

Model No. 6-Pole cage motor 5RN 315M 90kW 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			PF at __load			I _A /I _N [pu]	T _A /T _N [pu]	T _K /T _N [pu]
									FL	3/4FL	1/2FL	FL	3/4FL	1/2FL			
400	D	50	90	120	164	988	869,9	IE2	94,0	94,2	93,6	0,83	0,79	0,70	7,40	2,59	2,85
690	Y				94												
460	D	60	108	144,8	170	1188	868,2	N/A	94,4	94,6	94,0	0,84	0,81	0,72	6,84	2,46	2,64

Motor type	5RN315M06A3
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	315M
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	90 kW

Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. H
Temperature rise winding	75 K
Temperature rise surface	49 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	0,0671 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	259%	737%	241%	285%	60,4 A
@ D 460V 60Hz	246%	682%	215%	264%	55,4 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	IM1041
Cooling method	IC411
Motor weight - approx.	730 kg
Gross weight - approx.	750 kg
Motor inertia	2,6500 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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PTC 150°C

Schematic presentation of torque-speed curve



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P000004309



Driving efficiency and sustainability

