

PRODUCT INFORMATION PACKET

rotor nl®

Model No: 6RN280M02E32PMU461041

Catalog No: 6RN280M02E32PMU46@1041

90.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 3000 rpm, D400/Y690V 50Hz,
280M Frame B3, IC411
Cast Iron Motors



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Nameplate Specifications

Output HP	120 Hp	Output KW	90.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	152.60 A	Speed	2975 rpm
Service Factor	1	Phase	3
Efficiency	95 %	Power Factor	0.90
Duty	S1	Insulation Class	F
Frame	280M	Enclosure	Totally Enclosed Fan Cooled
Ambient Temperature	40 °C	Drive End Bearing Size	6315/C3
Opp Drive End Bearing Size	6315/C3	UL	No
CSA	Optional	CE	Yes
IP Code	IP55	Number of Speeds	1
Efficiency Class	IE3		

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	2	Rotation	Clockwise Shaft End
Mounting	B3	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Outline Drawing	6RN280M02E12_1001		

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Model No. 2-Pole cage motor 6RN 280M 90kW D400V 50Hz IM1041

U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [Nm]	IE Class	% EFF at __ load FL 3/4FL 1/2FL	PF at __ load FL 3/4FL 1/2FL	I _A /I _N [pu]	T _A /T _N [pu]	T _K /T _N [pu]
400	D	50	90	120	152	2975	289	IE3	94,8	0,90	7,63	2,10	2,90
690	Y				88,1								

Motor type	6RN280M02E32PM
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	280M
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	90 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	80 K
Temperature rise surface	32 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Degree of protection	IP55
Mounting type	IM1041
Cooling method	IC411
Motor weight - approx.	530 kg
Gross weight - approx.	550 kg

Vibration level according IEC60034-14

Direction of rotation cw / ccw

Rotor type	Cage motor
Bearing type	6315/C3 - 6315/C3
Lubrication method	25gr/4000hrs
Type of grease	Unirex N3

Country of origin CZ

Voltage/Freq	Locked rotor Torque [% nom]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 400V 50Hz	210%	763%	175%	290%	38,8 A

NOTE

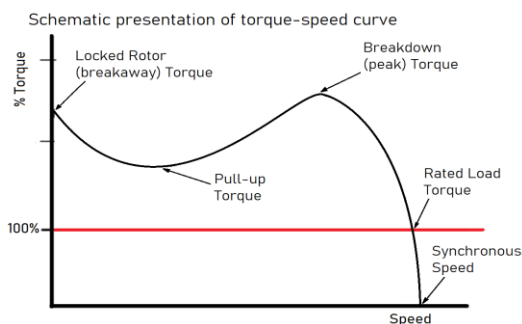
All performance values at rated voltage and frequency.

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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6RN280M02E32PM 2-pole 90,00kW D/Y 400/690V 50Hz S1 IC411 IE3



Therm_VSD graph

version 1.00

source: P000051134

THERMAL CAPABILITY CURVE
RotorNL - 6RN280M02E32PM - 400 V / 50 Hz

