Datasheet

rotor nl

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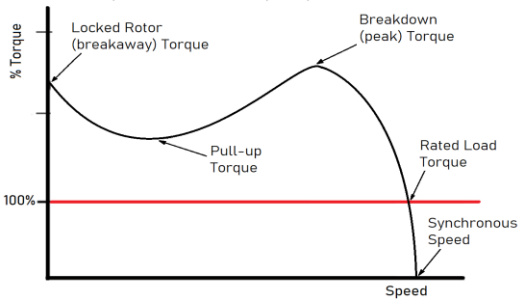
Model No. 8-Pole cage motor 6RN 160L 7,5kW D230V 50Hz IM1081

U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [Nm]	IE Class	% EFF at __ load 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	7,5	10	32,3	715	100,2	IE1	82,5	83,9	83,5	0,69	0,63	0,52	4,33	1,57	2,15
400	Y				18,7												
265	D	60	8,6	11,53	31,3	865	94,9	IE1	85,5	86,4	85,5	0,70	0,64	0,53	4,52	1,56	2,33
460	Y				18,1												

Motor type	**6RN160L08E14**	Degree of protection	**IP55**
Enclosure	**Totally Enclosed Fan Cooling**	Mounting type	**IM1081**
Frame Material	**Cast iron**	Cooling method	**IC411**
Frame size	**160L**	Motor weight - approx.	**97** kg
Duty	**S1**	Gross weight - approx.	**100** kg
Voltage	**230** V	Motor inertia	**0,0770** kgm²
Frequency	**50** Hz		
Power output	**7,5** kW	Vibration level	**according IEC60034-14**
		Noise level (pressure) acc 60034-9	**63** dB(A)
Insulation class	**F**		
Ambient temperature	**-20 till 40** °C		
Temperature rise	**temp.rise acc. F**		
Temperature rise winding	**77** K		
Temperature rise surface	**44** K	Direction of rotation	**cw /ccw**
Altitude above sea level	**1000** mtr		
Hazardous area classification	**Safe area**		
Rotor type	**Cage motor**		
Bearing type	**6309-2Z/C3WT**		
Type of grease	**Unirex N3**		
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	157%	433%		215%	17,6 A
@ D 265V 60Hz	156%	450%		233%	16,4 A

Schematic presentation of torque-speed curve



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NOTE

All performance values at rated voltage and frequency. P000041107

All performance parameters are subjected to standard tolerance as per IEC 60034-1 P000041106

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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