

PRODUCT INFORMATION PACKET



Model No: 6RN315M06E42U463021

Catalog No: 6RN315M06E42U46@3021

90.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1000 rpm, D400/Y690V 50Hz,
315M Frame B5, IC411



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Nameplate Specifications

Technical Specifications

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Datasheet

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Model No. 6-Pole cage motor 6RN 315M 90kW D400V 50Hz IM3021-FF600

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	90	120	160	993	886	IE4	95,6	0,85	7,20	2,70	3,00
690	Y				92,4								
460	D	60	108	144,8	166	1192	865	IE4	95,8	0,85	7,20	2,40	2,70

Motor type	6RN315M06E42
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	315M
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	270%	718%		300%	
@ D 460V 60Hz	240%	716%		270%	

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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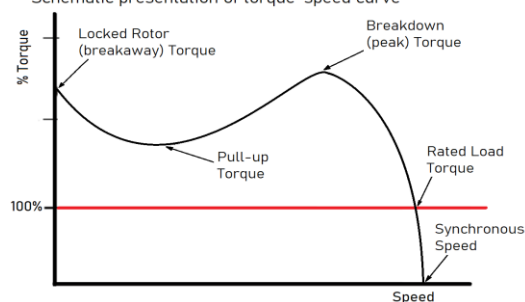
Degree of protection	IP55
Mounting type	IM3021-FF600
Cooling method	IC411
Motor weight - approx.	890 kg
Gross weight - approx.	920 kg

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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6RN315M06E42 6-pole 90,00kW D/Y 400/690V 50Hz S1 IC411 IE4



Torque versus Speed curve with variable frequency drive

