

Model No. 2-Pole cage motor 5RN 280M 110kW 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 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	110	150	182	2978	352,8	IE2	95,7 94,6	0,90 0,88	7,80	2,80	3,30
690	Y				105								
460	D	60	123	164,9	182	3578	328,3	IE2	94,5 94,4	0,90 0,89	7,80	2,80	3,30

Motor type	5RN280M02E28
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	280M
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	110 kW

Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	-
Temperature rise winding	69 K
Temperature rise surface	30 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6217/C3
Lubrication method	37gr/2500hrs
Type of grease	Unirex N3

Phase resistance at 20°C	0,0341 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	280%	791%	230%	330%	49,4 A
@ D 460V 60Hz	280%	774%		330%	

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

This is an uncontrolled copy, data can be changed anytime.

Degree of protection	IP55
Mounting type	IM3021-FF500
Cooling method	IC411
Motor weight - approx.	650 kg
Gross weight - approx.	670 kg
Motor inertia	1,2000 kgm ²
Vibration level	according IEC60034-14

Direction of rotation cw / ccw

Schematic presentation of torque-speed curve



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Driving efficiency and sustainability

