

Model No. 6-Pole cage motor 6RN 315L 160kW D400V 50Hz IM2021-FF600

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	160	214,5	285	988	1546,6	IE1	94,9	95,1	94,6	0,85	0,82	0,74	8,12	2,95	2,93
690	Y				165												
460	D	60	192	257,4	295	1188	1543,4	IE1	95,2			0,86			7,90	2,80	3,00

Motor type	6RN315L06E16
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. F
Temperature rise winding	70 K
Temperature rise surface	53 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	0,0285 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	295%	810%	251%	293%	105 A
@ D 460V 60Hz	280%	783%	231%	300%	97,2 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	IM2021-FF600
Cooling method	IC411
Motor weight - approx.	1150 kg
Gross weight - approx.	1180 kg
Motor inertia	4,7000 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

