

# PRODUCT INFORMATION PACKET



Model No: 6RN315L02E36U463011

Catalog No: 6RN315L02E36U46@3011

250.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 3000 rpm, D400/Y690V 50Hz,  
315L Frame V1, IC411



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## Nameplate Specifications

Output HP	335 Hp	Output KW	250.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	409.70 A	Speed	2985 rpm
Service Factor	1	Phase	3
Efficiency	95.9 %	Power Factor	0.92
Duty	S1	Insulation Class	F
Frame	315L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6316/C3	Opp Drive End Bearing Size	6316/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	V1	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed

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## Datasheet

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**Model No.** 2-Pole cage motor 6RN 315L 250kW D400V 50Hz IM3011-FF740

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 <sub>A</sub> /I <sub>N</sub> [pu]	T <sub>A</sub> /T <sub>N</sub> [pu]	T <sub>K</sub> /T <sub>N</sub> [pu]
400	D	50	250	335	409	2985	799	IE3	95,9	0,92	9,56	3,00	3,36
690	Y				236								
460	D	60	280	375	399	3585	745	IE2	95,5	0,92	9,93	3,62	3,31

Motor type	6RN315L02E36
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	315L
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	250 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise surface	
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6316/C3
Lubrication method	30gr/3000hrs
Type of grease	Unirex N3

Country of origin	CZ
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Voltage/Freq	Locked rotor Torque [% nom]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 400V 50Hz	300%	955%		336%	
@ D 460V 60Hz	362%	992%		331%	

## 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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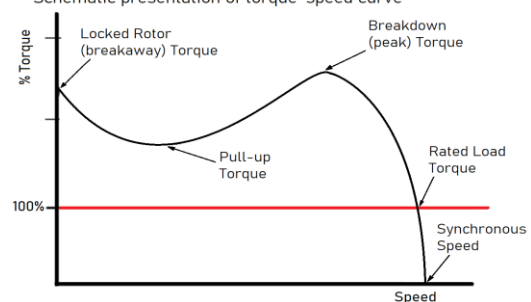
Degree of protection	IP55
Mounting type	IM3011-FF740
Cooling method	IC411
Motor weight - approx.	1300 kg
Gross weight - approx.	1340 kg

Vibration level	according IEC60034-14
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Direction of rotation	cw /ccw
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PTC 150°C

Schematic presentation of torque-speed curve



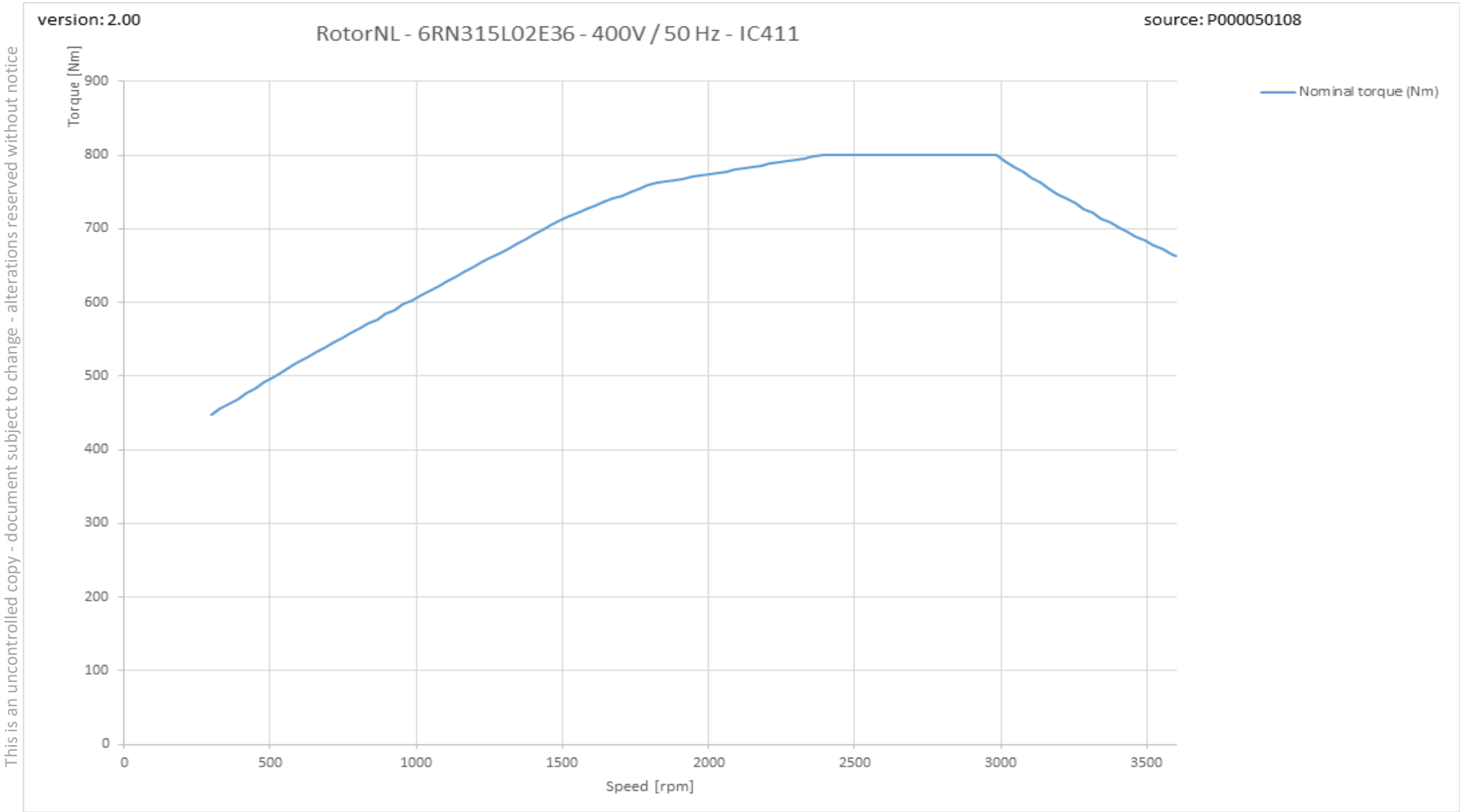
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6RN315L02E36 2-pole 250,00kW D/Y 400/690V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive



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