

Model No. 4-Pole cage motor 5RN 180L 22kW D400V 50Hz IM1011

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	22	30	41,5	1465	143,4	IE1	90,8	91,3	90,7	0,84			7,51	2,44	3,17
690	Y				24												
460	D	60	25,3	33,91	41,5	1765	136,9	N/A	92,0			0,83			7,47	2,45	3,23

Motor type	5RN180L04A6
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	180L
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	22 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. F
Temperature rise winding	74 K
Temperature rise surface	33 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Degree of protection	IP55
Mounting type	IM1011
Cooling method	IC411
Motor weight - approx.	161 kg
Gross weight - approx.	166 kg
Motor inertia	0,1560 kgm ²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	0 dB(A)

Rotor type	Cage motor
Bearing type	6310-2Z/C3WT

Direction of rotation cw / ccw

Type of grease	Unirex N3
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Phase resistance at 20°C	0,4139 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%	749%	218%	317%	22 A
@ D 460V 60Hz	245%	746%	205%	323%	16,3 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.

Schematic presentation of torque-speed curve



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Driving efficiency and sustainability

