Datasheet

rotor nl

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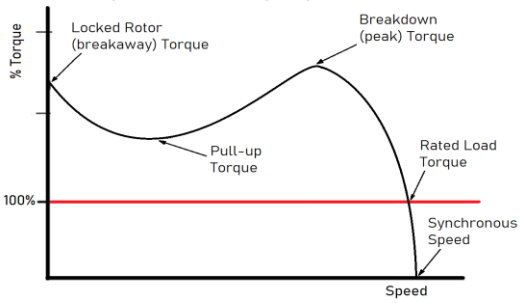
Model No. 4-Pole cage motor 6RN 80M 0,55kW D230V 50Hz IM2181-FT130

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	0,55	0,737	2,5	1385	3,8	IE1	70,8	71,4	67,7	0,79	0,69	0,54	3,76	2,05	2,21
400	Y				1,44												
265	D	60	0,63	0,845	2,37	1685	3,6	IE1	73,9	74,0	70,4	0,78	0,69	0,55	4,36	2,22	2,45
460	Y				1,37												

Motor type	**6RN80M04E12**	Degree of protection	**IP55**
Enclosure	**Totally Enclosed Fan Cooling**	Mounting type	**IM2181-FT130**
Frame Material	**Aluminum**	Cooling method	**IC411**
Frame size	**80M**	Motor weight - approx.	**09** kg
Duty	**S1**	Gross weight - approx.	**09** kg
Voltage	**230** V	Motor inertia	**0,0014** kgm²
Frequency	**50** Hz		
Power output	**0,55** kW	Vibration level	**according IEC60034-14**
		Noise level (pressure) acc 60034-9	**56** dB(A)
Insulation class	**F**		
Ambient temperature	**-20 till 40** °C		
Temperature rise	**temp.rise acc. B**		
Temperature rise winding	**65** K		
Temperature rise surface	**37** K	Direction of rotation	**cw /ccw**
Altitude above sea level	**1000** mtr		
Hazardous area classification	**Safe area**		
Te time	0 sec		
Rotor type	**Cage motor**		
Bearing type	**6004-2Z/C3WT**		
Type of grease	**Unirex N3**		
Phase resistance at 20°C	**16,9020** 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	205%	368%		221%	1,77 A
@ D 265V 60Hz	222%	438%		245%	1,63 A

Schematic presentation of torque-speed curve



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NOTE

All performance values at rated voltage and frequency. P000040855

All performance parameters are subjected to standard tolerance as per IEC 60034-1 P000040858

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

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