

Datasheet

rotor nl®

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Model No. 8-Pole cage motor 7RN 355M 315kW D400V 50Hz IM3011-FF840

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	315	425	600	744	4040	IE3	95,6 95,6 93,4	0,80 0,63 0,40	7,33	2,44	2,95
690	Y				346								
460	D	60	362	485,3	600	892	3870	IE3	95,0	0,80	6,90	2,80	2,70

Motor type	7RN355M08E32
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	355M
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	315 kW

Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	72 K
Temperature rise surface	54 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6320/C4
Lubrication method	60gr/6000hrs
Type of grease	Unirex N3

Phase resistance at 20°C	0,0115 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	244%	690%	234%	295%	265 A
@ D 460V 60Hz	280%	690%		270%	

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

Degree of protection	IP55
Mounting type	IM3011-FF840
Cooling method	IC411
Motor weight - approx.	2040 kg
Gross weight - approx.	2100 kg
Motor inertia	10,5000 kgm ²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	67,8 dB(A)

Direction of rotation	cw /ccw
	PTC 150°C

Schematic presentation of torque-speed curve



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