

Model No. 6-Pole cage motor 5RN 315L 160kW D400V 50Hz IM1001

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	160	214,5	284	990	1543,4	IE2	95,5	0,85	8,55	3,13	3,02
690	Y				164								
460	D	60	192	257,4	292	1189	1542,1	IE2	95,6 95,1	0,86 0,82	8,39	2,91	3,08

Motor type	5RN315L06E28
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	315L
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	160 kW

Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B
Temperature rise winding	59 K
Temperature rise surface	51 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6319/C3
Lubrication method	40gr/6000hrs
Type of grease	Unirex N3

Phase resistance at 20°C	0,0255 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	313%	855%	208%	302%	107 A
@ D 460V 60Hz	291%	839%	208%	308%	101 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

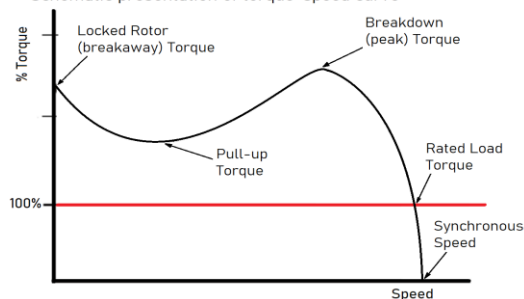
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Degree of protection	IP55
Mounting type	IM1001
Cooling method	IC411
Motor weight - approx.	1180 kg
Gross weight - approx.	1220 kg
Motor inertia	5,3900 kgm ²
Vibration level	according IEC60034-14

Direction of rotation cw /ccw

PTC 150°C

Schematic presentation of torque-speed curve



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Driving efficiency and sustainability

