

Model No. 4-Pole cage motor 5RN 250M 55kW 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	55	75	100	1481	354,7	IE2	93,5 93,9	0,84 0,80	7,10	2,80	3,00
690	Y				57,7								
460	D	60	63	84,45	99	1780	338,0	IE2	94,1 94,4	0,85 0,82	7,10	2,95	3,00

Motor type	5RN250M04E23
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	250M
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. F
Temperature rise winding	67 K
Temperature rise surface	35 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6315/C3
Lubrication method	25gr/8000hrs
Type of grease	Unirex N3

Phase resistance at 20°C	0,0394 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%	718%	210%	300%	38,9 A
@ D 460V 60Hz	295%	709%	220%	300%	34,9 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	IM2021-FF500
Cooling method	IC411
Motor weight - approx.	430 kg
Gross weight - approx.	440 kg
Motor inertia	0,5626 kgm ²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	62 dB(A)

Direction of rotation	cw / ccw
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Schematic presentation of torque-speed curve



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

Driving efficiency and sustainability

