

PRODUCT INFORMATION PACKET



Model No: 6RN315M04E42U46B2021

Catalog No: 6RN315M04E42U46B@2021

132.00 kW General Purpose Low Voltage IEC Motor IE4, 3 phase, 1500 rpm, D400/Y690V 50Hz,
315M Frame B35, IC411

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Nameplate Specifications

Output HP	175.00 Hp	Output KW	132.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	230.20 A	Speed	1491 rpm
Service Factor	1	Phase	3
Efficiency	96.4 %	Power Factor	0.86
Duty	S1	Insulation Class	F
Frame	315M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6319/C3	Opp Drive End Bearing Size	6319/C3
UL	No	CSA	Optional
CE	Yes	IP Code	IP55
Number of Speeds	1	Efficiency Class	IE4

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Clockwise Shaft End
Mounting	B35	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Outline Drawing	6RN315M04E42_2041		

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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

Model No. 4-Pole cage motor 6RN 315M 132kW D400V 50Hz IM2021-FF600

U (V)	Δ / Y Conn	f [Hz]	P		I [A]	n [RPM]	T [Nm]	IE Class	% EFF at __ load			PF at __load			I _A /I _N [pu]	T _A /T _N [pu]	T _R /T _N [pu]
			[kW]	[hp]					FL	3/4FL	1/2FL	FL	3/4FL	1/2FL			
400	D	50	132	175	225	1491	845	IE4	96,3	96,5	96,2	0,86	0,82	0,74	8,55	3,28	3,28
690	Y				129												
460	D	60	152	203,8	230	1790	810	IE4	96,5	96,5	96,0	0,87	0,84	0,76	9,11	3,53	3,18

Motor type	6RN315M04E42
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	315M
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	132 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	49 K
Temperature rise surface	31 K
Altitude above sea level	1000 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	0,0241 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	328%	871%	256%	328%	78,3 A
@ D 460V 60Hz	353%	904%	243%	318%	72,2 A

NOTE

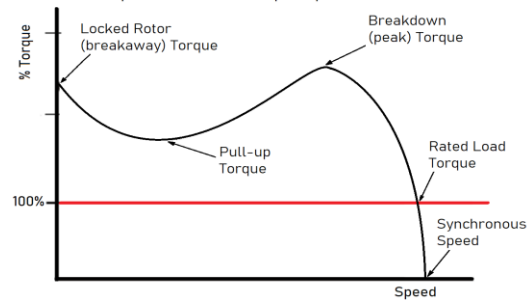
All performance values at rated voltage and frequency.
 All performance parameters are subjected to standard tolerance as per IEC 60034-1
 Voltage, Frequency are as per IEC60034-1
 Technical data are subject to change. There may be discrepancies between calculated and name plate values.

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

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Degree of protection	IP55
Mounting type	IM2021-FF600
Cooling method	IC411
Motor weight - approx.	980 kg
Gross weight - approx.	1010 kg
Motor inertia	3,1000 kgm²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	70 dB(A)
Direction of rotation	cw / ccw
	PTC 150°C

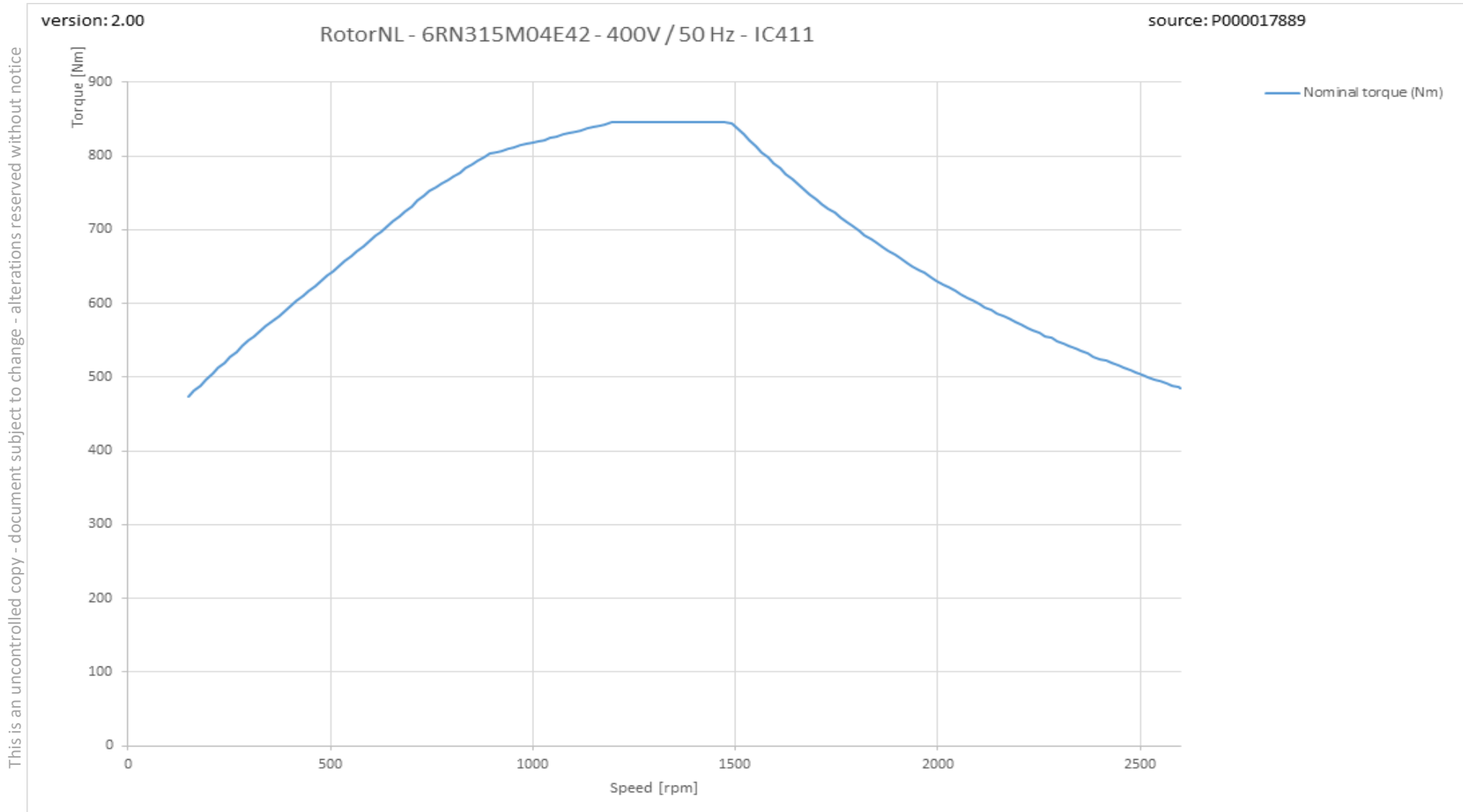
Schematic presentation of torque-speed curve



6RN315M04E42 4-pole 132,00kW D/Y 400/690V 50Hz S1 IC411 IE4



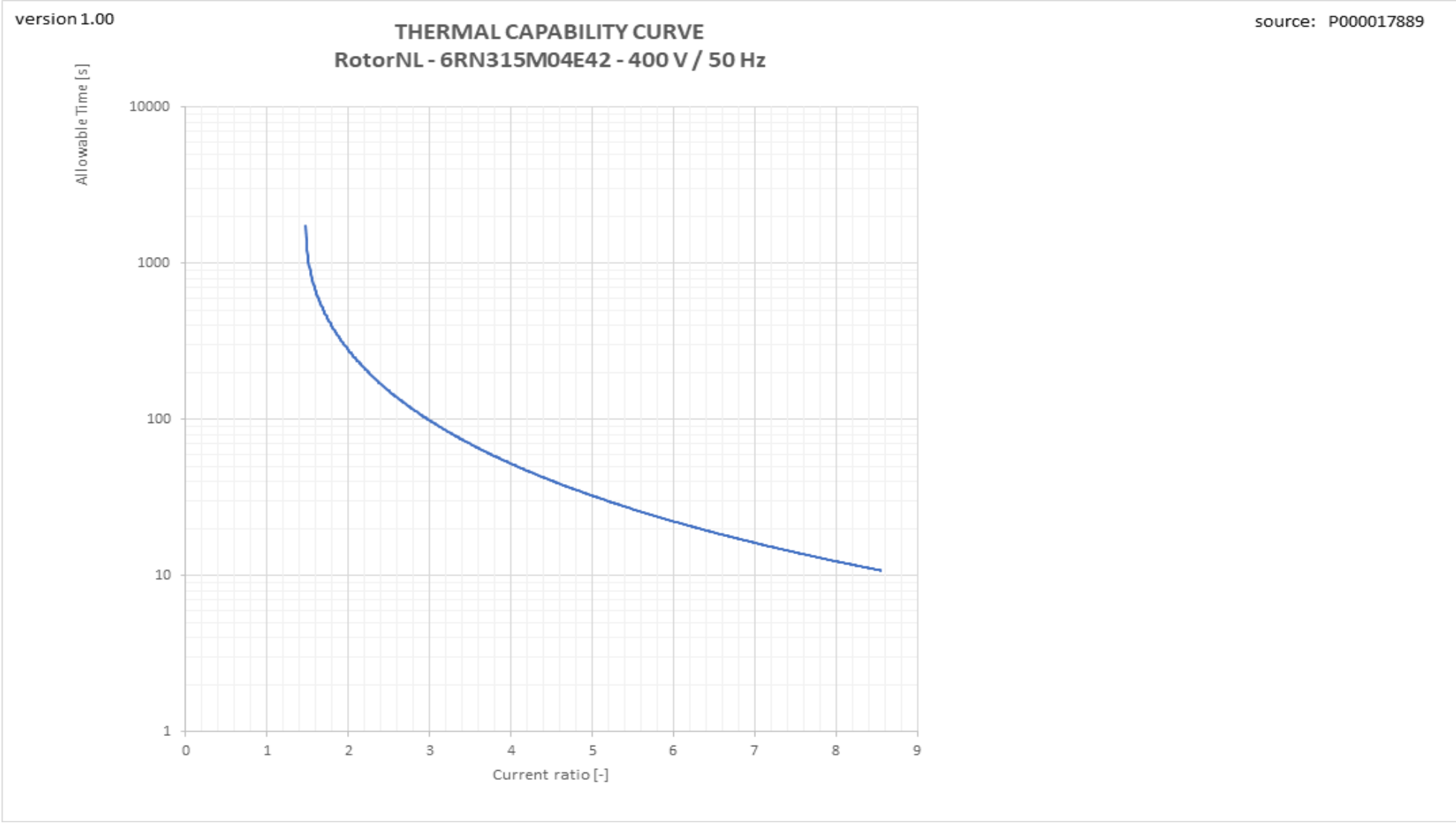
Torque versus Speed curve with variable frequency drive



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Therm_VSD graph

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Tn graph

