

Model No. 2-Pole cage motor 5RN 80M 1,75kW D230V 50Hz IM2181-FT130

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	1,75	2 1/3	7,1	2835	5,9	IE1	78,4 78,2 72,5	0,78 0,71 0,56	7,02	4,20	4,20
400	Y				4,1								
265	D	60	2	2,681	6,65	3430	5,6	N/A	80,3	0,81	7,75	4,35	4,31
460	Y				3,85								

Motor type	5RN80M02V
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	80M
Duty	S1
Voltage	230 V
Frequency	50 Hz
Power output	1,75 kW

Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise exceeds class H
Temperature rise winding	90 K
Temperature rise surface	39 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area
Te time	0 sec

Rotor type	Cage motor
Bearing type	6204-2Z/C3WT

Type of grease	Unirex N3
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Phase resistance at 20°C	2,5833 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	420%	701%	410%	420%	4,82 A
@ D 265V 60Hz	435%	774%	424%	431%	3,74 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-FT130
Cooling method	IC411
Motor weight - approx.	14 kg
Gross weight - approx.	14 kg
Motor inertia	0,0014 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

