Datasheet

rotor nl

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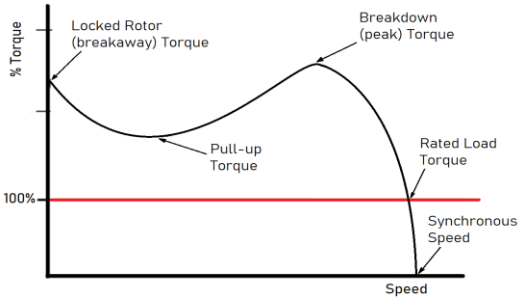
Model No. 6-Pole cage motor 5RN 315L 110kW D400V 50Hz IM1041

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]
400	D	50	110	150	196	988	1063,3	IE1	94,3	94,5	94,1	0,85	0,82	0,74	7,27	2,54	2,75
690	Y				114												
460	D	60	132	175	200	1188	1061,1	N/A	94,5			0,86			7,27	2,31	2,54

Motor type	**5RN315L06A6**		Degree of protection	**IP55**	
Enclosure	**Totally Enclosed Fan Cooling**		Mounting type	**IM1041**	
Frame Material	**Cast iron**		Cooling method	**IC411**	
Frame size	**315L**		Motor weight - approx.	**900**	kg
Duty	**S1**		Gross weight - approx.	**930**	kg
Voltage	**400**	V	Motor inertia	**3,5000**	kgm²
Frequency	**50**	Hz			
Power output	**110**	kW	Vibration level	**according IEC60034-14**	
			Noise level (pressure) acc 60034-9	**0**	dB(A)
Insulation class	**F**				
Ambient temperature	**-20 till 40**	°C			
Temperature rise	**temp.rise acc. H**				
Temperature rise winding	**82**	K			
Temperature rise surface	**53**	K	Direction of rotation	**cw /ccw**	
Altitude above sea level	**1000**	mtr			
Hazardous area classification	**Safe area**			**PTC 150°C**	
Rotor type	**Cage motor**				
Bearing type	**6319/C3**				
Lubrication method	**40gr/6000hrs**				
Type of grease	**Unirex N3**				
Phase resistance at 20°C	**0,0560**	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 400V 50Hz	254%	724%	226%	275%	72 A
@ D 460V 60Hz	231%	725%	209%	254%	64,3 A

Schematic presentation of torque-speed curve



NOTE

All performance values at rated voltage and frequency. P000004330

All performance parameters are subjected to standard tolerance as per IEC 60034-1 P000004333

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

rotor is a ISO 9001 certified company

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