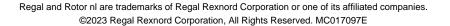
PRODUCT INFORMATION PACKET



Model No: 6RN280M04E32U461041 Catalog No: 6RN280M04E32U46@1041 90.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1500 rpm, D400/Y690V 50Hz, 280M Frame B3, IC411









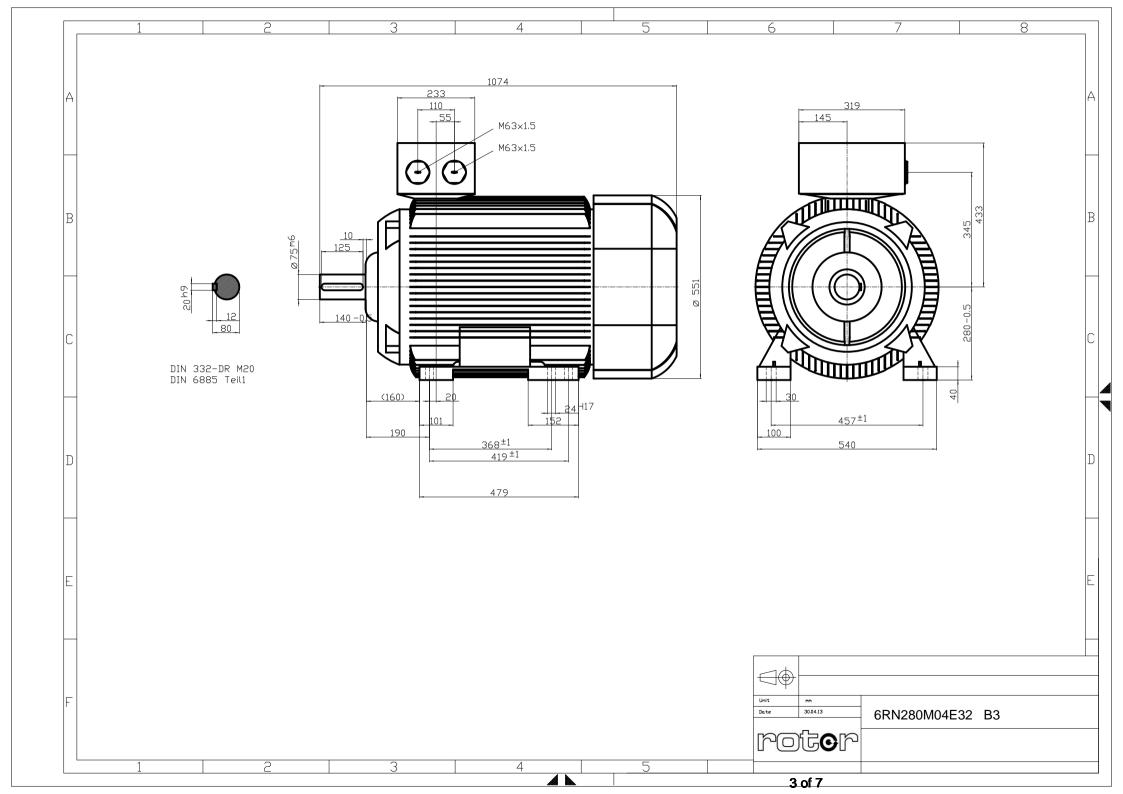
Nameplate Specifications

Output HP	120 Hp	Output KW	90.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	157.50 A	Speed	1485 rpm
Service Factor	1	Phase	3
Efficiency	95.2 %	Power Factor	0.86
Duty	S1	Insulation Class	F
Frame	280M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6317/C3	Opp Drive End Bearing Size	6317/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	4	Rotation	Clockwise Shaft End		
Mounting	В3	Motor Orientation	Any		
Frame Material	Cast iron	Shaft Type	Keyed		
Shaft Diameter	75 mm	Shaft Extension	140 mm		
Outline Drawing	6RN280M04E32U461041				

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Datasheet





Mors 1-5, 7151 MX Eibergen NL www.rotor.nl tel.: +31 545 464640 sales@rotor.nl tel.: +31 545 464646

cw/ccw

Model No.

4-Pole cage motor 6RN 280M 90kW D400V 50Hz IM1041

U	Δ/Υ	f	Р	Р	I	n	T	IE	% EF	F at	load	PF	atlo	ad	I _A /I _N	T _A /T _N	T _K /T _N
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400	D	50	90	120	157	1485	578	IE3	95,3	95,6	95,4	0,86	0,83	0,75	7,47	2,52	2,99
690	Υ				91												
460	D	60	90	120	137	1788	480	IE3	95,6	95,6	95,0	0,86	0,82	0,73	8,44	2,90	3,28

Direction of rotation

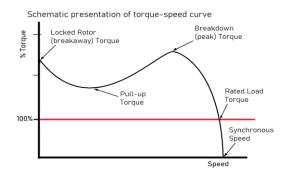
Motor type	6RN280M04E32
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	280M
Duty	\$1
Voltage	400 V
Frequency	50 Hz
Power output	90 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	54 K
Temperature rise surface	33 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. 660	
Cooling method IC411	
Motor weight - approx. 660	
S 11	kg
Gross weight - approx. 680	kg
Motor inertia 1,7000	kgm²
Vibration level according IEC60034-14	
Noise level (pressure) acc 60034-9 65	dB(A)

Rotor type	Cage motor
Bearing type	6317/C3
Lubrication method	30gr/8000hrs
Type of grease	Unirex N3

Phase resistance at 20°C	0,0448 Ohm
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	252%	745%	210%	299%	49,5 A	
@ D 460V 60Hz	290%	846%	224%	328%	46,9 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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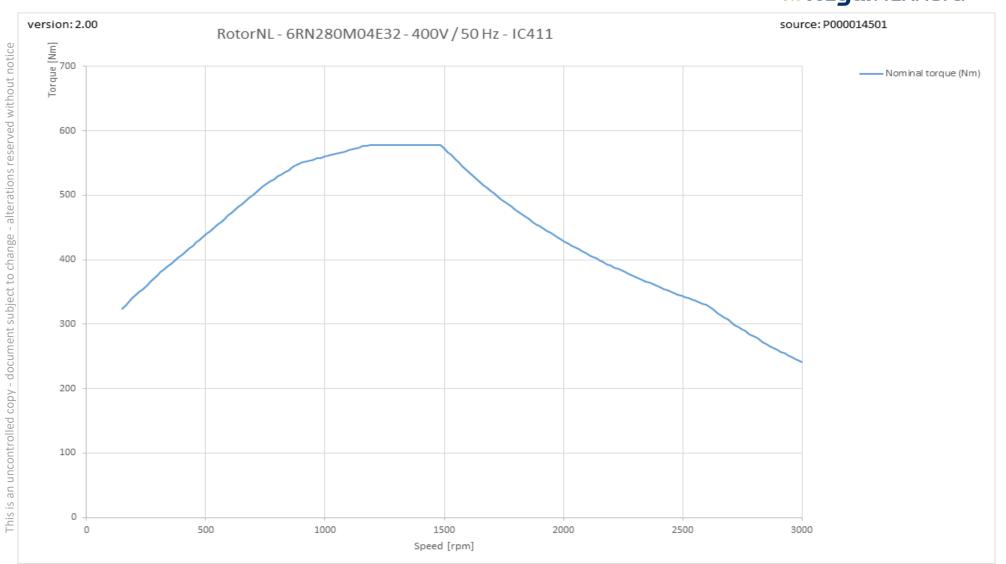


6RN280M04E32 4-pole 90,00kW D/Y 400/690V 50Hz S1 IC411 IE3



FRegalRexnord®

Torque versus Speed curve with variable frequency drive



Therm_VSD graph

