity and long life.

The cage rotor is made of aluminum and is equipped with copper bars. Furthermore, the rotor is made with a process of aluminum casting and subsequent welding, two phases necessary to guarantee maximum reliability and perfect balancing.

Depending on the power and speed of the electric motors, or based on the specifications required by the customer, roller or bushing bearings can also be used. The main terminal block is located on the right side of the electric motor but can also be placed on the left side, according to specific needs. Both the inside and the outside of the terminal box are equipped with separate terminals.

At the user's request, the stator winding and the bearings can be equipped with sensors for measuring the temperature, ensuring the operation of the motor in safety and reliability over time.

Finally, high voltage electric motors can also work with a frequency converter, thus improving cost savings throughout the life cycle of the device.

OME Motors OMVK electric motors are highly efficient three-phase electric motors that offer excellent performance and high energy savings. These are self-ventilated motors equipped with IC 611 cooling systems with air-to-air heat exchanger.

The OMVK motors designed and made to measure by OME Motors have a light and compact structure and are ideal for application in various fields of the industrial sector.

- The Advantages of High Voltage and Medium Voltage Electric Motors.

Custom designed and manufactured using the best performing and innovative materials, high voltage motors have technical features that can provide numerous advantages, such as:

- Wide possibility of customization, customizable design based on needs, availability of any construction form.
- Extreme lightness, despite its large size.
- Maximum efficiency, consistent performance and reliability over time.
- Easy assembly and maintenance.
- High flexibility of use.
- Low noise and low vibration.
- Compliance with international IEC standards.

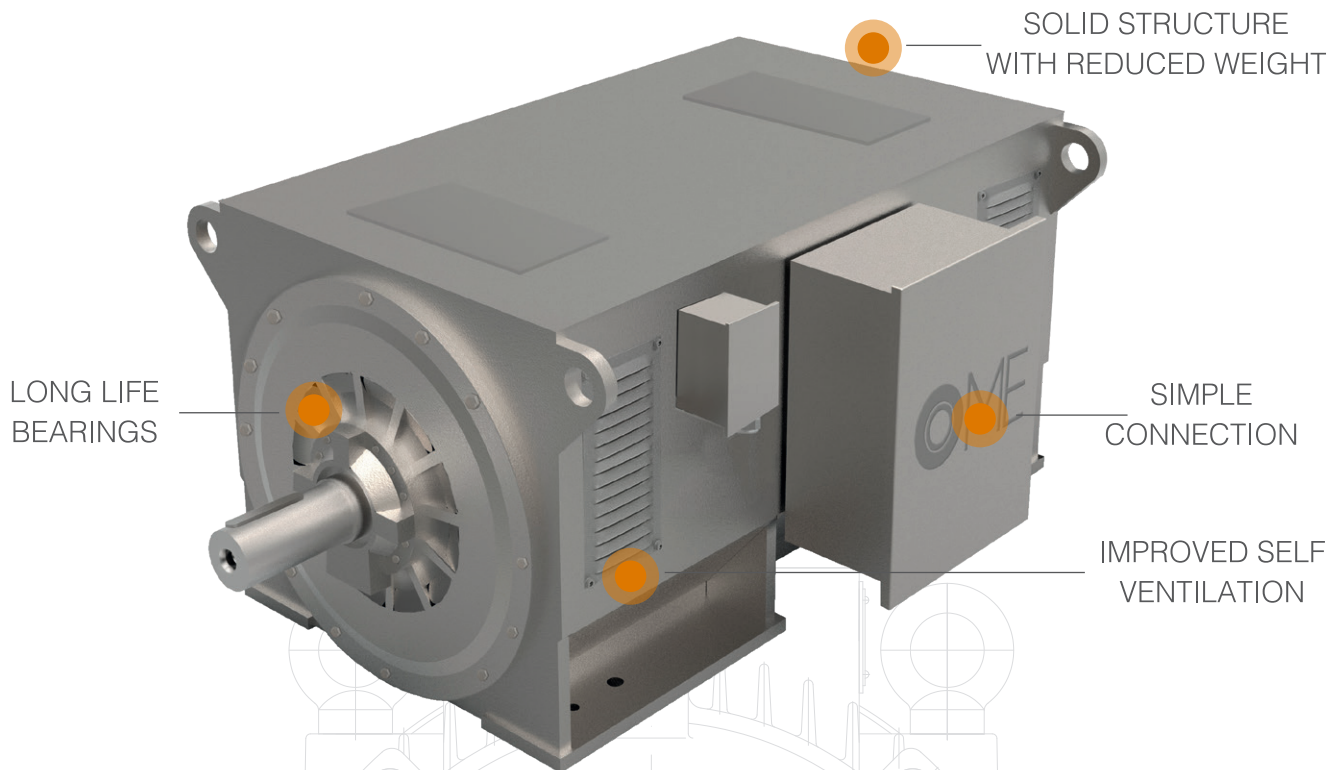
#### Areas of Usage of High Voltage and Medium Voltage Motors.

OME Motors produces medium voltage and high voltage electric motors for safe environments but also for work areas with explosive atmospheres. These devices, in fact, find application in the most disparate sectors, from cement factories to steel mills, from power plants to water purification, treatment and desalination systems, from sugar factories to wind energy generation plants. Furthermore, high voltage and medium voltage motors are ideal for the application and operation of pumps, compressors, boilers, conveyor belts, fans and blowers, mills, crushers and shredders, laminators and equipment for steel plants, turbines and general of all the machinery present in the heavy industry. Finally, these motors can be made with a squirrel cage or with a wound rotor.

OME Motors OMVK electric motors are highly efficient three-phase electric motors that offer excellent performance and high energy savings. These are self-ventilated motors equipped with IC 611 cooling systems with air-to-air heat exchanger.

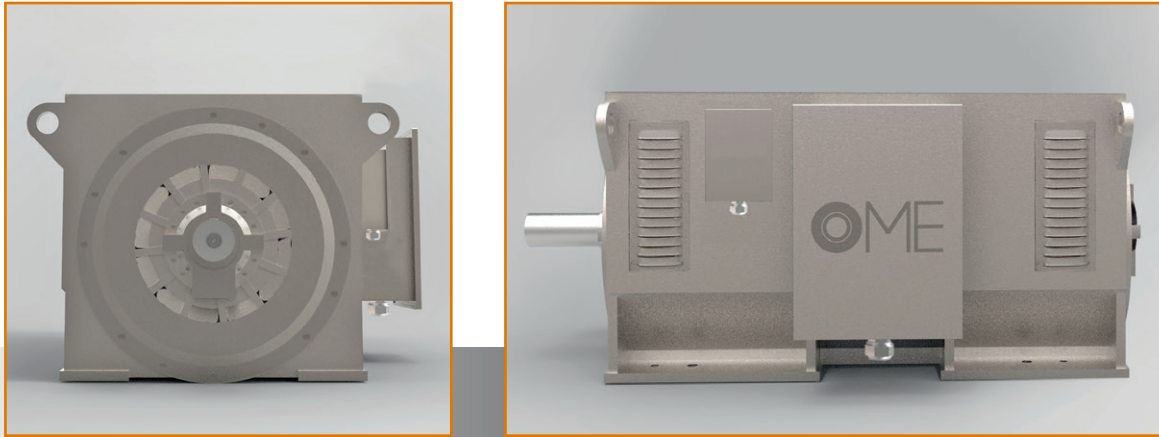
The OMVK motors designed and made to measure by OME Motors have a light and compact structure and are ideal for application in various fields of the industrial sector.

## Series OMVP IC01



High Power • Premium Efficiency

- The OMVP series motors by OME Motors are high and medium voltage three-phase electric motors equipped with IC01 IP23 cooling system, therefore, they are self-ventilated motors: the outside air enters through the holes present and goes directly to cool the active parts inside them, allowing it to cool down on its own.
- OMVP electric motors are characterized by their compact structure and their high efficiency, which makes them ideal for application in the most disparate contexts. They are also designed to guarantee an effective saving in energy consumption and thus ensure an optimization of production costs.



## Series OMVP

SERIES HIGH-VOLTAGE THREE-PHASE

INDUCTION ELECTRIC MOTOR IP23 IC01 (H355-630)

### 1. GENERAL DESCRIPTION

Series OMVP High-voltage three phase induction motor (frame size 355-630) are the newest optimized serial products produced by our company, combining the design and long manufacturing experience and steady production of high voltage motors to manufacturing technique of high voltage motors.

These series motors use new technique, material and technology of 1990s with materials chosen exquisitely and the product's excellent workmanship. The motors are engineered with many remarkable features such as high efficiency, energy saving, low noise, low vibration, light weight, reliable performance, easy mounting and maintenance etc.

These series motors conform to IEC60034:1 "Series OMVP HV High-voltage Three Phase Induction Motor Specification (frame size 355-800)" and International IEC Standard. The machining size and tolerance of all parts conform to international standards.

For these series motors, the protection degree on enclosures is IP23, cooling form in IC01, and mounting arrangement can be supplied on costumers's requirement.

These series motors can be used to drive various general-purpose machines, such as compressors, water pumps, crushers, cutting lathes, conveyors and other mechanical equipments installed in coal mine, mechanical industries, petrochemical industries and power plant etc.

## 2. EXPLANATION OF TYPE DESIGNATION



## 3. CONSTRUCTION FEATURES

This series motors adopts international fashionable box structure. Some parts such as frame and end-shields are welded with steel sheet, having the merits of lightweight and rigidity. Removing the top cover for cooling, the parts inside the motors can be observed and touched for convenience of mounting and maintenance.

Series OMVP motors are the basic series with protection degree IP23.

The terminal box has an enclosed construction with protection degree IP54 or IP55 and is generally located on the right side of the motors (viewing from DE) and also located on the left side of the motors on customer's requirement. The entry opening is downward. The earthing terminals are separately supplied both inside and outside of the box.

The stator adopts hoisting, sliding or pressing external pressure assembly constructions. Stator windings are provided with class F insulation materials, applied with vacuum-pressure impregnated (VPI) technique, equipped with magnetic slot wedge and on the ends of the stator windings the fixing and binding measures are supplied reliably. These processes enable the windings to possess excellent insulation property, high mechanical strength, high moisture-resistant ability and the motors to run safely and reliably.

The motor structure is the squirrel cage type. After high precision dynamically balancing verification, the motors can run smoothly with small vibration. The motors are equipped with a cylindrical shaft extension. Motors with two shaft extensions are also available on customer's requirement.

In accordance with the motor output and speed, two kinds of bearings can be equipped, one is rolling bearing and the other is sleeve bearing. On the rolling bearings, a greasing attachment having the use to drain or replenish the lubricating grease without stopping the motors is equipped to drain or replenish to periodically maintain the motors.

The sleeve bearings are end-shield spherical roller bearings. Force-feed lubrication of oil or ring self-lubrication so as to be adopted, meanwhile the measures of preventing shaft current are also carried out.

## 4. SERVICE CONDITIONS

Ambient air temperature: -15°C +40°C

Altitude: up to 1000m

Duty type: S1

Environmental conditions: indoor, outdoor, tropical humidity and outdoor tropical humidity

## 5. TECHNICAL DATA

### • OMVP series motors (6kV) - Table 1

| 2P       |     | Synchronous speed 3000r/min |                        |                           |                   |                                  |                                       |                                     |                                       |                                             |                |
|----------|-----|-----------------------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------------|----------------|
| TYPE     |     | Output<br>(kw)              | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Inertia<br>Moment<br>J (kg.m <sup>2</sup> ) | Weight<br>(kg) |
| OMVP 355 | 1-2 | 220                         | 26,5                   | 2967                      | 92,8              | 0,84                             | 1,8                                   | 0,6                                 | 7                                     | 22                                          | 2200           |
|          | 2-2 | 250                         | 30,1                   | 2968                      | 92,9              | 0,84                             | 1,8                                   | 0,6                                 | 7                                     | 24                                          | 2250           |
|          | 3-2 | 280                         | 33,7                   | 2970                      | 93,1              | 0,85                             | 1,8                                   | 0,6                                 | 7                                     | 26                                          | 2400           |
|          | 4-2 | 315                         | 37,7                   | 2970                      | 93,4              | 0,85                             | 1,8                                   | 0,6                                 | 7                                     | 27                                          | 2500           |
|          | 5-2 | 355                         | 42,4                   | 2973                      | 93,7              | 0,86                             | 1,8                                   | 0,6                                 | 7                                     | 27,5                                        | 2600           |
|          | 6-2 | 400                         | 47,6                   | 2973                      | 94,1              | 0,86                             | 1,8                                   | 0,6                                 | 7                                     | 28                                          | 2700           |
| OMVP 400 | 1-2 | 450                         | 53,3                   | 2975                      | 94,4              | 0,86                             | 1,8                                   | 0,6                                 | 7                                     | 32                                          | 3400           |
|          | 2-2 | 500                         | 58,5                   | 2976                      | 94,6              | 0,87                             | 1,8                                   | 0,6                                 | 7                                     | 33                                          | 3500           |
|          | 3-2 | 560                         | 65,4                   | 2977                      | 94,7              | 0,87                             | 1,8                                   | 0,6                                 | 7                                     | 34                                          | 3600           |
|          | 4-2 | 630                         | 73,4                   | 2978                      | 94,9              | 0,87                             | 1,8                                   | 0,6                                 | 7                                     | 35                                          | 3700           |
| OMVP 450 | 1-2 | 710                         | 82,7                   | 2977                      | 95                | 0,87                             | 1,8                                   | 0,6                                 | 7                                     | 42                                          | 4100           |
|          | 2-2 | 800                         | 92,9                   | 2976                      | 95,2              | 0,87                             | 1,8                                   | 0,6                                 | 7                                     | 44                                          | 4200           |
|          | 3-2 | 900                         | 104,5                  | 2974                      | 95,3              | 0,87                             | 1,8                                   | 0,6                                 | 7                                     | 46                                          | 4300           |
|          | 4-2 | 1000                        | 114,6                  | 2977                      | 95,4              | 0,88                             | 1,8                                   | 0,6                                 | 7                                     | 48                                          | 4400           |
| OMVP 500 | 1-2 | 1120                        | 128,2                  | 2980                      | 95,5              | 0,88                             | 1,8                                   | 0,6                                 | 7                                     | 90                                          | 5900           |
|          | 2-2 | 1250                        | 142,9                  | 2980                      | 95,6              | 0,88                             | 1,8                                   | 0,6                                 | 7                                     | 100                                         | 6100           |
|          | 3-2 | 1400                        | 159,9                  | 2980                      | 95,7              | 0,88                             | 1,8                                   | 0,6                                 | 7                                     | 101                                         | 6300           |
|          | 4-2 | 1600                        | 182,6                  | 2979                      | 95,8              | 0,88                             | 1,8                                   | 0,6                                 | 7                                     | 102                                         | 6700           |
| OMVP 560 | 1-2 | 1800                        | 205,2                  | 2980                      | 95,9              | 0,88                             | 1,8                                   | 0,6                                 | 7                                     | 106                                         | 8500           |
|          | 2-2 | 2000                        | 227,8                  | 2982                      | 96                | 0,88                             | 1,8                                   | 0,6                                 | 7                                     | 107                                         | 8700           |
|          | 3-2 | 2240                        | 254,8                  | 2981                      | 96,1              | 0,88                             | 1,8                                   | 0,6                                 | 7                                     | 108                                         | 9000           |
| OMVP 630 | 1-2 | 2500                        | 280,9                  | 2982                      | 96,2              | 0,89                             | 1,8                                   | 0,6                                 | 7                                     | 118                                         | 9900           |
|          | 2-2 | 2800                        | 314,4                  | 2982                      | 96,3              | 0,89                             | 1,8                                   | 0,6                                 | 7                                     | 123                                         | 10300          |
|          | 3-2 | 3150                        | 353,7                  | 2983                      | 96,3              | 0,89                             | 1,8                                   | 0,6                                 | 7                                     | 130                                         | 10800          |

**4P** Synchronous speed 1500r/min

| TYPE     |     | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Inertia<br>Moment<br>J (kg.m <sup>2</sup> ) | Weight<br>(kg) |
|----------|-----|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------------|----------------|
| OMVP 355 | 1-4 | 185            | 22,5                   | 1480                      | 93,1              | 0,84                             | 1,8                                   | 0,8                                 | 6,5                                   | 56                                          | 2050           |
|          | 2-4 | 200            | 24,3                   | 1480                      | 93,2              | 0,84                             | 1,8                                   | 0,8                                 | 6,5                                   | 68                                          | 2080           |
|          | 3-4 | 220            | 26,7                   | 1480                      | 93,3              | 0,85                             | 1,8                                   | 0,8                                 | 6,5                                   | 28                                          | 2100           |
|          | 4-4 | 250            | 30,3                   | 1480                      | 93,4              | 0,85                             | 1,8                                   | 0,8                                 | 6,5                                   | 88                                          | 2200           |
|          | 5-4 | 280            | 33,5                   | 1480                      | 93,5              | 0,86                             | 1,8                                   | 0,8                                 | 6,5                                   | 97                                          | 2300           |
|          | 6-4 | 315            | 37,7                   | 1480                      | 93,6              | 0,86                             | 1,8                                   | 0,8                                 | 6,5                                   | 108                                         | 2400           |
| OMVP 400 | 1-4 | 355            | 42,3                   | 1482                      | 93,8              | 0,86                             | 1,8                                   | 0,8                                 | 6,5                                   | 120                                         | 2800           |
|          | 2-4 | 400            | 47,6                   | 1482                      | 94                | 0,86                             | 1,8                                   | 0,8                                 | 6,5                                   | 133                                         | 2900           |
|          | 3-4 | 450            | 53,5                   | 1482                      | 94,2              | 0,86                             | 1,8                                   | 0,8                                 | 6,5                                   | 147                                         | 3000           |
|          | 4-4 | 600            | 58,6                   | 1482                      | 94,3              | 0,87                             | 1,8                                   | 0,8                                 | 6,5                                   | 161                                         | 3200           |
|          | 5-4 | 560            | 65,5                   | 1482                      | 94,5              | 0,87                             | 1,8                                   | 0,8                                 | 6,5                                   | 178                                         | 3400           |
| OMVP 450 | 1-4 | 630            | 73,5                   | 1482                      | 94,8              | 0,87                             | 1,8                                   | 0,8                                 | 6,5                                   | 197                                         | 3700           |
|          | 2-4 | 710            | 83,6                   | 1482                      | 95                | 0,87                             | 1,8                                   | 0,8                                 | 6,5                                   | 218                                         | 3800           |
|          | 3-4 | 800            | 93                     | 1482                      | 95,1              | 0,87                             | 1,8                                   | 0,8                                 | 6,5                                   | 241                                         | 4000           |
|          | 4-4 | 900            | 104,6                  | 1482                      | 95,2              | 0,87                             | 1,8                                   | 0,8                                 | 6,5                                   | 266                                         | 4200           |
| OMVP 500 | 1-4 | 1000           | 116                    | 1482                      | 95,3              | 0,88                             | 1,8                                   | 0,7                                 | 6,5                                   | 290                                         | 5200           |
|          | 2-4 | 1120           | 128,5                  | 1488                      | 95,4              | 0,88                             | 1,8                                   | 0,7                                 | 6,5                                   | 318                                         | 5400           |
|          | 3-4 | 1250           | 143                    | 1488                      | 95,5              | 0,88                             | 1,8                                   | 0,7                                 | 6,5                                   | 347                                         | 5700           |
|          | 4-4 | 1400           | 160                    | 1488                      | 95,6              | 0,88                             | 1,8                                   | 0,7                                 | 6,5                                   | 380                                         | 6000           |
| OMVP 560 | 1-4 | 1600           | 182,8                  | 1488                      | 95,7              | 0,89                             | 1,8                                   | 0,6                                 | 6,5                                   | 420                                         | 8000           |
|          | 2-4 | 1800           | 205,5                  | 1487                      | 95,8              | 0,89                             | 1,8                                   | 0,6                                 | 6,5                                   | 460                                         | 8300           |
|          | 3-4 | 2000           | 228                    | 1488                      | 95,9              | 0,89                             | 1,8                                   | 0,6                                 | 6,5                                   | 498                                         | 8700           |
| OMVP 630 | 1-4 | 2240           | 255,1                  | 1487                      | 96                | 0,89                             | 1,8                                   | 0,6                                 | 6,5                                   | 540                                         | 10600          |
|          | 2-4 | 2500           | 281,3                  | 1488                      | 96,1              | 0,89                             | 1,8                                   | 0,6                                 | 6,5                                   | 584                                         | 10900          |
|          | 3-4 | 2800           | 314,7                  | 1488                      | 96,2              | 0,89                             | 1,8                                   | 0,6                                 | 6,5                                   | 631                                         | 11200          |

**6P** Synchronous speed 1000r/min

| TYPE     |     | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Inertia<br>Moment<br>J (kg.m <sup>2</sup> ) | Weight<br>(kg) |
|----------|-----|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------------|----------------|
| OMVP 355 | 3-6 | 185            | 23,8                   | 988                       | 92,6              | 92,6                             | 1,8                                   | 0,8                                 | 6                                     | 160                                         | 2200           |
|          | 4-6 | 200            | 25,7                   | 988                       | 92,8              | 92,8                             | 1,8                                   | 0,8                                 | 6                                     | 190                                         | 2300           |
|          | 5-6 | 220            | 27,8                   | 988                       | 92,9              | 92,9                             | 1,8                                   | 0,8                                 | 6                                     | 210                                         | 2400           |
|          | 6-6 | 250            | 31,4                   | 988                       | 93,3              | 93,3                             | 1,8                                   | 0,8                                 | 6                                     | 236                                         | 2500           |
| OMVP 400 | 2-6 | 280            | 34,7                   | 988                       | 93,5              | 93,5                             | 1,8                                   | 0,8                                 | 6                                     | 262                                         | 2800           |
|          | 3-6 | 315            | 39                     | 988                       | 93,7              | 93,7                             | 1,8                                   | 0,8                                 | 6                                     | 291                                         | 2900           |
|          | 4-6 | 355            | 43,8                   | 988                       | 93,9              | 93,9                             | 1,8                                   | 0,8                                 | 6                                     | 324                                         | 3100           |
|          | 5-6 | 400            | 49,3                   | 988                       | 94                | 94                               | 1,8                                   | 0,8                                 | 6                                     | 361                                         | 3300           |
| OMVP 450 | 1-6 | 450            | 54,7                   | 988                       | 94,3              | 94,3                             | 1,8                                   | 0,8                                 | 6                                     | 401                                         | 3800           |
|          | 2-6 | 500            | 59,9                   | 988                       | 94,5              | 94,5                             | 1,8                                   | 0,8                                 | 6                                     | 440                                         | 4000           |
|          | 3-6 | 560            | 66,9                   | 988                       | 94,7              | 94,7                             | 1,8                                   | 0,8                                 | 6                                     | 487                                         | 4200           |
|          | 4-6 | 630            | 75,2                   | 988                       | 97,8              | 97,8                             | 1,8                                   | 0,8                                 | 6                                     | 540                                         | 4400           |
| OMVP 500 | 1-6 | 710            | 84,6                   | 990                       | 95                | 95                               | 1,8                                   | 0,7                                 | 6                                     | 599                                         | 4800           |
|          | 2-6 | 800            | 95,2                   | 990                       | 95,1              | 95,1                             | 1,8                                   | 0,7                                 | 6                                     | 665                                         | 5000           |
|          | 3-6 | 900            | 107                    | 990                       | 95,2              | 95,2                             | 1,8                                   | 0,7                                 | 6                                     | 736                                         | 5400           |
|          | 4-6 | 1000           | 118,8                  | 990                       | 95,3              | 95,3                             | 1,8                                   | 0,7                                 | 6                                     | 805                                         | 5800           |
| OMVP 560 | 1-6 | 1120           | 131,4                  | 990                       | 95,4              | 95,4                             | 1,8                                   | 0,7                                 | 6,5                                   | 886                                         | 9100           |
|          | 2-6 | 1250           | 146,5                  | 990                       | 95,5              | 95,5                             | 1,8                                   | 0,7                                 | 6,5                                   | 972                                         | 9300           |
|          | 3-6 | 1400           | 163,9                  | 990                       | 95,6              | 95,6                             | 1,8                                   | 0,7                                 | 6,5                                   | 1068                                        | 9600           |
| OMVP 630 | 1-6 | 1600           | 187,1                  | 991                       | 95,7              | 95,7                             | 1,8                                   | 0,7                                 | 6,5                                   | 1192                                        | 9800           |
|          | 2-6 | 1800           | 210,2                  | 991                       | 95,8              | 95,8                             | 1,8                                   | 0,7                                 | 6,5                                   | 1312                                        | 10500          |
|          | 3-6 | 2000           | 233,3                  | 991                       | 95,9              | 95,9                             | 1,8                                   | 0,7                                 | 6,5                                   | 1428                                        | 11000          |

**8P** Synchronous speed 750r/min

| TYPE     |     | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Inertia<br>Moment<br>J (kg.m <sup>2</sup> ) | Weight<br>(kg) |
|----------|-----|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------------|----------------|
| OMVP 400 | 1-8 | 185            | 25,2                   | 741                       | 92,6              | 0,77                             | 1,8                                   | 0,8                                 | 5,5                                   | 383                                         | 3080           |
|          | 2-8 | 200            | 26,7                   | 741                       | 92,8              | 0,78                             | 1,8                                   | 0,8                                 | 5,5                                   | 401                                         | 3150           |
|          | 3-8 | 220            | 29,2                   | 741                       | 92,9              | 0,78                             | 1,8                                   | 0,8                                 | 5,5                                   | 424                                         | 3100           |
|          | 4-8 | 250            | 32,7                   | 741                       | 93                | 0,79                             | 1,8                                   | 0,8                                 | 5,5                                   | 477                                         | 3200           |
|          | 5-8 | 280            | 36,6                   | 741                       | 93,2              | 0,79                             | 1,8                                   | 0,8                                 | 5,5                                   | 529                                         | 3400           |
| OMVP 450 | 1-8 | 315            | 40,6                   | 741                       | 93,4              | 0,8                              | 1,8                                   | 0,8                                 | 5,5                                   | 588                                         | 4100           |
|          | 2-8 | 355            | 45,7                   | 743                       | 93,5              | 0,8                              | 1,8                                   | 0,8                                 | 5,5                                   | 656                                         | 4300           |
|          | 3-8 | 400            | 51,3                   | 743                       | 93,7              | 0,8                              | 1,8                                   | 0,8                                 | 5,5                                   | 731                                         | 4500           |
|          | 4-8 | 450            | 57,7                   | 743                       | 93,8              | 0,81                             | 1,8                                   | 0,8                                 | 5,5                                   | 813                                         | 4800           |
| OMVP 500 | 1-8 | 500            | 63                     | 743                       | 94,3              | 0,81                             | 1,8                                   | 0,8                                 | 5,5                                   | 894                                         | 5000           |
|          | 2-8 | 560            | 69,6                   | 742                       | 94,4              | 0,82                             | 1,8                                   | 0,8                                 | 5,5                                   | 988                                         | 5200           |
|          | 3-8 | 630            | 78,2                   | 742                       | 94,5              | 0,82                             | 1,8                                   | 0,8                                 | 5,5                                   | 1098                                        | 5400           |
|          | 4-8 | 710            | 88                     | 742                       | 94,6              | 0,82                             | 1,8                                   | 0,8                                 | 5,5                                   | 1222                                        | 5600           |
| OMVP 560 | 1-8 | 800            | 96,8                   | 743                       | 94,7              | 0,84                             | 1,8                                   | 0,7                                 | 6                                     | 1357                                        | 8700           |
|          | 2-8 | 900            | 109,8                  | 743                       | 94,8              | 0,84                             | 1,8                                   | 0,7                                 | 6                                     | 1505                                        | 8900           |
|          | 3-8 | 1000           | 120,7                  | 743                       | 94,9              | 0,84                             | 1,8                                   | 0,7                                 | 6                                     | 1650                                        | 9100           |
| OMVP 630 | 1-8 | 1120           | 135,1                  | 744                       | 95                | 0,84                             | 1,8                                   | 0,7                                 | 6                                     | 2870                                        | 10000          |
|          | 2-8 | 1250           | 150,6                  | 744                       | 95,1              | 0,84                             | 1,8                                   | 0,7                                 | 6                                     | 3170                                        | 10500          |
|          | 3-8 | 1400           | 168,5                  | 744                       | 95,2              | 0,84                             | 1,8                                   | 0,7                                 | 6                                     | 3489                                        | 11000          |
|          | 4-8 | 1600           | 192,3                  | 744                       | 95,3              | 0,84                             | 1,8                                   | 0,7                                 | 6                                     | 3850                                        | 11500          |

**10P**

Synchronous speed 600r/min

| TYPE     |      | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Inertia<br>Moment<br>J (kg.m <sup>2</sup> ) | Weight<br>(kg) |
|----------|------|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------------|----------------|
| OMVP 400 | 4-10 | 185            | 25,4                   | 594                       | 91,7              | 0,75                             | 1,8                                   | 0,8                                 | 5,5                                   | 529                                         | 3300           |
|          | 5-10 | 200            | 26,9                   | 594                       | 91,9              | 0,75                             | 1,8                                   | 0,8                                 | 5,5                                   | 551                                         | 3460           |
| OMVP 450 | 1-10 | 220            | 29,9                   | 594                       | 92,1              | 0,77                             | 1,8                                   | 0,8                                 | 5,5                                   | 729                                         | 3700           |
|          | 2-10 | 250            | 33,4                   | 594                       | 92,3              | 0,78                             | 1,8                                   | 0,8                                 | 5,5                                   | 820                                         | 3900           |
|          | 3-10 | 280            | 37,3                   | 594                       | 92,5              | 0,78                             | 1,8                                   | 0,8                                 | 5,5                                   | 910                                         | 4100           |
|          | 4-10 | 315            | 41,4                   | 594                       | 92,6              | 0,79                             | 1,8                                   | 0,8                                 | 5,5                                   | 1014                                        | 4300           |
|          | 5-10 | 355            | 46,6                   | 594                       | 92,8              | 0,79                             | 1,8                                   | 0,8                                 | 5,5                                   | 1131                                        | 4500           |
| OMVP 500 | 1-10 | 400            | 51,6                   | 594                       | 93,3              | 0,8                              | 1,8                                   | 0,8                                 | 5,5                                   | 1261                                        | 4900           |
|          | 2-10 | 450            | 58                     | 594                       | 93,4              | 0,8                              | 1,8                                   | 0,8                                 | 5,5                                   | 1404                                        | 5100           |
|          | 3-10 | 500            | 64,3                   | 594                       | 93,6              | 0,8                              | 1,8                                   | 0,8                                 | 5,5                                   | 1544                                        | 5300           |
|          | 4-10 | 560            | 71,9                   | 594                       | 93,7              | 0,8                              | 1,8                                   | 0,8                                 | 5,5                                   | 1711                                        | 5500           |
|          | 5-10 | 630            | 80,8                   | 594                       | 93,8              | 0,8                              | 1,8                                   | 0,8                                 | 5,5                                   | 2191                                        | 5700           |
| OMVP 560 | 1-10 | 710            | 88,6                   | 593                       | 94                | 0,82                             | 1,8                                   | 0,7                                 | 6                                     | 2116                                        | 8600           |
|          | 2-10 | 800            | 99,7                   | 593                       | 94,2              | 0,82                             | 1,8                                   | 0,7                                 | 6                                     | 2355                                        | 8800           |
|          | 3-10 | 900            | 112                    | 593                       | 94,3              | 0,82                             | 1,8                                   | 0,7                                 | 6                                     | 2615                                        | 9000           |
| OMVP 630 | 1-10 | 1000           | 124,3                  | 594                       | 94,4              | 0,82                             | 1,8                                   | 0,7                                 | 6                                     | 2870                                        | 9800           |
|          | 2-10 | 1120           | 138,9                  | 594                       | 94,6              | 0,82                             | 1,8                                   | 0,7                                 | 6                                     | 3170                                        | 10300          |
|          | 3-10 | 1250           | 154,7                  | 594                       | 94,8              | 0,82                             | 1,8                                   | 0,7                                 | 6                                     | 3489                                        | 10800          |
|          | 4-10 | 1400           | 173,1                  | 594                       | 94,9              | 0,82                             | 1,8                                   | 0,7                                 | 6                                     | 3850                                        | 11300          |

**12P**

Synchronous speed 500r/min

| TYPE     |      | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Inertia<br>Moment<br>J (kg.m <sup>2</sup> ) | Weight<br>(kg) |
|----------|------|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------------|----------------|
| OMVP 450 | 2-12 | 185            | 26,1                   | 494                       | 90,9              | 0,72                             | 1,8                                   | 0,8                                 | 5,5                                   | 997                                         | 3950           |
|          | 3-12 | 200            | 28,2                   | 494                       | 91,1              | 0,72                             | 1,8                                   | 0,8                                 | 5,5                                   | 1078                                        | 4100           |
|          | 4-12 | 220            | 31,7                   | 494                       | 91,4              | 0,73                             | 1,8                                   | 0,8                                 | 5,5                                   | 1135                                        | 4300           |
|          | 5-12 | 250            | 35,9                   | 494                       | 91,7              | 0,73                             | 1,8                                   | 0,8                                 | 5,5                                   | 1277                                        | 4500           |
| OMVP 500 | 1-12 | 280            | 39,3                   | 494                       | 92,7              | 0,74                             | 1,8                                   | 0,8                                 | 5,5                                   | 1418                                        | 5100           |
|          | 2-12 | 315            | 43,6                   | 494                       | 92,8              | 0,75                             | 1,8                                   | 0,8                                 | 5,5                                   | 1580                                        | 5300           |
|          | 3-12 | 355            | 49                     | 494                       | 93                | 0,75                             | 1,8                                   | 0,8                                 | 5,5                                   | 1764                                        | 5500           |
|          | 4-12 | 400            | 55                     | 494                       | 93,3              | 0,75                             | 1,8                                   | 0,8                                 | 5,5                                   | 1967                                        | 5700           |
|          | 5-12 | 450            | 61,8                   | 494                       | 93,4              | 0,75                             | 1,8                                   | 0,8                                 | 5,5                                   | 2156                                        | 5900           |
| OMVP 560 | 1-12 | 500            | 65                     | 495                       | 93,7              | 0,79                             | 1,8                                   | 0,7                                 | 6                                     | 2411                                        | 8700           |
|          | 2-12 | 560            | 72,7                   | 495                       | 93,8              | 0,79                             | 1,8                                   | 0,7                                 | 6                                     | 2673                                        | 8900           |
|          | 3-12 | 630            | 81,7                   | 495                       | 93,9              | 0,79                             | 1,8                                   | 0,7                                 | 6                                     | 2974                                        | 9100           |
| OMVP 630 | 1-12 | 710            | 92                     | 495                       | 94                | 0,79                             | 1,8                                   | 0,7                                 | 6                                     | 3312                                        | 1000           |
|          | 2-12 | 800            | 103,5                  | 495                       | 94,2              | 0,79                             | 1,8                                   | 0,7                                 | 6                                     | 3688                                        | 10500          |
|          | 3-12 | 900            | 116,3                  | 495                       | 94,3              | 0,79                             | 1,8                                   | 0,7                                 | 6                                     | 4098                                        | 11000          |
|          | 4-12 | 1000           | 129                    | 495                       | 94,4              | 0,79                             | 1,8                                   | 0,7                                 | 6                                     | 4502                                        | 11500          |

• OMVP series motors (10kV) - Table 2

| 2P       |      | Synchronous speed 3000r/min |                        |                           |                   |                                  |                                       |                                     |                                       |                                             |                |
|----------|------|-----------------------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------------|----------------|
| TYPE     |      | Output<br>(kw)              | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Inertia<br>Moment<br>J (kg.m <sup>2</sup> ) | Weight<br>(kg) |
| OMVP 400 | 1-2  | 220                         | 16                     | 2975                      | 92,2              | 0,86                             | 1,8                                   | 0,6                                 | 7                                     | 28,8                                        | 2300           |
|          | 2-2  | 250                         | 18,1                   | 2975                      | 92,8              | 0,86                             | 1,8                                   | 0,6                                 | 7                                     | 29,6                                        | 2480           |
|          | 3-2  | 280                         | 20,1                   | 2975                      | 93,3              | 0,86                             | 1,8                                   | 0,6                                 | 7                                     | 30,1                                        | 2500           |
|          | 4-2  | 315                         | 22,6                   | 2975                      | 93,5              | 0,86                             | 1,8                                   | 0,6                                 | 7                                     | 31,5                                        | 2500           |
| OMVP 450 | 2-2  | 250                         | 18,2                   | 2978                      | 92,3              | 0,86                             | 1,8                                   | 0,6                                 | 7                                     | 31,1                                        | 3700           |
|          | 3-2  | 280                         | 20,2                   | 2978                      | 93                | 0,86                             | 1,8                                   | 0,6                                 | 7                                     | 31,8                                        | 3850           |
|          | 4-2  | 315                         | 22,65                  | 2978                      | 93,4              | 0,87                             | 1,8                                   | 0,6                                 | 7                                     | 32,5                                        | 3900           |
|          | 5-2  | 355                         | 25,1                   | 2978                      | 93,8              | 0,87                             | 1,8                                   | 0,6                                 | 7                                     | 34,3                                        | 4000           |
|          | 6-2  | 400                         | 28,2                   | 2978                      | 94,1              | 0,87                             | 1,8                                   | 0,6                                 | 7                                     | 35,1                                        | 4100           |
|          | 7-2  | 450                         | 32                     | 2978                      | 94,3              | 0,87                             | 1,8                                   | 0,6                                 | 7                                     | 37,2                                        | 4200           |
|          | 8-2  | 500                         | 32,15                  | 2978                      | 94,4              | 0,87                             | 1,8                                   | 0,6                                 | 7                                     | 41,2                                        | 4300           |
|          | 9-2  | 560                         | 39,4                   | 2978                      | 94,5              | 0,87                             | 1,8                                   | 0,6                                 | 7                                     | 45,2                                        | 4400           |
|          | 10-2 | 630                         | 44,2                   | 2978                      | 94,6              | 0,87                             | 1,8                                   | 0,6                                 | 7                                     | 50,1                                        | 4600           |
| OMVP 500 | 1-2  | 710                         | 49,2                   | 2985                      | 94,7              | 0,88                             | 1,8                                   | 0,6                                 | 7                                     | 50,1                                        | 6100           |
|          | 2-2  | 800                         | 55,3                   | 2985                      | 94,8              | 0,88                             | 1,8                                   | 0,6                                 | 7                                     | 68,8                                        | 6200           |
|          | 3-2  | 900                         | 62,2                   | 2985                      | 94,9              | 0,88                             | 1,8                                   | 0,6                                 | 7                                     | 75,5                                        | 6500           |
|          | 4-2  | 1000                        | 69,1                   | 2985                      | 95                | 0,88                             | 1,8                                   | 0,6                                 | 7                                     | 78,4                                        | 6600           |
|          | 5-2  | 1120                        | 77,2                   | 2985                      | 95,2              | 0,88                             | 1,8                                   | 0,6                                 | 7                                     | 90                                          | 6900           |
| OMVP 560 | 1-2  | 1250                        | 85                     | 2984                      | 95,4              | 0,89                             | 1,8                                   | 0,6                                 | 7                                     | 98                                          | 8500           |
|          | 2-2  | 1400                        | 95,1                   | 2984                      | 95,5              | 0,89                             | 1,8                                   | 0,6                                 | 7                                     | 99                                          | 8700           |
|          | 3-2  | 1600                        | 108,6                  | 2984                      | 95,6              | 0,89                             | 1,8                                   | 0,6                                 | 7                                     | 100                                         | 9000           |
| OMVP 630 | 1-2  | 1800                        | 120,6                  | 2984                      | 95,7              | 0,9                              | 1,8                                   | 0,6                                 | 7                                     | 460                                         | 9900           |
|          | 2-2  | 2000                        | 133,9                  | 2984                      | 95,8              | 0,9                              | 1,8                                   | 0,6                                 | 7                                     | 498                                         | 10300          |
|          | 3-2  | 2240                        | 149,7                  | 2984                      | 96                | 0,9                              | 1,8                                   | 0,6                                 | 7                                     | 540                                         | 10800          |
|          |      |                             |                        |                           |                   |                                  |                                       |                                     |                                       |                                             |                |

**4P** Synchronous speed 1500r/min

| TYPE     |      | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Inertia<br>Moment<br>J (kg.m <sup>2</sup> ) | Weight<br>(kg) |
|----------|------|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------------|----------------|
| OMVP 400 | 1-4  | 220            | 16,3                   | 1485                      | 92,8              | 0,84                             | 1,8                                   | 0,7                                 | 7                                     | 68                                          | 2550           |
|          | 2-4  | 250            | 18,5                   | 1485                      | 93,1              | 0,84                             | 1,8                                   | 0,7                                 | 7                                     | 88                                          | 2680           |
|          | 3-4  | 280            | 20,4                   | 1485                      | 93,2              | 0,85                             | 1,8                                   | 0,7                                 | 7                                     | 97                                          | 2750           |
|          | 4-4  | 315            | 22,8                   | 1485                      | 93,7              | 0,85                             | 1,8                                   | 0,7                                 | 7                                     | 108                                         | 2800           |
| OMVP 450 | 1-4  | 220            | 16,3                   | 1485                      | 92,5              | 0,85                             | 1,8                                   | 0,7                                 | 7                                     | 78                                          | 3800           |
|          | 2-4  | 250            | 18,4                   | 1485                      | 92,7              | 0,85                             | 1,8                                   | 0,7                                 | 7                                     | 87                                          | 3900           |
|          | 3-4  | 280            | 20,6                   | 1485                      | 92,9              | 0,85                             | 1,8                                   | 0,7                                 | 7                                     | 97                                          | 4000           |
|          | 4-4  | 315            | 23,2                   | 1485                      | 93,1              | 0,85                             | 1,8                                   | 0,7                                 | 7                                     | 107                                         | 4100           |
|          | 5-4  | 355            | 25,6                   | 1485                      | 93,3              | 0,86                             | 1,8                                   | 0,7                                 | 7                                     | 119                                         | 4200           |
|          | 6-4  | 400            | 28,8                   | 1485                      | 93,5              | 0,86                             | 1,8                                   | 0,7                                 | 7                                     | 132                                         | 4300           |
|          | 7-4  | 450            | 32,2                   | 1485                      | 93,9              | 0,86                             | 1,8                                   | 0,7                                 | 7                                     | 147                                         | 4400           |
|          | 8-4  | 500            | 35,7                   | 1485                      | 94                | 0,86                             | 1,8                                   | 0,7                                 | 7                                     | 161                                         | 4500           |
|          | 9-4  | 560            | 40                     | 1485                      | 94,2              | 0,86                             | 1,8                                   | 0,7                                 | 7                                     | 178                                         | 4600           |
|          | 10-4 | 630            | 44,8                   | 1485                      | 94,4              | 0,86                             | 1,8                                   | 0,7                                 | 7                                     | 196                                         | 4800           |
| OMVP 500 | 1-4  | 710            | 49,6                   | 1488                      | 95                | 0,87                             | 1,8                                   | 0,7                                 | 7                                     | 217                                         | 5400           |
|          | 2-4  | 800            | 55,9                   | 1488                      | 95,1              | 0,87                             | 1,8                                   | 0,7                                 | 7                                     | 240                                         | 5500           |
|          | 3-4  | 900            | 62,1                   | 1488                      | 95,2              | 0,88                             | 1,8                                   | 0,7                                 | 7                                     | 265                                         | 5600           |
|          | 4-4  | 1000           | 69,8                   | 1488                      | 95,3              | 0,88                             | 1,8                                   | 0,7                                 | 7                                     | 289                                         | 5700           |
|          | 5-4  | 1120           | 77,1                   | 1488                      | 95,4              | 0,88                             | 1,8                                   | 0,7                                 | 7                                     | 317                                         | 5900           |
| OMVP 560 | 1-4  | 1250           | 84,9                   | 1488                      | 95,5              | 0,89                             | 1,8                                   | 0,7                                 | 7                                     | 347                                         | 8000           |
|          | 2-4  | 1400           | 94,9                   | 1488                      | 95,7              | 0,89                             | 1,8                                   | 0,7                                 | 7                                     | 379                                         | 8300           |
|          | 3-4  | 1600           | 108,3                  | 1488                      | 95,8              | 0,89                             | 1,8                                   | 0,7                                 | 7                                     | 421                                         | 8700           |
| OMVP 630 | 1-4  | 1800           | 121,8                  | 1488                      | 95,9              | 0,89                             | 1,8                                   | 0,6                                 | 7                                     | 460                                         | 10600          |
|          | 2-4  | 2000           | 135,2                  | 1488                      | 96                | 0,89                             | 1,8                                   | 0,6                                 | 7                                     | 498                                         | 10900          |
|          | 3-4  | 2240           | 151,2                  | 1488                      | 96,1              | 0,89                             | 1,8                                   | 0,6                                 | 7                                     | 540                                         | 11900          |

**6P** Synchronous speed 1000r/min

| TYPE     |      | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Inertia<br>Moment<br>J (kg.m <sup>2</sup> ) | Weight<br>(kg) |
|----------|------|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------------|----------------|
| OMVP 450 | 3-6  | 200            | 15,7                   | 990                       | 91                | 0,81                             | 1,8                                   | 0,7                                 | 6                                     | 195                                         | 3850           |
|          | 4-6  | 220            | 17                     | 990                       | 92,2              | 0,82                             | 1,8                                   | 0,7                                 | 6                                     | 210                                         | 3900           |
|          | 5-6  | 250            | 19,3                   | 990                       | 92,4              | 0,82                             | 1,8                                   | 0,7                                 | 6                                     | 236                                         | 4000           |
|          | 6-6  | 280            | 21,4                   | 990                       | 92,6              | 0,82                             | 1,8                                   | 0,7                                 | 6                                     | 261                                         | 4100           |
|          | 7-6  | 315            | 23,6                   | 990                       | 92,8              | 0,82                             | 1,8                                   | 0,7                                 | 6                                     | 291                                         | 4200           |
|          | 8-6  | 355            | 26,6                   | 990                       | 93,1              | 0,83                             | 1,8                                   | 0,7                                 | 6                                     | 324                                         | 4300           |
|          | 9-6  | 400            | 30                     | 990                       | 93,3              | 0,83                             | 1,8                                   | 0,7                                 | 6                                     | 361                                         | 4400           |
|          | 10-6 | 450            | 33,5                   | 990                       | 93,5              | 0,83                             | 1,8                                   | 0,7                                 | 6                                     | 400                                         | 4500           |
| OMVP 500 | 1-6  | 500            | 37,1                   | 991                       | 93,9              | 0,83                             | 1,8                                   | 0,7                                 | 6                                     | 440                                         | 5200           |
|          | 2-6  | 560            | 40,9                   | 991                       | 94,1              | 0,84                             | 1,8                                   | 0,7                                 | 6                                     | 486                                         | 5400           |
|          | 3-6  | 630            | 45,9                   | 991                       | 94,4              | 0,84                             | 1,8                                   | 0,7                                 | 6                                     | 539                                         | 5600           |
|          | 4-6  | 710            | 51,6                   | 991                       | 94,6              | 0,84                             | 1,8                                   | 0,7                                 | 6                                     | 599                                         | 5800           |
|          | 5-6  | 800            | 58,1                   | 991                       | 94,7              | 0,84                             | 1,8                                   | 0,7                                 | 6                                     | 664                                         | 6000           |
| OMVP 560 | 1-6  | 900            | 64,4                   | 991                       | 94,9              | 0,85                             | 1,8                                   | 0,7                                 | 6                                     | 735                                         | 8900           |
|          | 2-6  | 1000           | 71,4                   | 991                       | 95,1              | 0,85                             | 1,8                                   | 0,7                                 | 6                                     | 805                                         | 9100           |
|          | 3-6  | 1120           | 79,8                   | 991                       | 95,3              | 0,85                             | 1,8                                   | 0,7                                 | 6                                     | 886                                         | 9300           |
|          | 4-6  | 1250           | 88                     | 991                       | 95,4              | 0,86                             | 1,8                                   | 0,7                                 | 6                                     | 972                                         | 9600           |
| OMVP 630 | 1-6  | 1400           | 98,3                   | 991                       | 95,7              | 0,86                             | 1,8                                   | 0,6                                 | 6                                     | 1068                                        | 10800          |
|          | 2-6  | 1600           | 112,2                  | 991                       | 95,8              | 0,86                             | 1,8                                   | 0,6                                 | 6                                     | 1192                                        | 11200          |
|          | 3-6  | 1800           | 126                    | 991                       | 95,9              | 0,86                             | 1,8                                   | 0,6                                 | 6                                     | 1312                                        | 12100          |

**8P** Synchronous speed 750r/min

| TYPE     |      | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Inertia<br>Moment<br>J (kg.m <sup>2</sup> ) | Weight<br>(kg) |
|----------|------|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------------|----------------|
| OMVP 450 | 8-8  | 220            | 18,7                   | 742                       | 92,2              | 0,77                             | 1,8                                   | 0,7                                 | 6                                     | 423                                         | 4800           |
|          | 9-8  | 250            | 21,2                   | 742                       | 92,4              | 0,77                             | 1,8                                   | 0,7                                 | 6                                     | 476                                         | 4900           |
|          | 10-8 | 280            | 23,7                   | 742                       | 92,6              | 0,77                             | 1,8                                   | 0,7                                 | 6                                     | 528                                         | 5100           |
| OMVP 500 | 1-8  | 315            | 25,5                   | 742                       | 92,8              | 0,77                             | 1,8                                   | 0,7                                 | 6                                     | 588                                         | 6350           |
|          | 2-8  | 355            | 28,6                   | 742                       | 93,1              | 0,77                             | 1,8                                   | 0,7                                 | 6                                     | 656                                         | 6500           |
|          | 3-8  | 400            | 31,8                   | 742                       | 93,2              | 0,78                             | 1,8                                   | 0,7                                 | 6                                     | 730                                         | 6700           |
|          | 4-8  | 450            | 35,7                   | 742                       | 93,4              | 0,78                             | 1,8                                   | 0,7                                 | 6                                     | 812                                         | 6800           |
|          | 5-8  | 500            | 40                     | 742                       | 93,8              | 0,79                             | 1,8                                   | 0,7                                 | 6                                     | 893                                         | 6900           |
|          | 6-8  | 560            | 43,6                   | 742                       | 93,9              | 0,79                             | 1,8                                   | 0,7                                 | 6                                     | 989                                         | 7060           |
| OMVP 560 | 1-8  | 630            | 47                     | 742                       | 94,4              | 0,82                             | 1,8                                   | 0,7                                 | 6                                     | 1403                                        | 8500           |
|          | 2-8  | 710            | 52,8                   | 742                       | 94,6              | 0,82                             | 1,8                                   | 0,7                                 | 6                                     | 1544                                        | 8700           |
|          | 3-8  | 800            | 59,5                   | 742                       | 94,7              | 0,82                             | 1,8                                   | 0,7                                 | 6                                     | 1710                                        | 8900           |
|          | 4-8  | 900            | 66,8                   | 742                       | 94,8              | 0,82                             | 1,8                                   | 0,7                                 | 6                                     | 1902                                        | 9100           |
| OMVP 630 | 1-8  | 1000           | 73,3                   | 742                       | 95                | 0,83                             | 1,8                                   | 0,7                                 | 6                                     | 1650                                        | 10500          |
|          | 2-8  | 1120           | 81,9                   | 742                       | 95,2              | 0,86                             | 1,8                                   | 0,7                                 | 6                                     | 1820                                        | 11000          |
|          | 3-8  | 1250           | 91,3                   | 742                       | 95,3              | 0,86                             | 1,8                                   | 0,7                                 | 6                                     | 2001                                        | 11500          |

**10P**

Synchronous speed 600r/min

| TYPE     |      | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Inertia<br>Moment<br>J (kg.m <sup>2</sup> ) | Weight<br>(kg) |
|----------|------|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------------|----------------|
| OMVP 500 | 1-10 | 220            | 18,8                   | 594                       | 91,9              | 0,74                             | 1,8                                   | 0,7                                 | 5,5                                   | 740                                         | 6350           |
|          | 2-10 | 250            | 21,4                   | 594                       | 92,2              | 0,74                             | 1,8                                   | 0,7                                 | 5,5                                   | 820                                         | 6500           |
|          | 3-10 | 280            | 23,7                   | 594                       | 92,4              | 0,74                             | 1,8                                   | 0,7                                 | 5,5                                   | 910                                         | 6600           |
|          | 4-10 | 315            | 25,6                   | 594                       | 92,6              | 0,74                             | 1,8                                   | 0,7                                 | 5,5                                   | 1014                                        | 6700           |
|          | 5-10 | 355            | 29,5                   | 594                       | 92,8              | 0,75                             | 1,8                                   | 0,7                                 | 5,5                                   | 1131                                        | 6860           |
|          | 6-10 | 400            | 33,1                   | 594                       | 93                | 0,75                             | 1,8                                   | 0,7                                 | 5,5                                   | 1261                                        | 7060           |
| OMVP 560 | 1-10 | 450            | 36,2                   | 594                       | 93,2              | 0,77                             | 1,8                                   | 0,7                                 | 6                                     | 1403                                        | 8200           |
|          | 2-10 | 500            | 40,2                   | 594                       | 93,4              | 0,77                             | 1,8                                   | 0,7                                 | 6                                     | 1544                                        | 8400           |
|          | 3-10 | 560            | 44,4                   | 594                       | 93,5              | 0,78                             | 1,8                                   | 0,7                                 | 6                                     | 1710                                        | 8600           |
|          | 4-10 | 630            | 49,8                   | 594                       | 93,7              | 0,78                             | 1,8                                   | 0,7                                 | 6                                     | 1902                                        | 8800           |
|          | 5-10 | 710            | 56                     | 594                       | 93,9              | 0,78                             | 1,8                                   | 0,7                                 | 6                                     | 2117                                        | 9000           |
| OMVP 630 | 1-10 | 800            | 61,3                   | 594                       | 94,3              | 0,82                             | 1,8                                   | 0,7                                 | 6                                     | 2355                                        | 10000          |
|          | 2-10 | 9800           | 68,8                   | 594                       | 94,5              | 0,82                             | 1,8                                   | 0,7                                 | 6                                     | 2614                                        | 10500          |
|          | 3-10 | 1000           | 76,3                   | 594                       | 94,6              | 0,82                             | 1,8                                   | 0,7                                 | 6                                     | 2870                                        | 11000          |
|          | 4-10 | 1120           | 85,4                   | 594                       | 94,7              | 0,82                             | 1,8                                   | 0,7                                 | 6                                     | 3170                                        | 11500          |

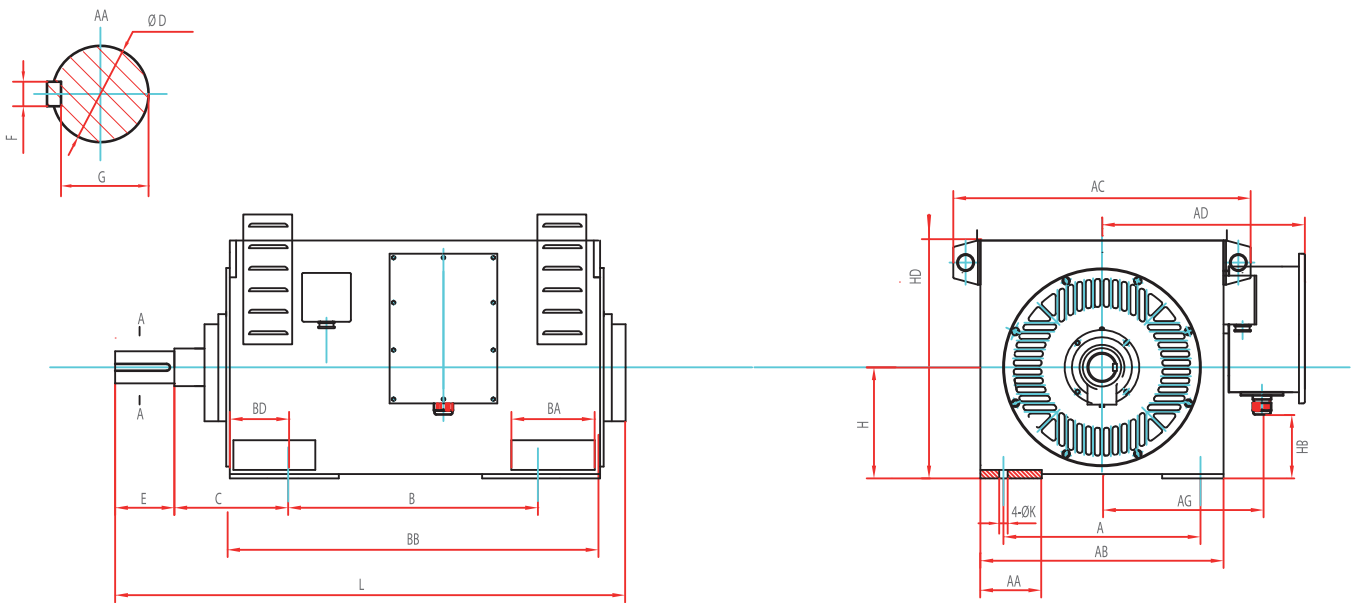
**12P**

Synchronous speed 500r/min

| TYPE     |      | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Inertia<br>Moment<br>J (kg.m <sup>2</sup> ) | Weight<br>(kg) |
|----------|------|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------------|----------------|
| OMVP 450 | 4-12 | 220            | 19                     | 495                       | 91,2              | 0,73                             | 1,8                                   | 0,7                                 | 6                                     | 1135                                        | 8000           |
|          | 5-12 | 250            | 21,5                   | 495                       | 91,6              | 0,73                             | 1,8                                   | 0,7                                 | 6                                     | 1210                                        | 8100           |
|          | 6-12 | 280            | 24,1                   | 495                       | 92                | 0,73                             | 1,8                                   | 0,7                                 | 6                                     | 1418                                        | 8200           |
| OMVP 500 | 1-12 | 315            | 27                     | 495                       | 92,3              | 0,73                             | 1,8                                   | 0,7                                 | 6                                     | 1580                                        | 300            |
|          | 2-12 | 355            | 30,4                   | 495                       | 92,5              | 0,73                             | 1,8                                   | 0,7                                 | 6                                     | 1763                                        | 8500           |
|          | 3-12 | 400            | 34,2                   | 495                       | 95,7              | 0,73                             | 1,8                                   | 0,7                                 | 6                                     | 1967                                        | 8700           |
|          | 4-12 | 450            | 38,4                   | 495                       | 92,9              | 0,73                             | 1,8                                   | 0,7                                 | 6                                     | 2190                                        | 8900           |
|          | 5-12 | 500            | 42,5                   | 495                       | 93,2              | 0,73                             | 1,8                                   | 0,7                                 | 6                                     | 2411                                        | 9100           |
| OMVP 560 | 1-12 | 560            | 46,8                   | 495                       | 93,5              | 0,74                             | 1,8                                   | 0,7                                 | 6                                     | 2672                                        | 10700          |
|          | 2-12 | 630            | 52,5                   | 495                       | 93,7              | 0,74                             | 1,8                                   | 0,7                                 | 6                                     | 2974                                        | 11160          |
|          | 3-12 | 710            | 59                     | 495                       | 93,7              | 0,74                             | 1,8                                   | 0,7                                 | 6                                     | 3313                                        | 11560          |
|          | 4-12 | 800            | 66,2                   | 495                       | 94,3              | 0,74                             | 1,8                                   | 0,7                                 | 6                                     | 3688                                        | 11930          |

## 6. CONSTRUCTION AND MOUNTING AND OVERALL DIMENSIONS

Mounting and overall dimensions of series OMVP, (6 kV; 10 kV) HV three phase induction motors (frame size 355-630) (see table)



• Mounting and overall dimensions (6 kV; 10 kV) frame size 355-630

| Frame size | Voltage | 6,10               |              | 6                   | 10                  | 6                   | 10                  | 6                | 10               | 6                   | 10                  |     |    | 6,10              |      |      |
|------------|---------|--------------------|--------------|---------------------|---------------------|---------------------|---------------------|------------------|------------------|---------------------|---------------------|-----|----|-------------------|------|------|
|            |         | Mounting dimension |              |                     |                     |                     |                     |                  |                  |                     |                     |     |    | Overall dimension |      |      |
|            |         | A                  | B            | C                   | D                   |                     | E                   |                  | F                |                     | G                   |     | H  | K                 | AA   | AB   |
| 355        | 630     | 900                | 315<br>(315) | 100<br>(80)         | —                   | 210<br>(170)        | —                   | 28<br>(22)       | —                | 90<br>(71)          | —                   | 355 | 28 | 208               | 800  | 1020 |
| 400        | 710     | 1000               | 335<br>(375) | 110<br>(90)         | —                   | 210<br>(170)        | —                   | 28<br>(25)       | —                | 100<br>(81)         | —                   | 400 | 35 |                   | 900  | 1120 |
| 450        | 800     | 1120               | 355<br>(400) | 130<br>120<br>(100) | 110<br>(90)         | 250<br>210<br>(210) | 210<br>(170)        | 32<br>32<br>(28) | 28<br>28<br>(25) | 119<br>109<br>(90)  | 100<br>100<br>(81)  | 450 | 35 |                   | 980  | 1180 |
| 500        | 900     | 1250               | 475<br>(560) | 475<br>(560)        | 130<br>120<br>(100) | 250<br>250<br>(210) | 250<br>210<br>(210) | 36<br>32<br>(28) | 32<br>32<br>(28) | 128<br>119<br>(00)  | 119<br>109<br>(90)  | 500 | 42 |                   | 1120 | 1320 |
| 560        | 100     | 1400               | 500<br>(560) | 160<br>150<br>(130) | 160<br>150<br>(130) | 300<br>250<br>(250) | 300<br>250<br>(250) | 40<br>36<br>(32) | 40<br>36<br>(32) | 147<br>138<br>(119) | 147<br>138<br>(119) | 560 | 42 | 210               | 1220 | 1460 |
| 630        | 1120    | 1600               | 530<br>(560) | 180<br>170<br>(140) | 180<br>170<br>(140) | 300<br>300<br>(250) | 300<br>300<br>(250) | 45<br>40<br>(36) | 45<br>40<br>(36) | 165<br>157<br>(128) | 165<br>157<br>(128) | 630 | 48 |                   | 1260 | 1500 |

| Frame size | Voltage<br><br>Dimension code | 6,10              |                              |    |      |      |      |      | 6   | 10  | 6   | 10   | 6   | 10           | 6,10                   |                        |   |
|------------|-------------------------------|-------------------|------------------------------|----|------|------|------|------|-----|-----|-----|------|-----|--------------|------------------------|------------------------|---|
|            |                               | Overall dimension |                              |    |      |      |      |      |     |     |     |      |     |              |                        |                        |   |
|            |                               | BA                | BB                           | BD | HA   | HD   |      |      |     | AG  |     | AD   |     | HB           |                        | L                      |   |
|            |                               |                   |                              |    |      | 1    | 2    | 3    | 4   |     |     |      |     |              |                        | 1,2,3                  | 4 |
| 355        | 570                           | 1360              | 210                          | 26 | 760  | 1060 | 1600 | 1420 | 595 | —   | 755 | —    | 90  | —            | 1790<br>(1750)         | 2070<br>(2030)         |   |
| 400        | 600                           | 1500              | 249<br>(277)                 | 35 | 850  | 1180 | 1870 | 1260 | 645 | —   | 800 | —    | 130 | —            | 1920<br>(1880)         | 2250<br>(2220)         |   |
| 450        | 620                           | 1620              | 262<br>(229)<br>262<br>(229) | 40 | 950  | 1320 | 1930 | 1660 | 685 | 760 | 840 | 990  | 200 | 140          | 2050<br>2000<br>(2000) | 2260<br>2210<br>(1460) |   |
| 500        | 660                           | 1730              | 355<br>(370)                 |    | 1050 | 1510 | 2080 | 1860 | 755 | 830 | 900 | 1060 | 320 | 240          | 2200<br>(2350)         | 2600<br>(2650)         |   |
| 560        | 720                           | 1860              | 360<br>(345)                 |    | 1180 | 1760 | 2330 | 2200 | 805 | 880 | 960 | 1110 | 348 | 290<br>(280) | 2450<br>(2650)         | 2760<br>2740<br>(2840) |   |
| 630        | 670                           | 2000              | 260<br>(590)                 |    | —    | 1920 | 2850 | 2250 | 825 | 975 | 980 | 1135 | 530 | 480          | 2800<br>(2750)         | 3300<br>(3200)         |   |

Remarks: 1.The motors with output 2000kw and above have its auxiliary terminal box on the left of the motor  
2.For some motor with the rolling bearing. it can be supplied with self-lubricated system.  
3.The dimension in bracket is for 2-poles motors, and that with underline for 4-poles motors.  
If there is only a double digits, the one without bracket is the dimension for motors beyond 2-poles.  
4.For the dimensions in diagonal, the upper one is theta of OMV and OMVKS series of the motors and below one OMVK series motors.  
5.The dimension (229)' is 6k1/. (301) is 10kV.



## Series OMVP

SERIES HIGH-VOLTAGE THREE-PHASE

INDUCTION ELECTRIC MOTOR IC01 - IP23 (H710-800)

### 1. GENERAL DESCRIPTION

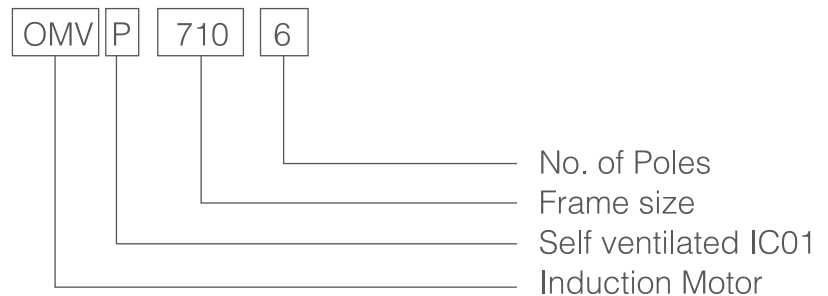
Series OMVP High-voltage three phase induction motors (frame size 710/800) are the serial products developed and manufactured, combined with the design and manufacture experience of long-term and stable producing high voltage three phase induction motors, on the basis of the international advanced manufacturing techniques.

These series motors are designed with the optimized design technique of computer. Adopting the new material and technology and being of excellent workmanship, these series motors have many remarkable feature such as compact construction, lightweight, high output, high efficiency, low noise, small vibration, safe operation and easy maintenance etc. These series of motors conform to IEC60034:1-2004 Technical Requirement for the Fundamental Series Three-phase Large Asynchronous Motors and international standard IEC34. The machine dimensions and tolerances of all parts conform to the corresponding international standards. For these series of motors, the protection degree on enclosures is IP23, cooling form is IC01, and mounting arrangement is IMB3. The motors with other corresponding protection degree, cooling form and mounting arrangement can also be supplied on customer's requirement.

Rated voltage: 6 kV, 10 kV Power range: 355-7100 kW Shaft center height: 710, 800 mm  
Synchronous speed: 3000, 1500, 1000, 750, 600, 500, 429, 375, 333, 300 r/min

Based on these series of motors, outdoor type, tropical humidity type, tropical humidity outdoor type, indoor Medium-chemical corrosion location and outdoor strong-chemical corrosion locations, outdoor medium-chemical corrosion location and outdoor strong-chemical corrosion location three phase induction motors have been modified. The performance index and mounting and overall dimensions are the same with those basic series.

## 2. EXPLANATION OF TYPE DESIGNATION



## 3. CONSTRUCTION FEATURES

These series motors adopted box structure popular worldwide, and frame, endshield etc. Are welded with steel plate. Endshield sphere sleeve bearings are used with the merits of high load capacity and easy overhaul and assembling.

These motors have light weight and good rigidity. Observation, installation and maintenance can be done easily after taking coolers down.

Stator windings, Class F insulation, are wound with two-glasses-fiberd film-ape flat copper wire. The whole windings are vacuum-pressure impregnated to make them possess higher electrical performance, mechanical strength, insulating property, moisture resistance and thermo-stability.

The material of rotor bars is copper, reliable welding technology is used between bars and rings and reliable measures have been taken to prevent the bar from rupture. After high precision balancing verification, the motors can run smoothly with small vibration.

High-voltage terminal boxes are enclosed structure with a large terminal compartment within which positions of cable head are left. The terminal box is located on the right side of the motors (viewing from the drive end). For the motor output 2000kW and above, a secondary terminal box is equipped at one side of the primary terminal box with neutral point connection of stator three phase windings and differential protection of motors.

According to consumer requirements, motor can be equipped with a bearing temperature detector to detect bearing temperature and also with a stator winding temperature detector and an anti-condensation heating device.

#### 4. SERVICE CONDITION

Rated voltage: 5 kV or 10 kW

Rated frequency: 50 Hz

Ambient air temperature: -15°C +40°C

Altitude: Not exceeding 1000 mm

Duty type: S1

Environmental conditions: indoor, outdoor, tropical humidity, outdoor tropical humidity, indoor medium-chemical corrosion locations, indoor strong-chemical corrosion, outdoor medium-chemical corrosion locations, outdoor strong-chemical corrosion.

At the operation site, the average highest relative humidity at the most humid month is 90%, and the average lowest temperature at the same month can not exceed 25°C.

These series motors can be used to drive different kinds of general-purpose machines, such as compressors, water pumps, blowers and other mechanical equipments installed in coal mines, mechanical, petrochemical industries and power plants etc. They can be used as drivers.

#### 5. STARTING REQUIREMENT

Adopting advanced technology to calculate starting temperature rise and stress of squirrel cage motor, these series of motors should be protected from early damage because of overweight starting load. The following requirements shall be when the drivers are water pumps, blowers etc.

For user's electric network, a voltage shall be assured not less than 85% rated voltage applied to the motor terminals during starting period.

The flywheel moment GD<sup>2</sup> of driven equipment (convert into motor speed) shall be not more than the value deriving from the following formula.

$$GD^2 = 5.36 \left[ P^{0.95} / \left( \frac{n}{1000} \right)^{2.4} \right] - 0.018 \left[ P^{1.5} / \left( \frac{n}{1000} \right)^{1.8} \right]$$

In the formula:

GD<sup>2</sup> - Flywheel moment of load, Kg/m<sup>2</sup> ;

P - Rated power of motor, kW;

n - Rated speed of motor r/min

The motor shall be shutdown gradually between two starting and the extra testing shall be carried out after shutdown for one (1) hour and above.

If the flywheel (GD<sup>2</sup>) of rotating parts of the driven equipment is greater than the value deriving from the formula above, or more frequent starting, or starting with heavy load, please contact and consult with O.M.E Srl for special design to assure the motor starting reliably.

• OMV series motors (6kV)

**2P** Synchronous speed 3000r/min

| TYPE     |     | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Noise<br>dB (A) | Fly wheel<br>tororue<br>(T.m <sup>2</sup> ) | Weight<br>(T) |
|----------|-----|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|-----------------|---------------------------------------------|---------------|
| OMVP 710 | 1-2 | 3550           | 394,1                  | 2985                      | 96,3              | 0,89                             | 1,8                                   | 0,6                                 | 7                                     | 107             | 0,6                                         | 14,3          |
|          | 2-2 | 4000           | 443,7                  | 2985                      | 96,4              | 0,89                             | 1,8                                   | 0,6                                 | 7                                     | 107             | 0,7                                         | 14,6          |
|          | 3-2 | 4500           | 498,6                  | 2985                      | 96,5              | 0,89                             | 1,8                                   | 0,6                                 | 7                                     | 107             | 0,8                                         | 14,9          |
| OMVP 800 | 1-2 | 5000           | 553,1                  | 2985                      | 96,6              | 0,89                             | 1,8                                   | 0,6                                 | 7                                     | 107             | 0,9                                         | 18,3          |
|          | 2-2 | 5600           | 619,2                  | 2985                      | 96,7              | 0,89                             | 1,8                                   | 0,6                                 | 7                                     | 107             | 1,8                                         | 20            |
|          | 3-2 | 6300           | 695,2                  | 2985                      | 96,8              | 0,89                             | 1,8                                   | 0,6                                 | 7                                     | 107             | 1,9                                         | 21            |
|          | 4-2 | 7100           | 755,8                  | 2985                      | 96,9              | 0,89                             | 1,8                                   | 0,6                                 | 7                                     | 107             | 2                                           | 23            |

**4P** Synchronous speed 1500r/min

| TYPE     |     | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Noise<br>dB (A) | Fly wheel<br>tororue<br>(T.m <sup>2</sup> ) | Weight<br>(T) |
|----------|-----|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|-----------------|---------------------------------------------|---------------|
| OMVP 710 | 1-4 | 3150           | 357,7                  | 1485                      | 96,3              | 0,87                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 0,8                                         | 14,35         |
|          | 2-4 | 3550           | 403,1                  | 1485                      | 96,3              | 0,87                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 0,9                                         | 15,85         |
|          | 3-4 | 4000           | 453,7                  | 1485                      | 96,4              | 0,87                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 1                                           | 16,25         |
|          | 4-4 | 4500           | 510,4                  | 1485                      | 96,4              | 0,87                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 1,1                                         | 16,85         |
| OMVP 800 | 1-4 | 5000           | 566,6                  | 1485                      | 96,5              | 0,88                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 2,1                                         | 21            |
|          | 2-4 | 5600           | 634,6                  | 1485                      | 96,5              | 0,88                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 2,2                                         | 23            |
|          | 3-4 | 6300           | 713,1                  | 1485                      | 96,6              | 0,88                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 2,3                                         | 24            |

**6P** Synchronous speed 1000r/min

| TYPE     |     | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Noise<br>dB (A) | Fly wheel<br>tororue<br>(T.m <sup>2</sup> ) | Weight<br>(T) |
|----------|-----|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|-----------------|---------------------------------------------|---------------|
| OMVP 710 | 1-6 | 2240           | 261,1                  | 995                       | 96                | 0,86                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 0,9                                         | 14,45         |
|          | 2-6 | 2500           | 291,1                  | 995                       | 96,1              | 0,86                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 1                                           | 14,62         |
|          | 3-6 | 2800           | 326                    | 995                       | 96,1              | 0,86                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 1,1                                         | 14,9          |
|          | 4-6 | 3150           | 366,4                  | 995                       | 96,2              | 0,86                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 1,2                                         | 15,15         |
| OMVP 800 | 1-6 | 3550           | 412,9                  | 995                       | 96,2              | 0,86                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 1,8                                         | 20            |
|          | 2-6 | 4000           | 464,8                  | 995                       | 96,3              | 0,86                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 1,9                                         | 21            |
|          | 3-6 | 4500           | 522,8                  | 995                       | 98,3              | 0,86                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 2                                           | 23            |
|          | 4-6 | 5000           | 580,3                  | 995                       | 98,4              | 0,87                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 2,1                                         | 24            |

**8P** Synchronous speed 750r/min

| TYPE     |     | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Noise<br>dB (A) | Fly wheel<br>tororue<br>(T.m <sup>2</sup> ) | Weight<br>(T) |
|----------|-----|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|-----------------|---------------------------------------------|---------------|
| OMVP 710 | 1-8 | 1800           | 213,6                  | 748                       | 95,4              | 0,85                             | 1,8                                   | 0,6                                 | 6,5                                   | 102             | 1,2                                         | 14,45         |
|          | 2-8 | 2000           | 237,1                  | 748                       | 95,5              | 0,85                             | 1,8                                   | 0,6                                 | 6,5                                   | 102             | 1,4                                         | 14,65         |
|          | 3-8 | 2240           | 265,3                  | 748                       | 95,6              | 0,85                             | 1,8                                   | 0,6                                 | 6,5                                   | 102             | 1,6                                         | 14,9          |
| OMVP 800 | 1-8 | 2500           | 295,7                  | 748                       | 95,7              | 0,85                             | 1,8                                   | 0,6                                 | 6,5                                   | 104             | 2,2                                         | 18,8          |
|          | 2-8 | 2800           | 330,9                  | 748                       | 95,8              | 0,85                             | 1,8                                   | 0,6                                 | 6,5                                   | 104             | 2,5                                         | 19,2          |
|          | 3-8 | 3150           | 372,2                  | 748                       | 95,8              | 0,85                             | 1,8                                   | 0,6                                 | 6,5                                   | 104             | 3,1                                         | 19,8          |
|          | 4-8 | 3550           | 419,1                  | 748                       | 95,9              | 0,85                             | 1,8                                   | 0,6                                 | 6,5                                   | 104             | 3,4                                         | 20,8          |

## 10P Synchronous speed 600r/min

| TYPE     |      | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Noise<br>dB (A) | Fly wheel<br>tororue<br>(T.m <sup>2</sup> ) | Weight<br>(T) |
|----------|------|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|-----------------|---------------------------------------------|---------------|
| OMVP 710 | 1-10 | 1600           | 195,3                  | 598                       | 95                | 0,83                             | 1,8                                   | 0,6                                 | 6                                     | 102             | 1,2                                         | 14,45         |
|          | 2-10 | 1800           | 219,4                  | 598                       | 95,1              | 0,83                             | 1,8                                   | 0,6                                 | 6                                     | 102             | 1,4                                         | 14,65         |
|          | 3-10 | 2000           | 243,6                  | 598                       | 95,2              | 0,83                             | 1,8                                   | 0,6                                 | 6                                     | 102             | 1,6                                         | 14,9          |
| OMVP 800 | 1-10 | 2240           | 272,5                  | 598                       | 95,3              | 0,83                             | 1,8                                   | 0,6                                 | 6                                     | 102             | 2,2                                         | 18,8          |
|          | 2-10 | 2500           | 303,8                  | 598                       | 95,4              | 0,83                             | 1,8                                   | 0,6                                 | 6                                     | 104             | 2,5                                         | 19,2          |
|          | 3-10 | 2800           | 339,9                  | 598                       | 95,5              | 0,83                             | 1,8                                   | 0,6                                 | 6                                     | 104             | 3,1                                         | 19,8          |

## 12P Synchronous speed 500r/min

| TYPE     |      | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Noise<br>dB (A) | Fly wheel<br>tororue<br>(T.m <sup>2</sup> ) | Weight<br>(T) |
|----------|------|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|-----------------|---------------------------------------------|---------------|
| OMVP 710 | 1-12 | 1120           | 144,4                  | 497                       | 94,5              | 0,79                             | 1,8                                   | 0,6                                 | 6                                     | 102             | 1,56                                        | 14,45         |
|          | 2-12 | 1250           | 160,9                  | 497                       | 94,6              | 0,79                             | 1,8                                   | 0,6                                 | 6                                     | 102             | 1,64                                        | 14,65         |
|          | 3-12 | 1400           | 177,8                  | 497                       | 94,7              | 0,8                              | 1,8                                   | 0,6                                 | 6                                     | 102             | 1,68                                        | 14,9          |
| OMVP 800 | 1-12 | 1600           | 203,2                  | 497                       | 94,7              | 0,8                              | 1,8                                   | 0,6                                 | 6                                     | 102             | 2,3                                         | 16,9          |
|          | 2-12 | 1800           | 228,4                  | 497                       | 94,8              | 0,8                              | 1,8                                   | 0,6                                 | 6                                     | 102             | 2,42                                        | 17,1          |
|          | 3-12 | 2000           | 253,5                  | 497                       | 94,9              | 0,8                              | 1,8                                   | 0,6                                 | 6                                     | 102             | 2,56                                        | 17,3          |
|          | 4-12 | 2240           | 283,6                  | 497                       | 95                | 0,8                              | 1,8                                   | 0,6                                 | 6                                     | 102             | 2,68                                        | 17,65         |

**14P** Synchronous speed 429r/min

| TYPE     |      | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Noise<br>dB (A) | Fly wheel<br>tororue<br>(T.m <sup>2</sup> ) | Weight<br>(T) |
|----------|------|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|-----------------|---------------------------------------------|---------------|
| OMVP 710 | 1-14 | 800            | 109,2                  | 425                       | 94                | 0,75                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,48                                        | 14,2          |
|          | 2-14 | 900            | 121,1                  | 425                       | 94,1              | 0,76                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,56                                        | 14,45         |
|          | 3-14 | 1000           | 134,4                  | 425                       | 94,2              | 0,76                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,64                                        | 14,65         |
|          | 4-14 | 1120           | 150,4                  | 425                       | 94,3              | 0,76                             | 1,8                                   | 0,6                                 | 6                                     | 102             | 1,68                                        | 14,9          |
| OMVP 800 | 1-14 | 1250           | 167,7                  | 425                       | 94,4              | 0,76                             | 1,8                                   | 0,6                                 | 6                                     | 102             | 2,3                                         | 16,9          |
|          | 2-14 | 1400           | 187,6                  | 425                       | 94,5              | 0,76                             | 1,8                                   | 0,6                                 | 6                                     | 102             | 2,42                                        | 17,1          |
|          | 3-14 | 1600           | 214,1                  | 425                       | 94,6              | 0,76                             | 1,8                                   | 0,6                                 | 6                                     | 102             | 2,56                                        | 17,3          |
|          | 4-14 | 1800           | 234,5                  | 425                       | 94,7              | 0,76                             | 1,8                                   | 0,6                                 | 6                                     | 102             | 2,68                                        | 17,65         |

**16P** Synchronous speed 375r/min

| TYPE     |      | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Noise<br>dB (A) | Fly wheel<br>tororue<br>(T.m <sup>2</sup> ) | Weight<br>(T) |
|----------|------|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|-----------------|---------------------------------------------|---------------|
| OMVP 710 | 1-16 | 630            | 89,2                   | 372                       | 93,1              | 0,73                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,48                                        | 14,2          |
|          | 2-16 | 710            | 100,3                  | 372                       | 93,3              | 0,73                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,56                                        | 14,45         |
|          | 3-16 | 800            | 112,9                  | 372                       | 93,4              | 0,73                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,64                                        | 14,65         |
|          | 4-16 | 900            | 126,9                  | 372                       | 93,5              | 0,73                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,68                                        | 14,9          |
| OMVP 800 | 1-16 | 1000           | 138,9                  | 372                       | 93,6              | 0,74                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 2,3                                         | 16,9          |
|          | 2-16 | 1120           | 155,4                  | 372                       | 93,7              | 0,74                             | 1,8                                   | 0,6                                 | 6                                     | 102             | 2,42                                        | 17,1          |
|          | 3-16 | 1250           | 173,3                  | 372                       | 93,8              | 0,74                             | 1,8                                   | 0,6                                 | 6                                     | 102             | 2,56                                        | 17,3          |
|          | 4-16 | 1400           | 193,9                  | 372                       | 93,9              | 0,74                             | 1,8                                   | 0,6                                 | 6                                     | 102             | 2,68                                        | 17,65         |

**18P** Synchronous speed 333r/min

| TYPE     |      | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Noise<br>dB (A) | Fly wheel<br>tororue<br>(T.m <sup>2</sup> ) | Weight<br>(T) |
|----------|------|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|-----------------|---------------------------------------------|---------------|
| OMVP 710 | 1-18 | 500            | 76,1                   | 331                       | 93                | 0,68                             | 1,8                                   | 0,6                                 | 6                                     | 98              | 1,48                                        | 14,2          |
|          | 2-18 | 560            | 85,2                   | 331                       | 93                | 0,68                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,56                                        | 14,45         |
|          | 3-18 | 630            | 93                     | 331                       | 93,1              | 0,7                              | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,64                                        | 14,65         |
|          | 4-18 | 710            | 104,6                  | 331                       | 93,3              | 0,7                              | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,68                                        | 14,9          |
| OMVP 800 | 1-18 | 800            | 117,7                  | 331                       | 93,4              | 0,7                              | 1,8                                   | 0,6                                 | 6                                     | 100             | 2,3                                         | 16,9          |
|          | 2-18 | 900            | 132,3                  | 331                       | 93,5              | 0,7                              | 1,8                                   | 0,6                                 | 6                                     | 100             | 2,42                                        | 17,1          |
|          | 3-18 | 1000           | 142,9                  | 331                       | 93,5              | 0,72                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 2,56                                        | 17,3          |
|          | 4-18 | 1120           | 159,9                  | 331                       | 93,6              | 0,72                             | 1,8                                   | 0,6                                 | 6                                     | 102             | 2,68                                        | 17,65         |

**20P** Synchronous speed 300r/min

| TYPE     |      | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Noise<br>dB (A) | Fly wheel<br>tororue<br>(T.m <sup>2</sup> ) | Weight<br>(T) |
|----------|------|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|-----------------|---------------------------------------------|---------------|
| OMVP 710 | 1-20 | 450            | 69,5                   | 298                       | 93                | 0,67                             | 1,8                                   | 0,6                                 | 6                                     | 98              | 1,48                                        | 14,2          |
|          | 2-20 | 500            | 77,2                   | 298                       | 93                | 0,67                             | 1,8                                   | 0,6                                 | 6                                     | 98              | 1,56                                        | 14,45         |
|          | 3-20 | 560            | 86,5                   | 298                       | 93                | 0,67                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,64                                        | 14,65         |
|          | 4-20 | 630            | 97,3                   | 298                       | 93                | 0,67                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,68                                        | 14,9          |
| OMVP 800 | 1-20 | 710            | 107,9                  | 298                       | 93,1              | 0,68                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 2,3                                         | 16,9          |
|          | 2-20 | 800            | 121,5                  | 298                       | 93,2              | 0,68                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 2,42                                        | 17,1          |
|          | 3-20 | 900            | 136,5                  | 298                       | 93,3              | 0,68                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 2,56                                        | 17,3          |
|          | 4-20 | 1000           | 151,7                  | 298                       | 93,3              | 0,68                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 2,68                                        | 17,65         |

• OMV series motors (10kV)

**2P** Synchronous speed 3000r/min

| TYPE     |     | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Noise<br>dB (A) | Fly wheel<br>tororue<br>(T.m <sup>2</sup> ) | Weight<br>(T) |
|----------|-----|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|-----------------|---------------------------------------------|---------------|
| OMVP 710 | 1-2 | 2500           | 171,4                  | 2985                      | 95,9              | 0,89                             | 1,8                                   | 0,6                                 | 7                                     | 107             | 0,6                                         | 14,3          |
|          | 2-2 | 2800           | 191,6                  | 2985                      | 96                | 0,89                             | 1,8                                   | 0,6                                 | 7                                     | 107             | 0,7                                         | 14,6          |
|          | 3-2 | 3150           | 215,5                  | 2985                      | 96,1              | 0,89                             | 1,8                                   | 0,6                                 | 7                                     | 107             | 0,8                                         | 14,9          |
|          | 4-2 | 3550           | 242,6                  | 2985                      | 96,2              | 0,89                             | 1,8                                   | 0,6                                 | 7                                     | 107             | 0,9                                         | 15,3          |
| OMVP 800 | 1-2 | 4000           | 273,1                  | 2985                      | 96,3              | 0,89                             | 1,8                                   | 0,6                                 | 7                                     | 107             | 1,8                                         | 20            |
|          | 2-2 | 4500           | 306,9                  | 2985                      | 96,4              | 0,89                             | 1,8                                   | 0,6                                 | 7                                     | 107             | 1,9                                         | 21            |
|          | 3-2 | 5000           | 341                    | 2985                      | 96,5              | 0,89                             | 1,8                                   | 0,6                                 | 7                                     | 107             | 2                                           | 23            |
|          | 4-2 | 5600           | 381,5                  | 2985                      | 96,6              | 0,89                             | 1,8                                   | 0,6                                 | 7                                     | 107             | 2,1                                         | 24            |

**4P** Synchronous speed 1500r/min

| TYPE     |     | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Noise<br>dB (A) | Fly wheel<br>tororue<br>(T.m <sup>2</sup> ) | Weight<br>(T) |
|----------|-----|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|-----------------|---------------------------------------------|---------------|
| OMVP 710 | 1-4 | 2500           | 175,2                  | 1485                      | 95,8              | 0,86                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 0,8                                         | 14,35         |
|          | 2-4 | 2800           | 196                    | 1485                      | 95,9              | 0,86                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 0,9                                         | 15,85         |
|          | 3-4 | 3150           | 220,3                  | 1485                      | 96                | 0,86                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 1                                           | 16,25         |
|          | 4-4 | 3550           | 245,1                  | 1485                      | 96,1              | 0,86                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 1,1                                         | 16,85         |
| OMVP 800 | 1-4 | 4000           | 275,9                  | 1485                      | 96,2              | 0,87                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 2,1                                         | 21            |
|          | 2-4 | 4500           | 310,4                  | 1485                      | 96,3              | 0,87                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 2,2                                         | 23            |
|          | 3-4 | 5000           | 344,6                  | 1485                      | 96,4              | 0,87                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 2,3                                         | 24            |
|          | 4-4 | 5600           | 385,9                  | 1485                      | 96,5              | 0,87                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 2,5                                         | 24,5          |

## 6P Synchronous speed 1000r/min

| TYPE     |     | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Noise<br>dB (A) | Fly wheel<br>tororue<br>(T.m <sup>2</sup> ) | Weight<br>(T) |
|----------|-----|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|-----------------|---------------------------------------------|---------------|
| OMVP 710 | 1-6 | 2000           | 143,9                  | 995                       | 95,5              | 0,84                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 0,9                                         | 14,45         |
|          | 2-6 | 2240           | 161                    | 995                       | 95,6              | 0,84                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 1                                           | 14,65         |
|          | 3-6 | 2500           | 179,6                  | 995                       | 96,7              | 0,84                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 1,1                                         | 14,9          |
| OMVP 800 | 1-6 | 2800           | 200,9                  | 995                       | 95,8              | 0,84                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 1,8                                         | 20            |
|          | 2-6 | 3150           | 225,8                  | 995                       | 95,9              | 0,84                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 1,9                                         | 21            |
|          | 3-6 | 3550           | 254,2                  | 995                       | 96                | 0,84                             | 1,8                                   | 0,6                                 | 6,5                                   | 106             | 2                                           | 23            |

## 8P Synchronous speed 750r/min

| TYPE     |     | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Noise<br>dB (A) | Fly wheel<br>tororue<br>(T.m <sup>2</sup> ) | Weight<br>(T) |
|----------|-----|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|-----------------|---------------------------------------------|---------------|
| OMVP 710 | 1-8 | 1400           | 102,6                  | 748                       | 94,9              | 0,82                             | 1,8                                   | 0,6                                 | 6,5                                   | 102             | 1,2                                         | 14,45         |
|          | 2-8 | 1600           | 117,2                  | 748                       | 95                | 0,82                             | 1,8                                   | 0,6                                 | 6,5                                   | 102             | 1,4                                         | 14,65         |
|          | 3-8 | 1800           | 131,7                  | 748                       | 95,1              | 0,82                             | 1,8                                   | 0,6                                 | 6,5                                   | 102             | 1,6                                         | 14,9          |
| OMVP 800 | 1-8 | 2000           | 146,1                  | 748                       | 95,2              | 0,83                             | 1,8                                   | 0,6                                 | 6,5                                   | 102             | 2,2                                         | 18,8          |
|          | 2-8 | 2240           | 163,5                  | 748                       | 95,3              | 0,83                             | 1,8                                   | 0,6                                 | 6,5                                   | 104             | 2,5                                         | 19,2          |
|          | 3-8 | 2500           | 182,3                  | 748                       | 95,4              | 0,83                             | 1,8                                   | 0,6                                 | 6,5                                   | 104             | 3,1                                         | 19,8          |
|          | 4-8 | 2800           | 203,9                  | 748                       | 95,5              | 0,83                             | 1,8                                   | 0,6                                 | 6,5                                   | 104             | 3,4                                         | 20,8          |

## 10P Synchronous speed 600r/min

| TYPE     |      | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Noise<br>dB (A) | Fly wheel<br>tororue<br>(T.m <sup>2</sup> ) | Weight<br>(T) |
|----------|------|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|-----------------|---------------------------------------------|---------------|
| OMVP 710 | 1-10 | 1250           | 93                     | 598                       | 94,6              | 0,82                             | 1,8                                   | 0,6                                 | 6                                     | 102             | 1,2                                         | 14,45         |
|          | 2-10 | 1400           | 104,1                  | 598                       | 94,7              | 0,82                             | 1,8                                   | 0,6                                 | 6                                     | 102             | 1,4                                         | 14,65         |
|          | 3-10 | 1600           | 118,8                  | 598                       | 94,8              | 0,82                             | 1,8                                   | 0,6                                 | 6                                     | 102             | 1,6                                         | 14,9          |
| OMVP 800 | 1-10 | 1800           | 133,5                  | 598                       | 94,9              | 0,82                             | 1,8                                   | 0,6                                 | 6                                     | 102             | 2,2                                         | 18,8          |
|          | 2-10 | 2000           | 148,2                  | 598                       | 95                | 0,82                             | 1,8                                   | 0,6                                 | 6                                     | 102             | 2,5                                         | 19,2          |
|          | 3-10 | 2240           | 166                    | 598                       | 95,1              | 0,82                             | 1,8                                   | 0,6                                 | 6                                     | 104             | 3,1                                         | 19,8          |

## 12P Synchronous speed 500r/min

| TYPE     |      | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Noise<br>dB (A) | Fly wheel<br>tororue<br>(T.m <sup>2</sup> ) | Weight<br>(T) |
|----------|------|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|-----------------|---------------------------------------------|---------------|
| OMVP 710 | 1-12 | 900            | 70                     | 497                       | 93,9              | 0,8                              | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,56                                        | 14,45         |
|          | 2-12 | 1000           | 77,7                   | 497                       | 94                | 0,8                              | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,64                                        | 14,65         |
|          | 3-12 | 1120           | 87                     | 497                       | 94,1              | 0,8                              | 1,8                                   | 0,6                                 | 6                                     | 102             | 1,68                                        | 14,9          |
| OMVP 800 | 1-12 | 1250           | 97                     | 497                       | 94,2              | 0,81                             | 1,8                                   | 0,6                                 | 6                                     | 102             | 2,3                                         | 16,9          |
|          | 2-12 | 1400           | 108,5                  | 497                       | 94,3              | 0,81                             | 1,8                                   | 0,6                                 | 6                                     | 102             | 2,42                                        | 17,1          |
|          | 3-12 | 1600           | 123,9                  | 497                       | 94,4              | 0,81                             | 1,8                                   | 0,6                                 | 6                                     | 102             | 2,56                                        | 17,3          |

**14P** Synchronous speed 429r/min

| TYPE     |      | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Noise<br>dB (A) | Fly wheel<br>tororue<br>(T.m <sup>2</sup> ) | Weight<br>(T) |
|----------|------|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|-----------------|---------------------------------------------|---------------|
| OMVP 710 | 1-14 | 630            | 51,9                   | 425                       | 93,6              | 0,75                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,35                                        | 13,8          |
|          | 2-14 | 710            | 58,3                   | 425                       | 93,7              | 0,75                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,48                                        | 14,2          |
|          | 3-14 | 800            | 65,7                   | 425                       | 93,8              | 0,75                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,56                                        | 14,45         |
|          | 4-14 | 900            | 73,8                   | 425                       | 94,9              | 0,75                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,64                                        | 14,65         |
| OMVP 800 | 1-14 | 1000           | 81,9                   | 425                       | 94                | 0,75                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,68                                        | 14,9          |
|          | 2-14 | 1120           | 91,6                   | 425                       | 94,1              | 0,75                             | 1,8                                   | 0,6                                 | 6                                     | 102             | 2,3                                         | 16,9          |
|          | 3-14 | 1250           | 102,1                  | 425                       | 94,2              | 0,75                             | 1,8                                   | 0,6                                 | 6                                     | 102             | 2,42                                        | 17,10         |

**16P** Synchronous speed 375r/min

| TYPE     |      | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Noise<br>dB (A) | Fly wheel<br>tororue<br>(T.m <sup>2</sup> ) | Weight<br>(T) |
|----------|------|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|-----------------|---------------------------------------------|---------------|
| OMVP 710 | 1-16 | 450            | 41,5                   | 372                       | 94,4              | 0,78                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,25                                        | 14,2          |
|          | 2-16 | 500            | 45,4                   | 372                       | 94,5              | 0,78                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,36                                        | 14,45         |
|          | 3-16 | 560            | 48,3                   | 372                       | 94,6              | 0,78                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,48                                        | 14,65         |
|          | 4-16 | 630            | 54,3                   | 372                       | 94,7              | 0,78                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,56                                        | 14,9          |
| OMVP 800 | 1-16 | 710            | 61,2                   | 372                       | 94,8              | 0,79                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,64                                        | 16,9          |
|          | 2-16 | 800            | 67,9                   | 372                       | 94,9              | 0,79                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,68                                        | 17,1          |
|          | 3-16 | 900            | 76,3                   | 372                       | 95                | 0,79                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 2,3                                         | 17,3          |
|          | 4-16 | 1000           | 84,7                   | 372                       | 95,1              | 0,79                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 2,42                                        | 17,65         |

**18P** Synchronous speed 333r/min

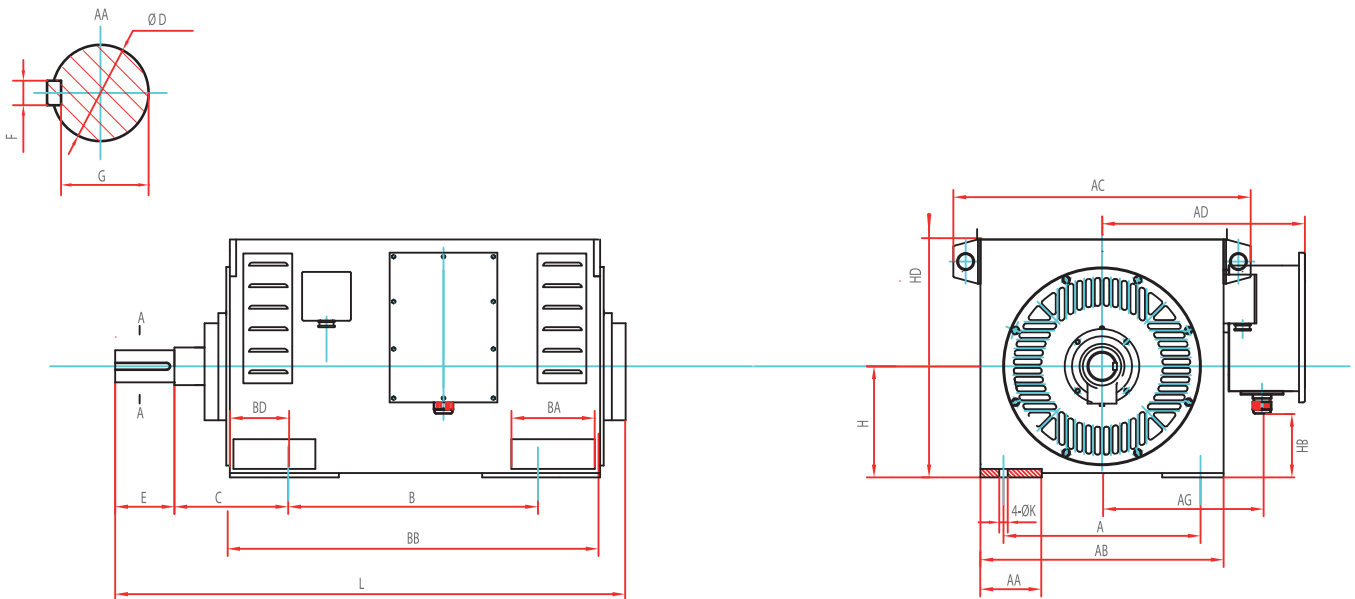
| TYPE     |      | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Noise<br>dB (A) | Fly wheel<br>tororue<br>(T.m <sup>2</sup> ) | Weight<br>(T) |
|----------|------|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|-----------------|---------------------------------------------|---------------|
| OMVP 710 | 1-18 | 450            | 41,8                   | 331                       | 92,8              | 0,67                             | 1,8                                   | 0,6                                 | 6                                     | 98              | 1,48                                        | 14,2          |
|          | 2-18 | 500            | 45,7                   | 331                       | 92,9              | 0,68                             | 1,8                                   | 0,6                                 | 6                                     | 98              | 1,56                                        | 14,45         |
|          | 3-18 | 560            | 51,2                   | 331                       | 92,9              | 0,68                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,64                                        | 14,65         |
|          | 4-18 | 630            | 57,6                   | 331                       | 92,9              | 0,68                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,68                                        | 14,9          |
| OMVP 800 | 1-18 | 710            | 64,8                   | 331                       | 93                | 0,68                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 2,3                                         | 16,9          |
|          | 2-18 | 800            | 70,9                   | 331                       | 93,3              | 0,7                              | 1,8                                   | 0,6                                 | 6                                     | 100             | 2,42                                        | 17,1          |
|          | 3-18 | 900            | 79,7                   | 331                       | 93,1              | 0,7                              | 1,8                                   | 0,6                                 | 6                                     | 100             | 2,56                                        | 17,3          |
|          | 4-18 | 1000           | 88,5                   | 331                       | 93,2              | 0,7                              | 1,8                                   | 0,6                                 | 6                                     | 100             | 2,68                                        | 17,65         |

**20P** Synchronous speed 300r/min

| TYPE     |      | Output<br>(kw) | Rated<br>Output<br>(A) | Rated<br>Speed<br>(r/min) | Efficiency<br>(%) | Power<br>Factor<br>(Cos $\Phi$ ) | Pull out<br>torque<br>Rated<br>torque | Locked<br>torque<br>Rated<br>torque | Locked<br>current<br>Rated<br>current | Noise<br>dB (A) | Fly wheel<br>tororue<br>(T.m <sup>2</sup> ) | Weight<br>(T) |
|----------|------|----------------|------------------------|---------------------------|-------------------|----------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|-----------------|---------------------------------------------|---------------|
| OMVP 710 | 1-20 | 400            | 37,7                   | 298                       | 92,8              | 0,67                             | 1,8                                   | 0,6                                 | 6                                     | 98              | 1,48                                        | 14,2          |
|          | 2-20 | 450            | 41,8                   | 298                       | 92,8              | 0,67                             | 1,8                                   | 0,6                                 | 6                                     | 98              | 1,56                                        | 14,45         |
|          | 3-20 | 500            | 46,4                   | 298                       | 92,8              | 0,67                             | 1,8                                   | 0,6                                 | 6                                     | 98              | 1,64                                        | 14,65         |
|          | 4-20 | 560            | 52                     | 298                       | 92,8              | 0,67                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 1,68                                        | 14,9          |
| OMVP 800 | 1-20 | 630            | 57,6                   | 298                       | 92,8              | 0,67                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 2,3                                         | 16,9          |
|          | 2-20 | 710            | 64,9                   | 298                       | 92,9              | 0,68                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 2,42                                        | 17,1          |
|          | 3-20 | 800            | 73                     | 298                       | 93                | 0,68                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 2,56                                        | 17,3          |
|          | 4-20 | 900            | 82,1                   | 298                       | 93,1              | 0,68                             | 1,8                                   | 0,6                                 | 6                                     | 100             | 2,68                                        | 17,65         |

## 6. CONSTRUCTION AND MOUNTING AND OVERALL DIMENSIONS

Mounting and overall dimensions of series OMVP, (6 kV; 10 kV) HV three phase induction motors (frame size 355-630) (see table)



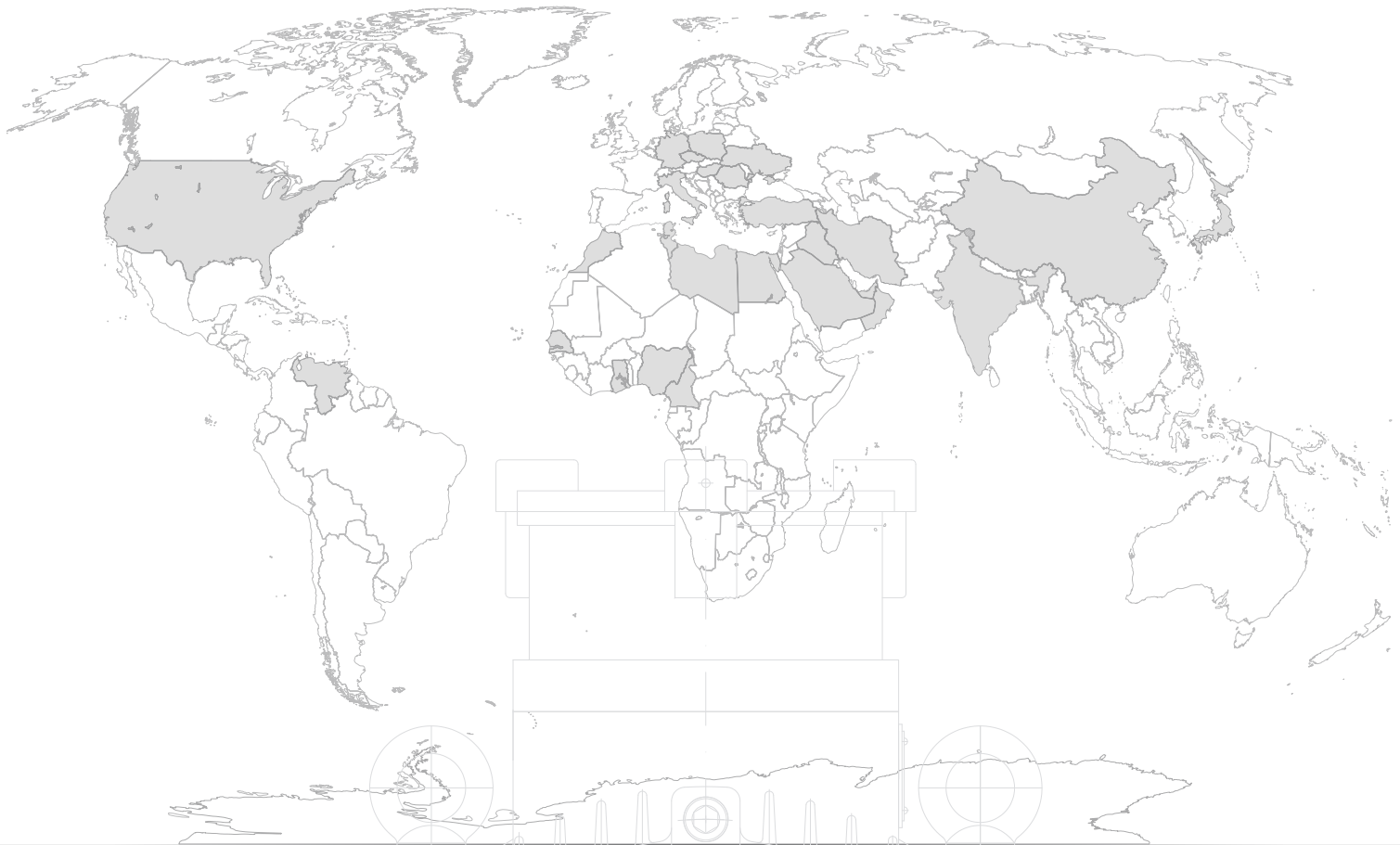
### • Mounting and overall dimensions (6 kV; 10 kV) frame size 710-800

| Voltage<br><br>Dimension<br>code<br><br>Frame<br>size | 6, 10              |                |     | 6   10       | 6   10       | 6   10     | 6   10       | 6, 10 |    |     |                   |      |              |              |      |      |      | 6   10 | 6   10 | 6   10 | 6, 10 |      |  |
|-------------------------------------------------------|--------------------|----------------|-----|--------------|--------------|------------|--------------|-------|----|-----|-------------------|------|--------------|--------------|------|------|------|--------|--------|--------|-------|------|--|
|                                                       | Mounting dimension |                |     |              |              |            |              |       |    |     | Overall dimension |      |              |              |      |      |      |        |        |        |       |      |  |
|                                                       | A                  | B              | C   | D            | E            | F          | G            | H     | K  | AA  | AB                | AC   | BA           | BD           | HD   |      |      | AG     | AD     | HB     | L     |      |  |
|                                                       |                    |                |     |              |              |            |              |       |    |     |                   |      |              |              | 2    | 3    | 4    |        |        |        | 2,3   | 4    |  |
| 710                                                   | 1400               | 1800<br>(1600) | 530 | 200<br>(160) | 350<br>(250) | 45<br>(40) | 185<br>(147) | 710   | 56 | 230 | 1600              | 1840 | 850<br>(700) | 245<br>(200) | 2220 | 2340 | 2650 | 2650   | 1370   | 463    | 3200  | 3600 |  |
| 800                                                   | 1600               | 2000<br>(1800) | 530 | 220<br>(180) | 350<br>(300) | 50<br>(45) | 203<br>(165) | 780   | 56 | 270 | 1800              | 2080 | 700          | 150          | 2600 | 2800 | 2800 | 1500   | 1400   | 300    | 3420  | 3820 |  |

Remarks: 1 - If the motors of 2 poles are 4 poles. They have the same overall dimensions; If the cooling system is of IC611 and IC616 (OM), the overall dimension for 2 poles motors is the same with that of 2 (Y series with top hood).  
 2 - For the motors with output more than 2000 kW, the auxiliary terminal box is on the left of the motors.  
 3 - the dimensions in bracket are those of 2 poles.  
 4 - Some motors with rolling bearing can be supplied with self-lubricating system on request.

# CATALOGUE

## Medium High Voltage Series Electric Motor



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