

PRODUCT INFORMATION PACKET

rotor nl[®]

Model No: 6RN315L08E34U463011

Catalog No: 6RN315L08E34U46@3011

90.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 750 rpm, D400/Y690V 50Hz,
315L Frame V1, IC411



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Nameplate Specifications

Output HP	120.00 Hp	Output KW	90.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	168.00 A	Speed	740 rpm
Service Factor	1	Phase	3
Efficiency	93.4 %	Power Factor	0.83
Duty	S1	Insulation Class	F
Frame	315L	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	IE3

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	8	Rotation	Clockwise Shaft End
Mounting	V1	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Outline Drawing	6RN315L08E34_3021		

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Datasheet

rotor nl®

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Model No. 8-Pole cage motor 6RN 315L 90kW D400V 50Hz IM3011-FF600

U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	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 _K /T _N [pu]
									FL	3/4FL	1/2FL	FL	3/4FL	1/2FL			
400	D	50	90	120	168	740	1160	IE3	93,4	94,2	94,3	0,83	0,79	0,70	5,80	2,20	2,50
690	Y				96,9												
460	D	60	108	144,8	174	890	1150	IE3	94,1			0,83			5,50	2,00	2,40

Motor type	6RN315L08E34
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	315L
Duty	S1
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 surface	
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

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	220%			250%	
@ D 460V 60Hz	200%	550%		240%	

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

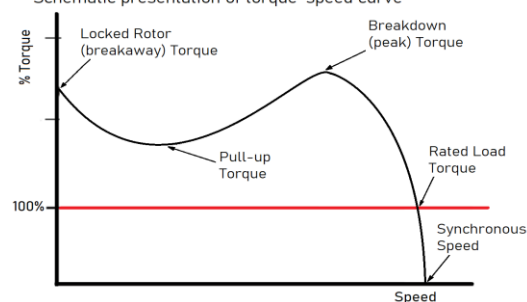
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Degree of protection	IP55
Mounting type	IM3011-FF600
Cooling method	IC411
Motor weight - approx.	kg
Gross weight - approx.	kg
Motor inertia	3,1000 kgm ²
Vibration level	according IEC60034-14

Direction of rotation	cw /ccw
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PTC 150°C

Schematic presentation of torque-speed curve



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is a
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6RN315L08E34 8-pole 90,00kW D/Y 400/690V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive

