

# PRODUCT INFORMATION PACKET

rotor nl<sup>®</sup>

Model No: 6RN112M06E36U461081

Catalog No: 6RN112M06E36U46@1081

3.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1000 rpm, D400/Y690V 50Hz,  
112M Frame B3, IC411



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**Nameplate Specifications**

Output HP	<b>4 Hp</b>	Output KW	<b>3.0 kW</b>
Frequency	<b>50 Hz</b>	Voltage	<b>D400/Y690 V</b>
Current	<b>6.80 A</b>	Speed	<b>965 rpm</b>
Service Factor	<b>1</b>	Phase	<b>3</b>
Efficiency	<b>85.6 %</b>	Power Factor	<b>0.74</b>
Duty	<b>S1</b>	Insulation Class	<b>F</b>
Frame	<b>112M</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No Protection</b>	Ambient Temperature	<b>40 °C</b>
Drive End Bearing Size	<b>6306-2Z/C3WT (-40°C/+160°C)</b>	Opp Drive End Bearing Size	<b>6306-2Z/C3WT (-40°C/+160°C)</b>
UL	<b>No</b>	CSA	<b>Optional</b>
CE	<b>Yes</b>	IP Code	<b>IP55</b>
Number of Speeds	<b>1</b>	Efficiency Class	<b>IE3</b>

**Technical Specifications**

Electrical Type	<b>Squirrel Cage</b>	Starting Method	<b>Direct On Line</b>
Poles	<b>6</b>	Rotation	<b>Clockwise Shaft End</b>
Mounting	<b>B3</b>	Motor Orientation	<b>Any</b>
Frame Material	<b>Cast iron</b>	Shaft Type	<b>Keyed</b>
Outline Drawing	<b>6RN112M06E36U461081</b>		

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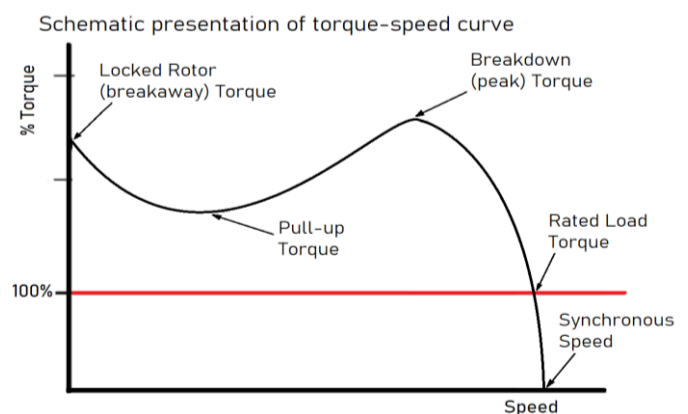
**Model No.** 6-Pole cage motor 6RN 112M 3kW D400V 50Hz IM1081

U (V)	Δ / Y Conn	f [Hz]	P		I [A]	n [RPM]	T [Nm]	IE Class	% EFF at __ load			PF at __ load			I <sub>A</sub> /I <sub>N</sub> [pu]	T <sub>A</sub> /T <sub>N</sub> [pu]	T <sub>K</sub> /T <sub>N</sub> [pu]
			[kW]	[hp]					FL	3/4FL	1/2FL	FL	3/4FL	1/2FL			
400	D	50	3	4	6,8	965	29,7	IE3	85,6			0,74			5,50	2,00	2,70
690	Y				3,93												

Motor type	<b>6RN112M06E36</b>
Enclosure	<b>Totally Enclosed Fan Cooling</b>
Frame Material	<b>Cast iron</b>
Frame size	<b>112M</b>
Duty	<b>S1</b>
Voltage	<b>400 V</b>
Frequency	<b>50 Hz</b>
Power output	<b>3 kW</b>
Insulation class	<b>F</b>
Ambient temperature	<b>-20 till 40 °C</b>
Temperature rise winding	<b>56 K</b>
Altitude above sea level	<b>1000 mtr</b>
Hazardous area classification	<b>Safe area</b>
Rotor type	<b>Cage motor</b>
Bearing type	<b>Rolling element bearing 6306-2Z/C3WT - 6306-2Z/C3WT</b>
Type of grease	<b>Unirex N3</b>
Phase resistance at 20°C	<b>4,7800 Ohm</b>
Country of origin	<b>CZ</b>

Degree of protection	<b>IP55</b>
Mounting type	<b>IM1081</b>
Cooling method	<b>IC411</b>
Motor weight - approx.	<b>46 kg</b>
Gross weight - approx.	<b>47 kg</b>
Vibration level	<b>according IEC60034-14</b>
Starting method	<b>d.o.l.</b>
Direction of rotation	<b>cw /ccw</b>
Paint shade	<b>RAL 7030</b>
Terminal box position	<b>Top - Pos 3</b>

Torques	Locked rotor	At start	Pull-up	Breakdown	No-load
@400V 50Hz	200%			270%	



**NOTE**

All performance values at rated voltage and frequency.  
 All performance parameters are subjected to standard tolerance as per IEC 60034-1  
 Voltage, Frequency are as per IEC60034-1  
 Technical data are subject to change. There may be discrepancies between calculated and name plate values.

Efficiency	Europe	Global IEC
Standards	EN-IEC: 60034-30	IEC: 60034-30



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