

Model No. 2-Pole cage motor 5RN 112M 5,5kW D230V 50Hz IM2181-FT165

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	5,5	7 1/3	18,5	2905	18,1	IE1	86,3 86,6 85,4	0,86 0,83 0,75	6,10	2,71	3,37
400	Y				10,7								
265	D	60	6,3	8,445	18,2	3500	17,2	N/A	87,3 88,3 86,6	0,86 0,83 0,76	8,57	2,85	3,61
460	Y				10,5								

Motor type	5RN112M02V
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	112M
Duty	S1
Voltage	230 V
Frequency	50 Hz
Power output	5,5 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. H
Temperature rise winding	83 K
Temperature rise surface	37 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6306-2Z/C3WT

Type of grease	Unirex N3
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Phase resistance at 20°C	0,8007 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	271%	605%	215%	337%	6,84 A
@ D 265V 60Hz	285%	493%	224%	361%	6,2 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-FT165
Cooling method	IC411
Motor weight - approx.	48 kg
Gross weight - approx.	49 kg
Motor inertia	0,0077 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

