

Model No. 4-Pole cage motor 5RN 90L 1,5kW D230V 50Hz IM1081

U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [Nm]	IE Class	% EFF at __ load			PF at __load			I _A /I _N [pu]	T _A /T _N [pu]	T _K /T _N [pu]
									FL	3/4FL	1/2FL	FL	3/4FL	1/2FL			
230	D	50	1,5	2	6,15	1415	10,1	IE1	78,5	77,7	74,9	0,78	0,69	0,54	5,36	2,57	2,87
400	Y				3,55												
265	D	60	1,75	2 1/3	5,9	1715	9,7	N/A	80,4	81,2	78,4	0,80	0,73	0,58	6,07	2,68	3,20
460	Y				3,4												

Motor type	5RN90L04
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	90L
Duty	S1
Voltage	230 V
Frequency	50 Hz
Power output	1,5 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B
Temperature rise winding	69 K
Temperature rise surface	36 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Degree of protection	IP55
Mounting type	IM1081
Cooling method	IC411
Motor weight - approx.	16 kg
Gross weight - approx.	16 kg
Motor inertia	0,0044 kgm ²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	0 dB(A)

Rotor type	Cage motor
Bearing type	6205-2Z/C3WT

Type of grease	Unirex N3
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Phase resistance at 20°C	4,9268 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 230V 50Hz	257%	538%	213%	287%	4,5 A
@ D 265V 60Hz	268%	349%	221%	320%	2,15 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.

Schematic presentation of torque-speed curve



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Driving efficiency and sustainability

