PRODUCT INFORMATION PACKET

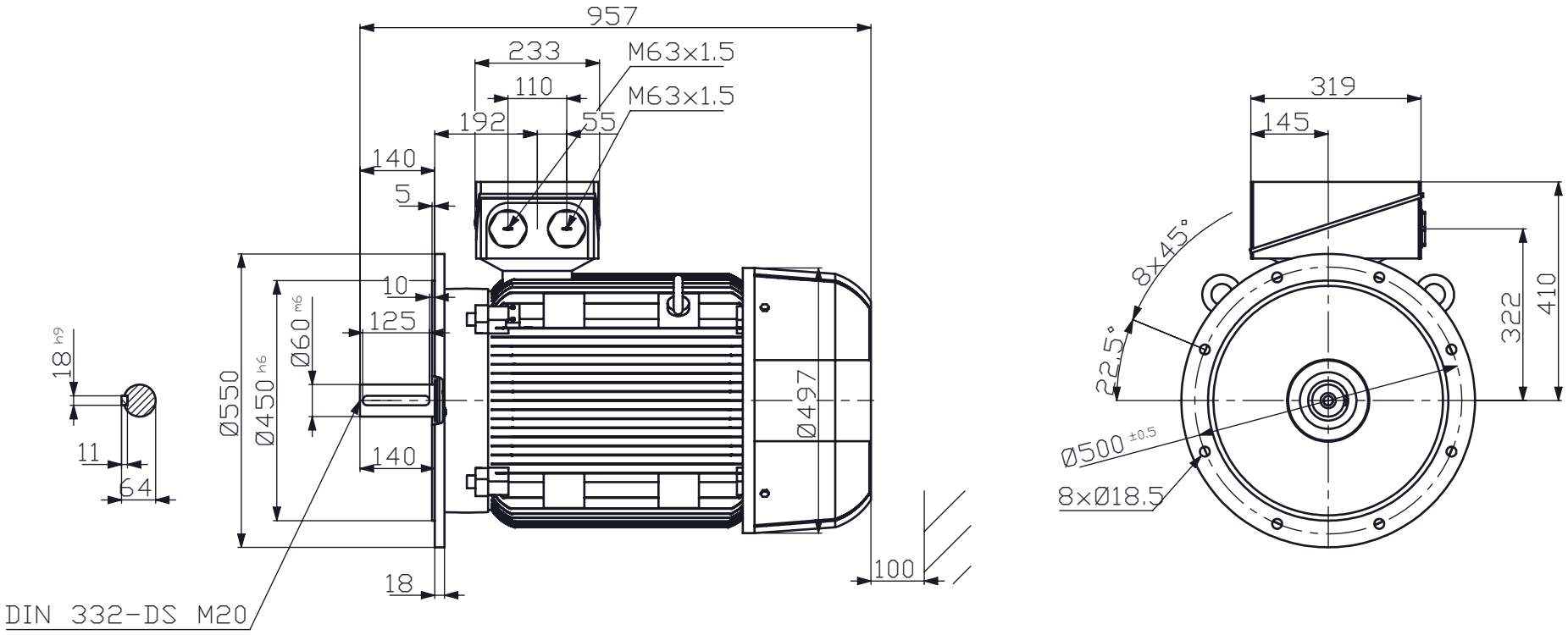
Model No: 6RN250M02E36U463021
Catalog No: 6RN250M02E36U46@3021
75.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 3000 rpm, D400/Y690V 50Hz, 250M Frame B5, IC411

Nameplate Specifications

Output HP	100 Hp	Output KW	75.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	127.00 A	Speed	2970 rpm
Service Factor	1	Phase	3
Efficiency	94.7 %	Power Factor	0.90
Duty	S1	Insulation Class	F
Frame	250M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	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	B5	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Outline Drawing	6RN250M02E36U463021		



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED

REGAL rotor
Mors 2, P.O.box 45
7150 AA Eibergen nl
Tel:+31(0)545 464640
E-mail: info@rotor.nl

MOTORTYPE: 6RN250M02E36		TITLE: Outline drawing		DRAWN:	DATE:
MOUNTING: IM3041		SPECIAL:		CHECKED:	
PROTECTION:		ART. NR.:		COMPLETE OR PARTIAL COPYING OR USE OF SPECIFICATIONS IS NOT ALLOWED WITHOUT OUR PERMISSION.	
COOLING: IC411		REVISION:			
REMARKS:					
DIMENSIONS: MM	SCALE: 1:12	PAPER SIZE: A4	PAGE 1 OF 1	SUBJECT TO ALTERATIONS	

Datasheet

rotor nl®

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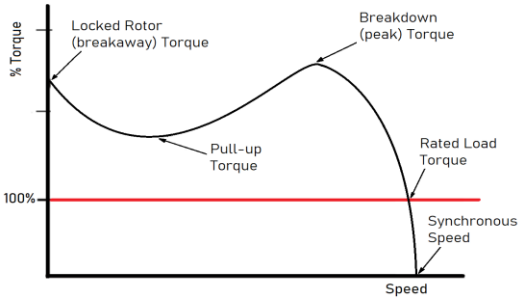
Model No. 2-Pole cage motor 6RN 250M 75kW D400V 50Hz IM3021-FF500

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	75	100	127	2970	241	IE3	94,7	94,9	94,5	0,90	0,89	0,83	6,80	2,14	2,86
690	Y				74												
460	D	60	84	112,6	123	3570	225	IE3	95,0	94,5	94,3	0,90	0,89	0,84	6,80	2,30	2,90

Motor type	**6RN250M02E36**		Degree of protection	**IP55**	
Enclosure	**Totally Enclosed Fan Cooling**		Mounting type	**IM3021-FF500**	
Frame Material	**Cast iron**		Cooling method	**IC411**	
Frame size	**250M**		Motor weight - approx.	**480**	kg
Duty	**S1**		Gross weight - approx.	**490**	kg
Voltage	**400**	V	Motor inertia	**0,5600**	kgm²
Frequency	**50**	Hz			
Power output	**75**	kW	Vibration level	**according IEC60034-14**	
Insulation class	**F**				
Ambient temperature	**-20 till 40**	°C			
Temperature rise	**temp.rise acc. B (80K)**				
Temperature rise winding	**66**	K			
Temperature rise surface	**29**	K	Direction of rotation	**cw /ccw**	
Altitude above sea level	**1000**	mtr			
Hazardous area classification	**Safe area**				
Rotor type	**Cage motor**				
Bearing type	**6315/C3**				
Lubrication method	**25gr/4000hrs**				
Type of grease	**Unirex N3**				
Country of origin	**CZ**				

Schematic presentation of torque-speed curve



Voltage/Freq	Locked rotor Torque [% nom]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 400V 50Hz	214%	679%	176%	286%	30 A
@ D 460V 60Hz	230%	679%		290%	29 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

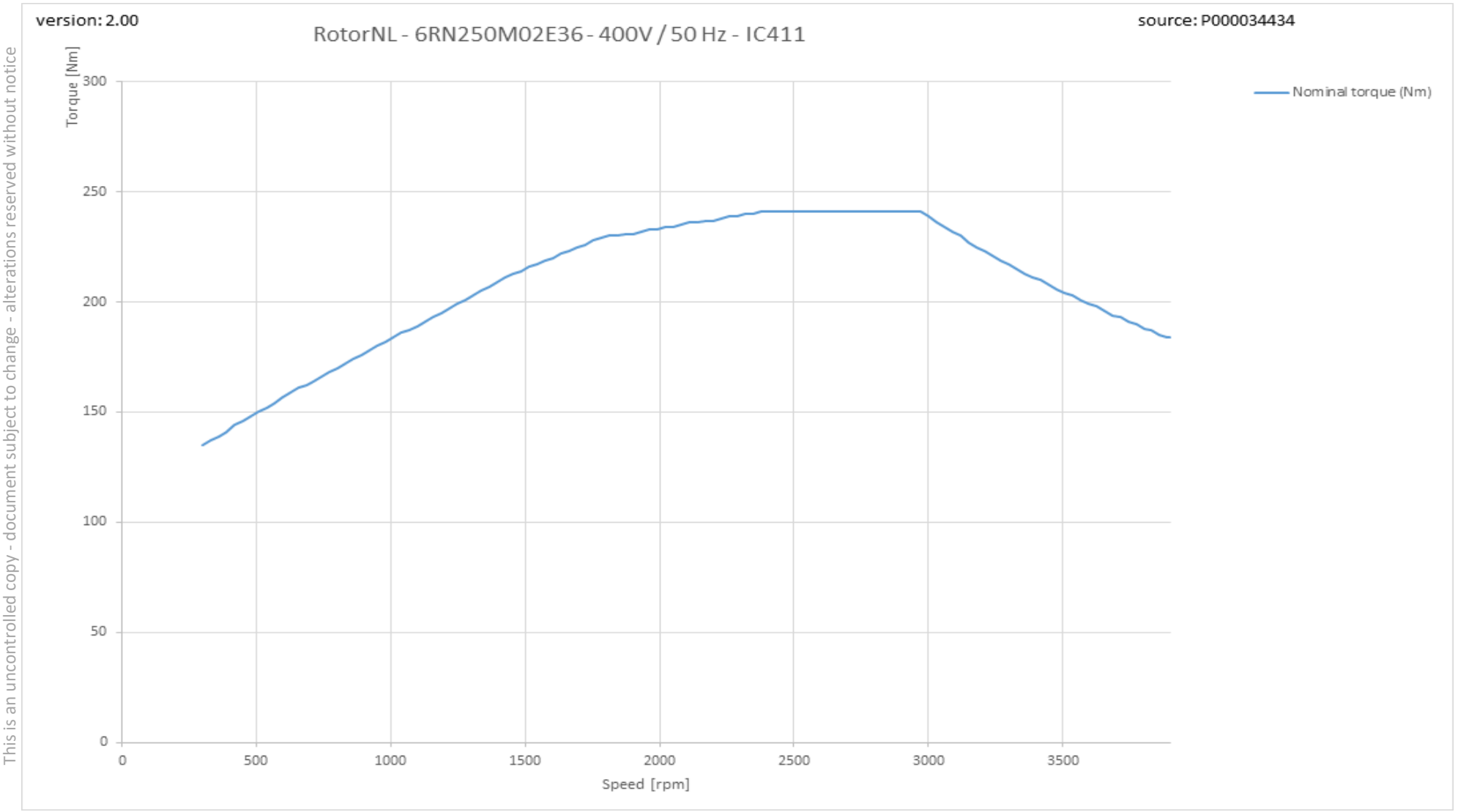
rotor is a ISO 9001 certified company

RegalRexnord

V2.07

6RN250M02E36 2-pole 75,00kW D/Y 400/690V 50Hz S1 IC411 IE3

Torque versus Speed curve with variable frequency drive



Therm_VSD graph