

Model No. 2-Pole cage motor 5RN 250M 55kW D400V 50Hz IM1041

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	96,4	2970	176,9	IE2	93,4 93,3	0,88 0,86	7,40	2,21	3,16
690	Y				55,4								
460	D	60	62	83,11	94	3571	165,8	IE2	93,6 92,8	0,89 0,87	7,36	2,25	3,11

Motor type	5RN250M02E23
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	71 K
Temperature rise surface	28 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6215/C3
Lubrication method	23gr/3700hrs
Type of grease	Unirex N3

Phase resistance at 20°C	0,0108 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	221%	739%	165%	316%	30,2 A
@ D 460V 60Hz	225%	731%	167%	311%	27 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	IM1041
Cooling method	IC411
Motor weight - approx.	380 kg
Gross weight - approx.	390 kg
Motor inertia	0,4000 kgm ²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	74 dB(A)

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



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Driving efficiency and sustainability

