

Model No. 4-Pole cage motor 5RN 90S 1,1kW D230V 50Hz IM2181-FT115

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]
230	D	50	1,1	1 1/2	4,5	1415	7,4	IE1	77,3 75,5 73,0	0,79 0,70 0,54	5,20	2,49	2,75
400	Y				2,6								
265	D	60	1,3	1,743	4,4	1710	7,3	N/A	79,9 80,7	0,81 0,73	5,50	2,59	3,29
460	Y				2,55								

Motor type	5RN90S04
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	90S
Duty	S1
Voltage	230 V
Frequency	50 Hz
Power output	1,1 kW

Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. F
Temperature rise winding	61 K
Temperature rise surface	22 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

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

Type of grease	Unirex N3
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Phase resistance at 20°C	7,7000 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	249%	520%	221%	275%	3,15 A
@ D 265V 60Hz	259%	318%	229%	329%	2,8 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	IM2181-FT115
Cooling method	IC411
Motor weight - approx.	13 kg
Gross weight - approx.	13 kg
Motor inertia	0,0028 kgm ²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	0 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

