

PRODUCT INFORMATION PACKET



Model No: 6RN280M06E42U463021

Catalog No: 6RN280M06E42U46@3021

55.00 kW General Purpose Low Voltage IEC Motor IE4, 3 phase, 1000 rpm, D400/Y690V 50Hz,
280 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 280 55kW D400V 50Hz IM3021-FF500

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	55	75	99	990	531	IE4	95,1	95,6	95,5	0,84	0,80	0,71	9,00	3,60	3,40
690	Y				57												
460	D	60	66	88,47	104	1188	531	IE4	95,0	95,5	95,4	0,84	0,81	0,73	8,70	3,38	2,90

Motor type	6RN280M06E42
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	280
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	55 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	6317/C3
Lubrication method	30gr/8000hrs
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	360%	900%		340%	
@ D 460V 60Hz	338%	869%	273%	290%	34,4 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.

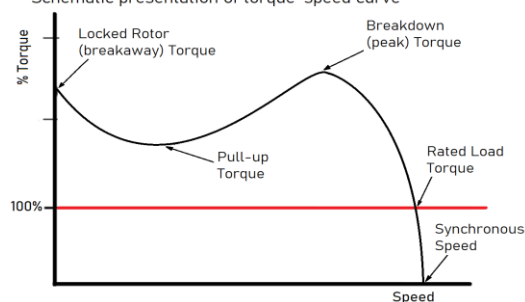
Efficiency	Europe	Global IEC
Standards	EN-IEC: 60034-30	IEC: 60034-30

Degree of protection	IP55
Mounting type	IM3021-FF500
Cooling method	IC411
Motor weight - approx.	560 kg
Gross weight - approx.	580 kg

Vibration level	according IEC60034-14
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Direction of rotation	cw / ccw
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Schematic presentation of torque-speed curve



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6RN280M06E42 6-pole 55,00kW D/Y 400/690V 50Hz S1 IC411 IE4



Torque versus Speed curve with variable frequency drive

