## **PRODUCT INFORMATION PACKET**

Model No: 6RN315S04E30U461041 Catalog No: 6RN315S04E30U46@1041 110.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1500 rpm, D400/Y690V 50Hz, 315S Frame B3, IC411



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# rotor nl

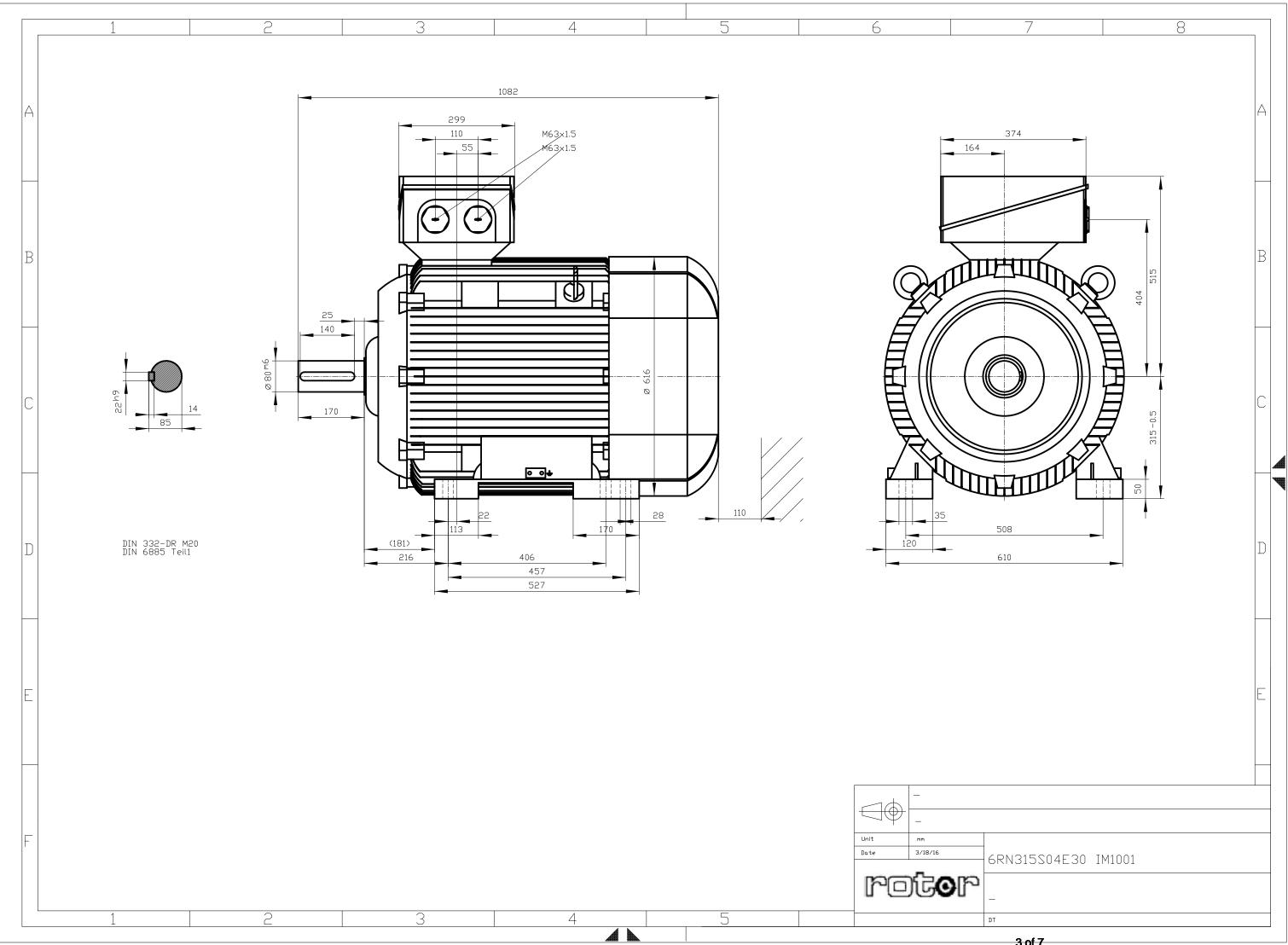
#### Nameplate Specifications

Output HP	150 Hp	Output KW	110.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	192.10 A	Speed	1488 rpm
Service Factor	1	Phase	3
Efficiency	95.4 %	Power Factor	0.86
Duty	S1	Insulation Class	F
Frame	315S	Enclosure	Totally Enclosed Fan Cooled
Frame Thermal Protection	315S No Protection	Enclosure Ambient Temperature	Totally Enclosed Fan Cooled 40 °C
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6319/C3	Ambient Temperature Opp Drive End Bearing Size	40 °C 6319/C3

#### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Clockwise Shaft End
Mounting	B3	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Shaft Diameter	80 mm	Shaft Extension	170 mm
Outline Drawing	6RN315S04E30U461041		

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## Datasheet

Model No. 4-Pole cage motor 6RN 315S 110kW D400V 50Hz IM1041

U	Δ/Υ	f	Р	Р	Ι	n	т	IE	% EF	Fat	load	PF	at _lo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	T <sub>K</sub> /T <sub>N</sub>
(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	110	150	192	1488	705	IE3	95,6	95,9	95,7	0,86	0,84	0,76	7,17	2,44	2,76
690	Y				111												
460	D	60	127	170,2	191	1788	678	IE3	95,8	96,0	95,8	0,87	0,85	0,78	7,03	2,41	2,63

Motor type	6RN315S04E30
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	3155
Duty	S1
Voltage	<b>400</b> V
Frequency	<b>50</b> Hz
Power output	<b>110</b> kW
Insulation class	F
Ambient temperature	<b>-20 till 40</b> °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	<b>63</b> К
Temperature rise surface	<b>26</b> К
Altitude above sea level	<b>1000</b> mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6319/C3
Lubrication method	40gr/6000hrs
Type of grease	Unirex N3

Phase resistance at 20°C	<b>0,0379</b> 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	244%	713%	210%	276%	57,5 A
@ D 460V 60Hz	241%	701%	196%	263%	53.2 A

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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 dat			
Efficiency	Europe	Global IEC	ISO 9001
Standards	EN-IEC: 60034-30	IEC: 60034-30	certified
			company

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Degree of protection	IP55
Mounting type	IM1041
Cooling method	IC411
Motor weight - approx.	<b>760</b> kg
Gross weight - approx.	<b>780</b> kg
Motor inertia	<b>2,2000</b> kgm²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	<b>70</b> dB(A)

Direction of rotation

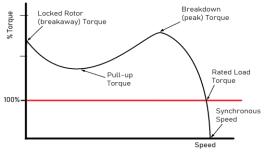
cw /ccw PTC 150°C

*FRegal*Rexnord<sup>®</sup>

POt⊙P B.V.

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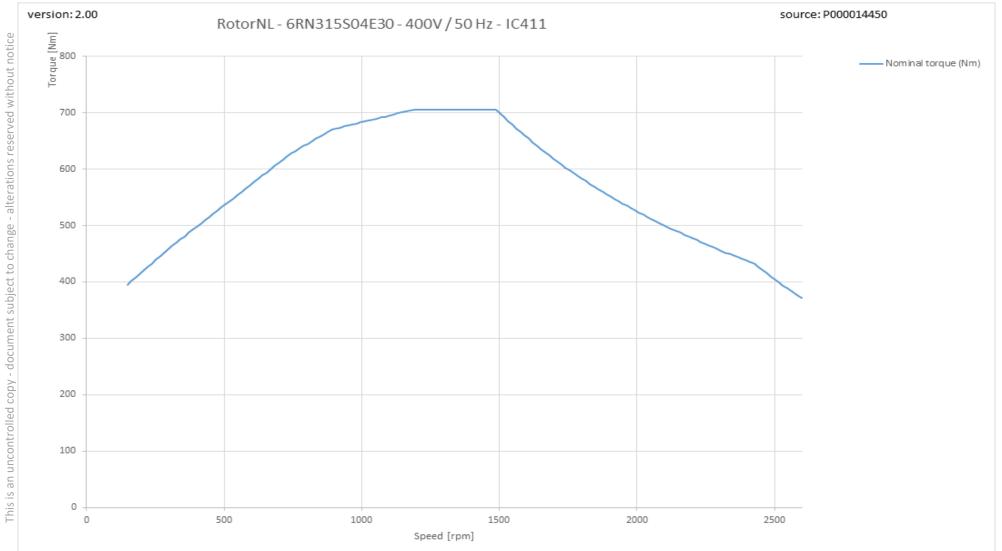
Schematic presentation of torque-speed curve



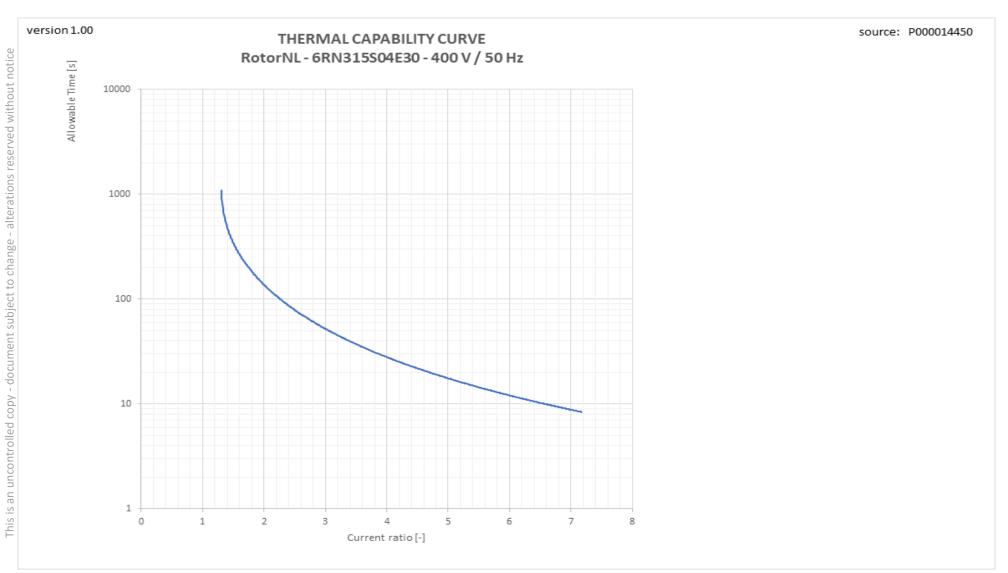
6RN315S04E30 4-pole 110,00kW D/Y 400/690V 50Hz S1 IC411 IE3

# rotor B.v.

Torque versus Speed curve with variable frequency drive



Therm\_VSD graph



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Tn graph

