

STANDARD SERIES  
THREE PHASE ELECTRIC MOTOR LOW VOLTAGE

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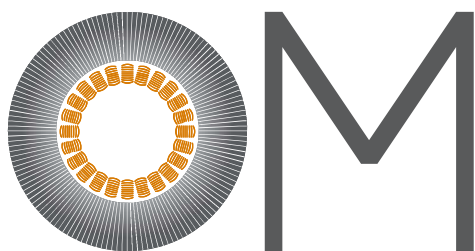


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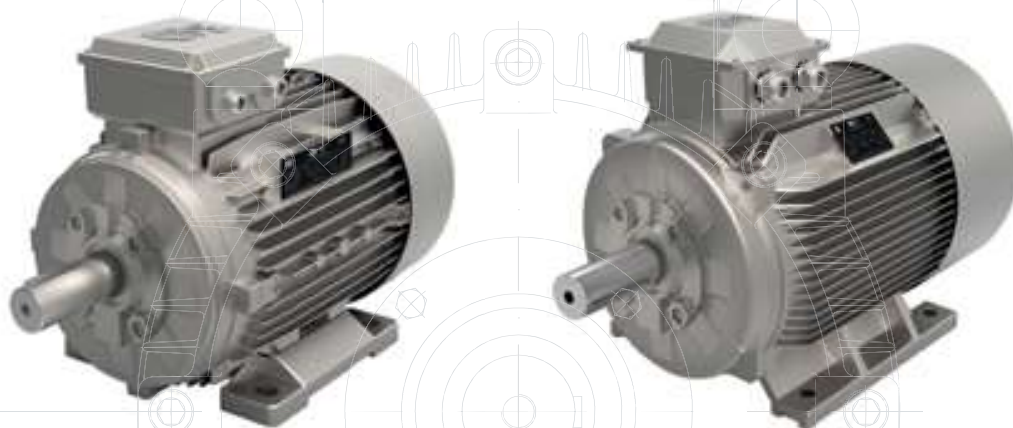
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## STANDARD SERIES THREE PHASE ELECTRIC MOTOR LOW VOLTAGE



High efficiency • Reliability • Long life • Easy Manutencion

- As a product from the Orsatti Group, our electric motors are produced using the latest technical knowledge. Our continuous development leads to the highest attainable quality and efficiency in electric motors.

- Our extensive network of European distribution partners guarantees local availability, short delivery times, ample stock and excellent service.



## OM Electric Motors

OM Electric Motors are the answer to the demand for robust electric motors that meet European standards and at the same time are available at a very favorable price at an extensive network of European distributors.

- High quality components including durable seals, high quality cable glands and SKF bearings. Thanks to their high quality, OM electric motors have a longer lifetime than comparable products.

High quality production



- In addition to a solid interior, OM also pays exceptional care and attention to the exterior of its electric motors. This results in a visually appealing product.

Modern design



- Superior packaging that provides optimal protection during transport and makes carrying easier thanks to an ergonomic design.

Superior packaging



## OVERVIEW OF THE PRODUCT

### • VOLTAGE AND FREQUENCY

The tolerances of voltage and frequency of the power line are regulated by EN 60034-1. In range A a combination of voltage difference ( $\pm 5\%$ ) and frequency difference ( $\pm 2\%$ ) is acceptable. In range B a not combination of voltage difference ( $\pm 10\%$ ) and frequency difference ( $+3\%/-5\%$ ) is acceptable. The motors are marked with the rated voltage according to EN 60034-1. 230V/400V 50Hz or 265V/460V 60Hz - 400V/690V 50Hz or 460V/795V 60Hz

### • INSULATION

All motors are produced with class F insulation. In rated power and line operation the motors are working in class is B. Windings have tropicalized insulation

### • POWER

The nominal power is referred to continuous duty in accordance with DIN EN 60034-1 at a frequency of 50 Hz, a coolant temp. of 40°C and an altitude up to 1000m above sea level.

### • DEGREE OF PROTECTION

All motors are in protection class IP55 in accordance with DIN EN 60529. All motor types with driving-end direction to the bottom (i.e. V1) shall be ordered with protection hood.

### • DESIGN OF HOUSING

The Type OM is made of Aluminium-die-casting. The type OM is made of cast iron. The terminal box mounted on top at all B3-motors. At the SA types the position is variable. The motors of the OM types with a size of 56 till 132 have removable feet which can also be fixed on the side.

### • MECHANICAL BALANCE QUALITY

All rotors are balanced with half key inserted in the shaft. The vibration severity grade is A (normal), according to DIN EN 6034-14. Referring to DIN ISO 8821 the balancing with half inserted key in the shaft is required.

## • BEARINGS

All motors are fitted with high quality, lifetime-lubricated bearings from the manufacturer SKF.

The nominal rating life of the bearings used in horizontal mounted motors without any axial load is 40.000 operating hours, for Power take-off via shaft-coupling. Under the use of maximal load the lifetime of the bearings is min. 20.000 operating hours.

From framesize 250 all motors have open bearings and lubrication devices.

The lubrication intervals are in this catalogue. Option: reinforced bearings.

Frame size	Poles	horizontal (B3)		vertical (B5)	
		AS I DE	NS I NDE	AS I DE	NS I NDE
63	2/4/6/8	6201 2RS/C3		6201 2RS/C3	
71	2/4/6/8	6202 2RS/C3		6202 2RS/C3	
80	2/4/6/8	6204 2RS/C3		6204 2RS/C3	
90	2/4/6/8	6205 2RS/C3		6205 2RS/C3	
100	2/4/6/8	6206 2RS/C3		6206 2RS/C3	
112	2/4/6/8	6306 2RS/C3		6306 2RS/C3	
132	2/4/6/8	6308 2RS/C3		6308 2RS/C3	
160	2/4/6/8	6309 2RS/C3		6309 2RS/C3	
180	2/4/6/8	6311 2RS/C3		6311 2RS/C3	
200	2/4/6/8	6312 2RS/C3		6312 2RS/C3	
225	2	6312 2RS/C3		6312 2RS/C3	
	4/6/8	6313 2RS/C3		6313 2RS/C3	
250	2	6314/C3		6314/C3	7314B
	4/6/8	6314/C3		6314/C3	7314B
280	2	6316/C3		6316/C3	7316B
	4/6/8	6316/C3		6316/C3	7316B
315	2	NU316E/C3	6316/C3	6316/C3	7316B
	4/6/8	NU319E/C3	6319/C3	6319/C3	7319B
355	2	NU319E/C3	6319/C3	6319/C3	7319B
	4/6/8	NU322E/C3	6322/C3	6322/C3	7322B

## • COOLING AND VENTILATION

The motors are equipped with radial-flow-fans made of plastic or aluminium, which cools the motor independently of the direction of the rotating (IC 411 according to DIN EN 60034-6). The fan covers are made of sheet-steel.

## • COLOUR

Standard coating colour is RAL 7030 (stone grey). The coating is qualified for climate-group moderate according to IEC-Publication 721-2-1 for indoor- and outdoor installation.

## • MOTORFEET

The types SA 56 – SA 132 have removable feet. The feet are fixed with two screws at the housing. The feet can also be fixed sideways to change the terminal box position top, left or right. The mounting into B35 and B34 can also be done. The motors from type SC 160 and larger have fixed feet and terminal box on the top. On request available with terminal box at the right or left side.

Sound power level LWA [dB(A)] / Sound pressure level LpA [dB(A)]								
Frame size	2 Pol. at no load		4 Pol. at no load		6 Pol. at no load		8 Pol. at no load	
	LWA	LpA	LWA	LpA	LWA	LpA	LWA	LpA
63	70	61	61	52	59	50	-	-
71	73	64	64	55	61	52	59	50
80	76	67	67	58	63	54	61	52
90	77	68	70	61	66	57	65	56
100	78	69	73	64	70	61	68	59
112	83	74	74	65	72	63	70	61
132	86	77	80	71	78	69	73	64
160	84	75	78	69	72	63	68	59
180	88	79	81	72	80	71	71	62
200	88	79	81	72	75	66	69	60
225	88	79	81	72	78	69	73	64
250	88	79	84	75	81	72	73	64
280	87	78	83	74	82	73	79	70
315	94	85	88	79	84	75	82	73
355	99	90	89	80	85	76	86	77