

Model No. 4-Pole cage motor 5RN 280S 75kW D400V 50Hz IM2021-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	75	100	132	1485	482,3	IE2	93,9 94,3	0,87 0,85	7,24	2,44	2,82
690	Y				76,2								
460	D	60	86	115,3	130	1784	460,4	IE2	94,4 94,8	0,88 0,86	7,30	2,38	2,80

Motor type	5RN280S04E20
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	280S
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	75 kW

Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B
Temperature rise winding	65 K
Temperature rise surface	30 K
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

Phase resistance at 20°C	0,0614 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	244%	699%	210%	282%	38,3 A
@ D 460V 60Hz	238%	730%	205%	280%	36,4 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

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

Degree of protection	IP55
Mounting type	IM2021-FF500
Cooling method	IC411
Motor weight - approx.	530 kg
Gross weight - approx.	550 kg
Motor inertia	1,3000 kgm ²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	67 dB(A)

Direction of rotation	cw / ccw
-----------------------	----------

Schematic presentation of torque-speed curve



P000011818
P000011817



Driving efficiency and sustainability

