

Model No. 4-Pole cage motor 7RN 315L 315kW D400V 50Hz IM3021-FF740

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	567	1490	2019,0	IE3	96,6 96,6 96,3	0,83 0,79 0,69	8,60	3,35	3,43
690	Y				328								
460	D	60	360	482,6	549	1790	1920,7	IE3	96,7 96,7 96,3	0,85 0,81 0,73	8,50	3,00	3,20

Motor type	7RN315L04E37
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	315L
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. F
Temperature rise winding	70 K
Temperature rise surface	
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6319/C4
Lubrication method	40gr/6000hrs
Type of grease	Unirex N3

Phase resistance at 20°C	0,0074 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	335%	858%		343%	219 A
@ D 460V 60Hz	300%	850%		320%	191 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	IM3021-FF740
Cooling method	IC411
Motor weight - approx.	1560 kg
Gross weight - approx.	1610 kg
Motor inertia	5,4000 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

