



*Medium and high voltage electric motors*

# ***H27R series***

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Powerful, efficient and flexible

Modular performance electric motors series

Technical catalogue



# General description

H27R-ODP, H27R-SR-ODP, H27R-WC, H27R-SR-WC, H27R, H27R-SR series medium-sized high voltage three phase asynchronous motors are our latest products which with advantages in and abroad, there are totally 6 frame size ranging from H355 to H560, and voltage 6kv and 10kv.

To develop these series motors, advanced analytic and calculation technology is used, fine materials and excellent workmanship are also adopted during manufacturing. All of those give series motor high efficiency, low noise, low vibration and high reliability.

These series motors comply with electrical standard IEC60034-1. Rotating electrical machine- rating and performance and relevant IEC standard, the noise level of motors conform with IEC60034-9. Measurement of airborne noise emitted by rotating electrical machines and the noise limits and the vibration level meet IEC60034-14. Mechanical Vibration of certain machines with shaft heights 56mm and Higher-Measurement, evaluation and limits of vibration.

All motor in basic design are of horizontal with feet mounting type (IMB3), duty type is continuous operation (S1).

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

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

H27R-SR-ODP, H27R-SR-WC, H27R-SR series motors maybe used to drive rolling mills, grinders, hoists, belt conveyers, heavy load blowers, etc.

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



# Quality management and certificates



VYBO Electric is a modern High-tech energy saving company that pays high attention to quality, environment, safety and precision and efficiency of work and energy in production. Therefore, it holds a lot of certificates and quality control systems. **Our priority is quality control.**

## Basic certificates include:

### ISO9001

The primary task of the ISO 9001 standard is to focus on system management and quality management in the organization. The satisfaction of the customer and the fulfillment of his requirements, which are specified in contracts, orders, or technical drawings, are in the first place. The quality management system is linked to all processes in the company. The standard focuses on the management of human and financial resources, on the stability of infrastructure, including buildings, transport, hardware, software and other communication or information technologies. An important part is also the planning of production and services, the management of the purchasing process, but also the management of non-conforming products.



### ISO14001

The main priority of the ISO 14001 standard is to identify and understand the environmental aspects and activities that are related to the entire infrastructure of the company and, based on this, to regulate the environmental impact on the environment.

In its scope, the ISO 14001 standard creates the conditions for determining environmental goals and plans, the fulfillment of which is examined at regular intervals by top management and also by an independent body during internal audits.

This standard is intended for all organizations and companies that consider environmental protection as their primary goal.

The benefit of the standard for society is mainly:

- control over the environmental impact on the environment
- control over produced emissions and waste
- saving material and energy
- prevention of accidents
- compliance of the company's activities with legal requirements
- zero fines for environmental behavior
- creation of a good reputation and prestige of the company





## The ISO 45001

Specification (formerly known as OHSAS 18001) is an internationally recognized standard that declares compliance with the principles of a safe enterprise, managing risks at work and protecting the health of workers during work. It does not only concern danger and accidents, but also emphasizes other aspects such as the good condition and mental well-being of the employee.

The certificate is held in Slovakia as STN ISO 45001:2019 and is under the title Management systems of safety and health protection at work. Requirements with guidance for use. It replaces the STN OHSAS 18001 standard.



## ISO 50001

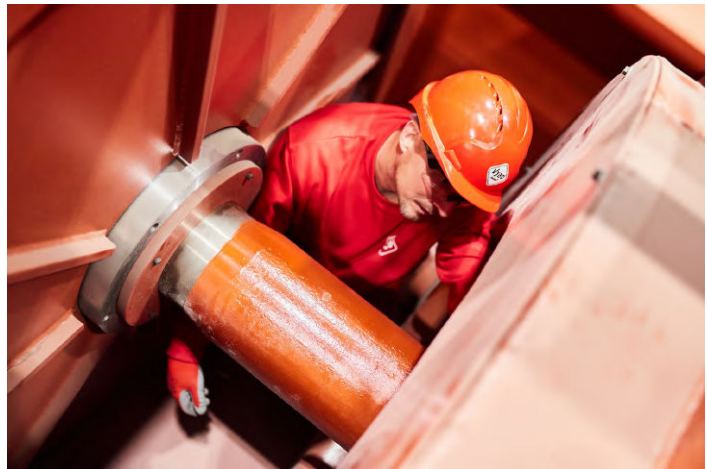
Energy management systems Energy efficiency help organizations save money, save energy resources and also help to prevent climate change. ISO 50001 encourages organizations in all sectors to use energy more efficiently through the development of an energy management system. The international standard ISO 50001: 2011 specifies the requirements for building, maintaining and improving the energy system. It aims to enable organizations to implement a systematic approach that will help achieve lasting improvements in energy efficiency, energy use and consumption.



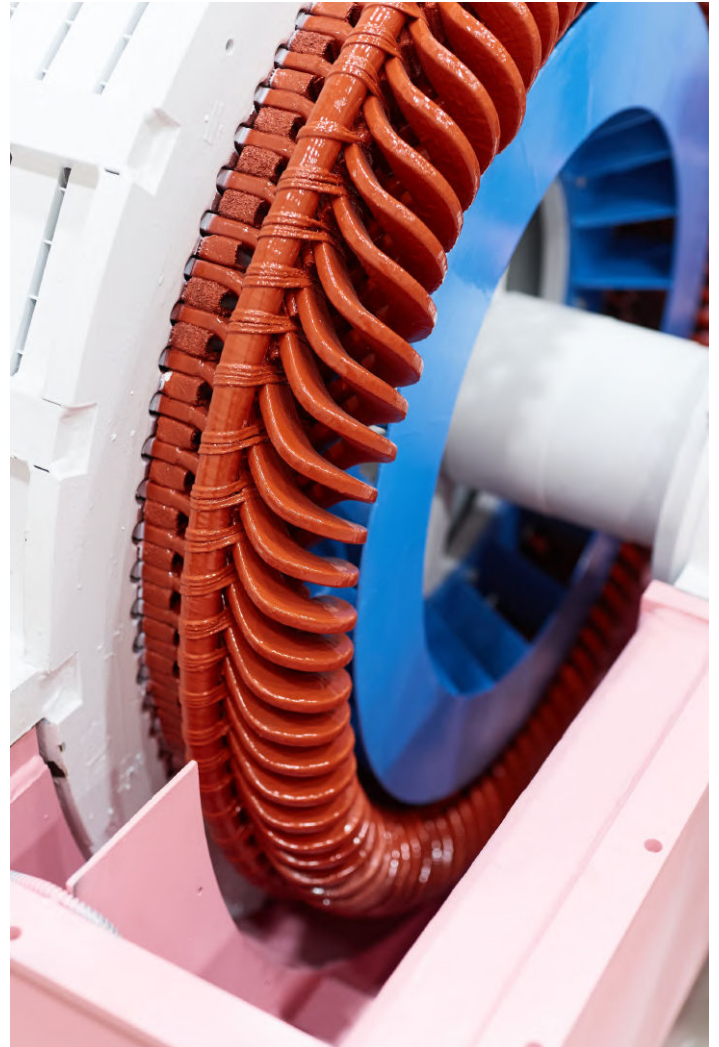
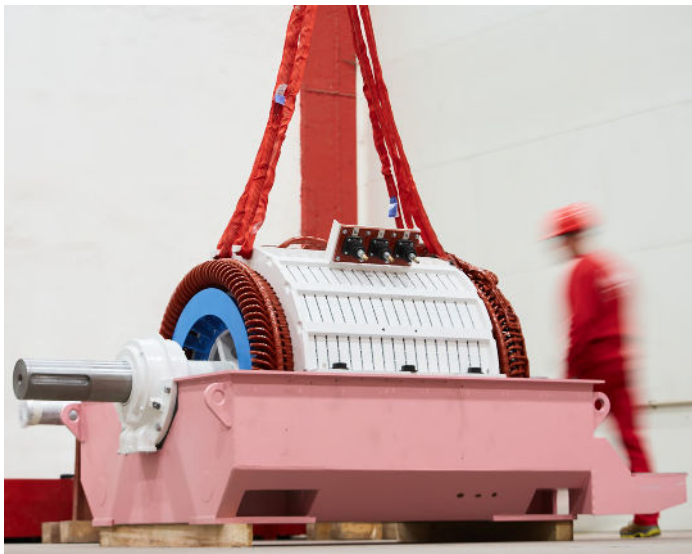
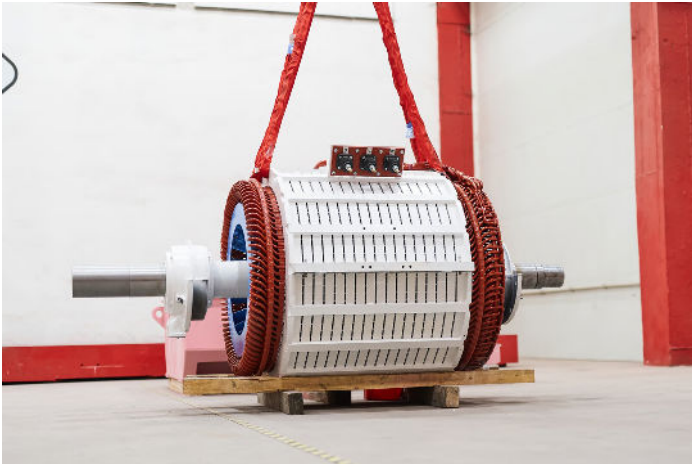




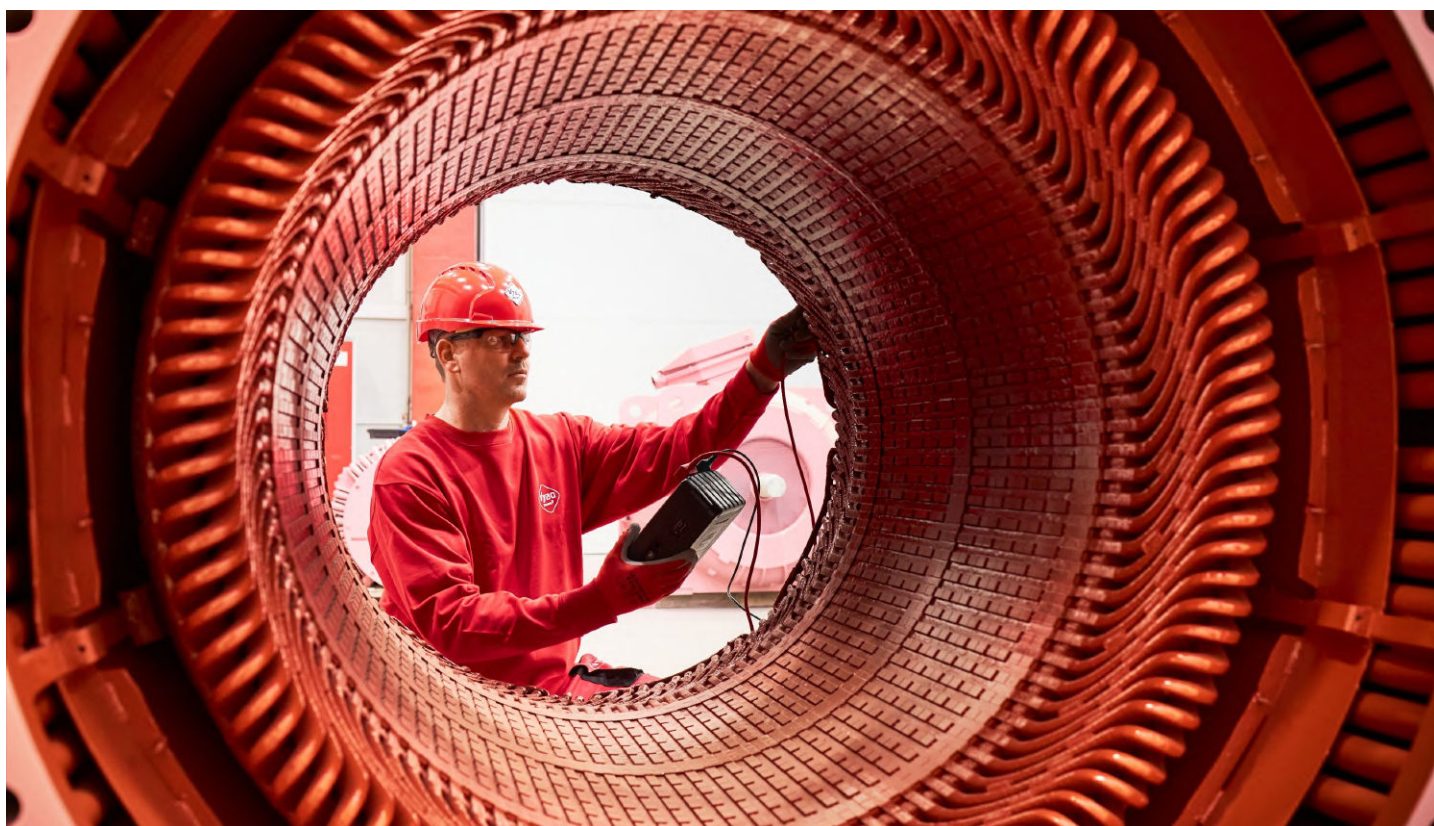












# Briefing of construction

A steel plate welded construction has used to reduce the frame weight and increase the rigidity, optimum construction design also makes series motors convenience for installation and maintenance.

One piece laminations for the stator and rotor are precision-stamped form low loss electrical steel, thus the iron loss is minimized and the efficiency is improved.

The insulation class of series motors is class F. The stator coil is a double layer formed coil, the stator core is stacked and assembled with coils outside the frame, coil braces are applied on the circumference of the stator coil ends with spacers inserted between coils to improve rigidity. After the connection between coils is made, the completed stator winding is placed in a vacuum tank and impregnated, then the stator winding is put into the stator frame and fixed with it.

The standard design of the rotor is of copper bar construction, depending on starting conditions, the rotor bar are made of copper or copper alloy. Advanced brazing technology of the rotor bars to the end rings insures mechanical integrity and results in uniform strength and electrical conductivity at the brazed joints. By swaging the rotor bars against the slot sides, the vibrations of rotor bars to electromagnetic force or centrifugal force are eliminated and insure long motor life.

For the frame size below shaft height 500mm, the cast aluminum rotor construction is also possible. Because of the tight fitness between the rotor conductor and slot sides, the heat generated in the rotor conductor is easy to be dissipated, the safety locked rotor time is longer and the permitted moment of inertia to be driven by the motor is bigger.

For 2P motors form H355~H450 and all 4~12P motors, the stanard designed series motors adopt anti-friction bearings, self-lubricated with grease or oil according to motor's frame size and operating speed, separate oil supply system is not needed. Split sleeve bearings are sed for 2Pmotor from H500~H630 or when specified by purchaser, they are either ring-lubricated or forced-oil lubricated depending pon the loading.

The rotor cores are shrunk onto the shaft and rotor coils are tightly fitted into the slots to minimize vibration. Advanced brazing technology of the rotor coils to coils insures high mechanical strength and good electrical conductivity at the brazed joints. The coil ends are supported by bandage. The rotor winding is vacuum pressure impregnated(VPI) and connected to the slip ring unit. This construction gives the rotor an excellent fit against centrifugal forces.

The slip ring unit is mounted outside the frame to the non-drive end in order to provide easy maintenance without disassembling the motor. As a result, the bearing are closer together, preventing any vibration. Carbon dust, caused by brush wear, is prevented from entering the motor due to the unit. The slip ring unit has a shaft mounted fan and an easily removable and washable filter located in the slip ring housing to collect the carbon dust caused by brush wear.





# Starting performance

H27R-ODP, H27R-WC and H27R series motors are applicable to drive various types of universal machines. If the equipment to be driven are water pumps or blowers and meet the following requests:

- (a) The terminal voltage is not less than 85% of its rated voltage during starting.
- (b) The resistance torque of the blower at rated motor speed is not greater than 35% of rated motor torque.
- (c) The moment of inertia of blower (converted to motor speed) should not exceed the value specified by J...in the Technical Data Table, our standard designed series motors may be selected as driven machines, that means the frame size and technical data in the Technical Data Table could be used by user.

Generally, the motor is allowed to start twice in succession with motor initially at ambient temperature natural shut down between two start or once at hot state. Additional starts after the above mentioned should be made one hour later the motor is shut down.

If the circumstance is beyond above conditions or the motor are to be used to drive other mechanical equipment, such as coal mills, belt conveyers, steel mills, hoists, etc, detailed technical information, consisting of motor's terminal voltage during starting, curve of resistance torque and moment of inertia of load (converted to motor rated speed), are necessary for manufacturer to check the design and determine whether a special design must be fulfilled. This work being done before placing an order assures reliable operation of the motor.



# Information for ordering

|                            |                                                     |
|----------------------------|-----------------------------------------------------|
| Type of motor (an example) | H27R-SR-ODP-560-6                                   |
| Rated power (kW)           | 1800                                                |
| Rated voltage (V)          | 10000                                               |
| Number of poles            | 6                                                   |
| Rated frequency (Hz)       | 50                                                  |
| Protection degree          | IP23                                                |
| Type of cooling            | IC01                                                |
| Type of mounting           | IMB3                                                |
| Duty type                  | S1                                                  |
| Direction of rotation      | Clockwise(View from shaft extension end)            |
| Location of terminal box   | On the right hand(Viewing from shaft extension end) |
| Load moment of inertia     | If needed                                           |
| Resistance curve of load   | If needed                                           |

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

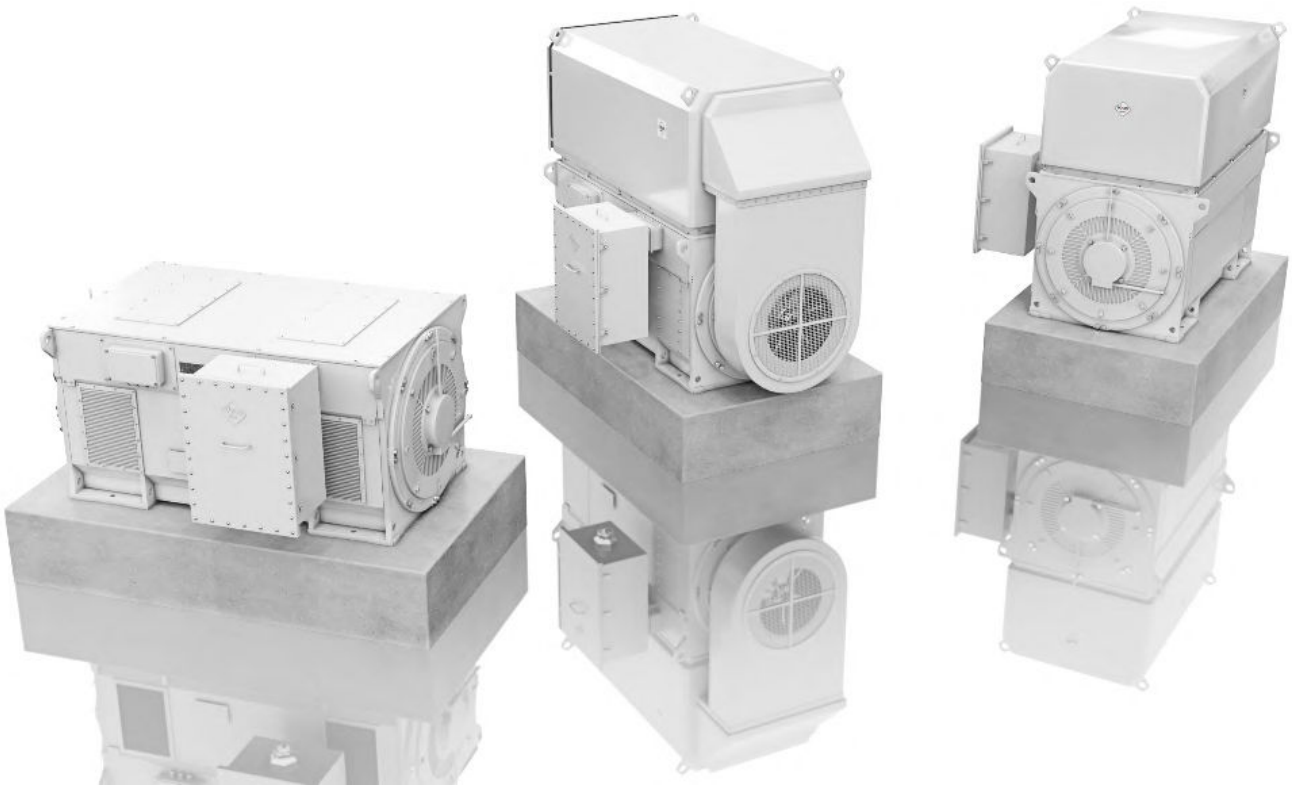
Notes:

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





# H27R - High voltage motors - modular types



## Electric motors H27R series

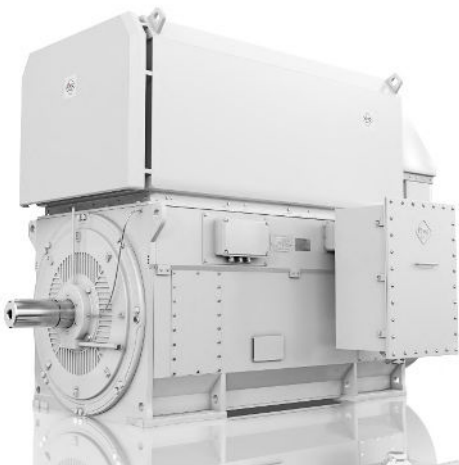
**Type of motor:** H27R (squirrel cage motor)  
**Frame sizes:** 355 mm - 1000 mm  
**Power range:** 132 kW - 10 000 kW  
**Voltage:** 2000 V - 13 800 V  
**Frame material:** welded steel frame  
**Protection:** IP 44, 54, 55, 65, 67  
**Cooling:** IC611, IC616, IC666, IC81W, IC86W, IC01, IC06

**Mounting:**  
**Possible:**

**Accessories:**

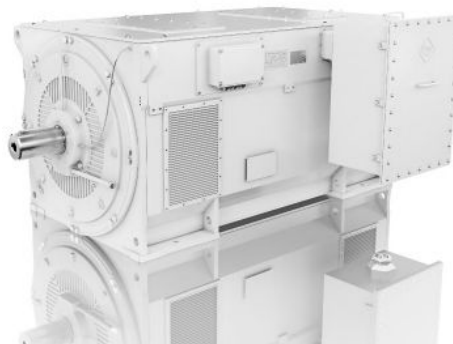
B3, B35, V1, IM V15  
Special winding of VFD use, can support several kinds of voltage and frequency  
PT100, PTC and other thermal elements can be chose to protect bearings and winding  
Heaters, anti-vibrations senzors and other

## Gallery - 3D



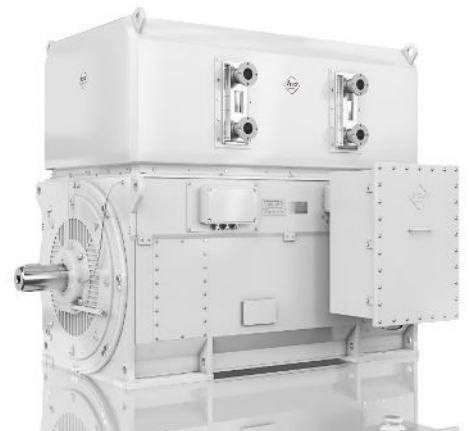
**TEFC (totally enclosed fan cooling)**

air-to-air  
IC 611, IC 616, IC 666



**Open drip proof cooling**

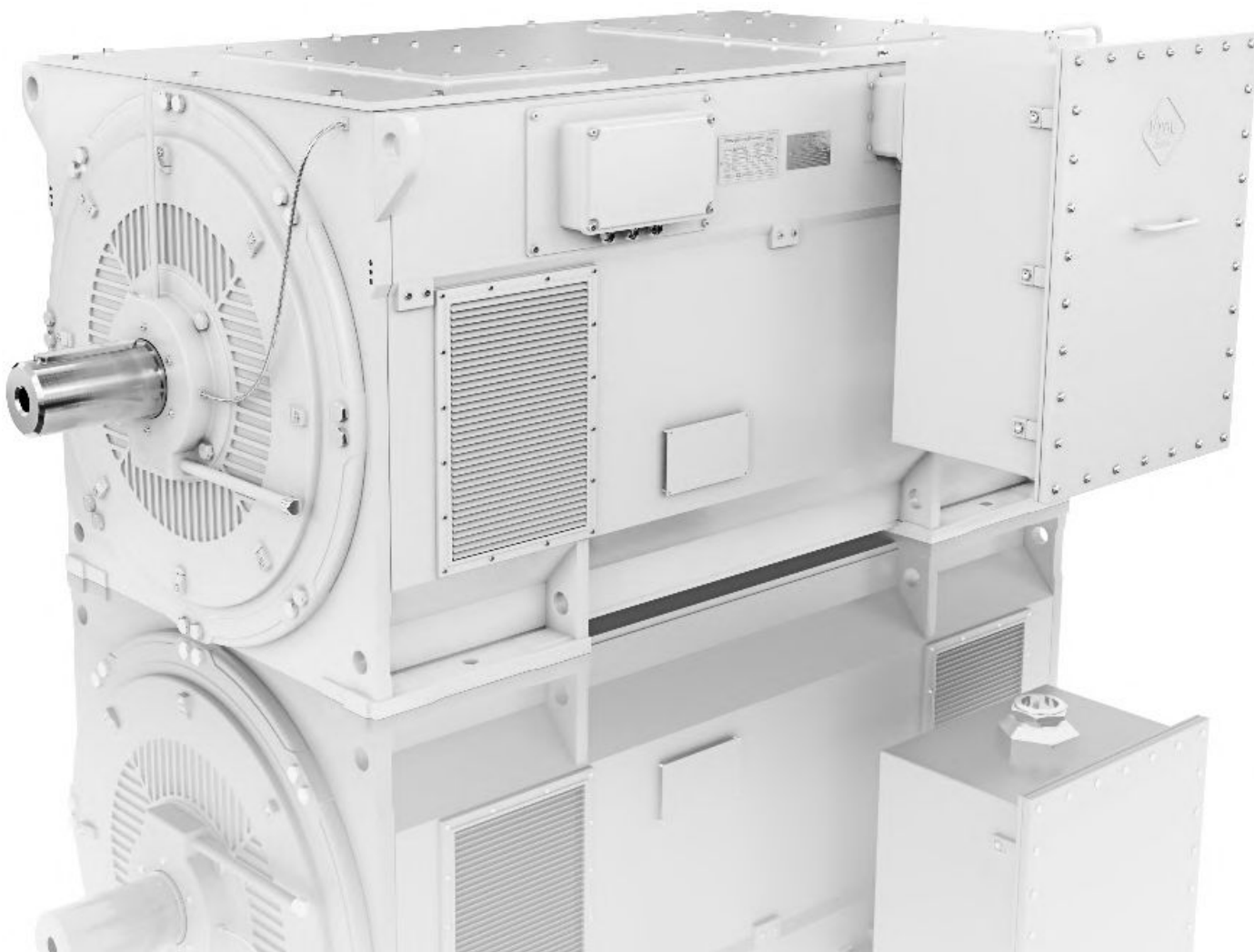
with open circuit ventilation  
IC 01, IC 06



**Water cooled**

air to water heat exchanger  
IC 81W, IC 86W

# H27R-ODP - High voltage motors - modular type



## Electric motors H27R-ODP series

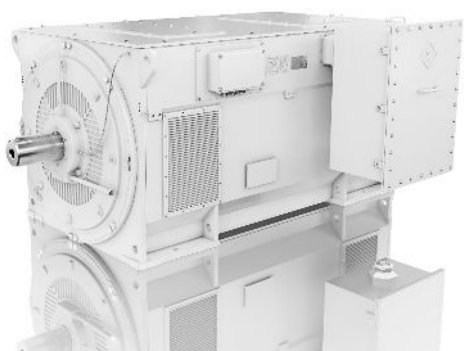
**Type of motor:** H27R-ODP  
**Frame sizes:** 315 mm - 1000 mm  
**Power range:** 110 kW - 10 000 kW  
**Voltage:** 2 000 V - 13 800 V  
**Frame material:** welded steel or cast iron  
**Protection:** IP23W, IP23, IP33  
**Cooling:** IC01, IC06

**Mounting:**  
**Possible:**

B3, B35, V1, IM V15  
Special winding of VFD use, can support several kinds of voltage and frequency  
PT100, PTC and other thermal elements can be chose to protect bearings and winding  
Heaters, anti-vibrations senzors and other

**Accessories:**

## Gallery - 3D





# Technical data for H27R-ODP series (6 KV)

| Type                   | Rated<br>output (kW) | Rated<br>current<br>(A) | Speed<br>(r/min) | Efficiency<br>(%) | Power<br>factor<br>(cosΦ) | Mmax/Mn | Mst/Mn | Ist/Mn | Jmotor<br>(Kg.m2) | Jload<br>(Kg.m2) | Weight (Kg)  |             |  |
|------------------------|----------------------|-------------------------|------------------|-------------------|---------------------------|---------|--------|--------|-------------------|------------------|--------------|-------------|--|
|                        |                      |                         |                  |                   |                           |         |        |        |                   |                  | H27R-<br>ODP | H27R-<br>WC |  |
| 2 pole electric motors |                      |                         |                  |                   |                           |         |        |        |                   |                  |              |             |  |
| H27R-ODP-3551-2        | 400                  | 45,8                    | 2980             | 95,4              | 0,88                      | 2,7     | 0,90   | 6,5    | 3,6               | 35               | 2010         | 2250        |  |
| H27R-ODP-3552-2        | 450                  | 50,9                    | 2980             | 95,6              | 0,89                      | 2,6     | 0,90   | 6,3    | 3,9               | 30               | 2050         | 2290        |  |
| H27R-ODP-3553-2        | 500                  | 56,5                    | 2976             | 95,7              | 0,89                      | 2,6     | 0,90   | 6,2    | 4,3               | 41               | 2120         | 2360        |  |
| H27R-ODP-3554-2        | 560                  | 62,5                    | 2976             | 95,8              | 0,90                      | 2,5     | 0,90   | 6,2    | 4,6               | 48               | 2160         | 2400        |  |
| H27R-ODP-4001-2        | 630                  | 71,0                    | 2981             | 96,0              | 0,89                      | 2,6     | 1,00   | 6,9    | 6,7               | 48               | 2800         | 3080        |  |
| H27R-ODP-4002-2        | 710                  | 79,9                    | 2981             | 96,1              | 0,89                      | 2,6     | 1,00   | 6,9    | 7,3               | 57               | 2880         | 3160        |  |
| H27R-ODP-4003-2        | 800                  | 89,9                    | 2982             | 96,2              | 0,89                      | 2,6     | 1,10   | 7,0    | 7,9               | 63               | 2990         | 3270        |  |
| H27R-ODP-4004-2        | 900                  | 101,0                   | 2982             | 96,3              | 0,89                      | 2,7     | 1,10   | 7,0    | 8,8               | 69               | 3090         | 3370        |  |
| H27R-ODP-4501-2        | 1000                 | 110,9                   | 2984             | 96,4              | 0,90                      | 2,9     | 0,78   | 6,9    | 11,2              | 71               | 3580         | 4230        |  |
| H27R-ODP-4502-2        | 1120                 | 122,7                   | 2983             | 96,5              | 0,91                      | 2,7     | 0,75   | 6,6    | 12,6              | 73               | 3740         | 4390        |  |
| H27R-ODP-4503-2        | 1250                 | 136,8                   | 2983             | 96,6              | 0,91                      | 2,6     | 0,73   | 6,4    | 13,9              | 76               | 3900         | 4550        |  |
| H27R-ODP-4504-2        | 1400                 | 151,4                   | 2982             | 96,7              | 0,92                      | 2,5     | 0,70   | 6,2    | 15,3              | 79               | 4060         | 4710        |  |
| H27R-ODP-5001-2        | 1600                 | 172,9                   | 2983             | 96,8              | 0,92                      | 2,7     | 0,64   | 6,4    | 19,5              | 83,5             | 4100         | 4860        |  |
| H27R-ODP-5002-2        | 1800                 | 194,5                   | 2984             | 96,8              | 0,92                      | 2,6     | 0,64   | 6,3    | 21,6              | 95,5             | 4300         | 5000        |  |
| H27R-ODP-5003-2        | 2000                 | 213,5                   | 2984             | 96,9              | 0,93                      | 2,6     | 0,65   | 6,3    | 23,7              | 111              | 4600         | 5300        |  |
| H27R-ODP-5004-2        | 2240                 | 238,9                   | 2985             | 97,0              | 0,93                      | 2,6     | 0,68   | 6,5    | 25,8              | 120              | 4900         | 5600        |  |
| H27R-ODP-5601-2        | 2500                 | 269,2                   | 2985             | 97,1              | 0,92                      | 2,5     | 0,62   | 6,1    | 36,7              | 131              | 7000         | 7750        |  |
| H27R-ODP-5602-2        | 2800                 | 301,3                   | 2986             | 97,2              | 0,92                      | 2,5     | 0,67   | 6,4    | 40,3              | 150              | 7250         | 8000        |  |
| H27R-ODP-5603-2        | 3150                 | 338,6                   | 2987             | 97,3              | 0,92                      | 2,7     | 0,73   | 6,8    | 44,0              | 170              | 7500         | 8250        |  |
| H27R-ODP-5604-2        | 3550                 | 381,2                   | 2988             | 97,4              | 0,92                      | 2,8     | 0,82   | 7,4    | 49,0              | 211              | 7750         | 8500        |  |
| 4 pole electric motors |                      |                         |                  |                   |                           |         |        |        |                   |                  |              |             |  |
| H27R-ODP-3551-4        | 400                  | 45,5                    | 1487             | 95,0              | 0,89                      | 2,2     | 0,87   | 5,8    | 6,9               | 143              | 2050         | 2290        |  |
| H27R-ODP-3552-4        | 450                  | 51,7                    | 1489             | 95,2              | 0,88                      | 2,4     | 1,00   | 6,4    | 7,5               | 170              | 2080         | 2380        |  |
| H27R-ODP-3553-4        | 500                  | 57,4                    | 1489             | 95,3              | 0,88                      | 2,4     | 0,98   | 6,3    | 8,1               | 204              | 2110         | 2410        |  |
| H27R-ODP-3554-4        | 560                  | 63,5                    | 1488             | 95,4              | 0,89                      | 2,2     | 0,94   | 6,0    | 9,1               | 234              | 2140         | 2440        |  |
| H27R-ODP-4001-4        | 630                  | 70,5                    | 1488             | 95,6              | 0,90                      | 2,3     | 0,90   | 6,1    | 15,4              | 243              | 2820         | 3170        |  |
| H27R-ODP-4002-4        | 710                  | 79,3                    | 1488             | 95,7              | 0,90                      | 2,2     | 0,90   | 5,9    | 17,3              | 261              | 2900         | 3250        |  |
| H27R-ODP-4003-4        | 800                  | 88,3                    | 1488             | 95,8              | 0,91                      | 2,2     | 0,90   | 5,9    | 19,2              | 292              | 3050         | 3340        |  |
| H27R-ODP-4004-4        | 900                  | 99,2                    | 1488             | 95,9              | 0,91                      | 2,2     | 0,90   | 6,0    | 21,0              | 326              | 3130         | 3450        |  |
| H27R-ODP-4501-4        | 1000                 | 112,6                   | 1491             | 96,0              | 0,89                      | 2,5     | 0,80   | 6,5    | 23,9              | 242              | 3660         | 4450        |  |
| H27R-ODP-4502-4        | 1120                 | 124,6                   | 1490             | 96,1              | 0,90                      | 2,3     | 0,76   | 6,0    | 26,5              | 287              | 3820         | 4610        |  |
| H27R-ODP-4503-4        | 1250                 | 138,9                   | 1491             | 96,2              | 0,90                      | 2,5     | 0,85   | 6,5    | 29,0              | 357              | 3980         | 4870        |  |
| H27R-ODP-4504-4        | 1400                 | 155,4                   | 1491             | 96,3              | 0,90                      | 2,3     | 0,80   | 6,2    | 31,6              | 378              | 4140         | 4960        |  |
| H27R-ODP-5001-4        | 1600                 | 175,5                   | 1490             | 96,4              | 0,91                      | 2,1     | 0,70   | 5,5    | 47,7              | 573              | 4500         | 5180        |  |



# Technical data H27R-ODP series (6 KV)

| Type                   | Rated<br>output (kW) | Rated<br>current<br>(A) | Speed<br>(r/min) | Efficiency<br>(%) | Power<br>factor<br>(cosΦ) | Mmax/Mn | Mst/Mn | Ist/Mn | Jmotor<br>(Kg.m2) | Jload<br>(Kg.m2) | Weight (Kg)  |             |  |
|------------------------|----------------------|-------------------------|------------------|-------------------|---------------------------|---------|--------|--------|-------------------|------------------|--------------|-------------|--|
|                        |                      |                         |                  |                   |                           |         |        |        |                   |                  | H27R-<br>ODP | H27R-<br>WC |  |
| 4 pole electric motors |                      |                         |                  |                   |                           |         |        |        |                   |                  |              |             |  |
| H27R-ODP-5002-4        | 1800                 | 197,2                   | 1490             | 96,5              | 0,91                      | 2,0     | 0,70   | 5,4    | 52,3              | 660              | 4600         | 5300        |  |
| H27R-ODP-5003-4        | 2000                 | 218,9                   | 1490             | 96,6              | 0,91                      | 2,0     | 0,71   | 5,4    | 57,0              | 753              | 4700         | 5400        |  |
| H27R-ODP-5004-4        | 2240                 | 244,9                   | 1490             | 96,7              | 0,91                      | 2,0     | 0,73   | 5,4    | 63,4              | 827              | 5000         | 5710        |  |
| H27R-ODP-5601-4        | 2500                 | 273,1                   | 1491             | 96,8              | 0,91                      | 2,1     | 0,73   | 5,6    | 70,0              | 890              | 7100         | 7850        |  |
| H27R-ODP-5602-4        | 2800                 | 305,5                   | 1491             | 96,9              | 0,91                      | 2,1     | 0,77   | 5,8    | 76,4              | 1020             | 7350         | 8200        |  |
| H27R-ODP-5603-4        | 3150                 | 343,3                   | 1492             | 97,0              | 0,91                      | 2,2     | 0,83   | 6,1    | 85,0              | 1130             | 7600         | 8400        |  |
| H27R-ODP-5604-4        | 3550                 | 386,6                   | 1492             | 97,1              | 0,91                      | 2,4     | 0,94   | 6,7    | 93,6              | 1190             | 7850         | 8600        |  |
| 6 pole electric motors |                      |                         |                  |                   |                           |         |        |        |                   |                  |              |             |  |
| H27R-ODP-3551-6        | 315                  | 37,4                    | 989              | 94,3              | 0,86                      | 2,1     | 0,90   | 5,4    | 12,2              | 428              | 2060         | 2460        |  |
| H27R-ODP-3552-6        | 355                  | 42,1                    | 988              | 94,4              | 0,86                      | 1,9     | 0,90   | 4,9    | 13,6              | 453              | 2100         | 2500        |  |
| H27R-ODP-3553-6        | 400                  | 47,4                    | 988              | 94,5              | 0,86                      | 1,8     | 0,80   | 4,5    | 15,1              | 527              | 2140         | 2540        |  |
| H27R-ODP-3554-6        | 450                  | 53,2                    | 989              | 94,6              | 0,86                      | 1,9     | 0,90   | 4,9    | 16,5              | 652              | 2170         | 2570        |  |
| H27R-ODP-4001-6        | 500                  | 59,0                    | 990              | 94,8              | 0,86                      | 1,9     | 0,90   | 5,1    | 20,3              | 711              | 2590         | 3040        |  |
| H27R-ODP-4002-6        | 560                  | 66,0                    | 989              | 94,9              | 0,86                      | 1,8     | 0,90   | 4,8    | 22,7              | 751              | 2690         | 3140        |  |
| H27R-ODP-4003-6        | 630                  | 74,2                    | 989              | 95,0              | 0,86                      | 1,8     | 0,80   | 4,6    | 25,2              | 839              | 2770         | 3220        |  |
| H27R-ODP-4004-6        | 710                  | 83,5                    | 989              | 95,1              | 0,86                      | 1,8     | 0,80   | 4,5    | 27,6              | 901              | 2980         | 3430        |  |
| H27R-ODP-4501-6        | 800                  | 94,0                    | 991              | 95,2              | 0,86                      | 1,9     | 1,00   | 5,4    | 32,7              | 934              | 3110         | 3910        |  |
| H27R-ODP-4502-6        | 900                  | 105,7                   | 991              | 95,3              | 0,86                      | 1,9     | 1,00   | 5,4    | 36,3              | 1060             | 3240         | 4040        |  |
| H27R-ODP-4503-6        | 1000                 | 117,3                   | 991              | 95,4              | 0,86                      | 1,9     | 1,00   | 5,6    | 39,8              | 1140             | 3370         | 4170        |  |
| H27R-ODP-4504-6        | 1120                 | 131,2                   | 992              | 95,5              | 0,86                      | 2,0     | 1,10   | 5,9    | 43,4              | 1250             | 3490         | 4290        |  |
| H27R-ODP-5001-6        | 1250                 | 142,8                   | 992              | 95,7              | 0,88                      | 2,2     | 1,00   | 6,0    | 64,3              | 1410             | 4100         | 5010        |  |
| H27R-ODP-5002-6        | 1400                 | 159,8                   | 992              | 95,8              | 0,88                      | 2,1     | 1,00   | 5,9    | 70,0              | 1600             | 4200         | 5110        |  |
| H27R-ODP-5003-6        | 1600                 | 180,4                   | 992              | 95,9              | 0,89                      | 2,0     | 0,90   | 5,6    | 78,0              | 1840             | 4500         | 5410        |  |
| H27R-ODP-5004-6        | 1800                 | 202,7                   | 992              | 96,0              | 0,89                      | 2,0     | 0,90   | 5,6    | 86,0              | 2000             | 4700         | 5610        |  |
| H27R-ODP-5601-6        | 2000                 | 225,0                   | 993              | 96,1              | 0,89                      | 1,9     | 0,70   | 5,1    | 107,0             | 2090             | 7185         | 8000        |  |
| H27R-ODP-5602-6        | 2240                 | 251,8                   | 993              | 96,2              | 0,89                      | 1,8     | 0,70   | 5,0    | 120,0             | 2150             | 7415         | 8300        |  |
| H27R-ODP-5603-6        | 2500                 | 280,7                   | 993              | 96,3              | 0,89                      | 1,9     | 0,73   | 5,2    | 132,0             | 2450             | 7670         | 8500        |  |
| H27R-ODP-5604-6        | 2800                 | 314,0                   | 994              | 96,4              | 0,89                      | 1,9     | 0,80   | 5,5    | 144,0             | 2750             | 7950         | 8780        |  |
| 8 pole electric motors |                      |                         |                  |                   |                           |         |        |        |                   |                  |              |             |  |
| H27R-ODP-3551-8        | 250                  | 31,8                    | 740              | 93,5              | 0,81                      | 2,0     | 1,00   | 4,6    | 14,9              | 830              | 2100         | 2500        |  |
| H27R-ODP-3552-8        | 280                  | 35,5                    | 740              | 93,7              | 0,81                      | 1,8     | 0,90   | 4,5    | 16,6              | 882              | 2140         | 2540        |  |
| H27R-ODP-3553-8        | 315                  | 39,9                    | 741              | 93,9              | 0,81                      | 1,9     | 0,90   | 4,7    | 18,2              | 969              | 2190         | 2590        |  |
| H27R-ODP-3554-8        | 355                  | 44,9                    | 741              | 94,0              | 0,81                      | 2,0     | 1,00   | 4,9    | 19,8              | 1120             | 2350         | 2750        |  |
| H27R-ODP-4001-8        | 400                  | 49,2                    | 741              | 94,2              | 0,83                      | 1,9     | 1,00   | 4,8    | 27,7              | 1340             | 2480         | 2930        |  |



# Technical data for H27R-ODP series (6 KV)

| Type                    | Rated<br>output (kW) | Rated<br>current<br>(A) | Speed<br>(r/min) | Efficiency<br>(%) | Power<br>factor<br>(cosΦ) | Mmax/Mn | Mst/Mn | Ist/Mn | Jmotor<br>(Kg.m2) | Jload<br>(Kg.m2) | Weight (Kg)  |             |
|-------------------------|----------------------|-------------------------|------------------|-------------------|---------------------------|---------|--------|--------|-------------------|------------------|--------------|-------------|
|                         |                      |                         |                  |                   |                           |         |        |        |                   |                  | H27R-<br>ODP | H27R-<br>WC |
| 8 pole electric motors  |                      |                         |                  |                   |                           |         |        |        |                   |                  |              |             |
| H27R-ODP-4002-8         | 450                  | 55,3                    | 741              | 94,3              | 0,83                      | 1,8     | 0,90   | 4,5    | 30,7              | 1520             | 2570         | 3020        |
| H27R-ODP-4003-8         | 500                  | 61,1                    | 741              | 94,8              | 0,83                      | 1,8     | 0,90   | 4,5    | 33,6              | 1710             | 2650         | 3100        |
| H27R-ODP-4004-8         | 560                  | 68,4                    | 741              | 94,9              | 0,83                      | 1,8     | 0,90   | 4,5    | 36,6              | 1910             | 2760         | 3210        |
| H27R-ODP-4501-8         | 630                  | 76,9                    | 742              | 95,0              | 0,83                      | 1,9     | 0,90   | 4,9    | 39,2              | 1490             | 3140         | 3940        |
| H27R-ODP-4502-8         | 710                  | 85,5                    | 742              | 95,1              | 0,84                      | 1,8     | 0,80   | 4,6    | 46,7              | 1660             | 3290         | 4090        |
| H27R-ODP-4503-8         | 800                  | 96,3                    | 742              | 95,2              | 0,84                      | 1,8     | 0,80   | 4,6    | 52,0              | 2100             | 3340         | 4140        |
| H27R-ODP-4504-8         | 900                  | 108,1                   | 743              | 95,4              | 0,84                      | 1,9     | 0,90   | 5,0    | 57,3              | 2260             | 3470         | 4270        |
| H27R-ODP-5001-8         | 1000                 | 120,0                   | 744              | 95,5              | 0,84                      | 2,1     | 1,10   | 5,7    | 90,0              | 2660             | 4000         | 4910        |
| H27R-ODP-5002-8         | 1120                 | 134,2                   | 744              | 95,6              | 0,84                      | 2,0     | 1,10   | 5,5    | 101,0             | 2840             | 4150         | 5060        |
| H27R-ODP-5003-8         | 1250                 | 149,6                   | 743              | 95,7              | 0,84                      | 1,9     | 1,00   | 5,3    | 111,0             | 3210             | 4350         | 5260        |
| H27R-ODP-5004-8         | 1400                 | 167,4                   | 743              | 95,8              | 0,84                      | 1,9     | 1,00   | 5,2    | 121,0             | 3610             | 4500         | 5410        |
| H27R-ODP-5601-8         | 1600                 | 188,9                   | 744              | 95,9              | 0,85                      | 1,8     | 0,80   | 4,8    | 168,0             | 3190             | 7270         | 8090        |
| H27R-ODP-5602-8         | 1800                 | 212,3                   | 743              | 96,0              | 0,85                      | 1,8     | 0,75   | 4,6    | 185,0             | 3560             | 7510         | 8380        |
| H27R-ODP-5603-8         | 2000                 | 235,6                   | 743              | 96,1              | 0,85                      | 1,8     | 0,77   | 4,7    | 202,0             | 4040             | 7750         | 8600        |
| H27R-ODP-5604-8         | 2240                 | 263,6                   | 744              | 96,2              | 0,85                      | 1,8     | 0,80   | 4,8    | 219,0             | 4360             | 8050         | 8890        |
| 10 pole electric motors |                      |                         |                  |                   |                           |         |        |        |                   |                  |              |             |
| H27R-ODP-4001-10        | 280                  | 39,1                    | 593              | 93,1              | 0,74                      | 2,2     | 1,30   | 5,4    | 30,7              | 1360             | 2570         | 3020        |
| H27R-ODP-4002-10        | 315                  | 42,7                    | 593              | 93,3              | 0,76                      | 2,0     | 1,20   | 5,1    | 34,0              | 1440             | 2650         | 3100        |
| H27R-ODP-4003-10        | 355                  | 46,8                    | 592              | 93,5              | 0,78                      | 1,9     | 1,10   | 4,8    | 37,3              | 1690             | 2760         | 3210        |
| H27R-ODP-4004-10        | 400                  | 52,7                    | 592              | 93,7              | 0,78                      | 1,8     | 1,00   | 4,6    | 40,6              | 1950             | 2890         | 3340        |
| H27R-ODP-4501-10        | 450                  | 58,9                    | 593              | 94,2              | 0,78                      | 1,9     | 1,00   | 4,7    | 49,6              | 2530             | 3060         | 3860        |
| H27R-ODP-4502-10        | 500                  | 65,4                    | 593              | 94,3              | 0,78                      | 1,9     | 0,90   | 4,6    | 54,0              | 2830             | 3140         | 3940        |
| H27R-ODP-4503-10        | 560                  | 72,3                    | 593              | 94,4              | 0,79                      | 1,8     | 0,90   | 4,5    | 60,0              | 3200             | 3270         | 4070        |
| H27R-ODP-4504-10        | 630                  | 81,2                    | 593              | 94,5              | 0,79                      | 1,8     | 0,90   | 4,4    | 66,0              | 3610             | 3330         | 4130        |
| H27R-ODP-5001-10        | 710                  | 91,2                    | 594              | 94,8              | 0,79                      | 1,8     | 1,00   | 5,0    | 90,7              | 3010             | 4000         | 4910        |
| H27R-ODP-5002-10        | 800                  | 102,7                   | 594              | 94,9              | 0,79                      | 1,8     | 1,00   | 4,9    | 101,0             | 3650             | 4150         | 5060        |
| H27R-ODP-5003-10        | 900                  | 115,4                   | 594              | 95,0              | 0,79                      | 1,9     | 1,00   | 5,1    | 111,0             | 4030             | 4300         | 5210        |
| H27R-ODP-5004-10        | 1000                 | 128,1                   | 594              | 95,1              | 0,79                      | 2,0     | 1,20   | 5,4    | 121,0             | 4890             | 4450         | 5315        |
| H27R-ODP-5601-10        | 1120                 | 139,6                   | 594              | 95,3              | 0,81                      | 1,8     | 0,90   | 4,5    | 168,0             | 6600             | 7210         | 8050        |
| H27R-ODP-5602-10        | 1250                 | 155,6                   | 594              | 95,4              | 0,81                      | 1,8     | 0,90   | 4,5    | 185,0             | 7200             | 7470         | 8300        |
| H27R-ODP-5603-10        | 1400                 | 174,1                   | 594              | 95,5              | 0,81                      | 1,8     | 0,90   | 4,4    | 202,0             | 8180             | 7680         | 8530        |
| H27R-ODP-5604-10        | 1600                 | 198,8                   | 594              | 95,6              | 0,81                      | 1,8     | 0,90   | 4,4    | 215,0             | 9230             | 7970         | 8820        |



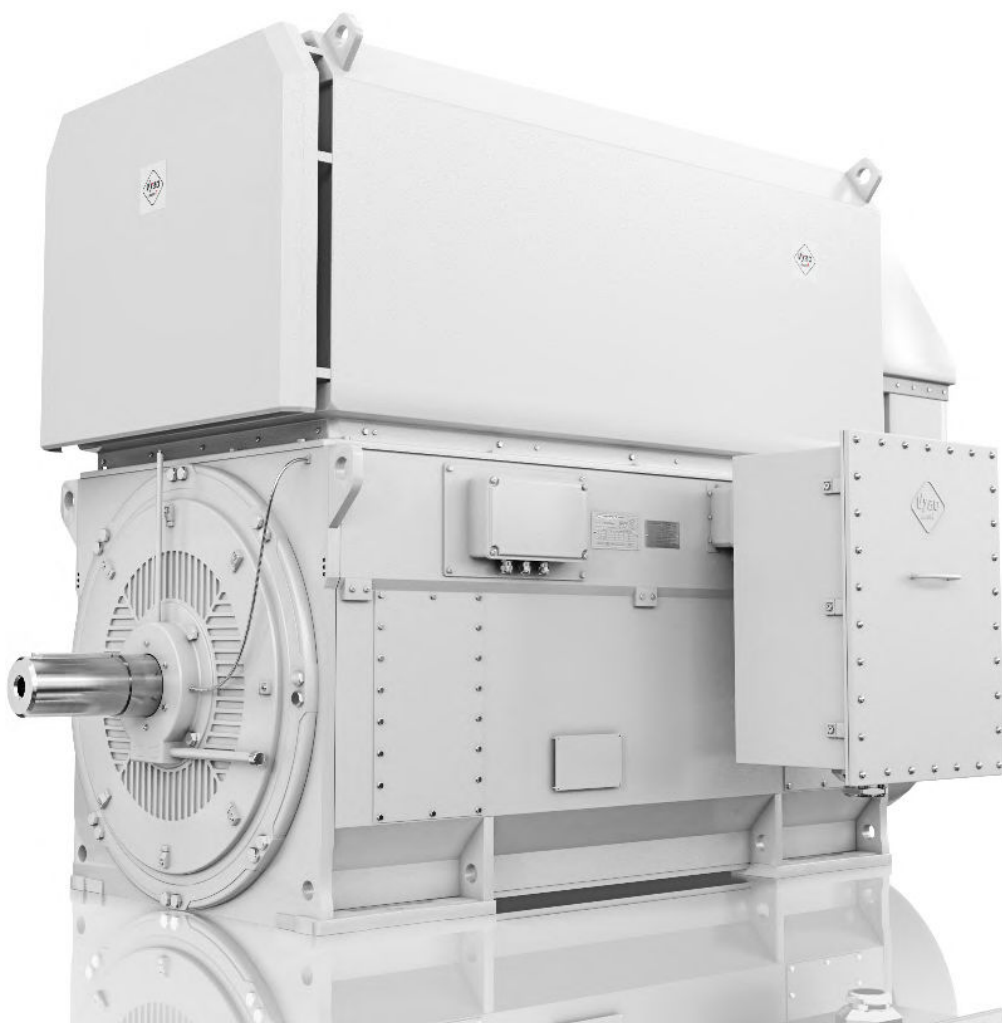


# Technical data H27R-ODP series (6 KV)

| Type                    | Rated<br>output (kW) | Rated<br>current<br>(A) | Speed<br>(r/min) | Efficiency<br>(%) | Power<br>factor<br>(cosΦ) | Mmax/Mn | Mst/Mn | Ist/Mn | Jmotor<br>(Kg.m2) | Jload<br>(Kg.m2) | Weight (Kg)  |             |  |
|-------------------------|----------------------|-------------------------|------------------|-------------------|---------------------------|---------|--------|--------|-------------------|------------------|--------------|-------------|--|
|                         |                      |                         |                  |                   |                           |         |        |        |                   |                  | H27R-<br>ODP | H27R-<br>WC |  |
| 12 pole electric motors |                      |                         |                  |                   |                           |         |        |        |                   |                  |              |             |  |
| H27R-ODP-4001-12        | 250                  | 35,0                    | 495              | 93,0              | 0,74                      | 2,1     | 1,00   | 4,8    | 32,8              | 2060             | 2960         | 2510        |  |
| H27R-ODP-4002-12        | 280                  | 38,1                    | 494              | 93,1              | 0,76                      | 2,0     | 0,90   | 4,6    | 36,0              | 2160             | 2600         | 3070        |  |
| H27R-ODP-4003-12        | 315                  | 42,2                    | 494              | 93,3              | 0,77                      | 1,9     | 0,80   | 4,4    | 39,2              | 2500             | 3200         | 2750        |  |
| H27R-ODP-4501-12        | 355                  | 47,3                    | 494              | 93,7              | 0,77                      | 1,9     | 0,90   | 4,4    | 46,4              | 3050             | 3170         | 3970        |  |
| H27R-ODP-4502-12        | 400                  | 53,3                    | 493              | 93,8              | 0,77                      | 1,8     | 0,80   | 4,3    | 50,5              | 3170             | 3260         | 4060        |  |
| H27R-ODP-4503-12        | 450                  | 59,9                    | 494              | 93,9              | 0,77                      | 2,0     | 0,90   | 4,7    | 56,2              | 4010             | 3340         | 4140        |  |
| H27R-ODP-4504-12        | 500                  | 66,5                    | 494              | 94,0              | 0,77                      | 2,0     | 0,90   | 4,7    | 61,9              | 4540             | 3410         | 4210        |  |
| H27R-ODP-5001-12        | 560                  | 73,3                    | 493              | 94,2              | 0,78                      | 1,9     | 0,90   | 4,4    | 90,8              | 6090             | 4000         | 4900        |  |
| H27R-ODP-5002-12        | 630                  | 81,4                    | 493              | 94,3              | 0,79                      | 1,8     | 0,80   | 4,3    | 101,0             | 6630             | 4100         | 5000        |  |
| H27R-ODP-5003-12        | 710                  | 91,6                    | 493              | 94,4              | 0,79                      | 1,8     | 0,90   | 4,3    | 111,0             | 7410             | 4250         | 5150        |  |
| H27R-ODP-5004-12        | 800                  | 103,1                   | 493              | 94,5              | 0,79                      | 1,9     | 0,90   | 4,5    | 122,0             | 8220             | 4400         | 5300        |  |
| H27R-ODP-5601-12        | 900                  | 114,2                   | 494              | 94,8              | 0,80                      | 1,8     | 1,00   | 4,7    | 168,0             | 10800            | 7200         | 8000        |  |
| H27R-ODP-5602-12        | 1000                 | 125,2                   | 494              | 94,9              | 0,81                      | 1,8     | 1,00   | 4,6    | 186,0             | 12000            | 7420         | 8260        |  |
| H27R-ODP-5603-12        | 1120                 | 140,1                   | 494              | 95,0              | 0,81                      | 1,8     | 1,00   | 4,6    | 203,0             | 13500            | 7610         | 8450        |  |
| H27R-ODP-5604-12        | 1250                 | 156,1                   | 494              | 95,1              | 0,81                      | 1,8     | 1,00   | 4,7    | 220,0             | 15100            | 7880         | 8730        |  |



# H27R- Medium and high voltage motors - modular type



## Electric motors H27R series

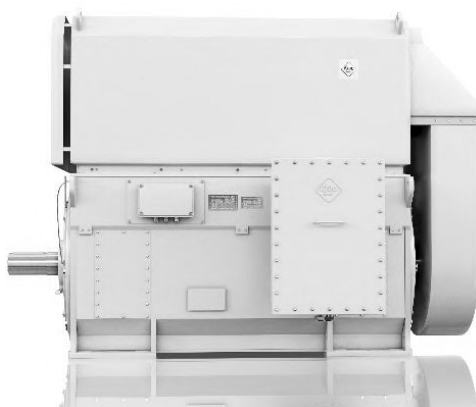
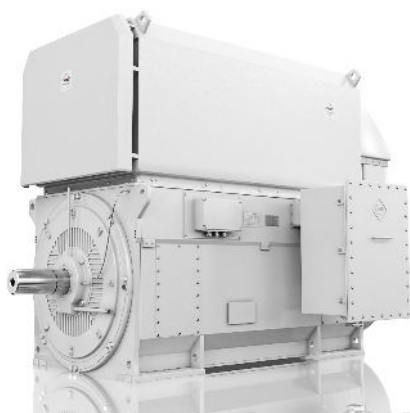
**Type of motor:** H27R  
**Frame sizes:** 315 mm - 1 000 mm  
**Power range:** 110 kW - 10 000 kW  
**Voltage:** 2 000 V - 13 800 V  
**Frame material:** welded steel or cast iron  
**Protection:** IP44, IP55, IP56, IP65, IP67  
**Cooling:** IC611, IC616, IC666

**Mounting:**  
**Possible:**

B3, B35, V1, IM V15  
Special winding of VFD use, can support several kinds of voltage and frequency  
PT100, PTC and other thermal elements can be chose to protect bearings and winding Heaters, anti-vibrations senzors and other

**Accessories:**

## Gallery - 3D



# Technical data for H27R series (6 KV)

| Type                   | Rated output (kW) | Rated current (A) | Speed (r/min) | Efficiency (%) | Power factor (cosΦ) | Mmax/Mn | Mst/Mn | Ist/Mn | Jmotor (Kg.m2) | Jload (Kg.m2) | Weight (kg) |
|------------------------|-------------------|-------------------|---------------|----------------|---------------------|---------|--------|--------|----------------|---------------|-------------|
| 2 pole electric motors |                   |                   |               |                |                     |         |        |        |                |               |             |
| H27R-3551-2            | 355               | 41,9              | 2981          | 94,9           | 0,86                | 3,2     | 1,00   | 7,3    | 3,6            | 53            | 2250        |
| H27R-3552-2            | 400               | 46,5              | 2980          | 95,2           | 0,87                | 3,0     | 0,90   | 7,1    | 3,9            | 62,3          | 2300        |
| H27R-3553-2            | 450               | 51,6              | 2980          | 95,4           | 0,88                | 2,9     | 0,90   | 6,9    | 4,3            | 63,9          | 2350        |
| H27R-3554-2            | 500               | 57,2              | 2980          | 95,6           | 0,88                | 2,9     | 0,90   | 6,9    | 4,6            | 76,5          | 2400        |
| H27R-4001-2            | 560               | 62,6              | 2984          | 95,7           | 0,90                | 2,7     | 0,80   | 6,7    | 6,7            | 53            | 2700        |
| H27R-4002-2            | 630               | 70,3              | 2984          | 95,8           | 0,90                | 2,6     | 0,80   | 6,6    | 7,3            | 60            | 2780        |
| H27R-4003-2            | 710               | 79,1              | 2984          | 96,0           | 0,90                | 2,6     | 0,80   | 6,7    | 7,9            | 68            | 2900        |
| H27R-4004-2            | 800               | 89,0              | 2984          | 96,1           | 0,90                | 2,6     | 0,80   | 6,6    | 8,8            | 77            | 3000        |
| H27R-4501-2            | 900               | 100,0             | 2986          | 96,2           | 0,90                | 3,1     | 0,70   | 7,1    | 12,6           | 59            | 4000        |
| H27R-4502-2            | 1000              | 111,0             | 2986          | 96,3           | 0,90                | 3,0     | 0,70   | 7,0    | 13,9           | 61            | 4300        |
| H27R-4503-2            | 1120              | 122,9             | 2986          | 96,4           | 0,91                | 2,9     | 0,70   | 6,9    | 15,3           | 75            | 4600        |
| H27R-4504-2            | 1250              | 137,0             | 2986          | 96,5           | 0,91                | 2,9     | 0,70   | 6,9    | 16,6           | 77,7          | 4900        |
| H27R-5001-2            | 1400              | 153,2             | 2988          | 96,6           | 0,91                | 2,9     | 0,60   | 6,7    | 21,2           | 93,7          | 5200        |
| H27R-5002-2            | 1600              | 175,0             | 2988          | 96,7           | 0,91                | 2,8     | 0,60   | 6,6    | 23,5           | 108           | 5440        |
| H27R-5003-2            | 1800              | 196,6             | 2988          | 96,8           | 0,91                | 2,9     | 0,60   | 6,8    | 25,8           | 119           | 5650        |
| H27R-5004-2            | 2000              | 211,4             | 2989          | 96,9           | 0,91                | 3,0     | 0,70   | 7,1    | 28,0           | 136           | 5880        |
| H27R-5601-2            | 2240              | 241,8             | 2987          | 96,9           | 0,92                | 2,4     | 0,50   | 5,6    | 37,0           | 139           | 6800        |
| H27R-5602-2            | 2500              | 269,6             | 2988          | 97,0           | 0,92                | 2,5     | 0,52   | 5,9    | 41,0           | 156           | 6900        |
| H27R-5603-2            | 2800              | 301,6             | 2989          | 97,1           | 0,92                | 2,6     | 0,59   | 6,4    | 45,0           | 180           | 7160        |
| H27R-5604-2            | 3150              | 338,9             | 2989          | 97,2           | 0,92                | 2,9     | 0,66   | 7,0    | 50,0           | 224           | 7450        |
| 4 pole electric motors |                   |                   |               |                |                     |         |        |        |                |               |             |
| H27R-3551-4            | 355               | 40,6              | 1487          | 94,5           | 0,89                | 2,2     | 0,85   | 5,7    | 7,0            | 205           | 2500        |
| H27R-3552-4            | 400               | 45,7              | 1488          | 94,6           | 0,89                | 2,4     | 0,90   | 6,2    | 7,6            | 247           | 2550        |
| H27R-3553-4            | 450               | 51,4              | 1488          | 94,7           | 0,89                | 2,3     | 0,90   | 6,0    | 8,2            | 256           | 2600        |
| H27R-3554-4            | 500               | 57,0              | 1488          | 94,8           | 0,89                | 2,2     | 0,90   | 5,7    | 9,0            | 314           | 2650        |
| H27R-4001-4            | 560               | 63,1              | 1489          | 94,9           | 0,90                | 2,2     | 0,90   | 6,1    | 18,0           | 328           | 2740        |
| H27R-4002-4            | 630               | 70,9              | 1489          | 95,0           | 0,90                | 2,2     | 0,90   | 6,0    | 20,0           | 367           | 2800        |
| H27R-4003-4            | 710               | 79,8              | 1489          | 95,1           | 0,90                | 2,2     | 0,90   | 6,0    | 21,5           | 409           | 2870        |
| H27R-4004-4            | 800               | 89,8              | 1490          | 95,2           | 0,90                | 2,4     | 1,00   | 6,5    | 24,0           | 460           | 2990        |
| H27R-4501-4            | 900               | 102,1             | 1490          | 95,3           | 0,89                | 2,0     | 0,70   | 5,5    | 21,0           | 402           | 4400        |
| H27R-4502-4            | 1000              | 113,3             | 1490          | 95,4           | 0,89                | 2,0     | 0,70   | 5,5    | 24,0           | 444           | 4560        |
| H27R-4503-4            | 1120              | 126,8             | 1490          | 95,5           | 0,89                | 2,1     | 0,76   | 5,7    | 26,5           | 507           | 4720        |
| H27R-4504-4            | 1250              | 141,4             | 1491          | 95,6           | 0,89                | 2,2     | 0,80   | 6,0    | 29,0           | 574           | 4890        |
| H27R-5001-4            | 1400              | 156,4             | 1492          | 95,7           | 0,90                | 2,4     | 0,80   | 6,2    | 51,0           | 684           | 5640        |





# Technical data H27R series (6 KV)

| Type                   | Rated output (kW) | Rated current (A) | Speed (r/min) | Efficiency (%) | Power factor (cosΦ) | Mmax/Mn | Mst/Mn | Ist/Mn | Jmotor (Kg.m2) | Jload (Kg.m2) | Weight (kg) |
|------------------------|-------------------|-------------------|---------------|----------------|---------------------|---------|--------|--------|----------------|---------------|-------------|
| 4 pole electric motors |                   |                   |               |                |                     |         |        |        |                |               |             |
| H27R-5002-4            | 1600              | 178,6             | 1491          | 95,8           | 0,90                | 2,2     | 0,80   | 6,0    | 56,0           | 773           | 5760        |
| H27R-5003-4            | 1800              | 200,7             | 1491          | 95,9           | 0,90                | 2,2     | 0,80   | 6,0    | 61,0           | 883           | 5850        |
| H27R-5004-4            | 2000              | 222,7             | 1491          | 96,0           | 0,90                | 2,2     | 0,80   | 6,0    | 68,0           | 980           | 6030        |
| H27R-5601-4            | 2240              | 246,5             | 1493          | 96,1           | 0,91                | 2,3     | 0,70   | 6,3    | 70,0           | 805           | 7800        |
| H27R-5602-4            | 2500              | 274,8             | 1494          | 96,2           | 0,91                | 2,4     | 0,80   | 6,5    | 76,0           | 927           | 8050        |
| H27R-5603-4            | 2800              | 307,5             | 1494          | 96,3           | 0,91                | 2,4     | 0,80   | 6,5    | 85,0           | 1030          | 8300        |
| H27R-5604-4            | 3150              | 345,5             | 1494          | 96,4           | 0,91                | 2,6     | 0,90   | 7,0    | 93,0           | 1080          | 8560        |
| 6 pole electric motors |                   |                   |               |                |                     |         |        |        |                |               |             |
| H27R-3551-6            | 280               | 33,8              | 991           | 93,8           | 0,85                | 2,4     | 1,10   | 6,0    | 12,0           | 448           | 2480        |
| H27R-3552-6            | 315               | 37,5              | 990           | 93,9           | 0,86                | 2,2     | 1,00   | 5,6    | 13,4           | 478           | 2550        |
| H27R-3553-6            | 355               | 42,3              | 989           | 94,0           | 0,86                | 2,0     | 0,90   | 5,1    | 15,0           | 562           | 2610        |
| H27R-3554-6            | 400               | 47,6              | 990           | 94,1           | 0,86                | 2,2     | 1,00   | 5,6    | 16,0           | 688           | 2665        |
| H27R-4001-6            | 450               | 53,4              | 992           | 94,3           | 0,86                | 2,3     | 1,00   | 5,9    | 19,6           | 663           | 2700        |
| H27R-4002-6            | 500               | 59,3              | 991           | 94,4           | 0,86                | 2,1     | 0,90   | 5,7    | 22,0           | 706           | 2800        |
| H27R-4003-6            | 560               | 66,3              | 991           | 94,5           | 0,86                | 2,0     | 0,90   | 5,4    | 24,4           | 796           | 2895        |
| H27R-4004-6            | 630               | 73,7              | 991           | 94,6           | 0,87                | 2,0     | 0,86   | 5,2    | 27,2           | 893           | 3020        |
| H27R-4501-6            | 710               | 82,9              | 992           | 94,7           | 0,87                | 2,0     | 1,00   | 5,5    | 37,0           | 1040          | 4380        |
| H27R-4502-6            | 800               | 93,3              | 992           | 94,8           | 0,87                | 2,0     | 1,00   | 5,5    | 40,0           | 1170          | 4540        |
| H27R-4503-6            | 900               | 104,9             | 992           | 94,9           | 0,87                | 2,0     | 1,00   | 5,6    | 44,0           | 1250          | 4690        |
| H27R-4504-6            | 1000              | 115,7             | 992           | 95,0           | 0,87                | 2,1     | 1,10   | 6,0    | 48,0           | 1390          | 4810        |
| H27R-5001-6            | 1120              | 130,3             | 994           | 95,1           | 0,87                | 2,4     | 1,10   | 6,7    | 64,0           | 1420          | 5355        |
| H27R-5002-6            | 1250              | 145,2             | 994           | 95,2           | 0,87                | 2,3     | 1,10   | 6,6    | 70,0           | 1620          | 5440        |
| H27R-5003-6            | 1400              | 162,5             | 994           | 95,3           | 0,87                | 2,2     | 1,10   | 6,4    | 78,0           | 1880          | 5700        |
| H27R-5004-6            | 1600              | 185,5             | 994           | 95,4           | 0,87                | 2,2     | 1,10   | 6,2    | 86,0           | 2040          | 5880        |
| H27R-5601-6            | 1800              | 205,9             | 994           | 95,6           | 0,88                | 2,1     | 0,80   | 5,7    | 107,0          | 1990          | 7500        |
| H27R-5602-6            | 2000              | 228,5             | 994           | 95,7           | 0,88                | 2,0     | 0,80   | 5,7    | 120,0          | 2280          | 7850        |
| H27R-5603-6            | 2240              | 252,5             | 994           | 95,9           | 0,89                | 2,0     | 0,80   | 5,8    | 132,0          | 2590          | 8100        |
| H27R-5604-6            | 2500              | 281,3             | 994           | 96,1           | 0,89                | 2,2     | 0,90   | 6,0    | 144,0          | 2890          | 8360        |
| 8 pole electric motors |                   |                   |               |                |                     |         |        |        |                |               |             |
| H27R-3551-8            | 220               | 27,2              | 740           | 92,7           | 0,84                | 2,0     | 1,20   | 5,2    | 13,0           | 886           | 2510        |
| H27R-3552-8            | 250               | 30,9              | 739           | 92,8           | 0,84                | 2,0     | 1,20   | 5,1    | 15,0           | 1010          | 2580        |
| H27R-3553-8            | 280               | 34,5              | 739           | 93,1           | 0,84                | 2,0     | 1,20   | 5,1    | 16,0           | 1250          | 2650        |
| H27R-3554-8            | 315               | 38,7              | 740           | 93,2           | 0,84                | 2,0     | 1,20   | 5,3    | 18,0           | 1320          | 2730        |
| H27R-4001-8            | 355               | 44,2              | 742           | 94,2           | 0,82                | 2,1     | 1,10   | 5,4    | 27,0           | 1370          | 2730        |



# Technical data for H27R series (6 KV)

| Type                    | Rated output (kW) | Rated current (A) | Speed (r/min) | Efficiency (%) | Power factor (cosΦ) | Mmax/Mn | Mst/Mn | Ist/Mn | Jmotor (Kg.m2) | Jload (Kg.m2) | Weight (kg) |
|-------------------------|-------------------|-------------------|---------------|----------------|---------------------|---------|--------|--------|----------------|---------------|-------------|
| 8 pole electric motors  |                   |                   |               |                |                     |         |        |        |                |               |             |
| H27R-4002-8             | 400               | 49,2              | 742           | 94,3           | 0,83                | 2,0     | 1,00   | 5,1    | 30,0           | 1560          | 2785        |
| H27R-4003-8             | 450               | 54,6              | 742           | 94,4           | 0,84                | 2,0     | 1,00   | 5,0    | 33,0           | 1750          | 2840        |
| H27R-4004-8             | 500               | 60,6              | 742           | 94,5           | 0,84                | 2,0     | 1,00   | 5,0    | 36,0           | 1970          | 2910        |
| H27R-4501-8             | 560               | 67,8              | 742           | 94,6           | 0,84                | 1,8     | 0,70   | 4,5    | 42,0           | 1530          | 4560        |
| H27R-4502-8             | 630               | 76,2              | 742           | 94,7           | 0,84                | 1,8     | 0,70   | 4,4    | 46,0           | 1660          | 4650        |
| H27R-4503-8             | 710               | 85,6              | 742           | 95,0           | 0,84                | 1,8     | 0,70   | 4,5    | 50,0           | 1850          | 4740        |
| H27R-4504-8             | 800               | 96,3              | 743           | 95,2           | 0,84                | 1,8     | 0,70   | 4,6    | 56,0           | 2070          | 4840        |
| H27R-5001-8             | 900               | 106,9             | 744           | 95,3           | 0,85                | 2,1     | 1,00   | 5,6    | 90,0           | 1850          | 5110        |
| H27R-5002-8             | 1000              | 118,7             | 744           | 95,4           | 0,85                | 2,0     | 0,90   | 5,3    | 100,0          | 2260          | 5280        |
| H27R-5003-8             | 1120              | 132,8             | 744           | 95,5           | 0,85                | 2,2     | 1,00   | 5,9    | 111,0          | 2650          | 5430        |
| H27R-5004-8             | 1250              | 148,0             | 744           | 95,6           | 0,85                | 2,1     | 1,00   | 5,8    | 121,0          | 2980          | 5660        |
| H27R-5601-8             | 1400              | 165,6             | 744           | 95,7           | 0,85                | 1,9     | 0,70   | 4,9    | 159,0          | 3190          | 7500        |
| H27R-5602-8             | 1600              | 189,1             | 744           | 95,8           | 0,85                | 1,8     | 0,70   | 4,7    | 175,0          | 3540          | 7750        |
| H27R-5603-8             | 1800              | 212,5             | 744           | 95,9           | 0,85                | 1,8     | 0,70   | 4,7    | 191,0          | 3980          | 8000        |
| H27R-5604-8             | 2000              | 235,8             | 744           | 96,0           | 0,85                | 1,8     | 0,75   | 4,9    | 207,0          | 4310          | 8250        |
| 10 pole electric motors |                   |                   |               |                |                     |         |        |        |                |               |             |
| H27R-4001-10            | 250               | 34,1              | 593           | 92,9           | 0,76                | 2,1     | 1,30   | 5,3    | 31,0           | 1410          | 2810        |
| H27R-4002-10            | 280               | 37,6              | 593           | 93,0           | 0,77                | 1,9     | 1,20   | 5,0    | 34,0           | 1510          | 2860        |
| H27R-4003-10            | 315               | 42,3              | 593           | 93,1           | 0,77                | 2,0     | 1,30   | 5,3    | 37,0           | 1810          | 2930        |
| H27R-4004-10            | 355               | 47,5              | 593           | 93,3           | 0,77                | 1,9     | 1,30   | 5,0    | 41,0           | 2100          | 3010        |
| H27R-4501-10            | 400               | 53,3              | 594           | 93,8           | 0,77                | 2,1     | 1,10   | 5,2    | 50,0           | 2630          | 4670        |
| H27R-4502-10            | 450               | 59,8              | 594           | 94,0           | 0,77                | 2,1     | 1,00   | 5,0    | 54,0           | 2940          | 4760        |
| H27R-4503-10            | 500               | 65,6              | 594           | 94,1           | 0,78                | 2,0     | 1,00   | 4,9    | 60,0           | 3340          | 4860        |
| H27R-4504-10            | 560               | 73,3              | 594           | 94,3           | 0,78                | 2,0     | 1,00   | 4,9    | 66,0           | 3790          | 4960        |
| H27R-5001-10            | 630               | 82,2              | 594           | 94,6           | 0,78                | 1,9     | 0,90   | 4,7    | 83,0           | 4170          | 5220        |
| H27R-5002-10            | 710               | 92,5              | 594           | 94,7           | 0,78                | 1,9     | 0,90   | 4,7    | 91,0           | 4710          | 5375        |
| H27R-5003-10            | 800               | 104,0             | 594           | 94,9           | 0,78                | 1,8     | 0,90   | 4,7    | 101,0          | 5390          | 5535        |
| H27R-5004-10            | 900               | 116,9             | 594           | 95,0           | 0,78                | 1,9     | 0,90   | 4,8    | 111,0          | 5890          | 5760        |
| H27R-5601-10            | 1000              | 124,9             | 595           | 95,1           | 0,81                | 2,1     | 0,90   | 5,2    | 168,0          | 6910          | 7470        |
| H27R-5602-10            | 1120              | 139,8             | 595           | 95,2           | 0,81                | 2,0     | 0,90   | 5,0    | 185,0          | 7550          | 7690        |
| H27R-5603-10            | 1250              | 155,8             | 595           | 95,3           | 0,81                | 2,0     | 0,90   | 5,0    | 202,0          | 8600          | 7920        |
| H27R-5604-10            | 1400              | 194,3             | 595           | 95,4           | 0,81                | 2,0     | 0,90   | 5,1    | 219,0          | 9780          | 8140        |



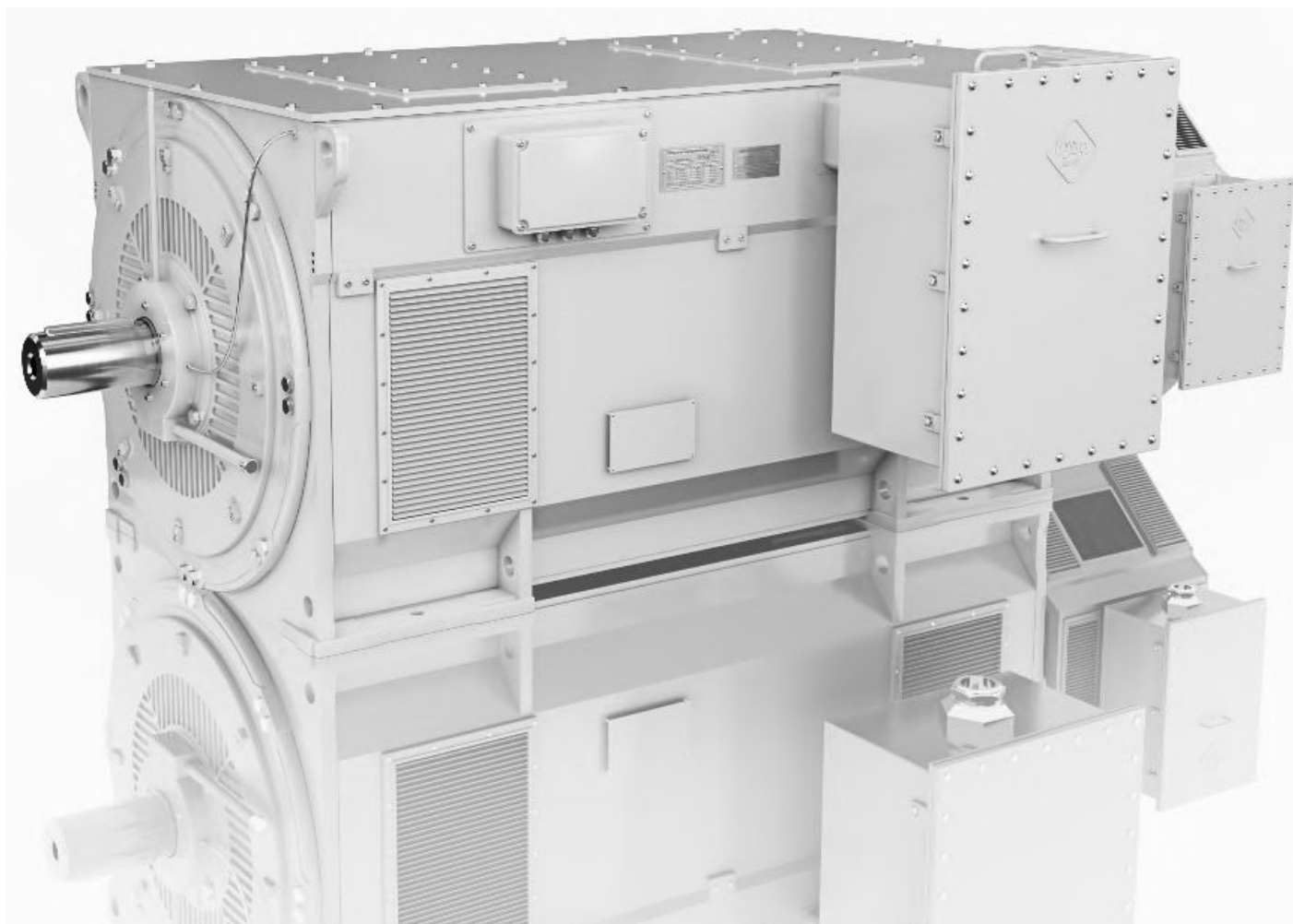
# Technical data H27R series (6 KV)

| Type                    | Rated<br>output (kW) | Rated<br>current (A) | Speed (r/min) | Efficiency<br>(%) | Power<br>factor<br>(cosΦ) | Mmax/Mn | Mst/Mn | Ist/Mn | Jmotor<br>(Kg.m2) | Jload<br>(Kg.m2) | Weight (kg) |
|-------------------------|----------------------|----------------------|---------------|-------------------|---------------------------|---------|--------|--------|-------------------|------------------|-------------|
| 12 pole electric motors |                      |                      |               |                   |                           |         |        |        |                   |                  |             |
| H27R-4001-12            | 220                  | 30,0                 | 493           | 92,8              | 0,76                      | 2,1     | 1,10   | 4,7    | 33,0              | 2600             | 2830        |
| H27R-4002-12            | 250                  | 34,1                 | 493           | 92,9              | 0,76                      | 2,2     | 1,20   | 4,9    | 36,0              | 2740             | 2890        |
| H27R-4003-12            | 280                  | 38,1                 | 493           | 93,0              | 0,76                      | 2,0     | 1,10   | 4,7    | 39,0              | 3200             | 2960        |
| H27R-4501-12            | 315                  | 42,2                 | 494           | 93,2              | 0,77                      | 2,0     | 1,00   | 4,7    | 46,0              | 3450             | 4590        |
| H27R-4502-12            | 355                  | 47,5                 | 493           | 93,3              | 0,77                      | 1,9     | 0,90   | 4,5    | 51,0              | 3600             | 4770        |
| H27R-4503-12            | 400                  | 52,8                 | 493           | 93,4              | 0,78                      | 1,8     | 0,90   | 4,2    | 56,0              | 4090             | 4950        |
| H27R-4504-12            | 450                  | 59,4                 | 493           | 93,5              | 0,78                      | 1,8     | 0,80   | 4,1    | 62,0              | 4570             | 5160        |
| H27R-5001-12            | 500                  | 65,5                 | 494           | 94,2              | 0,78                      | 2,1     | 1,00   | 4,9    | 91,0              | 6330             | 5250        |
| H27R-5002-12            | 560                  | 73,3                 | 494           | 94,3              | 0,78                      | 2,1     | 1,00   | 4,8    | 101,0             | 6920             | 5340        |
| H27R-5003-12            | 630                  | 82,3                 | 494           | 94,4              | 0,78                      | 2,1     | 1,00   | 4,8    | 111,0             | 7750             | 5410        |
| H27R-5004-12            | 710                  | 92,7                 | 494           | 94,5              | 0,78                      | 2,1     | 1,00   | 5,0    | 122,0             | 8560             | 5660        |
| H27R-5601-12            | 800                  | 100,4                | 495           | 94,7              | 0,81                      | 2,1     | 1,00   | 5,2    | 168,0             | 7870             | 7440        |
| H27R-5602-12            | 900                  | 112,8                | 495           | 94,8              | 0,81                      | 2,0     | 1,00   | 5,0    | 185,0             | 8710             | 7650        |
| H27R-5603-12            | 1000                 | 125,2                | 495           | 94,9              | 0,81                      | 2,0     | 1,00   | 5,0    | 203,0             | 9850             | 7860        |
| H27R-5604-12            | 1120                 | 140,1                | 495           | 95,0              | 0,81                      | 2,1     | 1,00   | 5,2    | 220,0             | 11000            | 8070        |





# H27R-SR-ODP - Slip ring motors - modular type

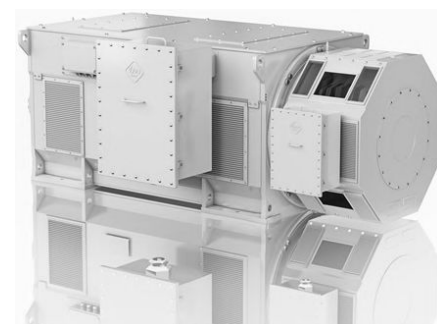
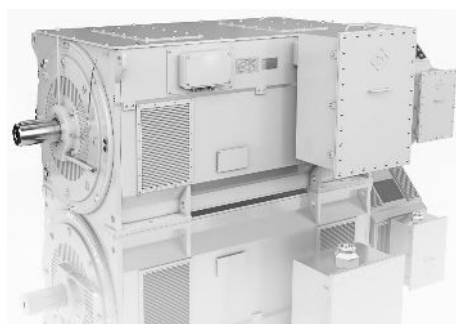


## Electric motors H27R-SR-ODP series

|                        |                                                |
|------------------------|------------------------------------------------|
| <b>Type of motor:</b>  | H27R-SR-ODP (slip ring motor with wound rotor) |
| <b>Frame sizes:</b>    | 355 mm - 1000 mm                               |
| <b>Power range:</b>    | 132 kW - 20 000 kW                             |
| <b>Voltage:</b>        | 2000 V - 13 800 V                              |
| <b>Frame material:</b> | welded steel frame                             |
| <b>Protection:</b>     | IP21                                           |
| <b>Cooling:</b>        | IC01, IC06                                     |

|                     |                                                                                                                               |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Mounting:</b>    | B3, B35, V1, IM V15                                                                                                           |
| <b>Possible:</b>    | Possible customized voltage of wound rotor                                                                                    |
| <b>Accessories:</b> | PT100, PTC and other thermal elements can be chose to protect bearings and winding Heaters, anti-vibrations senzors and other |

## Gallery - 3D



# Technical data for H27R-SR-ODP series (6 KV)

| Type                   | Rated output<br>(kW) | Rated current (A) | Speed (r/min) | Efficiency (%) | Power factor<br>(cosΦ) | Mmax/Mn | Rotor voltage (V) | Rotor current (A) |
|------------------------|----------------------|-------------------|---------------|----------------|------------------------|---------|-------------------|-------------------|
| 4 pole electric motors |                      |                   |               |                |                        |         |                   |                   |
| H27R-SR-ODP-3551-4     | 355                  | 43,5              | 1478          | 93,5           | 0,84                   | 1,8     | 400               | 545               |
| H27R-SR-ODP-3552-4     | 400                  | 49,0              | 1478          | 93,6           | 0,84                   | 1,8     | 435               | 567               |
| H27R-SR-ODP-3553-4     | 450                  | 54,3              | 1478          | 93,8           | 0,85                   | 1,9     | 475               | 584               |
| H27R-SR-ODP-3554-4     | 500                  | 60,3              | 1480          | 93,9           | 0,85                   | 1,9     | 521               | 585               |
| H27R-SR-ODP-4001-4     | 560                  | 67,2              | 1482          | 94,4           | 0,85                   | 1,9     | 521               | 654               |
| H27R-SR-ODP-4002-4     | 630                  | 74,6              | 1483          | 94,5           | 0,86                   | 2,0     | 578               | 659               |
| H27R-SR-ODP-4003-4     | 710                  | 84,0              | 1483          | 94,6           | 0,86                   | 2,0     | 650               | 657               |
| H27R-SR-ODP-4004-4     | 800                  | 93,4              | 1483          | 94,7           | 0,87                   | 2,0     | 745               | 645               |
| H27R-SR-ODP-4501-4     | 900                  | 105,0             | 1485          | 94,8           | 0,87                   | 2,2     | 1005              | 542               |
| H27R-SR-ODP-4502-4     | 1000                 | 116,5             | 1485          | 94,9           | 0,87                   | 2,1     | 1081              | 559               |
| H27R-SR-ODP-4503-4     | 1120                 | 128,9             | 1485          | 95,0           | 0,88                   | 2,1     | 1173              | 578               |
| H27R-SR-ODP-4504-4     | 1250                 | 143,7             | 1485          | 95,1           | 0,88                   | 2,2     | 1280              | 590               |
| H27R-SR-ODP-5001-4     | 1400                 | 160,8             | 1486          | 95,2           | 0,88                   | 2,2     | 1164              | 722               |
| H27R-SR-ODP-5002-4     | 1600                 | 183,6             | 1486          | 95,3           | 0,88                   | 2,5     | 1267              | 758               |
| H27R-SR-ODP-5003-4     | 1800                 | 206,3             | 1486          | 95,4           | 0,88                   | 2,3     | 1401              | 724               |
| H27R-SR-ODP-5004-4     | 2000                 | 226,4             | 1487          | 95,5           | 0,89                   | 2,3     | 1402              | 868               |
| H27R-SR-ODP-5601-4     | 2240                 | 253,3             | 1487          | 95,6           | 0,89                   | 2,5     | 1558              | 874               |
| H27R-SR-ODP-5602-4     | 2500                 | 282,4             | 1488          | 95,7           | 0,89                   | 2,5     | 1706              | 862               |
| H27R-SR-ODP-5603-4     | 2800                 | 316,0             | 1488          | 95,8           | 0,89                   | 2,5     | 1927              | 855               |
| 6 pole electric motors |                      |                   |               |                |                        |         |                   |                   |
| H27R-SR-ODP-3551-6     | 280                  | 35,0              | 990           | 92,7           | 0,83                   | 1,8     | 366               | 513               |
| H27R-SR-ODP-3552-6     | 315                  | 39,3              | 990           | 93,0           | 0,83                   | 1,8     | 367               | 532               |
| H27R-SR-ODP-3553-6     | 355                  | 44,2              | 990           | 93,2           | 0,83                   | 1,8     | 399               | 551               |
| H27R-SR-ODP-3554-6     | 400                  | 49,7              | 991           | 93,3           | 0,83                   | 1,8     | 399               | 619               |
| H27R-SR-ODP-4001-6     | 450                  | 55,1              | 991           | 93,6           | 0,84                   | 2,0     | 439               | 632               |
| H27R-SR-ODP-4002-6     | 500                  | 61,0              | 991           | 93,9           | 0,84                   | 2,0     | 488               | 628               |
| H27R-SR-ODP-4003-6     | 560                  | 68,2              | 991           | 94,1           | 0,84                   | 2,0     | 549               | 622               |
| H27R-SR-ODP-4004-6     | 630                  | 76,6              | 991           | 94,2           | 0,84                   | 2,0     | 966               | 441               |
| H27R-SR-ODP-4501-6     | 710                  | 85,1              | 992           | 94,4           | 0,85                   | 2,1     | 919               | 468               |
| H27R-SR-ODP-4502-6     | 800                  | 95,7              | 992           | 94,6           | 0,85                   | 2,1     | 1098              | 497               |
| H27R-SR-ODP-4503-6     | 900                  | 107,6             | 992           | 94,7           | 0,85                   | 2,2     | 1183              | 458               |
| H27R-SR-ODP-4504-6     | 1000                 | 118,0             | 992           | 94,8           | 0,86                   | 2,2     | 1049              | 573               |
| H27R-SR-ODP-5001-6     | 1120                 | 132,1             | 992           | 94,9           | 0,86                   | 2,2     | 1128              | 597               |
| H27R-SR-ODP-5002-6     | 1250                 | 147,2             | 992           | 95,0           | 0,86                   | 2,3     | 1229              | 615               |



# Technical data H27R-SR-ODP series (6 KV)

| Type                    | Rated output<br>(kW) | Rated current (A) | Speed (r/min) | Efficiency (%) | Power factor<br>(cosΦ) | Mmax/Mn | Rotor voltage (V) | Rotor current (A) |
|-------------------------|----------------------|-------------------|---------------|----------------|------------------------|---------|-------------------|-------------------|
| 6 pole electric motors  |                      |                   |               |                |                        |         |                   |                   |
| H27R-SR-ODP-5003-6      | 1400                 | 164,7             | 993           | 95,1           | 0,86                   | 2,3     | 1473              | 568               |
| H27R-SR-ODP-5004-6      | 1600                 | 185,9             | 993           | 95,2           | 0,87                   | 2,5     | 1638              | 584               |
| H27R-SR-ODP-5601-6      | 1800                 | 208,9             | 993           | 95,3           | 0,87                   | 2,5     | 1829              | 583               |
| H27R-SR-ODP-5602-6      | 2000                 | 231,9             | 993           | 95,4           | 0,87                   | 2,5     | 1860              | 644               |
| H27R-SR-ODP-5603-6      | 2240                 | 259,4             | 994           | 95,5           | 0,87                   | 2,5     | 1900              | 700               |
| H27R-SR-ODP-5604-6      | 2500                 | 288,9             | 994           | 95,7           | 0,87                   | 2,5     | 1935              | 765               |
| 8 pole electric motors  |                      |                   |               |                |                        |         |                   |                   |
| H27R-SR-ODP-3551-8      | 250                  | 33,3              | 739           | 92,5           | 0,78                   | 1,8     | 473               | 327               |
| H27R-SR-ODP-3552-8      | 280                  | 36,8              | 740           | 92,6           | 0,79                   | 1,8     | 509               | 339               |
| H27R-SR-ODP-3553-8      | 315                  | 41,4              | 740           | 92,7           | 0,79                   | 1,8     | 587               | 327               |
| H27R-SR-ODP-4001-8      | 355                  | 46,0              | 740           | 92,8           | 0,80                   | 1,8     | 636               | 340               |
| H27R-SR-ODP-4002-8      | 400                  | 51,7              | 740           | 93,1           | 0,80                   | 1,8     | 693               | 351               |
| H27R-SR-ODP-4003-8      | 450                  | 57,9              | 740           | 93,5           | 0,80                   | 1,8     | 763               | 357               |
| H27R-SR-ODP-4004-8      | 500                  | 64,2              | 740           | 93,7           | 0,80                   | 1,8     | 723               | 420               |
| H27R-SR-ODP-4501-8      | 560                  | 70,9              | 741           | 93,8           | 0,81                   | 1,8     | 797               | 428               |
| H27R-SR-ODP-4502-8      | 630                  | 79,7              | 741           | 93,9           | 0,81                   | 1,8     | 886               | 432               |
| H27R-SR-ODP-4503-8      | 710                  | 89,7              | 741           | 94,0           | 0,81                   | 2,0     | 952               | 455               |
| H27R-SR-ODP-4504-8      | 800                  | 100,9             | 742           | 94,2           | 0,81                   | 2,0     | 850               | 576               |
| H27R-SR-ODP-5001-8      | 900                  | 112,0             | 742           | 94,3           | 0,82                   | 2,0     | 957               | 573               |
| H27R-SR-ODP-5002-8      | 1000                 | 124,3             | 742           | 94,4           | 0,82                   | 2,2     | 1093              | 553               |
| H27R-SR-ODP-5003-8      | 1120                 | 139,1             | 743           | 94,5           | 0,82                   | 2,3     | 1177              | 578               |
| H27R-SR-ODP-5004-8      | 1250                 | 154,9             | 743           | 94,7           | 0,82                   | 2,3     | 1277              | 596               |
| H27R-SR-ODP-5601-8      | 1400                 | 171,2             | 743           | 94,8           | 0,83                   | 2,3     | 1394              | 613               |
| H27R-SR-ODP-5602-8      | 1600                 | 195,5             | 743           | 94,9           | 0,83                   | 2,5     | 1534              | 637               |
| H27R-SR-ODP-5603-8      | 1800                 | 219,7             | 744           | 95,0           | 0,83                   | 2,5     | 1610              | 665               |
| H27R-SR-ODP-5604-8      | 2000                 | 240,7             | 744           | 95,2           | 0,84                   | 2,5     | 1705              | 677               |
| 10 pole electric motors |                      |                   |               |                |                        |         |                   |                   |
| H27R-SR-ODP-4001-10     | 250                  | 33,9              | 593           | 92,0           | 0,77                   | 1,8     | 582               | 262               |
| H27R-SR-ODP-4002-10     | 280                  | 38,0              | 593           | 92,1           | 0,77                   | 1,8     | 631               | 272               |
| H27R-SR-ODP-4003-10     | 315                  | 42,6              | 593           | 92,3           | 0,77                   | 1,8     | 687               | 279               |
| H27R-SR-ODP-4004-10     | 355                  | 47,4              | 593           | 92,4           | 0,78                   | 1,8     | 757               | 285               |
| H27R-SR-ODP-4501-10     | 400                  | 53,3              | 595           | 92,6           | 0,78                   | 1,9     | 793               | 303               |
| H27R-SR-ODP-4502-10     | 450                  | 59,9              | 595           | 92,7           | 0,78                   | 1,9     | 882               | 306               |
| H27R-SR-ODP-4503-10     | 500                  | 65,6              | 595           | 92,9           | 0,79                   | 1,9     | 948               | 317               |



# Technical data for H27R-SR-ODP series (6 KV)

| Type                    | Rated output<br>(kW) | Rated current (A) | Speed (r/min) | Efficiency (%) | Power factor<br>(cosΦ) | Mmax/Mn | Rotor voltage (V) | Rotor current (A) |
|-------------------------|----------------------|-------------------|---------------|----------------|------------------------|---------|-------------------|-------------------|
| 10 pole electric motors |                      |                   |               |                |                        |         |                   |                   |
| H27R-SR-ODP-4504-10     | 560                  | 73,3              | 595           | 93,0           | 0,79                   | 1,9     | 1083              | 309               |
| H27R-SR-ODP-5001-10     | 630                  | 81,3              | 595           | 93,2           | 0,80                   | 2,0     | 843               | 457               |
| H27R-SR-ODP-5002-10     | 710                  | 91,4              | 595           | 93,4           | 0,80                   | 2,0     | 950               | 456               |
| H27R-SR-ODP-5003-10     | 800                  | 102,7             | 595           | 93,7           | 0,80                   | 2,0     | 1084              | 445               |
| H27R-SR-ODP-5004-10     | 900                  | 115,4             | 595           | 93,8           | 0,80                   | 2,0     | 1265              | 425               |
| H27R-SR-ODP-5601-10     | 1000                 | 126,5             | 596           | 93,9           | 0,81                   | 2,0     | 1378              | 432               |
| H27R-SR-ODP-5602-10     | 1120                 | 141,4             | 596           | 94,1           | 0,81                   | 2,0     | 1520              | 440               |
| H27R-SR-ODP-5603-10     | 1250                 | 157,3             | 596           | 94,4           | 0,81                   | 2,0     | 1689              | 441               |
| H27R-SR-ODP-5604-10     | 1400                 | 176,0             | 596           | 94,5           | 0,81                   | 2,0     | 1882              | 457               |
| 12 pole electric motors |                      |                   |               |                |                        |         |                   |                   |
| H27R-SR-ODP-4001-12     | 250                  | 35,5              | 490           | 91,7           | 0,74                   | 1,8     | 537               | 260               |
| H27R-SR-ODP-4002-12     | 280                  | 39,6              | 490           | 91,9           | 0,74                   | 1,8     | 539               | 316               |
| H27R-SR-ODP-4501-12     | 315                  | 44,5              | 490           | 92,1           | 0,74                   | 1,8     | 584               | 328               |
| H27R-SR-ODP-4502-12     | 355                  | 50,0              | 490           | 92,3           | 0,74                   | 1,8     | 638               | 340               |
| H27R-SR-ODP-4503-12     | 400                  | 56,2              | 490           | 92,6           | 0,74                   | 1,8     | 702               | 348               |
| H27R-SR-ODP-4504-12     | 450                  | 63,1              | 490           | 92,7           | 0,74                   | 1,8     | 697               | 385               |
| H27R-SR-ODP-5001-12     | 500                  | 69,8              | 490           | 93,1           | 0,74                   | 1,8     | 698               | 432               |
| H27R-SR-ODP-5002-12     | 560                  | 78,1              | 490           | 93,2           | 0,74                   | 1,8     | 776               | 435               |
| H27R-SR-ODP-5003-12     | 630                  | 86,3              | 490           | 93,3           | 0,75                   | 1,9     | 873               | 433               |
| H27R-SR-ODP-5004-12     | 710                  | 97,2              | 491           | 93,7           | 0,75                   | 1,9     | 958               | 449               |
| H27R-SR-ODP-5601-12     | 800                  | 108,1             | 491           | 93,7           | 0,76                   | 2,0     | 1034              | 473               |
| H27R-SR-ODP-5602-12     | 900                  | 120,0             | 491           | 93,8           | 0,77                   | 2,0     | 1122              | 493               |
| H27R-SR-ODP-5603-12     | 1000                 | 133,1             | 491           | 93,9           | 0,77                   | 2,0     | 1224              | 503               |
| H27R-SR-ODP-5604-12     | 1120                 | 148,9             | 491           | 94,0           | 0,77                   | 2,0     | 1335              | 506               |





# H27R-SR - Slip ring motors - modular type

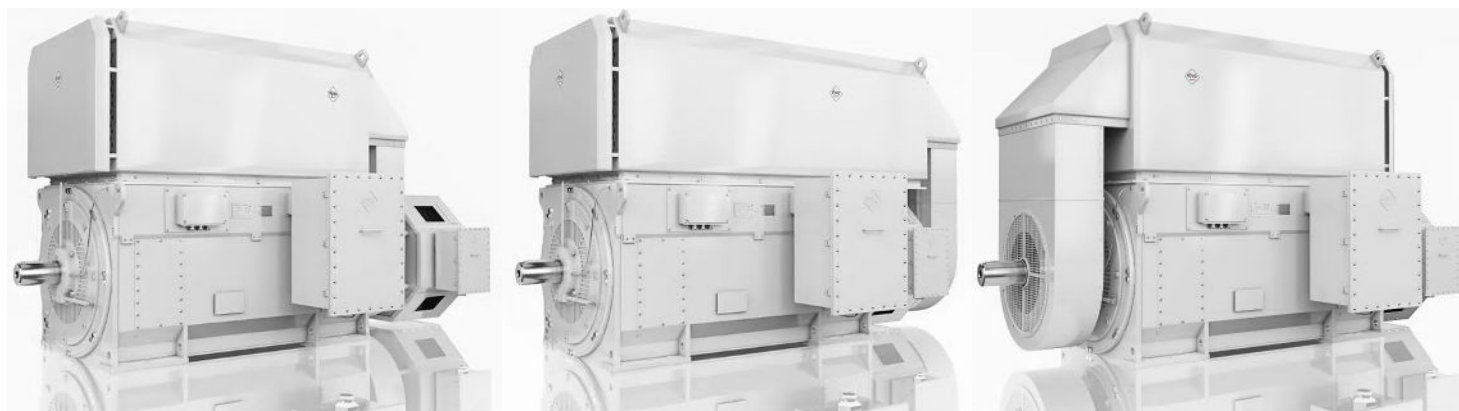


## Electric motors H27R-SR series

**Type of motor:** H27R-SR (slip ring motor with wound rotor)  
**Frame sizes:** 355 mm - 1000 mm  
**Power range:** 132 kW - 20 000 kW  
**Voltage:** 2000 V - 13 800 V  
**Frame material:** welded steel frame  
**Protection:** IP44, IP54, IP55  
**Cooling:** IC611, IC616, IC666, IC86W, IC01, IC06

**Mounting:** B3, B35, V1, IM V15  
**Possible:** Possible customized voltage of wound rotor  
**Accessories:** PT100, PTC and other thermal elements can be chose to protect bearings and winding Heaters, anti-vibrations senzors and other

## Gallery - 3D



# Technical data H27R-SR series (6 KV)

| Type                   | Rated output (kW) | Rated current (A) | Speed (r/min) | Efficiency (%) | Power factor (cosΦ) | Mmax/Mn | Rotor voltage (V) | Rotor current (A) |
|------------------------|-------------------|-------------------|---------------|----------------|---------------------|---------|-------------------|-------------------|
| 4 pole electric motors |                   |                   |               |                |                     |         |                   |                   |
| H27R-SR-3551-4         | 280               | 35,1              | 1478          | 92,4           | 0,83                | 1,8     | 401               | 423               |
| H27R-SR-3552-4         | 315               | 39,4              | 1478          | 92,6           | 0,83                | 1,8     | 434               | 439               |
| H27R-SR-3553-4         | 355               | 43,8              | 1479          | 92,8           | 0,84                | 1,8     | 474               | 452               |
| H27R-SR-3554-4         | 400               | 49,3              | 1480          | 93,0           | 0,84                | 2,0     | 475               | 514               |
| H27R-SR-4001-4         | 450               | 55,3              | 1482          | 93,2           | 0,84                | 2,0     | 521               | 520               |
| H27R-SR-4002-4         | 500               | 61,3              | 1483          | 93,4           | 0,84                | 2,0     | 578               | 519               |
| H27R-SR-4003-4         | 560               | 67,7              | 1483          | 93,6           | 0,85                | 2,0     | 649               | 515               |
| H27R-SR-4004-4         | 630               | 76,0              | 1483          | 93,8           | 0,85                | 2,0     | 744               | 505               |
| H27R-SR-4501-4         | 710               | 85,5              | 1484          | 94,0           | 0,85                | 2,1     | 921               | 460               |
| H27R-SR-4502-4         | 800               | 96,0              | 1484          | 94,3           | 0,85                | 2,2     | 987               | 484               |
| H27R-SR-4503-4         | 900               | 107,9             | 1484          | 94,4           | 0,85                | 2,2     | 1064              | 506               |
| H27R-SR-4504-4         | 1000              | 118,4             | 1485          | 94,5           | 0,86                | 2,2     | 1153              | 518               |
| H27R-SR-5001-4         | 1120              | 132,5             | 1488          | 94,6           | 0,86                | 2,2     | 1149              | 581               |
| H27R-SR-5002-4         | 1250              | 147,5             | 1488          | 94,8           | 0,86                | 2,2     | 1256              | 594               |
| H27R-SR-5003-4         | 1400              | 165,1             | 1488          | 94,9           | 0,86                | 2,4     | 1385              | 604               |
| H27R-SR-5004-4         | 1600              | 186,3             | 1490          | 95,0           | 0,87                | 2,4     | 1537              | 622               |
| H27R-SR-5601-4         | 1800              | 209,3             | 1490          | 95,1           | 0,87                | 2,5     | 1606              | 668               |
| H27R-SR-5602-4         | 2000              | 232,1             | 1490          | 95,3           | 0,87                | 2,5     | 1734              | 686               |
| H27R-SR-5603-4         | 2240              | 256,5             | 1490          | 95,5           | 0,88                | 2,5     | 1850              | 721               |
| H27R-SR-5604-4         | 2500              | 285,9             | 1490          | 95,6           | 0,88                | 2,5     | 1956              | 761               |
| 6 pole electric motors |                   |                   |               |                |                     |         |                   |                   |
| H27R-SR-3551-6         | 250               | 32,9              | 990           | 92,6           | 0,79                | 1,8     | 365               | 414               |
| H27R-SR-3552-6         | 280               | 36,8              | 990           | 92,8           | 0,79                | 1,8     | 399               | 424               |
| H27R-SR-3553-6         | 315               | 41,3              | 990           | 92,9           | 0,79                | 1,8     | 395               | 479               |
| H27R-SR-3554-6         | 355               | 46,9              | 990           | 93,0           | 0,79                | 1,8     | 436               | 491               |
| H27R-SR-4001-6         | 400               | 51,6              | 990           | 93,3           | 0,80                | 1,9     | 484               | 497               |
| H27R-SR-4002-6         | 450               | 58,0              | 990           | 93,4           | 0,80                | 1,9     | 546               | 496               |
| H27R-SR-4003-6         | 500               | 64,3              | 990           | 93,6           | 0,80                | 1,9     | 857               | 348               |
| H27R-SR-4004-6         | 560               | 71,8              | 991           | 93,8           | 0,80                | 2,0     | 920               | 361               |
| H27R-SR-4501-6         | 630               | 77,8              | 991           | 93,9           | 0,83                | 2,2     | 1059              | 355               |
| H27R-SR-4502-6         | 710               | 87,4              | 991           | 94,2           | 0,83                | 2,2     | 1159              | 363               |
| H27R-SR-4503-6         | 800               | 98,2              | 991           | 94,4           | 0,83                | 2,2     | 1028              | 464               |
| H27R-SR-4504-6         | 900               | 110,4             | 992           | 94,5           | 0,83                | 2,2     | 1060              | 511               |
| H27R-SR-5001-6         | 1000              | 121,1             | 992           | 94,6           | 0,84                | 2,4     | 1237              | 484               |



# Technical data for H27R-SR series (6 KV)

| Type                    | Rated output (kW) | Rated current (A) | Speed (r/min) | Efficiency (%) | Power factor (cosΦ) | Mmax/Mn | Rotor voltage (V) | Rotor current (A) |
|-------------------------|-------------------|-------------------|---------------|----------------|---------------------|---------|-------------------|-------------------|
| 6 pole electric motors  |                   |                   |               |                |                     |         |                   |                   |
| H27R-SR-5002-6          | 1120              | 135,5             | 993           | 94,7           | 0,84                | 2,4     | 1345              | 496               |
| H27R-SR-5003-6          | 1250              | 150,1             | 993           | 94,9           | 0,84                | 2,4     | 1455              | 516               |
| H27R-SR-5004-6          | 1400              | 168,8             | 993           | 95,0           | 0,84                | 2,4     | 1560              | 538               |
| H27R-SR-5601-6          | 1600              | 190,5             | 993           | 95,1           | 0,85                | 2,5     | 1592              | 602               |
| H27R-SR-5602-6          | 1800              | 214,0             | 994           | 95,2           | 0,85                | 2,5     | 1616              | 665               |
| H27R-SR-5603-6          | 2000              | 237,3             | 994           | 95,4           | 0,85                | 2,5     | 1740              | 687               |
| 8 pole electric motors  |                   |                   |               |                |                     |         |                   |                   |
| H27R-SR-4001-8          | 280               | 37,9              | 740           | 92,4           | 0,77                | 1,8     | 633               | 265               |
| H27R-SR-4002-8          | 315               | 42,5              | 740           | 92,7           | 0,77                | 1,8     | 691               | 273               |
| H27R-SR-4003-8          | 355               | 47,8              | 740           | 92,8           | 0,77                | 1,8     | 601               | 352               |
| H27R-SR-4004-8          | 400               | 53,1              | 740           | 93,0           | 0,78                | 1,8     | 661               | 360               |
| H27R-SR-4501-8          | 450               | 59,6              | 741           | 93,1           | 0,78                | 1,8     | 735               | 364               |
| H27R-SR-4502-8          | 500               | 65,9              | 741           | 93,6           | 0,78                | 1,8     | 826               | 358               |
| H27R-SR-4503-8          | 560               | 72,7              | 742           | 93,8           | 0,79                | 2,0     | 741               | 450               |
| H27R-SR-4504-8          | 630               | 81,7              | 742           | 93,9           | 0,79                | 2,0     | 742               | 509               |
| H27R-SR-5001-8          | 710               | 90,9              | 743           | 94,0           | 0,80                | 2,0     | 835               | 512               |
| H27R-SR-5002-8          | 800               | 102,1             | 743           | 94,2           | 0,80                | 2,0     | 956               | 500               |
| H27R-SR-5003-8          | 900               | 112,0             | 743           | 94,3           | 0,82                | 2,2     | 1020              | 526               |
| H27R-SR-5004-8          | 1000              | 124,3             | 743           | 94,4           | 0,82                | 2,2     | 1076              | 558               |
| H27R-SR-5601-8          | 1120              | 139,1             | 745           | 94,5           | 0,82                | 2,5     | 1156              | 584               |
| H27R-SR-5602-8          | 1250              | 154,9             | 745           | 94,7           | 0,82                | 2,5     | 1277              | 601               |
| H27R-SR-5603-8          | 1400              | 171,2             | 745           | 94,8           | 0,83                | 2,5     | 1334              | 627               |
| H27R-SR-5604-8          | 1600              | 195,3             | 745           | 95,0           | 0,83                | 2,5     | 1460              | 664               |
| 10 pole electric motors |                   |                   |               |                |                     |         |                   |                   |
| H27R-SR-4501-10         | 280               | 39,0              | 590           | 92,0           | 0,75                | 1,8     | 600               | 277               |
| H27R-SR-4502-10         | 315               | 43,3              | 590           | 92,1           | 0,76                | 1,8     | 660               | 283               |
| H27R-SR-4503-10         | 355               | 48,7              | 590           | 92,2           | 0,76                | 1,8     | 733               | 287               |
| H27R-SR-4504-10         | 400               | 54,8              | 590           | 92,5           | 0,76                | 1,8     | 823               | 286               |
| H27R-SR-5001-10         | 450               | 60,7              | 592           | 92,6           | 0,77                | 1,8     | 739               | 362               |
| H27R-SR-5002-10         | 500               | 67,2              | 593           | 93,0           | 0,77                | 1,8     | 740               | 404               |



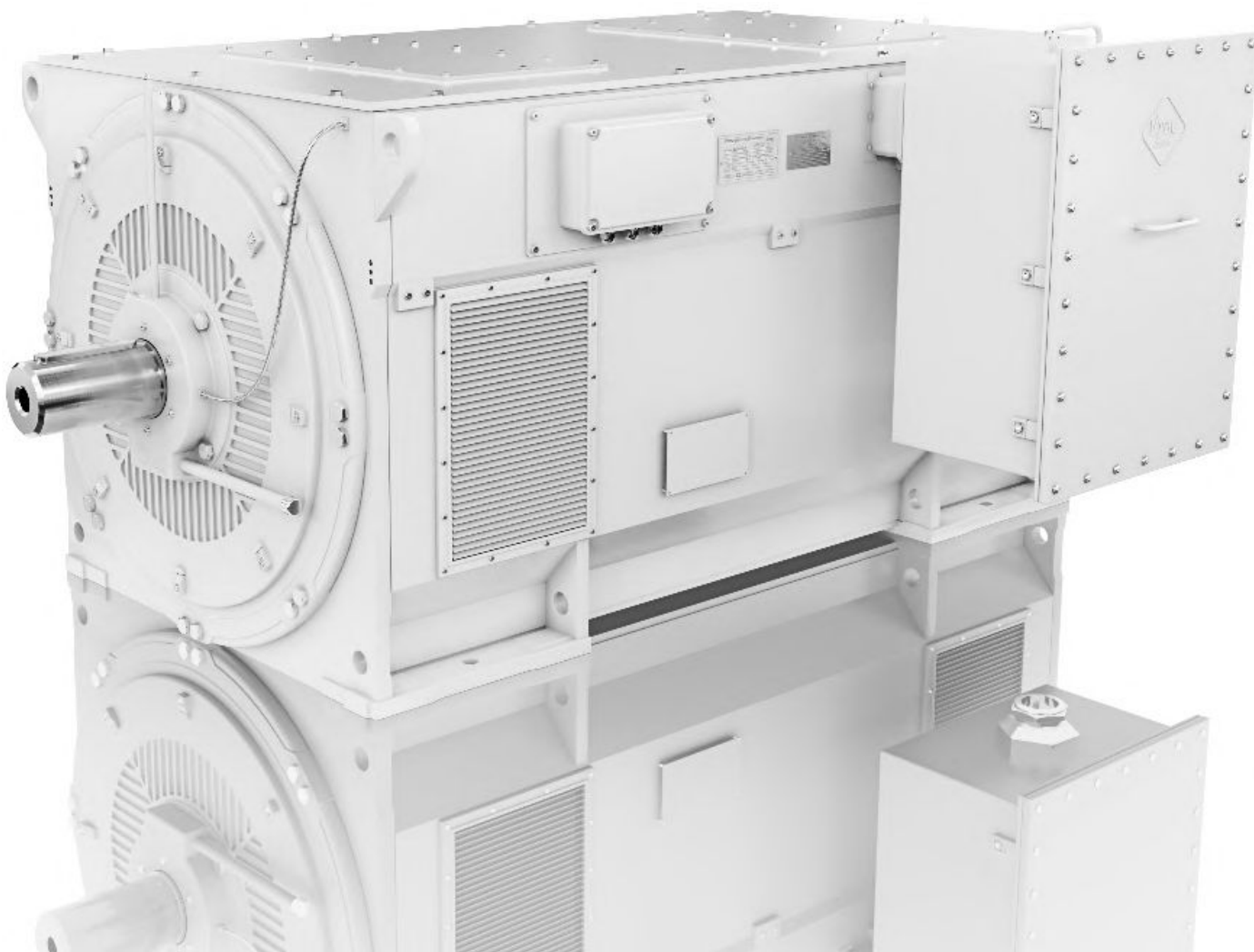
# Technical data H27R-SR series (6 KV)

| Type                    | Rated output (kW) | Rated current (A) | Speed (r/min) | Efficiency (%) | Power factor (cosΦ) | Mmax/Mn | Rotor voltage (V) | Rotor current (A) |
|-------------------------|-------------------|-------------------|---------------|----------------|---------------------|---------|-------------------|-------------------|
| 10 pole electric motors |                   |                   |               |                |                     |         |                   |                   |
| H27R-SR-5003-10         | 560               | 75,2              | 593           | 93,1           | 0,77                | 1,9     | 834               | 402               |
| H27R-SR-5004-10         | 630               | 83,4              | 593           | 93,2           | 0,78                | 1,9     | 954               | 395               |
| H27R-SR-5601-10         | 710               | 93,8              | 595           | 93,4           | 0,78                | 2,0     | 989               | 432               |
| H27R-SR-5602-10         | 800               | 104,0             | 595           | 93,7           | 0,79                | 2,0     | 1022              | 475               |
| H27R-SR-5603-10         | 900               | 116,7             | 595           | 93,9           | 0,79                | 2,0     | 1155              | 472               |
| H27R-SR-5604-10         | 1000              | 129,4             | 595           | 94,1           | 0,79                | 2,0     | 1226              | 500               |
| 12 pole electric motors |                   |                   |               |                |                     |         |                   |                   |
| H27R-SR-4501-12         | 250               | 36,4              | 490           | 91,7           | 0,72                | 1,8     | 501               | 296               |
| H27R-SR-4502-12         | 280               | 40,7              | 490           | 91,9           | 0,72                | 1,8     | 539               | 308               |
| H27R-SR-4503-12         | 315               | 45,1              | 490           | 92,1           | 0,73                | 1,8     | 584               | 320               |
| H27R-SR-4504-12         | 355               | 50,7              | 491           | 92,3           | 0,73                | 1,8     | 706               | 298               |
| H27R-SR-5001-12         | 400               | 56,9              | 491           | 92,6           | 0,73                | 1,9     | 701               | 337               |
| H27R-SR-5002-12         | 450               | 63,1              | 492           | 92,7           | 0,74                | 1,9     | 785               | 341               |
| H27R-SR-5003-12         | 500               | 69,8              | 492           | 93,1           | 0,74                | 1,9     | 797               | 384               |
| H27R-SR-5004-12         | 560               | 77,1              | 492           | 93,2           | 0,75                | 2,0     | 853               | 393               |
| H27R-SR-5601-12         | 630               | 86,6              | 493           | 93,3           | 0,75                | 2,0     | 977               | 386               |
| H27R-SR-5602-12         | 710               | 97,5              | 495           | 93,4           | 0,75                | 2,0     | 992               | 431               |
| H27R-SR-5603-12         | 800               | 109,5             | 495           | 93,7           | 0,75                | 2,0     | 1042              | 471               |
| H27R-SR-5604-12         | 900               | 121,5             | 493           | 93,8           | 0,76                | 2,0     | 1163              | 476               |





# H27R-ODP - High voltage motors - modular type



## Electric motors H27R-ODP series

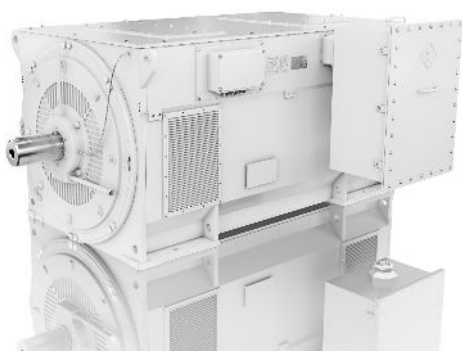
**Type of motor:** H27R-ODP  
**Frame sizes:** 315 mm - 1000 mm  
**Power range:** 110 kW - 10 000 kW  
**Voltage:** 2 000 V - 13 800 V  
**Frame material:** welded steel or cast iron  
**Protection:** IP23W, IP23, IP33  
**Cooling:** IC01, IC06

**Mounting:**  
**Possible:**

**Accessories:**

B3, B35, V1, IM V15  
Special winding of VFD use, can support several kinds of voltage and frequency  
PT100, PTC and other thermal elements can be chose to protect bearings and winding  
Heaters, anti-vibrations senzors and other

## Gallery - 3D



# Technical data for H27R-ODP series (10 KV)

| Type                   | Rated<br>output<br>(kW) | Rated<br>current (A) | Speed<br>(r/min) | Efficiency<br>(%) | Power<br>factor<br>(cosΦ) | Mmax/Mn | Mst/Mn | Ist/Mn | Jmotor<br>(Kg.m2) | Jload<br>(Kg.m2) | Weight (Kg)  |             |
|------------------------|-------------------------|----------------------|------------------|-------------------|---------------------------|---------|--------|--------|-------------------|------------------|--------------|-------------|
|                        |                         |                      |                  |                   |                           |         |        |        |                   |                  | H27R-<br>ODP | H27R-<br>WC |
| 2 pole electric motors |                         |                      |                  |                   |                           |         |        |        |                   |                  |              |             |
| H27R-ODP-3551-2        | 315                     | 21,2                 | 2975             | 95,2              | 0,90                      | 2,6     | 0,9    | 6,3    | 3,3               | 16,3             | 1960         | 2200        |
| H27R-ODP-3552-2        | 355                     | 23,9                 | 2978             | 95,3              | 0,90                      | 2,8     | 1,0    | 6,9    | 3,6               | 22,4             | 2000         | 2240        |
| H27R-ODP-3553-2        | 400                     | 26,9                 | 2977             | 95,4              | 0,90                      | 2,8     | 1,0    | 6,8    | 4                 | 26               | 2070         | 2310        |
| H27R-ODP-3554-2        | 450                     | 30,2                 | 2978             | 95,5              | 0,90                      | 2,8     | 1,0    | 6,8    | 4,3               | 31               | 2110         | 2360        |
| H27R-ODP-4001-2        | 500                     | 33,6                 | 2979             | 95,6              | 0,90                      | 2,5     | 1,0    | 6,5    | 6,2               | 34               | 2740         | 3020        |
| H27R-ODP-4002-2        | 560                     | 37,5                 | 2979             | 95,7              | 0,90                      | 2,5     | 1,0    | 6,6    | 6,8               | 41               | 2820         | 3100        |
| H27R-ODP-4003-2        | 630                     | 42,2                 | 2980             | 95,8              | 0,90                      | 2,5     | 1,0    | 6,7    | 7,4               | 45               | 2930         | 3210        |
| H27R-ODP-4004-2        | 710                     | 47,5                 | 2980             | 95,9              | 0,90                      | 2,6     | 1,1    | 7,0    | 8                 | 49               | 3030         | 3310        |
| H27R-ODP-4501-2        | 800                     | 52,3                 | 2982             | 96,0              | 0,92                      | 2,5     | 0,7    | 6,0    | 11                | 32               | 3500         | 4150        |
| H27R-ODP-4502-2        | 900                     | 58,8                 | 2893             | 96,1              | 0,92                      | 2,7     | 0,7    | 6,6    | 12,7              | 41               | 3660         | 4310        |
| H27R-ODP-4503-2        | 1000                    | 65,2                 | 2983             | 96,2              | 0,92                      | 2,6     | 0,7    | 6,4    | 14                | 43               | 3820         | 4470        |
| H27R-ODP-4504-2        | 1120                    | 73,0                 | 2983             | 96,3              | 0,92                      | 2,6     | 0,7    | 6,3    | 15                | 50               | 3990         | 4630        |
| H27R-ODP-5001-2        | 1250                    | 81,4                 | 2984             | 96,4              | 0,92                      | 2,9     | 0,7    | 6,8    | 18                | 53               | 4100         | 4820        |
| H27R-ODP-5002-2        | 1400                    | 90,1                 | 2984             | 96,5              | 0,93                      | 2,9     | 0,7    | 6,8    | 21                | 61               | 4200         | 4920        |
| H27R-ODP-5003-2        | 1600                    | 102,8                | 2984             | 96,6              | 0,93                      | 2,8     | 0,7    | 6,8    | 23                | 69,5             | 4300         | 5030        |
| H27R-ODP-5004-2        | 1800                    | 115,6                | 2985             | 96,7              | 0,93                      | 2,9     | 0,8    | 7,0    | 26                | 74               | 4400         | 5140        |
| H27R-ODP-5601-2        | 2000                    | 129,7                | 2982             | 96,8              | 0,92                      | 2,1     | 0,5    | 5,2    | 34                | 108              | 6900         | 7650        |
| H27R-ODP-5602-2        | 2240                    | 145,1                | 2983             | 96,9              | 0,92                      | 2,2     | 0,6    | 5,4    | 37                | 126              | 7150         | 7900        |
| H27R-ODP-5603-2        | 2500                    | 160,0                | 2984             | 97,0              | 0,93                      | 2,3     | 0,6    | 5,8    | 41                | 144              | 7400         | 8150        |
| H27R-ODP-5604-2        | 2800                    | 179,0                | 2986             | 97,1              | 0,93                      | 2,5     | 0,7    | 6,5    | 45                | 160              | 7650         | 8400        |
| 4 pole electric motors |                         |                      |                  |                   |                           |         |        |        |                   |                  |              |             |
| H27R-ODP-3551-4        | 315                     | 21,5                 | 1486             | 94,1              | 0,90                      | 2,3     | 0,9    | 5,9    | 6,9               | 88               | 2010         | 2250        |
| H27R-ODP-3552-4        | 355                     | 24,2                 | 1488             | 94,2              | 0,90                      | 2,6     | 1,0    | 6,5    | 7,5               | 103              | 2040         | 2340        |
| H27R-ODP-3553-4        | 400                     | 27,2                 | 1488             | 94,3              | 0,90                      | 2,5     | 1,0    | 6,5    | 8                 | 119              | 2080         | 2380        |
| H27R-ODP-3554-4        | 450                     | 30,6                 | 1487             | 94,4              | 0,90                      | 2,5     | 1,0    | 6,4    | 9                 | 144              | 2130         | 2240        |
| H27R-ODP-4001-4        | 500                     | 33,9                 | 1487             | 94,6              | 0,90                      | 2,0     | 0,7    | 5,2    | 14                | 156              | 2760         | 3110        |
| H27R-ODP-4002-4        | 560                     | 37,9                 | 1487             | 94,7              | 0,90                      | 2,0     | 0,8    | 5,3    | 16                | 186              | 2820         | 3180        |
| H27R-ODP-4003-4        | 630                     | 42,9                 | 1487             | 94,8              | 0,90                      | 2,0     | 0,8    | 5,2    | 17,4              | 207              | 2970         | 3270        |
| H27R-ODP-4004-4        | 710                     | 47,5                 | 1487             | 94,9              | 0,91                      | 2,1     | 0,8    | 5,4    | 19,3              | 229              | 3050         | 3370        |
| H27R-ODP-4501-4        | 800                     | 51,3                 | 1490             | 95,0              | 0,90                      | 2,5     | 0,8    | 6,2    | 21                | 245              | 3560         | 4350        |
| H27R-ODP-4502-4        | 900                     | 60,6                 | 1491             | 95,2              | 0,90                      | 2,6     | 0,9    | 6,5    | 23                | 272              | 3720         | 4510        |
| H27R-ODP-4503-4        | 1000                    | 67,3                 | 1491             | 95,3              | 0,90                      | 2,5     | 0,9    | 6,4    | 24,6              | 324              | 3880         | 4770        |
| H27R-ODP-4504-4        | 1120                    | 75,3                 | 1490             | 95,4              | 0,90                      | 2,4     | 0,9    | 6,2    | 27                | 345              | 4040         | 4860        |
| H27R-ODP-5001-4        | 1250                    | 83,0                 | 1491             | 95,6              | 0,91                      | 2,4     | 0,8    | 6,3    | 46                | 408              | 4400         | 5080        |



# Technical data H27R-ODP series (10 KV)

| Type                   | Rated<br>output<br>(kW) | Rated<br>current (A) | Speed<br>(r/min) | Efficiency<br>(%) | Power<br>factor<br>(cosΦ) | Mmax/Mn | Mst/Mn | Ist/Mn | Jmotor<br>(Kg.m2) | Jload<br>(Kg.m2) | Weight (Kg)  |             |
|------------------------|-------------------------|----------------------|------------------|-------------------|---------------------------|---------|--------|--------|-------------------|------------------|--------------|-------------|
|                        |                         |                      |                  |                   |                           |         |        |        |                   |                  | H27R-<br>ODP | H27R-<br>WC |
| 4 pole electric motors |                         |                      |                  |                   |                           |         |        |        |                   |                  |              |             |
| H27R-ODP-5002-4        | 1400                    | 92,7                 | 1491             | 95,8              | 0,91                      | 2,3     | 0,8    | 6,3    | 51                | 464              | 4500         | 5200        |
| H27R-ODP-5003-4        | 1600                    | 105,9                | 1491             | 95,9              | 0,91                      | 2,3     | 0,8    | 6,3    | 56                | 525              | 4600         | 5300        |
| H27R-ODP-5004-4        | 1800                    | 119,0                | 1491             | 96,0              | 0,91                      | 2,3     | 0,9    | 6,5    | 61                | 564              | 4900         | 5610        |
| H27R-ODP-5601-4        | 2000                    | 131,9                | 1492             | 96,2              | 0,91                      | 2,5     | 0,9    | 6,6    | 79                | 605              | 6950         | 7700        |
| H27R-ODP-5602-4        | 2240                    | 147,6                | 1491             | 96,3              | 0,91                      | 2,3     | 0,9    | 6,3    | 87                | 664              | 7200         | 8000        |
| H27R-ODP-5603-4        | 2500                    | 162,7                | 1491             | 96,4              | 0,92                      | 2,2     | 0,8    | 6,1    | 95                | 715              | 7450         | 8200        |
| H27R-ODP-5604-4        | 2800                    | 182,1                | 1491             | 96,5              | 0,92                      | 2,1     | 0,8    | 5,7    | 106               | 746              | 7700         | 8450        |
| 6 pole electric motors |                         |                      |                  |                   |                           |         |        |        |                   |                  |              |             |
| H27R-ODP-4001-6        | 400                     | 28,4                 | 989              | 94,5              | 0,86                      | 2,2     | 1,0    | 5,7    | 19                | 328              | 2540         | 2990        |
| H27R-ODP-4002-6        | 450                     | 31,9                 | 989              | 94,6              | 0,86                      | 2,1     | 1,0    | 5,5    | 20                | 393              | 2640         | 3090        |
| H27R-ODP-4003-6        | 500                     | 35,0                 | 989              | 94,7              | 0,87                      | 2,0     | 1,0    | 5,3    | 23                | 441              | 2730         | 3170        |
| H27R-ODP-4004-6        | 560                     | 39,2                 | 989              | 94,8              | 0,87                      | 2,0     | 1,0    | 5,4    | 25                | 493              | 2940         | 3280        |
| H27R-ODP-4501-6        | 630                     | 44,6                 | 989              | 94,9              | 0,86                      | 1,8     | 0,8    | 4,7    | 29                | 602              | 3110         | 3900        |
| H27R-ODP-4502-6        | 710                     | 50,2                 | 989              | 95,0              | 0,86                      | 1,8     | 0,8    | 4,7    | 33                | 681              | 3200         | 3990        |
| H27R-ODP-4503-6        | 800                     | 56,4                 | 989              | 95,2              | 0,86                      | 1,8     | 0,8    | 4,7    | 36                | 822              | 3330         | 4130        |
| H27R-ODP-4504-6        | 900                     | 63,4                 | 990              | 95,3              | 0,86                      | 1,9     | 0,9    | 5,0    | 40                | 911              | 3450         | 4250        |
| H27R-ODP-5001-6        | 1000                    | 68,7                 | 992              | 95,5              | 0,88                      | 2,1     | 1,0    | 5,7    | 57                | 1010             | 4000         | 4910        |
| H27R-ODP-5002-6        | 1120                    | 76,9                 | 992              | 95,6              | 0,88                      | 2,0     | 0,9    | 5,5    | 64                | 1160             | 4100         | 5000        |
| H27R-ODP-5003-6        | 1250                    | 85,7                 | 992              | 95,7              | 0,88                      | 2,0     | 0,9    | 5,5    | 70                | 1230             | 4400         | 5310        |
| H27R-ODP-5004-6        | 1400                    | 95,9                 | 991              | 95,8              | 0,88                      | 2,0     | 0,9    | 5,4    | 78                | 1390             | 4600         | 5500        |
| H27R-ODP-5601-6        | 1600                    | 109,3                | 993              | 96,0              | 0,88                      | 2,0     | 0,8    | 5,3    | 99                | 1310             | 7030         | 7850        |
| H27R-ODP-5602-6        | 1800                    | 122,9                | 993              | 96,1              | 0,88                      | 2,0     | 0,8    | 5,5    | 107               | 1470             | 7260         | 8150        |
| H27R-ODP-5603-6        | 2000                    | 136,4                | 994              | 96,2              | 0,88                      | 2,1     | 0,9    | 5,8    | 120               | 1660             | 7520         | 8350        |
| H27R-ODP-5604-6        | 2240                    | 152,6                | 994              | 96,3              | 0,88                      | 2,2     | 0,9    | 6,2    | 132               | 1970             | 7800         | 8720        |
| 8 pole electric motors |                         |                      |                  |                   |                           |         |        |        |                   |                  |              |             |
| H27R-ODP-4001-8        | 315                     | 24,0                 | 742              | 93,5              | 0,81                      | 2,2     | 1,2    | 5,5    | 27                | 766              | 2450         | 2900        |
| H27R-ODP-4002-8        | 355                     | 26,7                 | 741              | 93,6              | 0,82                      | 2,1     | 1,1    | 5,2    | 30                | 929              | 2530         | 2970        |
| H27R-ODP-4003-8        | 400                     | 30,1                 | 741              | 93,7              | 0,82                      | 2,0     | 1,0    | 5,1    | 33                | 1020             | 2570         | 3020        |
| H27R-ODP-4004-8        | 450                     | 33,8                 | 741              | 93,8              | 0,82                      | 2,0     | 1,1    | 5,1    | 36                | 1140             | 2680         | 3150        |
| H27R-ODP-4501-8        | 500                     | 37,3                 | 742              | 94,4              | 0,82                      | 1,9     | 1,0    | 5,0    | 39                | 1010             | 3040         | 3840        |
| H27R-ODP-4502-8        | 560                     | 41,7                 | 742              | 94,5              | 0,82                      | 1,9     | 1,0    | 5,0    | 43                | 1130             | 3190         | 3990        |
| H27R-ODP-4503-8        | 630                     | 46,8                 | 742              | 94,7              | 0,82                      | 1,9     | 1,0    | 5,1    | 47                | 1260             | 3240         | 4040        |
| H27R-ODP-4504-8        | 710                     | 52,7                 | 742              | 94,8              | 0,82                      | 2,0     | 1,1    | 5,2    | 52                | 1330             | 3370         | 4170        |
| H27R-ODP-5001-8        | 800                     | 58,6                 | 743              | 94,9              | 0,82                      | 2,3     | 1,1    | 5,9    | 82                | 1490             | 3900         | 4800        |



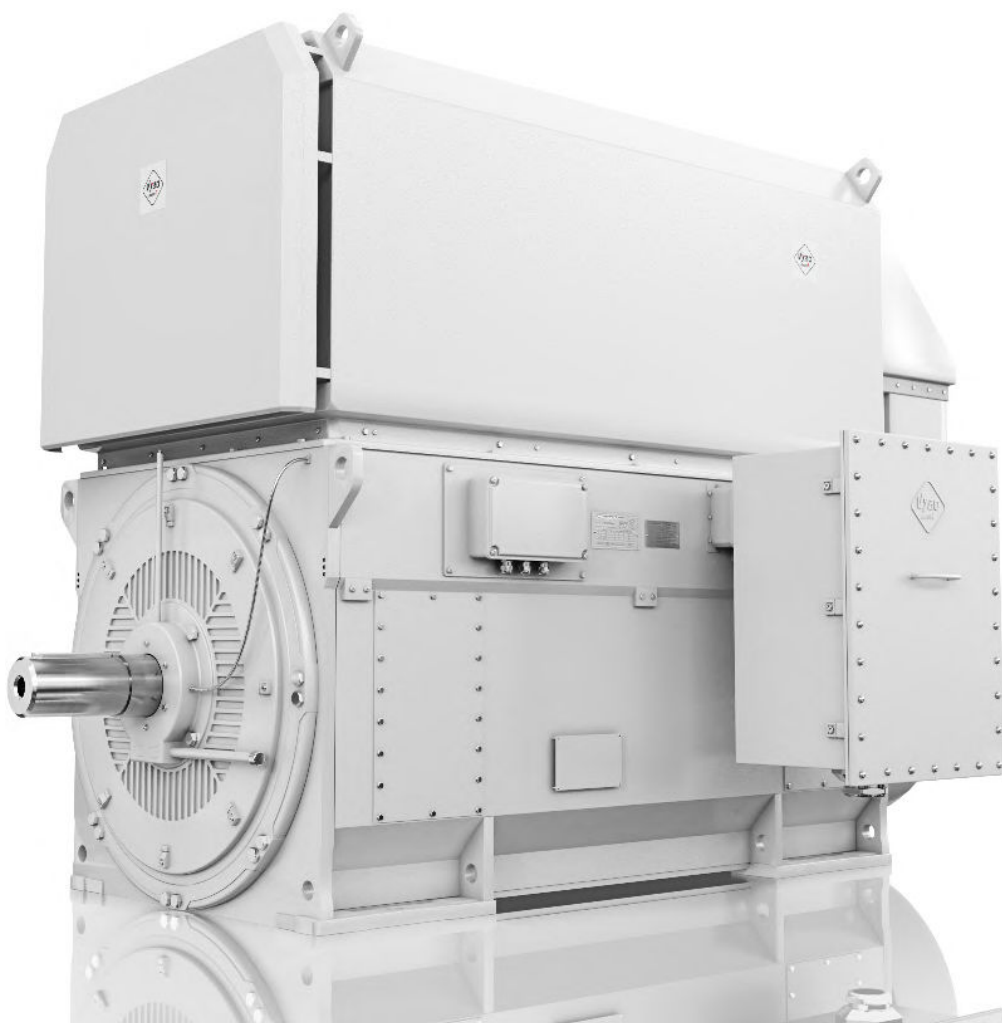
# Technical data for H27R-ODP series (10 KV)

| Type                    | Rated<br>output<br>(kW) | Rated<br>current (A) | Speed<br>(r/min) | Efficiency<br>(%) | Power<br>factor<br>(cosΦ) | Mmax/Mn | Mst/Mn | Ist/Mn | Jmotor<br>(Kg.m2) | Jload<br>(Kg.m2) | Weight (Kg)  |             |  |
|-------------------------|-------------------------|----------------------|------------------|-------------------|---------------------------|---------|--------|--------|-------------------|------------------|--------------|-------------|--|
|                         |                         |                      |                  |                   |                           |         |        |        |                   |                  | H27R-<br>ODP | H27R-<br>WC |  |
| 8 pole electric motors  |                         |                      |                  |                   |                           |         |        |        |                   |                  |              |             |  |
| H27R-ODP-5002-8         | 900                     | 65,9                 | 743              | 95,0              | 0,83                      | 2,2     | 1,1    | 5,7    | 89                | 1610             | 4050         | 4950        |  |
| H27R-ODP-5003-8         | 1000                    | 73,1                 | 743              | 95,1              | 0,83                      | 2,2     | 1,1    | 5,6    | 99                | 1810             | 4250         | 5150        |  |
| H27R-ODP-5004-8         | 1120                    | 80,9                 | 743              | 95,2              | 0,84                      | 2,2     | 1,1    | 5,6    | 111               | 2030             | 4400         | 5300        |  |
| H27R-ODP-5601-8         | 1250                    | 90,2                 | 744              | 95,3              | 0,84                      | 1,9     | 0,9    | 5,1    | 143               | 2200             | 7120         | 7940        |  |
| H27R-ODP-5602-8         | 1400                    | 100,9                | 744              | 95,4              | 0,84                      | 1,9     | 0,9    | 5,1    | 159               | 2470             | 7360         | 8220        |  |
| H27R-ODP-5603-8         | 1600                    | 115,2                | 744              | 95,5              | 0,84                      | 1,9     | 0,9    | 5,0    | 175               | 2980             | 7600         | 8450        |  |
| H27R-ODP-5604-8         | 1800                    | 129,4                | 744              | 95,6              | 0,84                      | 2,0     | 0,9    | 5,3    | 191               | 3300             | 7900         | 8730        |  |
| 10 pole electric motors |                         |                      |                  |                   |                           |         |        |        |                   |                  |              |             |  |
| H27R-ODP-4001-10        | 250                     | 20,7                 | 593              | 92,9              | 0,75                      | 2,0     | 0,9    | 5,0    | 30                | 1210             | 2530         | 2980        |  |
| H27R-ODP-4002-10        | 280                     | 23,2                 | 593              | 93,1              | 0,75                      | 2,0     | 0,9    | 4,9    | 33                | 1430             | 2600         | 3040        |  |
| H27R-ODP-4003-10        | 315                     | 25,6                 | 593              | 93,3              | 0,76                      | 2,0     | 1,0    | 5,1    | 36                | 1650             | 2710         | 3150        |  |
| H27R-ODP-4501-10        | 355                     | 28,5                 | 594              | 93,5              | 0,77                      | 2,2     | 1,2    | 5,4    | 45                | 2060             | 3000         | 3800        |  |
| H27R-ODP-4502-10        | 400                     | 32,0                 | 594              | 93,6              | 0,77                      | 2,1     | 1,1    | 5,2    | 50                | 2320             | 3080         | 3880        |  |
| H27R-ODP-4503-10        | 450                     | 36,0                 | 594              | 93,7              | 0,77                      | 2,1     | 1,1    | 5,2    | 54                | 2610             | 3220         | 4020        |  |
| H27R-ODP-4504-10        | 500                     | 40,0                 | 594              | 93,8              | 0,77                      | 2,1     | 1,1    | 5,2    | 60                | 2820             | 3280         | 4080        |  |
| H27R-ODP-5001-10        | 560                     | 44,7                 | 593              | 94,0              | 0,77                      | 1,9     | 1,0    | 4,7    | 91                | 3820             | 3900         | 4800        |  |
| H27R-ODP-5002-10        | 630                     | 50,2                 | 593              | 94,1              | 0,77                      | 1,8     | 0,9    | 4,3    | 101               | 4050             | 4050         | 4950        |  |
| H27R-ODP-5003-10        | 710                     | 56,5                 | 593              | 94,2              | 0,77                      | 1,8     | 1,0    | 4,5    | 111               | 5110             | 4200         | 5100        |  |
| H27R-ODP-5004-10        | 800                     | 63,6                 | 593              | 94,3              | 0,77                      | 1,8     | 0,9    | 4,2    | 121               | 5350             | 4350         | 5200        |  |
| H27R-ODP-5601-10        | 900                     | 67,5                 | 594              | 95,0              | 0,81                      | 1,9     | 0,9    | 4,8    | 151               | 4100             | 7050         | 7900        |  |
| H27R-ODP-5602-10        | 1000                    | 74,9                 | 594              | 95,2              | 0,81                      | 1,9     | 0,9    | 4,8    | 168               | 4550             | 7320         | 8150        |  |
| H27R-ODP-5603-10        | 1120                    | 83,8                 | 595              | 95,3              | 0,81                      | 1,9     | 0,9    | 4,9    | 185               | 5100             | 7530         | 8450        |  |
| H27R-ODP-5604-10        | 1250                    | 93,4                 | 595              | 95,4              | 0,81                      | 2,0     | 0,9    | 5,1    | 202               | 5650             | 7820         | 8670        |  |
| 12 pole electric motors |                         |                      |                  |                   |                           |         |        |        |                   |                  |              |             |  |
| H27R-ODP-4501-12        | 280                     | 23,2                 | 493              | 93,0              | 0,75                      | 2,3     | 1,2    | 5,1    | 49                | 2730             | 3070         | 3870        |  |
| H27R-ODP-4502-12        | 315                     | 25,7                 | 493              | 93,1              | 0,76                      | 2,2     | 1,1    | 5,0    | 53                | 3020             | 3160         | 3960        |  |
| H27R-ODP-4503-12        | 355                     | 28,9                 | 493              | 93,2              | 0,76                      | 2,2     | 1,2    | 5,0    | 58                | 3350             | 3240         | 4040        |  |
| H27R-ODP-4504-12        | 400                     | 32,6                 | 493              | 93,3              | 0,76                      | 2,2     | 1,2    | 5,0    | 65                | 3770             | 3310         | 4100        |  |
| H27R-ODP-5001-12        | 450                     | 34,8                 | 493              | 93,4              | 0,80                      | 1,8     | 0,9    | 4,3    | 100               | 3940             | 3900         | 4800        |  |
| H27R-ODP-5002-12        | 500                     | 38,6                 | 493              | 93,5              | 0,80                      | 1,9     | 0,9    | 4,3    | 109               | 4420             | 4000         | 4900        |  |
| H27R-ODP-5003-12        | 560                     | 43,2                 | 493              | 93,6              | 0,80                      | 1,9     | 0,9    | 4,3    | 121               | 4740             | 4150         | 5050        |  |
| H27R-ODP-5004-12        | 630                     | 48,5                 | 493              | 93,7              | 0,80                      | 1,9     | 0,9    | 4,4    | 133               | 5880             | 4300         | 5200        |  |
| H27R-ODP-5601-12        | 710                     | 53,9                 | 494              | 93,9              | 0,81                      | 1,9     | 0,9    | 4,5    | 168               | 5590             | 7100         | 8000        |  |
| H27R-ODP-5602-12        | 800                     | 59,9                 | 494              | 94,0              | 0,82                      | 1,8     | 0,9    | 4,4    | 187               | 6390             | 7300         | 8260        |  |
| H27R-ODP-5603-12        | 900                     | 67,3                 | 493              | 94,1              | 0,82                      | 1,8     | 0,9    | 4,3    | 206               | 7000             | 7500         | 8450        |  |
| H27R-ODP-5604-12        | 1000                    | 74,7                 | 494              | 94,2              | 0,82                      | 1,9     | 0,9    | 4,5    | 225               | 7840             | 7780         | 8740        |  |





# H27R- Medium and high voltage motors - modular type



## Electric motors H27R series

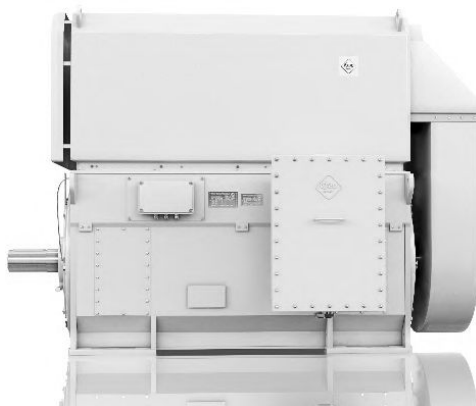
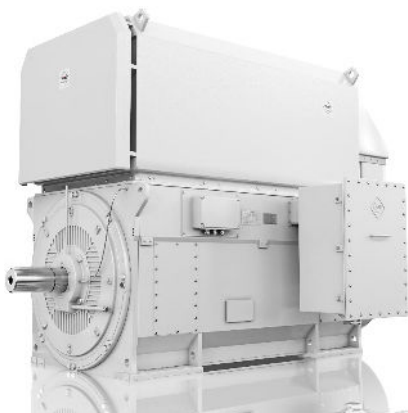
**Type of motor:** H27R  
**Frame sizes:** 315 mm - 1 000 mm  
**Power range:** 110 kW - 10 000 kW  
**Voltage:** 2 000 V - 13 800 V  
**Frame material:** welded steel or cast iron  
**Protection:** IP44, IP55, IP56, IP65, IP67  
**Cooling:** IC611, IC616, IC666

**Mounting:**  
**Possible:**

B3, B35, V1, IM V15  
Special winding of VFD use, can support several kinds of voltage and frequency  
PT100, PTC and other thermal elements can be chose to protect bearings and winding Heaters, anti-vibrations senzors and other

**Accessories:**

## Gallery - 3D



# Technical data H27R series (10 KV)

| Type                   | Rated<br>output (kW) | Rated<br>current (A) | Speed (r/min) | Efficiency<br>(%) | Power<br>factor<br>(cosΦ) | Mmax/Mn | Mst/Mn | Ist/Mn | Jmotor<br>(Kg.m2) | Jload<br>(Kg.m2) | Weight (kg) |
|------------------------|----------------------|----------------------|---------------|-------------------|---------------------------|---------|--------|--------|-------------------|------------------|-------------|
| 2 pole electric motors |                      |                      |               |                   |                           |         |        |        |                   |                  |             |
| H27R-3551-2            | 280                  | 18,9                 | 2978          | 95,0              | 0,90                      | 2,6     | 0,9    | 6,4    | 3,6               | 34               | 2200        |
| H27R-3552-2            | 315                  | 21,2                 | 2981          | 95,1              | 0,90                      | 2,9     | 1,0    | 7,0    | 4                 | 42               | 2250        |
| H27R-3553-2            | 355                  | 23,9                 | 2981          | 95,2              | 0,90                      | 2,8     | 1,0    | 7,0    | 4,3               | 46,4             | 2300        |
| H27R-3554-2            | 400                  | 26,9                 | 2981          | 95,3              | 0,90                      | 2,8     | 1,0    | 7,0    | 4,7               | 52               | 2350        |
| H27R-4001-2            | 450                  | 30,3                 | 2980          | 95,4              | 0,90                      | 2,5     | 1,0    | 6,5    | 6,8               | 65               | 2650        |
| H27R-4002-2            | 500                  | 33,6                 | 2981          | 95,6              | 0,90                      | 2,5     | 1,0    | 6,6    | 7,4               | 73               | 2730        |
| H27R-4003-2            | 560                  | 37,5                 | 2981          | 95,7              | 0,90                      | 2,5     | 1,1    | 6,8    | 8                 | 81               | 2850        |
| H27R-4004-2            | 630                  | 42,2                 | 2982          | 95,8              | 0,90                      | 2,5     | 1,1    | 6,9    | 8,9               | 88               | 2950        |
| H27R-4501-2            | 710                  | 47,5                 | 2984          | 95,9              | 0,90                      | 2,6     | 0,9    | 6,6    | 11                | 65               | 3900        |
| H27R-4502-2            | 800                  | 53,5                 | 2985          | 96,0              | 0,90                      | 2,7     | 1,0    | 7,0    | 13                | 83               | 4200        |
| H27R-4503-2            | 900                  | 60,1                 | 2985          | 96,1              | 0,90                      | 2,6     | 1,0    | 6,9    | 14                | 87               | 4500        |
| H27R-4504-2            | 1000                 | 66,6                 | 2985          | 96,3              | 0,90                      | 2,6     | 1,0    | 6,9    | 15,4              | 99               | 4800        |
| H27R-5001-2            | 1120                 | 73,6                 | 2987          | 96,5              | 0,91                      | 2,9     | 0,7    | 7,0    | 19                | 78               | 5100        |
| H27R-5002-2            | 1250                 | 82,1                 | 2987          | 96,6              | 0,91                      | 2,8     | 0,8    | 7,0    | 21                | 92               | 5340        |
| H27R-5003-2            | 1400                 | 90,9                 | 2987          | 96,7              | 0,92                      | 2,9     | 0,8    | 7,2    | 24                | 101              | 5550        |
| H27R-5004-2            | 1600                 | 103,7                | 2988          | 96,8              | 0,92                      | 2,9     | 0,8    | 7,3    | 26                | 113              | 5780        |
| H27R-5601-2            | 1800                 | 116,7                | 2986          | 96,9              | 0,92                      | 2,2     | 0,6    | 5,6    | 34                | 114              | 6800        |
| H27R-5602-2            | 2000                 | 129,5                | 2986          | 96,9              | 0,92                      | 2,3     | 0,6    | 5,9    | 37                | 132              | 6900        |
| H27R-5603-2            | 2240                 | 144,9                | 2987          | 97,0              | 0,92                      | 2,5     | 0,7    | 6,4    | 41                | 149              | 7150        |
| H27R-5604-2            | 2500                 | 161,6                | 2988          | 97,1              | 0,92                      | 2,7     | 0,8    | 7,0    | 45                | 182              | 7460        |
| 4 pole electric motors |                      |                      |               |                   |                           |         |        |        |                   |                  |             |
| H27R-3551-4            | 280                  | 19,2                 | 1488          | 94,4              | 0,89                      | 2,5     | 1,0    | 6,3    | 6,9               | 124              | 2450        |
| H27R-3552-4            | 315                  | 21,6                 | 1487          | 94,5              | 0,89                      | 2,4     | 1,0    | 6,1    | 7,5               | 145              | 2500        |
| H27R-3553-4            | 355                  | 24,3                 | 1487          | 94,6              | 0,89                      | 2,3     | 1,0    | 5,9    | 8                 | 173              | 2550        |
| H27R-3554-4            | 400                  | 27,4                 | 1489          | 94,7              | 0,89                      | 2,6     | 1,1    | 6,7    | 9                 | 197              | 2600        |
| H27R-4001-4            | 450                  | 30,4                 | 1488          | 94,9              | 0,90                      | 2,3     | 0,8    | 5,7    | 14                | 218              | 2690        |
| H27R-4002-4            | 500                  | 33,7                 | 1488          | 95,1              | 0,90                      | 2,3     | 0,8    | 5,8    | 16                | 242              | 2750        |
| H27R-4003-4            | 560                  | 37,7                 | 1488          | 95,2              | 0,90                      | 2,2     | 0,8    | 5,7    | 17,4              | 272              | 2820        |
| H27R-4004-4            | 630                  | 42,4                 | 1488          | 95,3              | 0,90                      | 2,3     | 0,9    | 5,9    | 19,3              | 306              | 2940        |
| H27R-4501-4            | 710                  | 48,3                 | 1491          | 95,4              | 0,89                      | 2,4     | 0,8    | 6,1    | 20                | 283              | 4320        |
| H27R-4502-4            | 800                  | 54,3                 | 1492          | 95,5              | 0,89                      | 2,5     | 0,9    | 6,4    | 22                | 305              | 4480        |
| H27R-4503-4            | 900                  | 60,4                 | 1491          | 95,6              | 0,90                      | 2,3     | 0,8    | 6,1    | 25                | 363              | 4640        |
| H27R-4504-4            | 1000                 | 67,0                 | 1491          | 95,7              | 0,90                      | 2,2     | 0,8    | 5,9    | 27                | 387              | 4810        |
| H27R-5001-4            | 1120                 | 75,0                 | 1491          | 95,8              | 0,90                      | 1,9     | 0,7    | 5,2    | 46                | 491              | 5540        |



# Technical data for H27R series (10 KV)

| Type                   | Rated<br>output (kW) | Rated<br>current (A) | Speed (r/min) | Efficiency<br>(%) | Power<br>factor<br>(cosΦ) | Mmax/Mn | Mst/Mn | Ist/Mn | Jmotor<br>(Kg.m2) | Jload<br>(Kg.m2) | Weight (kg) |
|------------------------|----------------------|----------------------|---------------|-------------------|---------------------------|---------|--------|--------|-------------------|------------------|-------------|
| 4 pole electric motors |                      |                      |               |                   |                           |         |        |        |                   |                  |             |
| H27R-5002-4            | 1250                 | 83,6                 | 1491          | 95,9              | 0,90                      | 1,9     | 0,7    | 5,1    | 51                | 566              | 5680        |
| H27R-5003-4            | 1400                 | 93,6                 | 1491          | 96,0              | 0,90                      | 1,9     | 0,7    | 5,1    | 56                | 653              | 5780        |
| H27R-5004-4            | 1600                 | 106,8                | 1491          | 96,1              | 0,90                      | 1,9     | 0,7    | 5,1    | 61                | 710              | 5950        |
| H27R-5601-4            | 1800                 | 120,0                | 1493          | 96,2              | 0,90                      | 2,4     | 0,8    | 6,4    | 64                | 588              | 7800        |
| H27R-5602-4            | 2000                 | 133,2                | 1494          | 96,3              | 0,90                      | 2,6     | 0,8    | 6,8    | 70                | 663              | 8050        |
| H27R-5603-4            | 2240                 | 147,4                | 1493          | 96,4              | 0,91                      | 2,1     | 0,7    | 6,8    | 77                | 757              | 8300        |
| H27R-5604-4            | 2500                 | 164,4                | 1493          | 96,5              | 0,91                      | 2,3     | 0,8    | 6,4    | 85                | 809              | 8560        |
| 6 pole electric motors |                      |                      |               |                   |                           |         |        |        |                   |                  |             |
| H27R-4001-6            | 315                  | 22,8                 | 990           | 94,0              | 0,85                      | 2,1     | 0,9    | 5,1    | 17                | 397              | 2700        |
| H27R-4002-6            | 355                  | 25,6                 | 990           | 94,1              | 0,85                      | 1,9     | 0,8    | 4,9    | 19                | 462              | 2800        |
| H27R-4003-6            | 400                  | 28,8                 | 990           | 94,2              | 0,85                      | 2,2     | 1,0    | 5,6    | 20                | 545              | 2895        |
| H27R-4004-6            | 450                  | 32,4                 | 991           | 94,3              | 0,85                      | 2,1     | 0,9    | 5,4    | 22                | 630              | 3020        |
| H27R-4005-6            | 500                  | 36,0                 | 991           | 94,4              | 0,85                      | 2,1     | 1,0    | 5,5    | 25                | 714              | 3150        |
| H27R-4501-6            | 560                  | 40,2                 | 991           | 94,6              | 0,85                      | 2,0     | 0,9    | 5,3    | 29                | 685              | 4300        |
| H27R-4502-6            | 630                  | 44,7                 | 991           | 94,7              | 0,86                      | 2,0     | 0,9    | 5,2    | 33                | 783              | 4460        |
| H27R-4503-6            | 710                  | 50,3                 | 991           | 94,8              | 0,86                      | 2,0     | 0,9    | 5,3    | 36                | 842              | 4610        |
| H27R-4504-6            | 800                  | 56,5                 | 992           | 95,0              | 0,86                      | 2,1     | 0,9    | 5,5    | 40                | 1070             | 4730        |
| H27R-5001-6            | 900                  | 62,8                 | 992           | 95,1              | 0,87                      | 2,2     | 0,9    | 5,6    | 62                | 1030             | 5250        |
| H27R-5002-6            | 1000                 | 68,9                 | 992           | 95,2              | 0,88                      | 2,2     | 0,9    | 5,6    | 69                | 1170             | 5340        |
| H27R-5003-6            | 1120                 | 77,1                 | 992           | 95,3              | 0,88                      | 2,1     | 0,9    | 5,6    | 75                | 1340             | 5600        |
| H27R-5004-6            | 1250                 | 85,9                 | 992           | 95,4              | 0,88                      | 2,1     | 0,9    | 5,6    | 83                | 1470             | 5780        |
| H27R-5601-6            | 1400                 | 96,1                 | 993           | 95,6              | 0,88                      | 1,9     | 0,9    | 5,5    | 107               | 1410             | 7500        |
| H27R-5602-6            | 1600                 | 109,7                | 993           | 95,7              | 0,88                      | 1,9     | 0,9    | 5,5    | 120               | 1580             | 7850        |
| H27R-5603-6            | 1800                 | 121,9                | 994           | 95,8              | 0,89                      | 2,0     | 0,9    | 5,7    | 132               | 1770             | 8100        |
| H27R-5604-6            | 2000                 | 135,1                | 994           | 96,0              | 0,89                      | 2,1     | 1,0    | 6,3    | 144               | 2100             | 8360        |
| 8 pole electric motors |                      |                      |               |                   |                           |         |        |        |                   |                  |             |
| H27R-4001-8            | 280                  | 21,7                 | 743           | 93,2              | 0,80                      | 2,5     | 1,3    | 6,0    | 27                | 788              | 2700        |
| H27R-4002-8            | 315                  | 24,3                 | 742           | 93,4              | 0,80                      | 2,4     | 1,2    | 5,8    | 30                | 960              | 2750        |
| H27R-4003-8            | 355                  | 27,1                 | 742           | 93,5              | 0,81                      | 2,3     | 1,2    | 5,6    | 33                | 1060             | 2790        |
| H27R-4004-8            | 400                  | 30,5                 | 742           | 93,6              | 0,81                      | 2,3     | 1,2    | 5,6    | 36                | 1180             | 2850        |
| H27R-4501-8            | 450                  | 34,1                 | 743           | 94,0              | 0,81                      | 2,0     | 1,0    | 5,1    | 39                | 1030             | 4450        |
| H27R-4502-8            | 500                  | 37,8                 | 743           | 94,2              | 0,81                      | 2,1     | 1,0    | 5,2    | 43                | 1160             | 4560        |
| H27R-4503-8            | 560                  | 42,3                 | 743           | 94,4              | 0,81                      | 2,1     | 1,0    | 5,3    | 47                | 1390             | 4640        |
| H27R-4504-8            | 630                  | 47,5                 | 743           | 94,5              | 0,81                      | 2,1     | 1,1    | 5,4    | 52                | 1540             | 4750        |



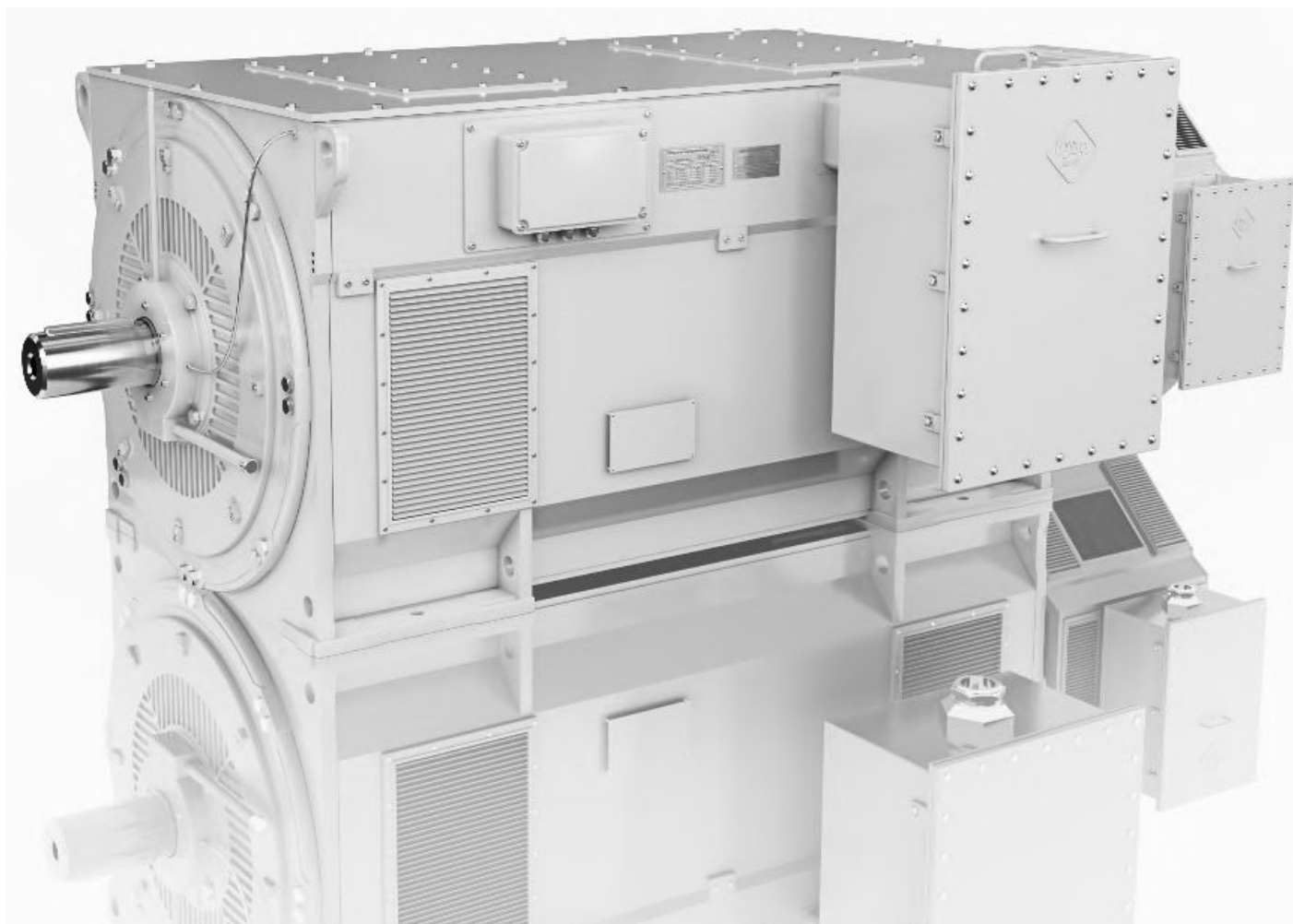
# Technical data H27R series (10 KV)

| Type                    | Rated output (kW) | Rated current (A) | Speed (r/min) | Efficiency (%) | Power factor (cosΦ) | Mmax/Mn | Mst/Mn | Ist/Mn | Jmotor (Kg.m2) | Jload (Kg.m2) | Weight (kg) |
|-------------------------|-------------------|-------------------|---------------|----------------|---------------------|---------|--------|--------|----------------|---------------|-------------|
| 8 pole electric motors  |                   |                   |               |                |                     |         |        |        |                |               |             |
| H27R-5001-8             | 710               | 52,7              | 744           | 94,9           | 0,82                | 2,2     | 1,0    | 5,6    | 83             | 1520          | 5100        |
| H27R-5002-8             | 800               | 58,6              | 744           | 95,0           | 0,83                | 2,1     | 1,0    | 5,3    | 90             | 1840          | 5180        |
| H27R-5003-8             | 900               | 65,8              | 743           | 95,1           | 0,83                | 2,0     | 0,9    | 5,1    | 100            | 2070          | 5320        |
| H27R-5004-8             | 1000              | 72,2              | 743           | 95,2           | 0,84                | 1,9     | 0,9    | 5,0    | 111            | 2350          | 5550        |
| H27R-5601-8             | 1120              | 79,8              | 744           | 95,3           | 0,85                | 1,9     | 0,7    | 4,8    | 143            | 2250          | 7500        |
| H27R-5602-8             | 1250              | 89,0              | 744           | 95,4           | 0,85                | 1,8     | 0,7    | 4,7    | 159            | 2550          | 7750        |
| H27R-5603-8             | 1400              | 99,6              | 744           | 95,5           | 0,85                | 1,8     | 0,7    | 4,7    | 175            | 2890          | 8000        |
| H27R-5604-8             | 1600              | 113,7             | 744           | 95,6           | 0,85                | 1,8     | 0,7    | 4,7    | 191            | 3090          | 8200        |
| 10 pole electric motors |                   |                   |               |                |                     |         |        |        |                |               |             |
| H27R-4501-10            | 315               | 24,7              | 593           | 93,1           | 0,79                | 2,0     | 1,0    | 4,9    | 45             | 1930          | 4570        |
| H27R-4502-10            | 355               | 27,8              | 593           | 93,2           | 0,79                | 1,9     | 0,9    | 4,7    | 50             | 2150          | 4660        |
| H27R-4503-10            | 400               | 30,9              | 593           | 93,3           | 0,79                | 1,9     | 0,9    | 4,6    | 54             | 2410          | 4760        |
| H27R-4504-10            | 450               | 34,8              | 593           | 93,4           | 0,80                | 1,8     | 0,9    | 4,5    | 60             | 2730          | 4850        |
| H27R-5001-10            | 500               | 39,0              | 595           | 93,6           | 0,79                | 2,1     | 1,1    | 5,4    | 91             | 2920          | 5100        |
| H27R-5002-10            | 560               | 43,1              | 594           | 93,8           | 0,80                | 1,9     | 0,9    | 4,9    | 101            | 3470          | 5270        |
| H27R-5003-10            | 630               | 48,4              | 594           | 93,9           | 0,80                | 2,0     | 0,9    | 5,0    | 111            | 4300          | 5420        |
| H27R-5004-10            | 710               | 54,5              | 594           | 94,0           | 0,80                | 1,9     | 0,9    | 4,7    | 122            | 4580          | 5640        |
| H27R-5601-10            | 800               | 60,3              | 594           | 94,6           | 0,81                | 1,8     | 0,8    | 4,6    | 151            | 3770          | 7460        |
| H27R-5602-10            | 900               | 67,7              | 594           | 94,7           | 0,81                | 1,8     | 0,8    | 4,4    | 168            | 4300          | 7680        |
| H27R-5603-10            | 1000              | 75,2              | 594           | 94,8           | 0,81                | 1,8     | 0,8    | 4,4    | 185            | 4740          | 7900        |
| H27R-5604-10            | 1120              | 84,1              | 594           | 94,9           | 0,81                | 1,8     | 0,8    | 4,5    | 202            | 5300          | 8100        |
| 12 pole electric motors |                   |                   |               |                |                     |         |        |        |                |               |             |
| H27R-4501-12            | 280               | 22,4              | 494           | 92,7           | 0,78                | 2,1     | 1,0    | 4,7    | 53             | 3060          | 4500        |
| H27R-4502-12            | 315               | 25,1              | 494           | 92,8           | 0,78                | 2,0     | 0,9    | 4,7    | 58             | 3430          | 4680        |
| H27R-4503-12            | 355               | 28,3              | 494           | 92,9           | 0,78                | 2,0     | 0,9    | 4,5    | 65             | 3900          | 4670        |
| H27R-5001-12            | 400               | 31,0              | 494           | 93,0           | 0,80                | 2,1     | 1,0    | 4,7    | 100            | 4110          | 5150        |
| H27R-5002-12            | 450               | 34,9              | 494           | 93,1           | 0,80                | 2,1     | 1,0    | 4,7    | 109            | 4590          | 5240        |
| H27R-5003-12            | 500               | 38,7              | 494           | 93,2           | 0,80                | 2,1     | 1,0    | 4,8    | 121            | 4930          | 5310        |
| H27R-5004-12            | 560               | 43,3              | 494           | 93,3           | 0,80                | 2,1     | 1,0    | 4,9    | 133            | 6130          | 5540        |
| H27R-5601-12            | 630               | 47,9              | 494           | 93,8           | 0,81                | 1,8     | 0,9    | 4,3    | 168            | 4940          | 7400        |
| H27R-5602-12            | 710               | 53,9              | 494           | 93,9           | 0,81                | 1,8     | 0,8    | 4,1    | 186            | 5590          | 7600        |
| H27R-5603-12            | 800               | 60,7              | 494           | 94,0           | 0,81                | 1,8     | 0,8    | 4,1    | 205            | 6330          | 7800        |
| H27R-5604-12            | 900               | 68,2              | 494           | 94,1           | 0,81                | 1,8     | 0,8    | 4,1    | 224            | 6440          | 8000        |





# H27R-SR-ODP - Slip ring motors - modular type

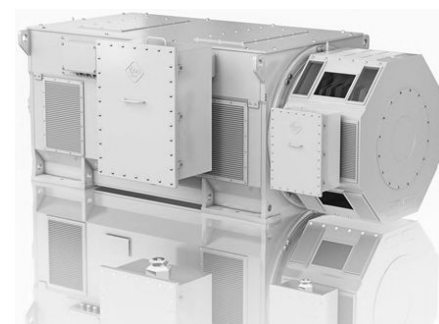
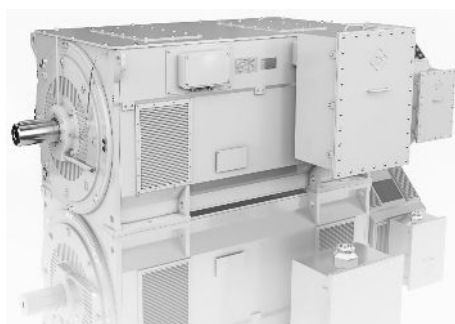


## Electric motors H27R-SR-ODP series

|                        |                                                |
|------------------------|------------------------------------------------|
| <b>Type of motor:</b>  | H27R-SR-ODP (slip ring motor with wound rotor) |
| <b>Frame sizes:</b>    | 355 mm - 1000 mm                               |
| <b>Power range:</b>    | 132 kW - 20 000 kW                             |
| <b>Voltage:</b>        | 2000 V - 13 800 V                              |
| <b>Frame material:</b> | welded steel frame                             |
| <b>Protection:</b>     | IP21                                           |
| <b>Cooling:</b>        | IC01, IC06                                     |

|                     |                                                                                                                               |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Mounting:</b>    | B3, B35, V1, IM V15                                                                                                           |
| <b>Possible:</b>    | Possible customized voltage of wound rotor                                                                                    |
| <b>Accessories:</b> | PT100, PTC and other thermal elements can be chose to protect bearings and winding Heaters, anti-vibrations senzors and other |

## Gallery - 3D



# Technical data for H27R-SR-ODP- series (10 KV)

| Type                   | Rated output<br>(kW) | Rated current (A) | Speed (r/min) | Efficiency (%) | Power factor<br>(cosΦ) | Mmax/Mn | Rotor voltage (V) | Rotor current (A) |
|------------------------|----------------------|-------------------|---------------|----------------|------------------------|---------|-------------------|-------------------|
| 4 pole electric motors |                      |                   |               |                |                        |         |                   |                   |
| H27R-SR-ODP-3551-4     | 280                  | 20,8              | 1490          | 92,4           | 0,84                   | 1,8     | 403               | 415               |
| H27R-SR-ODP-3552-4     | 315                  | 23,4              | 1490          | 92,5           | 0,84                   | 1,8     | 454               | 423               |
| H27R-SR-ODP-3553-4     | 355                  | 26,3              | 1490          | 92,8           | 0,84                   | 1,8     | 507               | 426               |
| H27R-SR-ODP-3554-4     | 400                  | 29,2              | 1490          | 93,1           | 0,85                   | 1,8     | 552               | 438               |
| H27R-SR-ODP-4001-4     | 450                  | 32,8              | 1490          | 93,3           | 0,85                   | 1,8     | 577               | 472               |
| H27R-SR-ODP-4002-4     | 500                  | 36,3              | 1490          | 93,6           | 0,85                   | 1,8     | 634               | 475               |
| H27R-SR-ODP-4003-4     | 560                  | 40,6              | 1490          | 93,8           | 0,85                   | 1,8     | 674               | 500               |
| H27R-SR-ODP-4004-4     | 630                  | 45,4              | 1490          | 94,2           | 0,85                   | 1,8     | 641               | 590               |
| H27R-SR-ODP-4501-4     | 710                  | 51,0              | 1490          | 94,6           | 0,85                   | 2,0     | 660               | 647               |
| H27R-SR-ODP-4502-4     | 800                  | 57,4              | 1490          | 94,7           | 0,85                   | 2,0     | 701               | 688               |
| H27R-SR-ODP-4503-4     | 900                  | 64,5              | 1492          | 94,8           | 0,85                   | 2,0     | 722               | 754               |
| H27R-SR-ODP-4504-4     | 1000                 | 70,7              | 1492          | 94,9           | 0,86                   | 2,0     | 795               | 760               |
| H27R-SR-ODP-5001-4     | 1120                 | 79,1              | 1492          | 95,1           | 0,86                   | 2,1     | 938               | 714               |
| H27R-SR-ODP-5002-4     | 1250                 | 87,1              | 1493          | 95,2           | 0,87                   | 2,1     | 1018              | 734               |
| H27R-SR-ODP-5003-4     | 1400                 | 97,5              | 1493          | 95,3           | 0,87                   | 2,1     | 1112              | 753               |
| H27R-SR-ODP-5004-4     | 1600                 | 111,3             | 1492          | 95,4           | 0,87                   | 2,2     | 1253              | 760               |
| H27R-SR-ODP-5601-4     | 1800                 | 123,7             | 1492          | 95,5           | 0,88                   | 2,2     | 1642              | 654               |
| H27R-SR-ODP-5602-4     | 2000                 | 137,3             | 1493          | 95,6           | 0,88                   | 2,5     | 1781              | 671               |
| H27R-SR-ODP-5603-4     | 2240                 | 153,6             | 1493          | 95,7           | 0,88                   | 2,5     | 1829              | 726               |
| H27R-SR-ODP-5604-4     | 2500                 | 171,2             | 1493          | 95,8           | 0,88                   | 2,5     | 2043              | 729               |
| 6 pole electric motors |                      |                   |               |                |                        |         |                   |                   |
| H27R-SR-ODP-4001-6     | 315                  | 24,3              | 990           | 92,4           | 0,81                   | 1,8     | 509               | 375               |
| H27R-SR-ODP-4002-6     | 355                  | 27,3              | 990           | 92,6           | 0,81                   | 1,8     | 552               | 389               |
| H27R-SR-ODP-4003-6     | 400                  | 30,7              | 990           | 92,8           | 0,81                   | 1,8     | 602               | 401               |
| H27R-SR-ODP-4004-6     | 450                  | 34,5              | 991           | 93,1           | 0,81                   | 1,8     | 812               | 332               |
| H27R-SR-ODP-4005-6     | 500                  | 38,2              | 991           | 93,4           | 0,81                   | 1,8     | 849               | 353               |
| H27R-SR-ODP-4501-6     | 560                  | 42,1              | 992           | 93,6           | 0,82                   | 2,0     | 909               | 369               |
| H27R-SR-ODP-4502-6     | 630                  | 47,3              | 992           | 93,8           | 0,82                   | 2,0     | 939               | 404               |
| H27R-SR-ODP-4503-6     | 710                  | 53,2              | 992           | 94,0           | 0,82                   | 2,0     | 1060              | 400               |
| H27R-SR-ODP-4504-6     | 800                  | 58,3              | 992           | 94,3           | 0,84                   | 2,2     | 844               | 570               |
| H27R-SR-ODP-5001-6     | 900                  | 65,5              | 993           | 94,5           | 0,84                   | 2,2     | 906               | 600               |
| H27R-SR-ODP-5002-6     | 1000                 | 72,6              | 993           | 94,7           | 0,84                   | 2,2     | 973               | 618               |
| H27R-SR-ODP-5003-6     | 1120                 | 80,2              | 993           | 94,9           | 0,85                   | 2,4     | 1062              | 625               |
| H27R-SR-ODP-5004-6     | 1250                 | 89,3              | 993           | 95,1           | 0,85                   | 2,4     | 1137              | 660               |



# Technical data H27R-SR-ODP series (10 KV)

| Type                    | Rated output<br>(kW) | Rated current (A) | Speed (r/min) | Efficiency (%) | Power factor<br>(cosΦ) | Mmax/Mn | Rotor voltage (V) | Rotor current (A) |
|-------------------------|----------------------|-------------------|---------------|----------------|------------------------|---------|-------------------|-------------------|
| 6 pole electric motors  |                      |                   |               |                |                        |         |                   |                   |
| H27R-SR-ODP-5601-6      | 1400                 | 99,8              | 994           | 95,3           | 0,85                   | 2,5     | 1270              | 659               |
| H27R-SR-ODP-5602-6      | 1600                 | 112,6             | 994           | 95,4           | 0,86                   | 2,5     | 1453              | 650               |
| H27R-SR-ODP-5603-6      | 1800                 | 126,4             | 994           | 95,6           | 0,86                   | 2,5     | 1570              | 683               |
| H27R-SR-ODP-5604-6      | 2000                 | 140,2             | 994           | 95,8           | 0,86                   | 2,5     | 1690              | 707               |
| 8 pole electric motors  |                      |                   |               |                |                        |         |                   |                   |
| H27R-SR-ODP-4001-8      | 280                  | 22,7              | 740           | 92,3           | 0,77                   | 1,8     | 579               | 291               |
| H27R-SR-ODP-4002-8      | 315                  | 25,5              | 740           | 92,5           | 0,77                   | 1,8     | 639               | 295               |
| H27R-SR-ODP-4003-8      | 355                  | 28,7              | 740           | 92,8           | 0,77                   | 1,8     | 677               | 314               |
| H27R-SR-ODP-4004-8      | 400                  | 32,2              | 740           | 93,1           | 0,77                   | 1,8     | 719               | 333               |
| H27R-SR-ODP-4501-8      | 450                  | 35,7              | 741           | 93,3           | 0,78                   | 1,8     | 734               | 369               |
| H27R-SR-ODP-4502-8      | 500                  | 39,1              | 741           | 93,5           | 0,79                   | 1,8     | 785               | 382               |
| H27R-SR-ODP-4503-8      | 560                  | 43,7              | 741           | 93,7           | 0,79                   | 2,0     | 879               | 379               |
| H27R-SR-ODP-4504-8      | 630                  | 48,5              | 741           | 93,8           | 0,80                   | 2,0     | 944               | 398               |
| H27R-SR-ODP-5001-8      | 710                  | 54,5              | 741           | 94,0           | 0,80                   | 2,1     | 1016              | 417               |
| H27R-SR-ODP-5002-8      | 800                  | 60,5              | 742           | 94,2           | 0,81                   | 2,1     | 1102              | 434               |
| H27R-SR-ODP-5003-8      | 900                  | 67,1              | 742           | 94,4           | 0,82                   | 2,1     | 1197              | 405               |
| H27R-SR-ODP-5004-8      | 1000                 | 74,4              | 742           | 94,6           | 0,82                   | 2,2     | 1277              | 475               |
| H27R-SR-ODP-5601-8      | 1120                 | 83,2              | 745           | 94,8           | 0,82                   | 2,2     | 1400              | 483               |
| H27R-SR-ODP-5602-8      | 1250                 | 91,5              | 745           | 95,0           | 0,83                   | 2,5     | 1375              | 545               |
| H27R-SR-ODP-5603-8      | 1400                 | 102,4             | 745           | 95,1           | 0,83                   | 2,5     | 1448              | 582               |
| H27R-SR-ODP-5604-8      | 1600                 | 116,8             | 745           | 95,3           | 0,83                   | 2,5     | 1548              | 619               |
| 10 pole electric motors |                      |                   |               |                |                        |         |                   |                   |
| H27R-SR-ODP-4501-10     | 280                  | 24,1              | 591           | 92,0           | 0,73                   | 1,8     | 682               | 246               |
| H27R-SR-ODP-4502-10     | 315                  | 26,7              | 591           | 92,1           | 0,74                   | 1,8     | 727               | 259               |
| H27R-SR-ODP-4503-10     | 355                  | 27,7              | 591           | 92,3           | 0,74                   | 1,8     | 779               | 272               |
| H27R-SR-ODP-4504-10     | 400                  | 33,3              | 591           | 92,5           | 0,75                   | 1,8     | 734               | 329               |
| H27R-SR-ODP-4505-10     | 450                  | 36,8              | 593           | 92,9           | 0,76                   | 1,8     | 787               | 344               |
| H27R-SR-ODP-5001-10     | 500                  | 40,8              | 593           | 93,1           | 0,76                   | 1,8     | 848               | 355               |



# Technical data for H27R-SR-ODP- series (10 KV)

| Type                    | Rated output<br>(kW) | Rated current (A) | Speed (r/min) | Efficiency (%) | Power factor<br>(cosΦ) | Mmax/Mn | Rotor voltage (V) | Rotor current (A) |
|-------------------------|----------------------|-------------------|---------------|----------------|------------------------|---------|-------------------|-------------------|
| 10 pole electric motors |                      |                   |               |                |                        |         |                   |                   |
| H27R-SR-ODP-5002-10     | 560                  | 45,6              | 593           | 93,3           | 0,76                   | 2,0     | 919               | 367               |
| H27R-SR-ODP-5003-10     | 630                  | 50,5              | 593           | 93,5           | 0,77                   | 2,0     | 1006              | 378               |
| H27R-SR-ODP-5004-10     | 710                  | 56,0              | 594           | 93,8           | 0,78                   | 2,0     | 1086              | 395               |
| H27R-SR-ODP-5601-10     | 800                  | 63,0              | 594           | 94,0           | 0,78                   | 2,0     | 1149              | 422               |
| H27R-SR-ODP-5602-10     | 900                  | 70,8              | 595           | 94,1           | 0,78                   | 2,0     | 1191              | 457               |
| H27R-SR-ODP-5603-10     | 1000                 | 78,5              | 595           | 94,3           | 0,78                   | 2,2     | 1229              | 493               |
| H27R-SR-ODP-5604-10     | 1120                 | 86,6              | 595           | 94,5           | 0,79                   | 2,2     | 1350              | 496               |
| 12 pole electric motors |                      |                   |               |                |                        |         |                   |                   |
| H27R-SR-ODP-4501-12     | 280                  | 24,5              | 494           | 91,6           | 0,72                   | 1,8     | 683               | 244               |
| H27R-SR-ODP-4502-12     | 315                  | 27,2              | 494           | 91,7           | 0,73                   | 1,8     | 726               | 257               |
| H27R-SR-ODP-4503-12     | 355                  | 30,6              | 494           | 91,8           | 0,73                   | 1,8     | 776               | 272               |
| H27R-SR-ODP-5001-12     | 400                  | 34,4              | 495           | 92,0           | 0,73                   | 1,8     | 832               | 286               |
| H27R-SR-ODP-5002-12     | 450                  | 38,6              | 495           | 92,3           | 0,73                   | 1,8     | 895               | 298               |
| H27R-SR-ODP-5003-12     | 500                  | 42,8              | 495           | 92,5           | 0,73                   | 1,8     | 856               | 345               |
| H27R-SR-ODP-5004-12     | 560                  | 47,0              | 495           | 92,9           | 0,74                   | 1,8     | 928               | 357               |
| H27R-SR-ODP-5601-12     | 630                  | 52,7              | 495           | 93,2           | 0,74                   | 1,8     | 1012              | 368               |
| H27R-SR-ODP-5602-12     | 710                  | 58,5              | 496           | 93,5           | 0,75                   | 1,8     | 1116              | 377               |
| H27R-SR-ODP-5603-12     | 800                  | 65,7              | 496           | 93,7           | 0,75                   | 1,8     | 1219              | 393               |
| H27R-SR-ODP-5604-12     | 900                  | 73,8              | 496           | 93,9           | 0,75                   | 1,8     | 1305              | 416               |





# H27R-SR - Slip ring motors - modular type

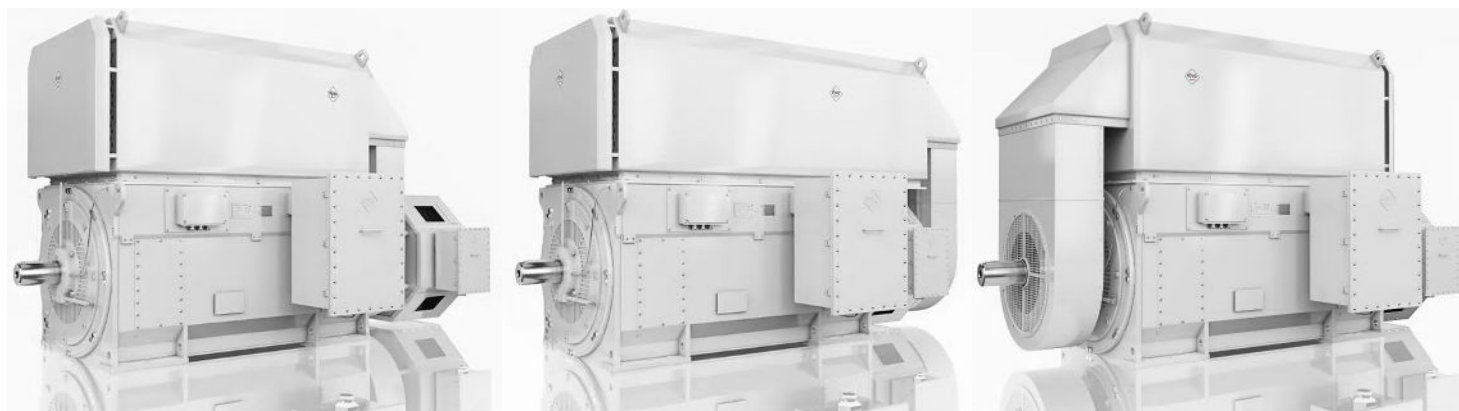


## Electric motors H27R-SR series

**Type of motor:** H27R-SR (slip ring motor with wound rotor)  
**Frame sizes:** 355 mm - 1000 mm  
**Power range:** 132 kW - 20 000 kW  
**Voltage:** 2000 V - 13 800 V  
**Frame material:** welded steel frame  
**Protection:** IP44, IP54, IP55  
**Cooling:** IC611, IC616, IC666, IC86W, IC01, IC06

**Mounting:** B3, B35, V1, IM V15  
**Possible:** Possible customized voltage of wound rotor  
**Accessories:** PT100, PTC and other thermal elements can be chose to protect bearings and winding Heaters, anti-vibrations senzors and other

## Gallery - 3D



# Technical data H27R-SR series (10 KV)

| Type                   | Rated output (kW) | Rated current (A) | Speed (r/min) | Efficiency (%) | Power factor (cosΦ) | Mmax/Mn | Rotor voltage (V) | Rotor current (A) |
|------------------------|-------------------|-------------------|---------------|----------------|---------------------|---------|-------------------|-------------------|
| 4 pole electric motors |                   |                   |               |                |                     |         |                   |                   |
| H27R-SR-4001-4         | 280               | 20,9              | 1486          | 92,0           | 0,84                | 1,8     | 506               | 333               |
| H27R-SR-4002-4         | 315               | 23,5              | 1486          | 92,1           | 0,84                | 1,8     | 553               | 342               |
| H27R-SR-4003-4         | 355               | 26,4              | 1486          | 92,3           | 0,84                | 1,8     | 576               | 369               |
| H27R-SR-4004-4         | 400               | 29,7              | 1487          | 92,5           | 0,84                | 1,8     | 633               | 377               |
| H27R-SR-4005-4         | 450               | 33,0              | 1487          | 92,6           | 0,85                | 1,8     | 674               | 398               |
| H27R-SR-4006-4         | 500               | 36,6              | 1488          | 92,7           | 0,85                | 1,8     | 640               | 473               |
| H27R-SR-4501-4         | 560               | 40,4              | 1487          | 92,9           | 0,86                | 1,9     | 660               | 514               |
| H27R-SR-4502-4         | 630               | 45,4              | 1487          | 93,1           | 0,86                | 1,9     | 700               | 544               |
| H27R-SR-4503-4         | 710               | 51,0              | 1487          | 93,5           | 0,86                | 2,0     | 721               | 595               |
| H27R-SR-4504-4         | 800               | 57,4              | 1488          | 93,6           | 0,86                | 2,0     | 794               | 608               |
| H27R-SR-5001-4         | 900               | 64,3              | 1488          | 93,9           | 0,86                | 2,0     | 937               | 569               |
| H27R-SR-5002-4         | 1000              | 71,4              | 1489          | 94,0           | 0,86                | 2,0     | 1018              | 583               |
| H27R-SR-5003-4         | 1120              | 78,9              | 1489          | 94,2           | 0,87                | 2,1     | 1111              | 598               |
| H27R-SR-5004-4         | 1250              | 87,8              | 1490          | 94,5           | 0,87                | 2,1     | 1168              | 644               |
| H27R-SR-5601-4         | 1400              | 98,1              | 1490          | 94,7           | 0,87                | 2,2     | 1286              | 655               |
| H27R-SR-5602-4         | 1600              | 112,0             | 1490          | 94,8           | 0,87                | 2,2     | 1430              | 672               |
| H27R-SR-5603-4         | 1800              | 125,9             | 1490          | 94,9           | 0,87                | 2,4     | 1555              | 687               |
| H27R-SR-5604-4         | 2000              | 139,7             | 1490          | 95,0           | 0,87                | 2,4     | 1640              | 725               |
| 6 pole electric motors |                   |                   |               |                |                     |         |                   |                   |
| H27R-SR-4001-6         | 280               | 21,1              | 988           | 92,2           | 0,83                | 1,8     | 551               | 304               |
| H27R-SR-4002-6         | 315               | 23,7              | 988           | 92,4           | 0,83                | 1,8     | 601               | 313               |
| H27R-SR-4003-6         | 355               | 26,7              | 989           | 92,6           | 0,83                | 1,8     | 809               | 264               |
| H27R-SR-4004-6         | 400               | 29,6              | 989           | 92,8           | 0,84                | 1,8     | 846               | 284               |
| H27R-SR-4501-6         | 450               | 33,3              | 989           | 93,0           | 0,84                | 1,9     | 906               | 298               |
| H27R-SR-4502-6         | 500               | 36,9              | 990           | 93,2           | 0,84                | 1,9     | 934               | 321               |
| H27R-SR-4503-6         | 560               | 40,7              | 990           | 93,5           | 0,85                | 1,9     | 1055              | 316               |
| H27R-SR-4504-6         | 630               | 45,7              | 990           | 93,7           | 0,85                | 2,0     | 842               | 443               |
| H27R-SR-5001-6         | 710               | 51,4              | 991           | 93,8           | 0,85                | 2,0     | 905               | 465               |
| H27R-SR-5002-6         | 800               | 57,2              | 992           | 93,9           | 0,86                | 2,0     | 971               | 486               |
| H27R-SR-5003-6         | 900               | 64,3              | 992           | 94,0           | 0,86                | 2,1     | 1053              | 505               |
| H27R-SR-5004-6         | 1000              | 71,3              | 993           | 94,2           | 0,86                | 2,2     | 1062              | 562               |
| H27R-SR-5601-6         | 1120              | 79,6              | 993           | 94,5           | 0,86                | 2,2     | 1160              | 577               |
| H27R-SR-5602-6         | 1250              | 88,7              | 993           | 94,6           | 0,86                | 2,4     | 1271              | 583               |
| H27R-SR-5603-6         | 1400              | 99,2              | 994           | 94,7           | 0,86                | 2,4     | 1365              | 609               |
| H27R-SR-5604-6         | 1600              | 113,3             | 994           | 94,8           | 0,86                | 2,5     | 1487              | 644               |



# Technical data for H27R-SR- series (10 KV)

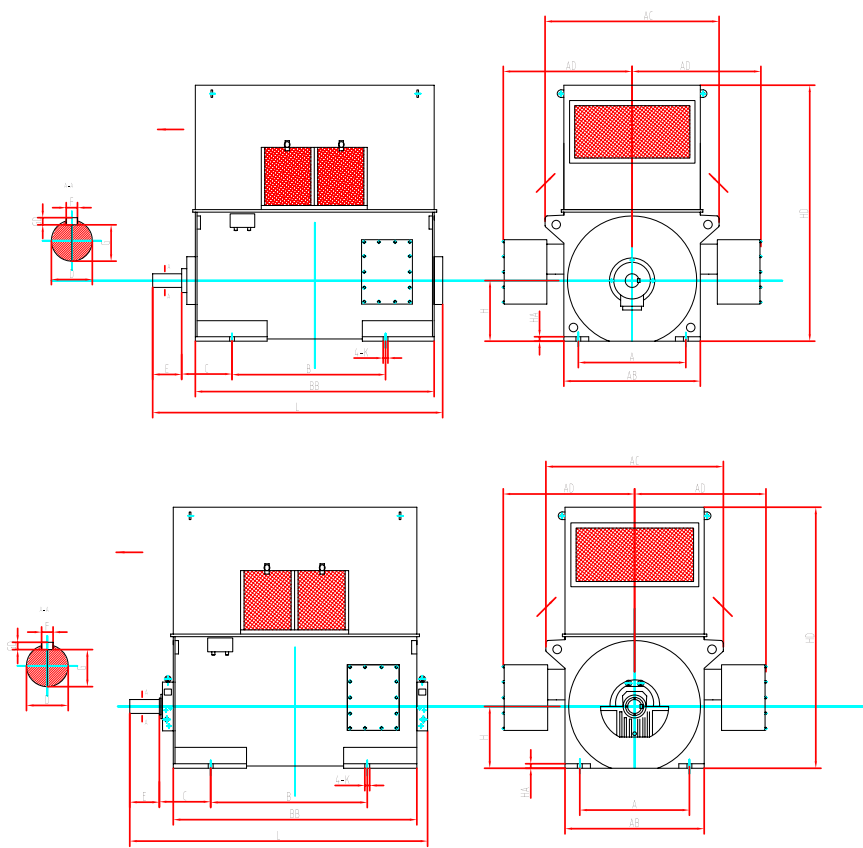
| Type                    | Rated output<br>(kW) | Rated current (A) | Speed (r/min) | Efficiency (%) | Power factor<br>(cosΦ) | Mmax/Mn | Rotor voltage (V) | Rotor current (A) |
|-------------------------|----------------------|-------------------|---------------|----------------|------------------------|---------|-------------------|-------------------|
| 8 pole electric motors  |                      |                   |               |                |                        |         |                   |                   |
| H27R-SR-4501-8          | 280                  | 24,1              | 740           | 92,0           | 0,73                   | 1,8     | 677               | 250               |
| H27R-SR-4502-8          | 315                  | 27,0              | 740           | 92,2           | 0,73                   | 1,8     | 718               | 263               |
| H27R-SR-4503-8          | 355                  | 30,0              | 740           | 92,4           | 0,74                   | 1,8     | 733               | 291               |
| H27R-SR-4504-8          | 400                  | 33,6              | 741           | 92,8           | 0,74                   | 1,8     | 784               | 305               |
| H27R-SR-4505-8          | 450                  | 37,7              | 741           | 93,1           | 0,74                   | 1,8     | 878               | 302               |
| H27R-SR-4506-8          | 500                  | 41,8              | 741           | 93,3           | 0,74                   | 1,8     | 942               | 313               |
| H27R-SR-5001-8          | 560                  | 46,1              | 742           | 93,5           | 0,75                   | 1,8     | 1014              | 325               |
| H27R-SR-5002-8          | 630                  | 51,8              | 742           | 93,6           | 0,75                   | 1,9     | 1101              | 337               |
| H27R-SR-5003-8          | 710                  | 56,8              | 742           | 93,7           | 0,77                   | 1,9     | 1059              | 398               |
| H27R-SR-5004-8          | 800                  | 63,9              | 745           | 93,8           | 0,77                   | 2,0     | 1152              | 409               |
| H27R-SR-5601-8          | 900                  | 70,0              | 745           | 94,0           | 0,79                   | 2,2     | 1268              | 418               |
| H27R-SR-5602-8          | 1000                 | 74,7              | 745           | 94,2           | 0,82                   | 2,2     | 1374              | 439               |
| H27R-SR-5603-8          | 1120                 | 83,5              | 745           | 94,4           | 0,82                   | 2,3     | 1463              | 458               |
| H27R-SR-5604-8          | 1250                 | 92,9              | 745           | 94,7           | 0,82                   | 2,3     | 1571              | 478               |
| 10 pole electric motors |                      |                   |               |                |                        |         |                   |                   |
| H27R-SR-4501-10         | 280                  | 24,9              | 594           | 91,6           | 0,71                   | 1,8     | 779               | 214               |
| H27R-SR-4502-10         | 315                  | 27,9              | 594           | 91,8           | 0,71                   | 1,8     | 860               | 240               |
| H27R-SR-4503-10         | 355                  | 30,9              | 594           | 92,0           | 0,72                   | 1,8     | 785               | 269               |
| H27R-SR-5001-10         | 400                  | 34,8              | 594           | 92,3           | 0,72                   | 1,8     | 847               | 281               |
| H27R-SR-5002-10         | 450                  | 37,5              | 594           | 92,5           | 0,75                   | 1,8     | 918               | 292               |
| H27R-SR-5003-10         | 500                  | 41,6              | 595           | 92,6           | 0,75                   | 1,8     | 1002              | 296               |
| H27R-SR-5004-10         | 560                  | 44,6              | 595           | 92,9           | 0,78                   | 1,9     | 960               | 344               |
| H27R-SR-5601-10         | 630                  | 50,1              | 595           | 93,0           | 0,78                   | 1,9     | 1048              | 354               |
| H27R-SR-5602-10         | 710                  | 55,7              | 595           | 93,2           | 0,79                   | 1,9     | 1153              | 362               |
| H27R-SR-5603-10         | 800                  | 62,6              | 595           | 93,4           | 0,79                   | 1,9     | 1282              | 367               |
| H27R-SR-5604-10         | 900                  | 70,3              | 595           | 93,6           | 0,79                   | 1,9     | 1374              | 391               |
| 12 pole electric motors |                      |                   |               |                |                        |         |                   |                   |
| H27R-SR-5001-12         | 280                  | 25,2              | 493           | 91,5           | 0,70                   | 1,8     | 775               | 213               |
| H27R-SR-5002-12         | 315                  | 28,4              | 493           | 91,6           | 0,70                   | 1,8     | 832               | 223               |
| H27R-SR-5003-12         | 355                  | 31,9              | 494           | 91,9           | 0,70                   | 1,8     | 894               | 233               |
| H27R-SR-5004-12         | 400                  | 34,4              | 494           | 92,0           | 0,73                   | 1,8     | 858               | 275               |
| H27R-SR-5005-12         | 450                  | 38,1              | 495           | 92,2           | 0,74                   | 1,8     | 929               | 285               |
| H27R-SR-5601-12         | 500                  | 41,7              | 495           | 92,3           | 0,75                   | 2,0     | 1015              | 290               |
| H27R-SR-5602-12         | 560                  | 46,0              | 495           | 92,5           | 0,76                   | 2,0     | 1117              | 295               |
| H27R-SR-5603-12         | 630                  | 51,6              | 495           | 92,7           | 0,76                   | 2,0     | 1233              | 304               |
| H27R-SR-5604-12         | 710                  | 58,1              | 495           | 92,9           | 0,76                   | 2,0     | 1347              | 315               |



# Outline drawing and dimensions

## for series H27R-ODP (6kV)

IP23 High Voltage 3-phase asynchronous motors



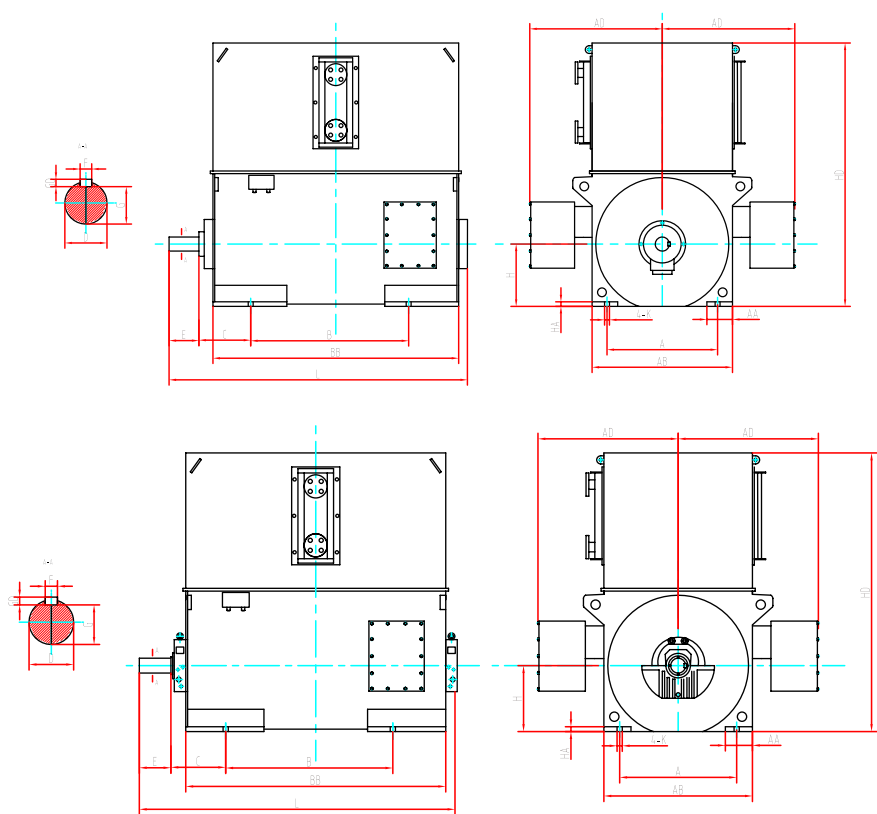
| Frame size | Poles | A    | B    | C   | D   | E   | F  | G   | H   | K  | AB   | AC   | AD  | BB   | GD | HA | HD   | L    |  |  |
|------------|-------|------|------|-----|-----|-----|----|-----|-----|----|------|------|-----|------|----|----|------|------|--|--|
| 355        | 2     | 630  | 1000 | 315 | 80  | 170 | 22 | 71  | 355 | 28 | 800  | 1020 | 755 | 1400 | 14 | 25 | 1360 | 1740 |  |  |
|            | 4-8   |      |      |     | 100 | 210 | 28 | 90  |     |    |      |      |     |      | 16 |    |      | 1790 |  |  |
| 400        | 2     | 710  | 1120 | 335 | 90  | 170 | 25 | 81  | 400 |    | 880  | 1120 | 800 | 1620 | 14 |    | 1590 | 1980 |  |  |
|            | 4-12  |      |      |     | 110 |     |    | 100 |     |    |      |      |     |      |    |    |      |      |  |  |
| 450        | 2     | 800  | 1250 | 400 | 100 | 210 |    | 90  | 35  |    | 980  | 1180 | 850 | 1730 | 16 | 30 | 1760 | 2310 |  |  |
|            | 4     |      |      | 355 | 120 |     |    | 109 |     |    |      |      |     |      | 18 |    |      |      |  |  |
|            | 6-12  |      |      |     | 130 | 250 |    | 119 |     |    |      |      |     |      |    |    |      |      |  |  |
| 500        | 2     | 900  | 1400 | 560 | 110 | 210 | 28 | 100 | 500 |    | 1080 | 1320 | 900 | 1860 | 16 | 35 | 1960 | 2470 |  |  |
|            | 4     |      |      | 475 | 140 |     |    | 128 |     |    |      |      |     |      | 20 |    |      | 2370 |  |  |
|            | 6-12  |      |      |     | 150 |     |    | 138 |     |    |      |      |     |      |    |    |      |      |  |  |
| 560        | 2     | 1000 | 1600 | 560 | 130 |     |    | 119 | 42  |    | 1220 | 1460 | 980 | 2000 | 18 | 40 | 2160 | 2470 |  |  |
|            | 4     |      |      | 500 | 160 |     |    | 147 |     |    |      |      |     |      | 22 |    |      |      |  |  |
|            | 6-12  |      |      |     | 170 | 300 |    | 157 |     |    |      |      |     |      |    |    |      |      |  |  |



# Outline drawing and dimensions

## for series H27R-WC (6kV)

Totally enclosed Air-water cooling IP44/IP54 3-phase asynchronous motors



| Frame size | Poles | A    | B    | C   | D   | E   | F  | G   | H   | K  | AB  | AC   | AD  | BB   | GD | HA | HD   | L    |
|------------|-------|------|------|-----|-----|-----|----|-----|-----|----|-----|------|-----|------|----|----|------|------|
| 355        | 2     | 630  | 1000 | 315 | 80  | 170 | 22 | 71  | 355 | 28 | 800 | 1020 | 755 | 1400 | 14 | 25 | 1400 | 1740 |
|            | 4-8   |      |      |     | 100 | 210 | 28 | 90  |     |    |     |      |     |      | 16 |    |      | 1790 |
| 400        | 2     | 710  | 1120 | 335 | 90  | 170 | 25 | 81  | 400 |    | 880 | 1120 | 800 | 1620 | 14 |    | 1500 | 1980 |
|            | 4-12  |      |      |     | 110 |     |    | 100 |     |    |     |      |     |      |    |    |      |      |
| 450        | 2     | 800  | 1250 | 400 | 100 | 210 | 28 | 90  | 35  |    |     |      |     |      | 16 | 30 |      | 2310 |
|            | 4     |      |      |     | 120 |     |    | 109 |     |    |     |      |     |      |    |    |      |      |
|            | 6-12  |      |      | 355 | 130 | 250 | 32 | 119 |     |    |     |      |     |      | 18 |    |      | 2180 |
| 500        | 2     | 900  | 1400 | 560 | 110 | 210 | 28 | 100 | 500 |    |     |      |     |      | 16 |    |      | 2470 |
|            | 4     |      |      |     | 140 |     |    | 128 |     |    |     |      |     |      |    |    |      |      |
|            | 6-12  |      |      | 475 | 150 |     | 36 | 138 |     |    |     |      |     |      | 20 |    |      | 2370 |
| 560        | 2     | 1000 | 1600 | 560 | 130 | 250 | 32 | 119 | 42  |    |     |      |     |      | 18 |    |      | 2740 |
|            | 4     |      |      |     | 160 |     |    | 147 |     |    |     |      |     |      |    |    |      |      |
|            | 6-12  |      |      | 500 | 170 | 300 | 40 | 157 |     |    |     |      |     |      | 22 |    |      | 2540 |

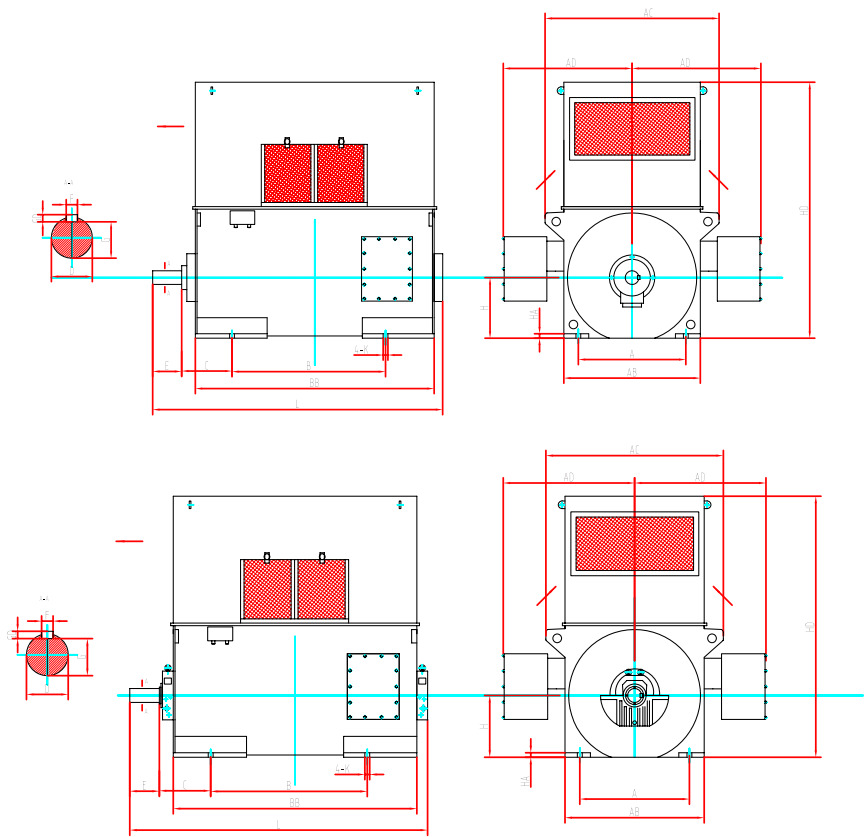




# Outline drawing and dimensions

## for series H27R (6kV)

Totally enclosed Air-Air cooling IP44/IP54 3-phase asynchronous motors



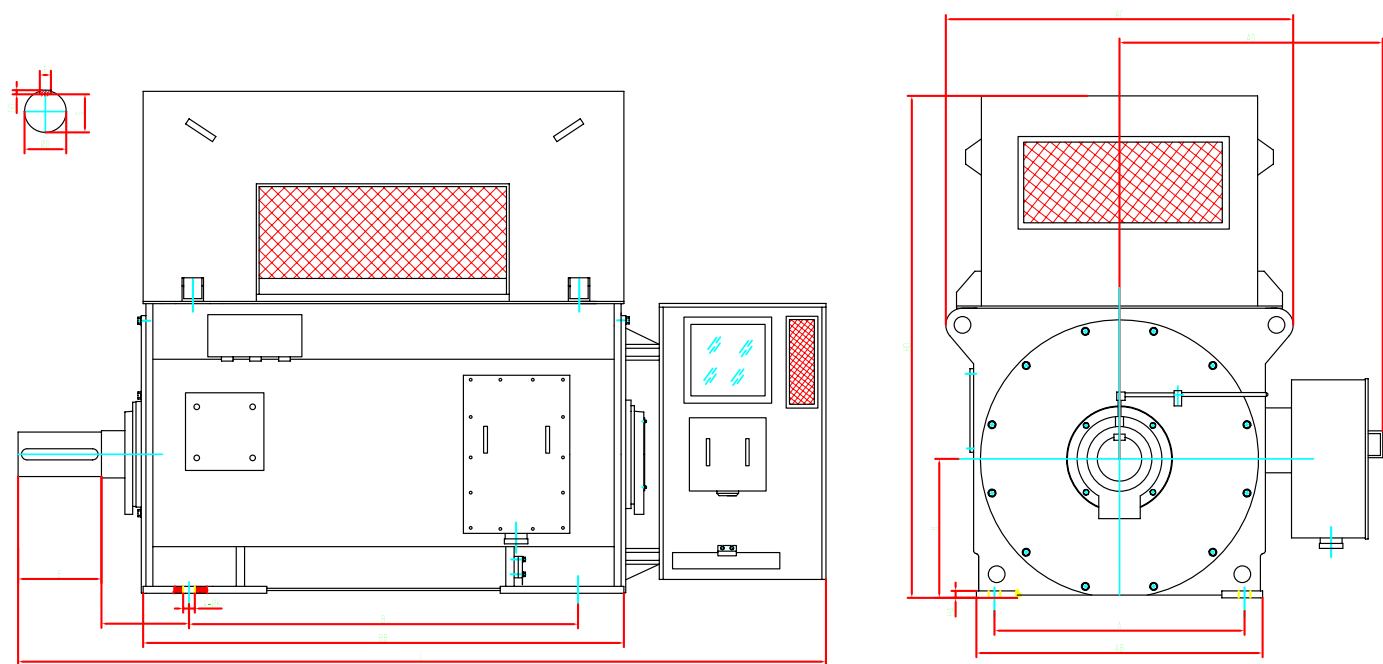
| Fram size | Poles | A    | B    | C   | D   | E   | F  | G   | H   | K  | AB   | AC   | AD  | BB   | GD | HA | HD   | L    |
|-----------|-------|------|------|-----|-----|-----|----|-----|-----|----|------|------|-----|------|----|----|------|------|
| 355       | 2     | 630  | 1000 | 315 | 80  |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



# Outline drawing and dimensions

## for series H27R-SR-ODP (6kV)

IP23 3-phase asynchronous motors



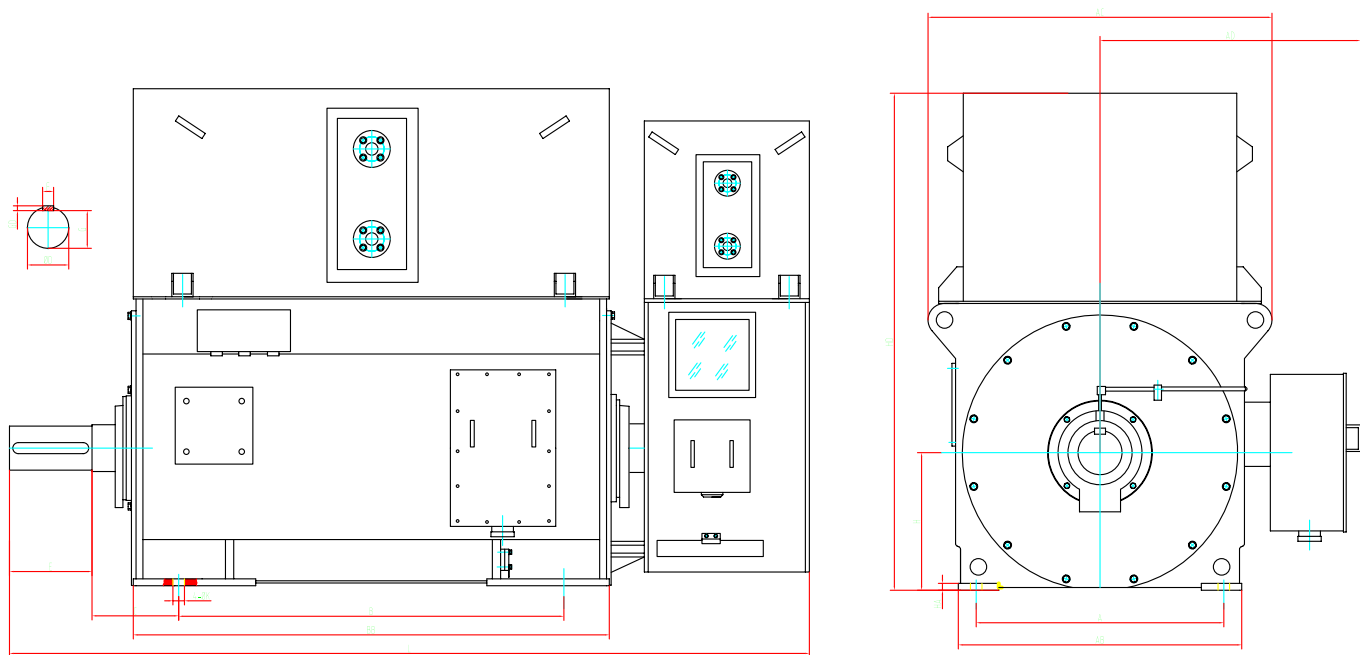
| Frame size | A    | AB   | AC   | AD  | B    | BB   | C   | D   | E   | F  | G   | GD | H   | HA | HD   | K  | L    |
|------------|------|------|------|-----|------|------|-----|-----|-----|----|-----|----|-----|----|------|----|------|
| 355-4-8    | 630  | 800  | 1020 | 755 | 1000 | 1400 | 315 |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



# Outline drawing and dimensions

## for series H27R-SR-WC (6kV)

Totally enclosed Air-Water cooling IP44/IP54 3-phase asynchronous motors



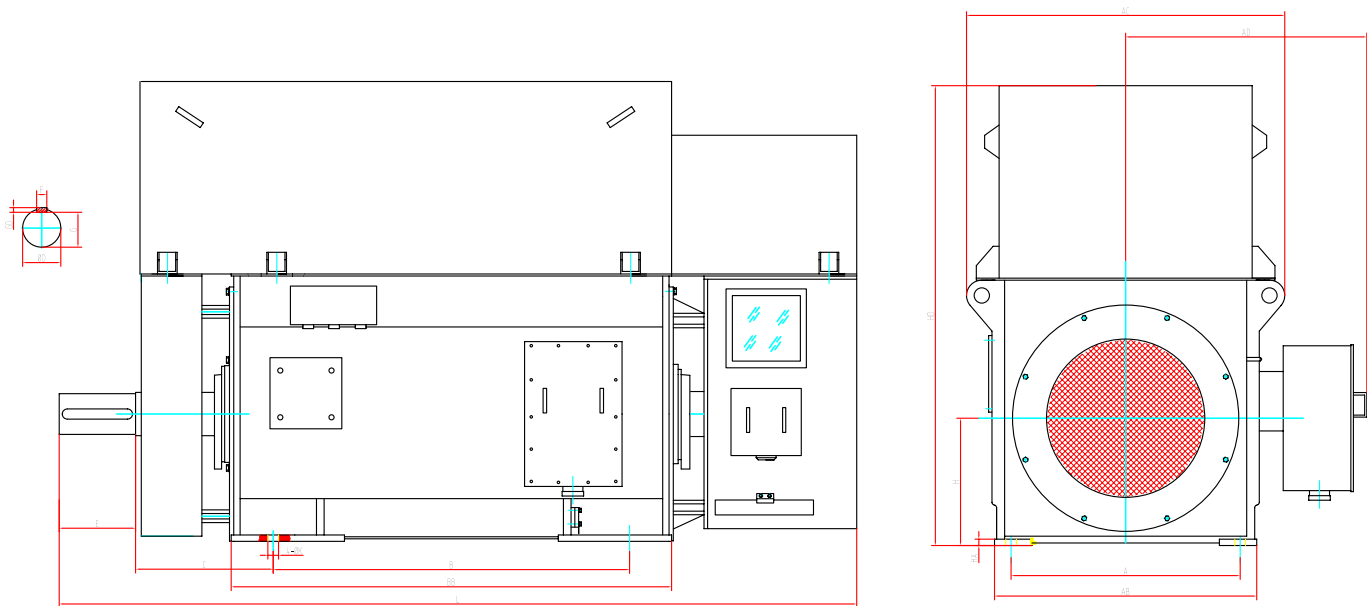
| Frame size | A    | AB   | AC   | AD  | B    | BB   | C   | D   | E   | F  | G   | GD | H   | HA | HD   | K  | L    |
|------------|------|------|------|-----|------|------|-----|-----|-----|----|-----|----|-----|----|------|----|------|
| 355-4-8    | 630  | 800  | 1020 | 755 | 1000 | 1400 | 315 |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



# Outline drawing and dimensions

## for series H27R-SR (6kV)

Totally enclosed Air-Air cooling IP44/IP54 3-phase asynchronous motors



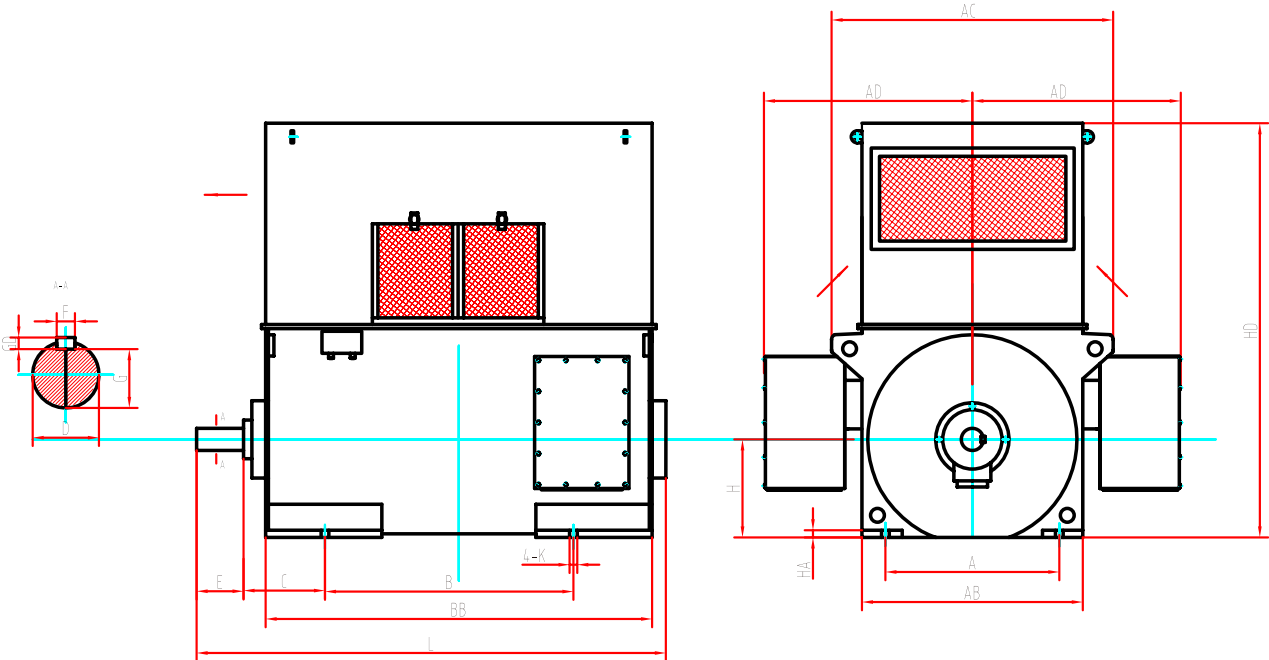
| Frame size | A    | AB   | AC   | AD  | B    | BB   | C   | D   | E   | F  | G   | GD | H   | HA | HD   | K  | L    |
|------------|------|------|------|-----|------|------|-----|-----|-----|----|-----|----|-----|----|------|----|------|
| 355-4-8    | 630  | 800  | 1020 | 755 | 1000 | 1400 | 560 | 100 | 210 | 28 | 90  | 16 | 355 | 25 | 1500 | 28 | 2550 |
| 400-4-8    | 710  | 880  | 1120 | 800 | 1120 | 1620 | 630 | 110 | 210 | 28 | 100 | 16 | 400 | 30 | 1700 | 35 | 2750 |
| 450-4-12   | 800  | 980  | 1180 | 850 | 1250 | 1730 | 710 | 120 | 210 | 32 | 109 | 18 | 450 | 30 | 1900 | 35 | 3150 |
| 500-4-12   | 900  | 1080 | 1320 | 900 | 1400 | 1860 | 800 | 140 | 250 | 36 | 128 | 20 | 500 | 35 | 2200 | 42 | 3450 |
| 560-4-12   | 1000 | 1220 | 1460 | 980 | 1600 | 2000 | 800 | 160 | 300 | 40 | 147 | 22 | 560 | 40 | 2400 | 42 | 3850 |



# Outline drawing and dimensions

## for series H27R-ODP (10kV)

### IP23 3-phase asynchronous motors



| Frame size | Poles | A    | B    | C   | D   | E   | F  | G   | H   | K  | AB   | AC   | AD   | BB   | GD | HA | HD   | L    |
|------------|-------|------|------|-----|-----|-----|----|-----|-----|----|------|------|------|------|----|----|------|------|
| 355        | 2     | 630  | 1000 | 315 | 80  | 170 | 22 | 71  | 355 | 28 | 800  | 1020 | 900  | 1400 | 14 | 25 | 1360 | 1740 |
|            | 4     |      |      |     | 100 | 210 | 28 | 90  |     |    |      |      |      |      | 16 |    |      | 1790 |
| 400        | 2     | 710  | 1120 | 335 | 90  | 170 | 25 | 81  | 400 | 35 | 880  | 1120 | 950  | 1620 | 14 | 30 | 1590 | 1980 |
|            | 4-10  |      |      |     | 110 | 210 | 28 | 100 |     |    |      |      |      |      | 16 |    |      | 2010 |
| 450        | 2     | 800  | 1250 | 400 | 90  | 170 | 25 | 81  | 450 | 35 | 980  | 1180 | 1000 | 1730 | 14 | 30 | 1760 | 2310 |
|            | 4-12  |      |      | 355 | 110 | 210 | 28 | 100 |     |    |      |      |      |      | 16 |    |      | 2180 |
| 500        | 2     | 900  | 1400 | 560 | 100 | 210 | 28 | 90  | 500 | 42 | 1080 | 1320 | 1050 | 1860 | 16 | 35 | 1960 | 2470 |
|            | 4     |      |      | 475 | 120 | 210 | 32 | 109 |     |    |      |      |      |      | 18 |    |      | 2470 |
|            | 6-12  |      |      |     | 130 | 250 | 32 | 119 |     |    |      |      |      |      | 18 |    |      | 2370 |
|            | 2     |      |      | 560 | 130 | 250 | 32 | 119 |     |    |      |      |      |      | 18 |    |      | 2740 |
| 560        | 4     | 1000 | 1600 | 500 | 150 | 250 | 36 | 138 | 560 | 42 | 1220 | 1460 | 1120 | 2000 | 20 | 40 | 2160 | 2490 |
|            | 6-12  |      |      |     | 160 | 300 | 40 | 147 |     |    |      |      |      |      | 22 |    |      | 2540 |
|            | 2     |      |      | 560 | 130 | 250 | 32 | 119 |     |    |      |      |      |      | 18 |    |      | 2740 |

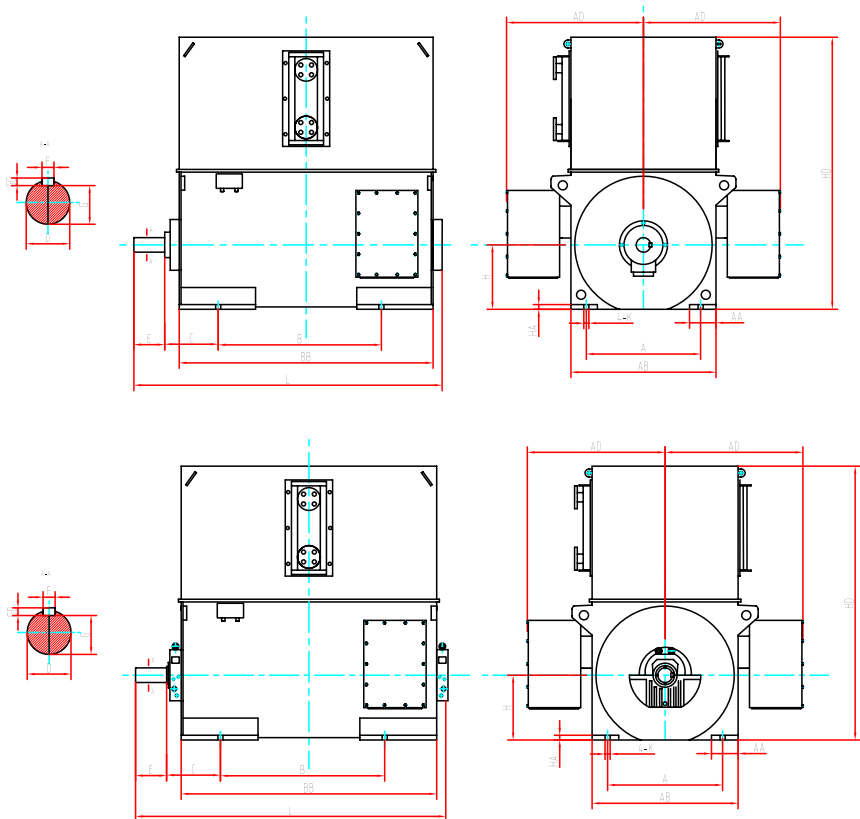




# Outline drawing and dimensions

## for series H27R-WC (10kV)

Totally enclosed Air-Water cooling IP44/IP54 3-phase asynchronous motors



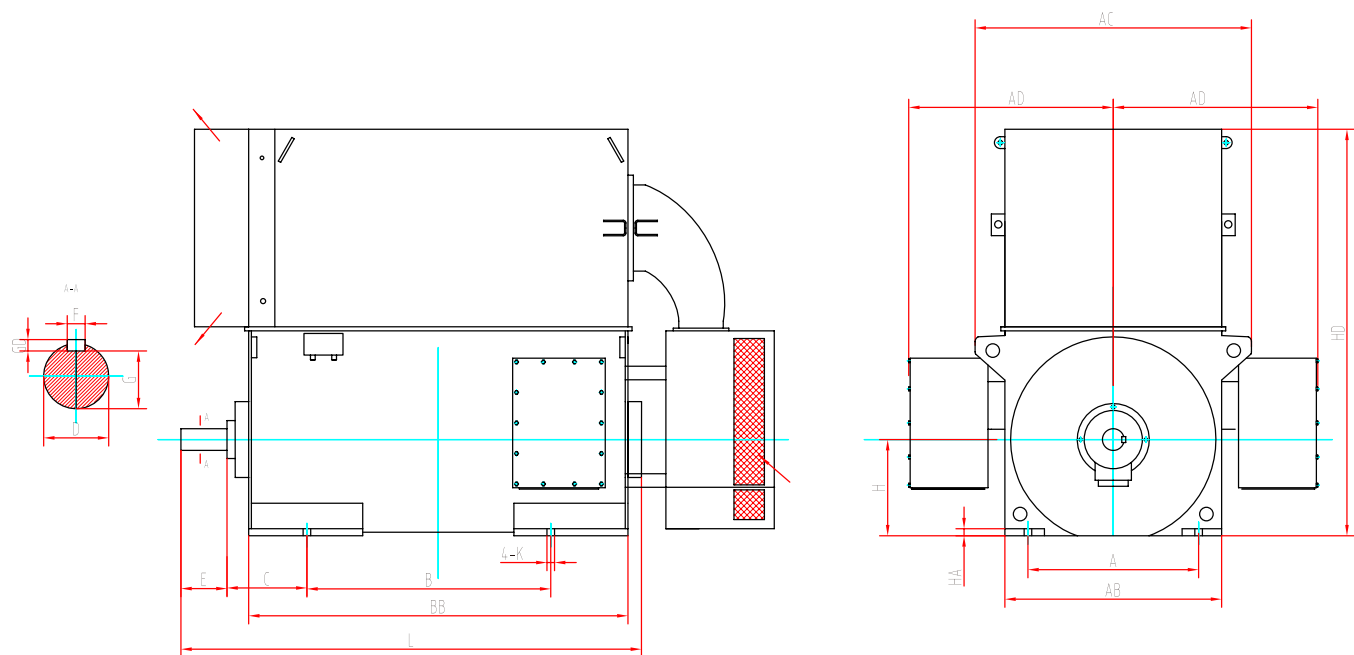
| Frame size | Poles | A    | B    | C   | D   | E   | F  | G   | H   | K  | AB   | AC   | AD   | BB   | GD | HA | HD   | L    |
|------------|-------|------|------|-----|-----|-----|----|-----|-----|----|------|------|------|------|----|----|------|------|
| 355        | 2     | 630  | 1000 | 315 | 80  | 170 | 22 | 71  | 355 | 28 | 800  | 1020 | 900  | 1400 | 14 | 25 | 1400 | 1740 |
|            | 4     |      |      |     | 100 | 210 | 28 | 90  |     |    |      |      |      |      | 16 |    |      | 1790 |
| 400        | 2     | 710  | 1120 | 335 | 90  | 170 | 25 | 81  | 400 | 35 | 880  | 1120 | 950  | 1620 | 14 | 30 | 1500 | 1980 |
|            | 4-10  |      |      |     | 110 | 210 | 28 | 100 |     |    |      |      |      |      | 16 |    |      | 2010 |
| 450        | 2     | 800  | 1250 | 400 | 90  | 170 | 25 | 81  | 450 | 35 | 980  | 1180 | 1000 | 1730 | 14 | 30 | 1550 | 2310 |
|            | 4-12  |      |      | 355 | 110 | 210 | 28 | 100 |     |    |      |      |      |      | 16 |    |      | 2180 |
| 500        | 2     | 900  | 1400 | 560 | 100 | 210 | 28 | 90  | 500 | 42 | 1080 | 1320 | 1050 | 1860 | 16 | 35 | 1730 | 2470 |
|            | 4     |      |      | 475 | 120 | 210 | 32 | 109 |     |    |      |      |      |      | 18 |    |      | 2470 |
|            | 6-12  |      |      |     | 130 | 250 | 32 | 119 |     |    |      |      |      |      | 18 |    |      | 2370 |
| 560        | 2     | 1000 | 1600 | 560 | 130 | 250 | 32 | 119 | 560 | 42 | 1220 | 1460 | 1120 | 2000 | 18 | 40 | 1950 | 2740 |
|            | 4     |      |      | 500 | 150 | 250 | 36 | 138 |     |    |      |      |      |      | 20 |    |      | 2490 |
|            | 6-12  |      |      |     | 160 | 300 | 40 | 147 |     |    |      |      |      |      | 22 |    |      | 2540 |



# Outline drawing and dimensions

## for series H27R (10kV)

Totally enclosed Air-Air cooling IP44/IP54 3-phase asynchronous motors



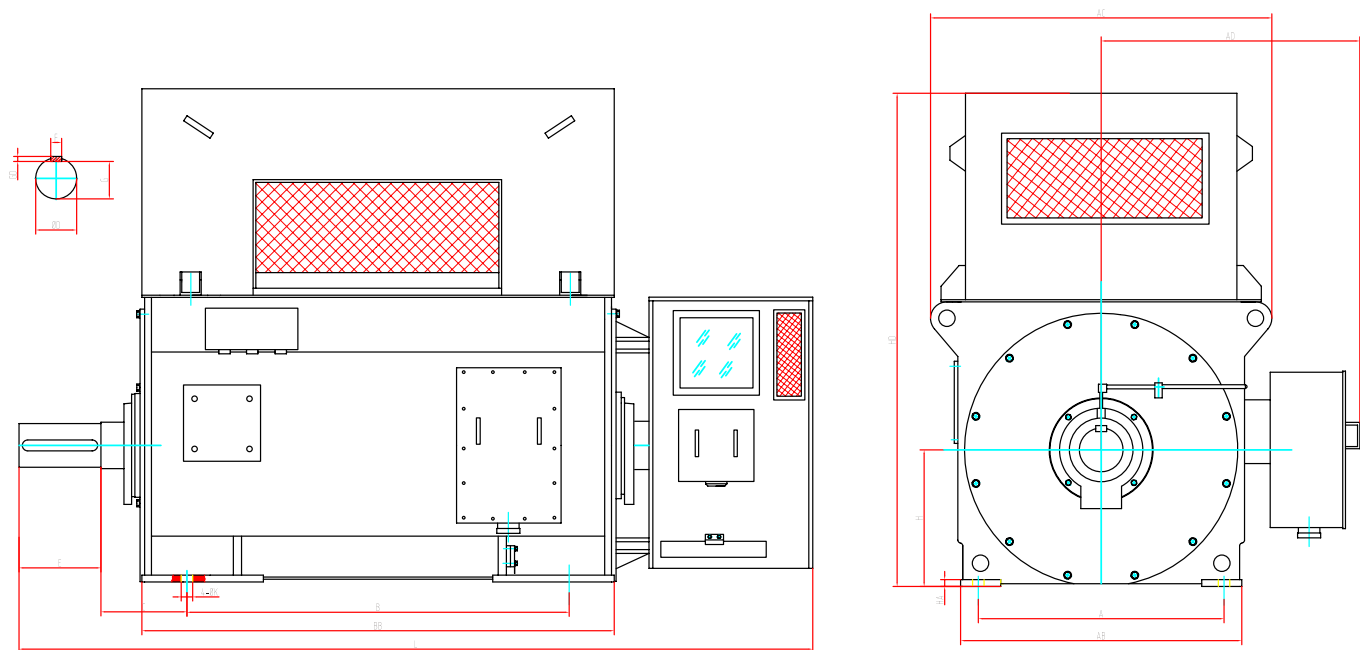
| Frame size | Poles | A    | B    | C   | D   | E   | F  | G   | H   | K  | AB   | AC   | AD   | BB   | GD   | HA | HD   | L    |      |      |     |     |     |      |      |  |  |
|------------|-------|------|------|-----|-----|-----|----|-----|-----|----|------|------|------|------|------|----|------|------|------|------|-----|-----|-----|------|------|--|--|
| 355        | 2     | 630  | 1000 | 315 | 80  | 170 | 22 | 71  | 355 | 28 | 800  | 1020 | 900  | 1400 | 14   | 25 | 1420 | 2225 |      |      |     |     |     |      |      |  |  |
|            | 4     |      |      |     | 100 | 210 | 28 | 90  |     |    |      |      |      |      | 16   |    |      | 2075 |      |      |     |     |     |      |      |  |  |
| 400        | 2     | 710  | 1120 | 335 | 90  | 170 | 25 | 81  | 400 |    | 880  | 1120 | 950  | 1620 | 14   |    | 1460 | 2280 |      |      |     |     |     |      |      |  |  |
|            | 42102 |      |      |     | 110 | 210 | 28 | 100 |     |    |      |      |      |      | 16   |    |      | 2150 |      |      |     |     |     |      |      |  |  |
| 450        | 2     | 800  | 1250 | 400 | 90  | 170 | 25 | 81  | 450 | 35 |      | 980  | 1180 | 1000 | 1730 | 14 | 30   | 2505 |      |      |     |     |     |      |      |  |  |
|            | 4     |      |      | 355 | 110 | 210 | 28 | 100 |     |    |      |      |      |      |      | 16 |      | 1660 |      |      |     |     |     |      |      |  |  |
|            | 42167 |      |      |     |     |     |    |     |     |    |      |      |      |      |      |    |      | 2255 |      |      |     |     |     |      |      |  |  |
| 500        | 2     | 900  | 1400 | 560 | 100 | 210 |    | 90  | 500 |    | 1080 | 1320 | 1050 | 1860 | 16   | 35 | 1850 | 2895 |      |      |     |     |     |      |      |  |  |
|            | 4     |      |      | 475 | 120 | 210 | 32 | 109 |     |    |      |      |      |      |      |    |      | 18   |      | 2795 |     |     |     |      |      |  |  |
|            | 6-12  |      |      |     |     |     |    |     |     |    |      |      |      |      |      |    |      |      |      | 130  | 250 | 32  | 119 | 18   | 2595 |  |  |
| 560        | 2     | 1000 | 1600 | 560 | 130 | 250 | 32 | 119 | 560 | 42 |      | 1220 | 1460 | 1120 | 2000 | 18 | 40   | 2200 | 3150 |      |     |     |     |      |      |  |  |
|            | 4     |      |      | 500 | 150 | 250 | 36 | 138 |     |    |      |      |      |      |      | 20 |      |      | 3010 |      |     |     |     |      |      |  |  |
|            | 6-12  |      |      |     |     |     |    |     |     |    |      |      |      |      |      |    |      |      | 160  | 300  | 40  | 147 | 22  | 2805 |      |  |  |



# Outline drawing and dimensions

## for series H27R-SR-ODP (10kV)

### IP23 3-phase asynchronous motors



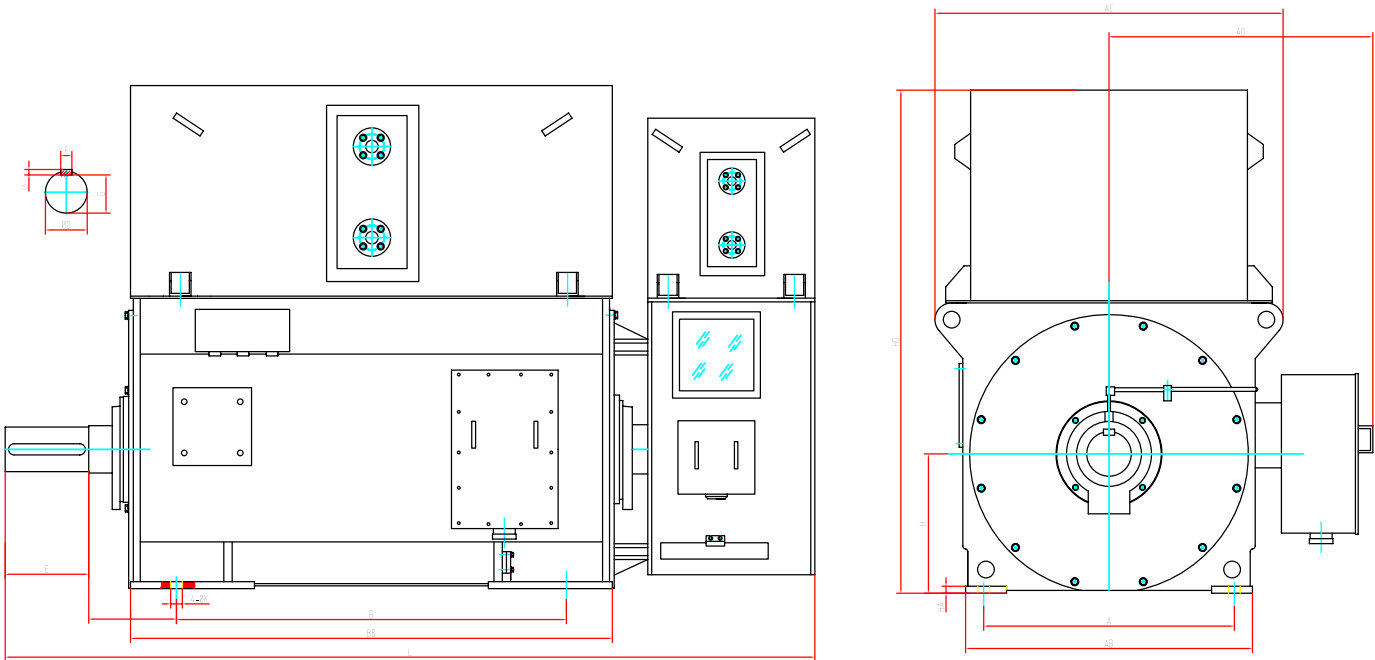
| Frame size | A    | AB   | AC   | AD   | B    | BB   | C   | D   | E   | F  | G   | GD | H   | HA | HD   | K  | L    |
|------------|------|------|------|------|------|------|-----|-----|-----|----|-----|----|-----|----|------|----|------|
| 355-4      | 630  | 800  | 1020 | 900  | 1000 | 1400 | 315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



# Outline drawing and dimensions

## for series H27R-SR-WC (10kV)

Totally enclosed Air-Water cooling IP44/IP54 3-phase asynchronous motors



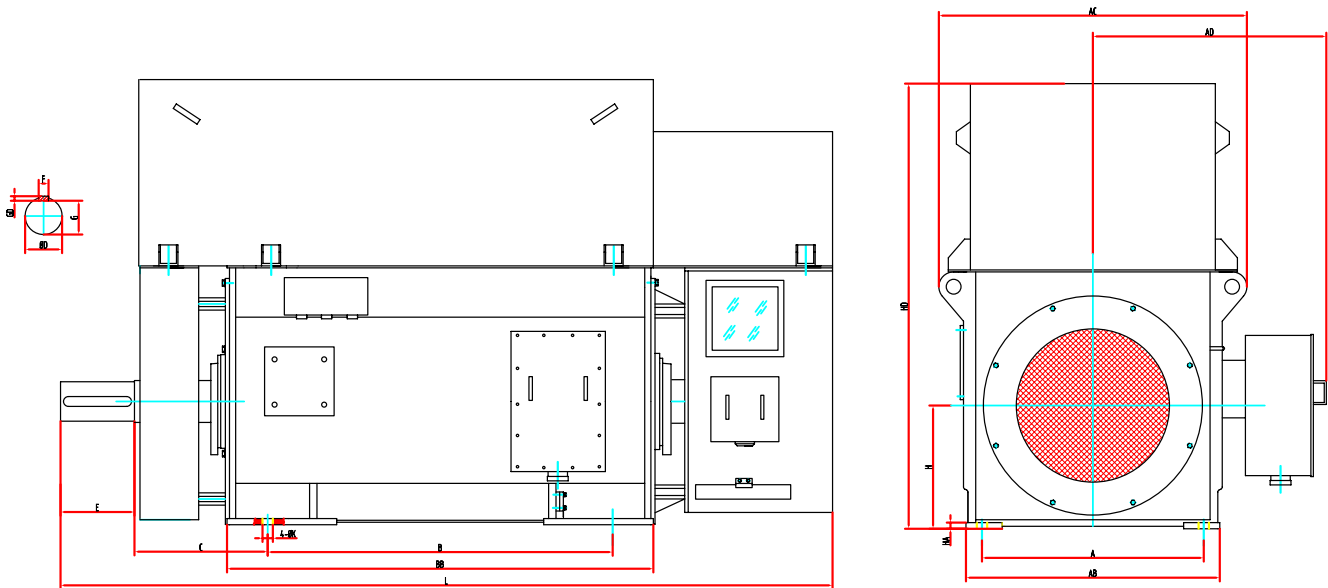
| Frame size | A    | AB   | AC   | AD   | B    | BB   | C   | D   | E   | F  | G   | GD | H   | HA | HD   | K  | L    |
|------------|------|------|------|------|------|------|-----|-----|-----|----|-----|----|-----|----|------|----|------|
| 355-4      | 630  | 800  | 1020 | 900  | 1000 | 1400 | 315 | 100 | 210 | 28 | 90  | 16 | 355 | 25 | 1400 | 28 | 2250 |
| 400-4-8    | 710  | 880  | 1120 | 950  | 1120 | 1620 | 335 | 110 | 210 | 28 | 100 | 16 | 400 | 30 | 1500 | 35 | 2420 |
| 450-4-12   | 800  | 980  | 1180 | 1000 | 1250 | 1730 | 335 | 120 | 210 | 32 | 109 | 18 | 450 | 30 | 1550 | 35 | 2640 |
| 500-4-12   | 900  | 1080 | 1320 | 1050 | 1400 | 1860 | 475 | 140 | 250 | 36 | 128 | 20 | 500 | 35 | 1730 | 42 | 3020 |
| 560-4-12   | 1000 | 1220 | 1460 | 1120 | 1600 | 2000 | 500 | 160 | 300 | 40 | 147 | 22 | 560 | 40 | 1950 | 42 | 3450 |



# Outline drawing and dimensions

## for series H27R-SR (10kV)

Totally enclosed Air-Air cooling IP44/IP54 3-phase asynchronous motors



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







## Address

VYBO ELECTRIC a. s. | tel: +421 944 105 361  
Radlinského 18 | e-mail: mv@vyboelectric.eu  
052 01 Spišská Nová Ves  
Slovenská republika

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



SOLUTIONS FOR INDUSTRY

BUREAU VERITAS  
Certification



**VYBO Electric a.s.**  
Radlinského 18, 052 01 Spišská Nová Ves  
Slovak Republic

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

## ISO 14001: 2015

Scope of certification

**MANUFACTURE AND SALE OF ELECTRIC MOTORS, SALES AND DEVELOPMENT OF VARIABLE FREQUENCY DRIVES.**

Original cycle start date: 18.05.2022

Expiry date of previous cycle: N/A

Certification Audit date: 31.03.2022

Certification cycle start date: 18.05.2022

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: 17.05.2025

Certificate No. SK-U22 055E Version: 1 Issue date: 18.05.2022

Certification body address: 5<sup>th</sup> Floor, 86 Prescott Street, London E1 6HQ, United Kingdom  
Local office: Plynárenská 7/B, BRATISLAVA 821 09, Slovak Republic



Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation.  
To check this certificate validity please call: +421 2 5341 4165

Page 1 of 1



Bureau Veritas Certification

## Certificate

Awarded to

**VYBO Electric a.s.**  
Radlinského 18, 052 01 Spišská Nová Ves  
Slovak Republic

BUREAU VERITAS CERTIFICATION CZ s.r.o. certifies that the Management System of the above organisation has been assessed and found to be in accordance with the requirements of the management system standard detailed below

Standard

**ISO 45001:2018**

Scope of supply

**MANUFACTURE AND SALE OF ELECTRIC MOTORS, SALES AND DEVELOPMENT OF VARIABLE FREQUENCY DRIVES.**

Original Approval Date: 18-05-2022

Expiry date of previous cycle: N/A

Certification Cycle Start Date: 18-05-2022

Certification Cycle End Date: 17-05-2025

Subject to the continued satisfactory operation of the organisation's Management System, this certificate is valid until: 17-05-2025

To check this certificate validity please call: +420 210 008 215

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation.

Version 1 Issue Date: 18-05-2022

Certificate Number: CZF - 2200117

MANAGING OFFICE: BUREAU VERITAS CERTIFICATION CZ s.r.o., Obchodní 1, 140 00 Praha 4, Czech Republic

ISSUING OFFICE ADDRESS: BUREAU VERITAS CERTIFICATION CZ s.r.o., Obchodní 1, 140 00 Praha 4, Czech Republic

1/1



# CERTIFICATE

**TÜV SÜD Slovakia s.r.o.**  
Certification Body for Management Systems  
Accredited by SNAS  
Certificate on accreditation No. Q-011  
certifies that



**VYBO Electric a.s.**  
Radlinského 18  
SK – 052 01 Spišská Nová Ves  
IČO: 45 537 143

has established and applies  
a Quality Management System for

**Manufacture and sale of electric motors.  
Sales and development of variable frequency drives.**

An audit was performed, Report No. 2264/40/22/Q/AS/C  
Proof has been furnished that the requirements  
according to

**STN EN ISO 9001:2016**

are fulfilled. The certificate is valid from 2022-04-14 until 2025-04-13

Certificate Registration No. Q 2264-1

Bratislava, 2022-04-14

**TÜV SÜD Slovakia s.r.o.**  
Certification Body for Management Systems  
Member of Group TÜV SÜD  
Jaskovce 6, 821 03 Bratislava

F-Q-019/08

Certificate SK22/3701

The management system of

**VYBO Electric a.s.**  
Radlinského 18  
052 01 Spišská Nová Ves, Slovakia

has been assessed and certified as meeting the requirements of

**EN ISO 50001:2018**

For the following activities

**Production & sales of electric motors.  
Sales & development of variable frequency drives.**

Further clarifications regarding the scope of this certificate and the applicability of EN ISO 50001:2018 requirements may be obtained by consulting the organisation.

This certificate is valid from 7 April 2022 until 6 April 2025  
and remains valid subject to satisfactory surveillance audits.

Recertification audit due a minimum of 60 days  
before the expiration date.

Issue 1. Certified with SGS since 7 April 2022

Authorised by

Ing. Robert Bodnár  
Director

SGS Slovakia spol. s r. o.  
Klyučská 14, 040 11 Košice, Slovakia  
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