

Model No. 4-Pole cage motor 7RN 280 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	187	1490	705,0	IE4	96,3	0,88	9,50	2,90	3,50
690	Y				108								
460	D	60	127	170,2	188	1790	677,6	IE4	96,2	0,88	9,40	2,80	3,30

Motor type	7RN280M04E46
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	280
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 surface	
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6316/C3 S0
Lubrication method	30gr/8000hrs
Type of grease	Unirex N3

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	290%			350%	
@ D 460V 60Hz	280%	936%		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.	710 kg
Gross weight - approx.	730 kg
Motor inertia	2,5500 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

