

Model No. 4-Pole cage motor 5RN 180M 18,5kW D400V 50Hz IM1081

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	18,5	24,8	35,5	1471	120,1	IE2	91,3	91,5		0,82	0,77		7,88	2,87	3,75
690	Y				20,5												
460	D	60	21,3	28,55	35	1770	114,9	IE2	91,9	92,4		0,83	0,78		7,99	2,68	3,45

Motor type	5RN180M04E23
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	180M
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	18,5 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B
Temperature rise winding	63 K
Temperature rise surface	22 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Degree of protection	IP55
Mounting type	IM1081
Cooling method	IC411
Motor weight - approx.	147 kg
Gross weight - approx.	151 kg
Motor inertia	0,1200 kgm ²
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	60 dB(A)

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

Type of grease	Unirex N3
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Phase resistance at 20°C	0,4420 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	287%	5859%	210%	375%	16,3 A
@ D 460V 60Hz	268%	797%		345%	14,9 A

NOTE

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

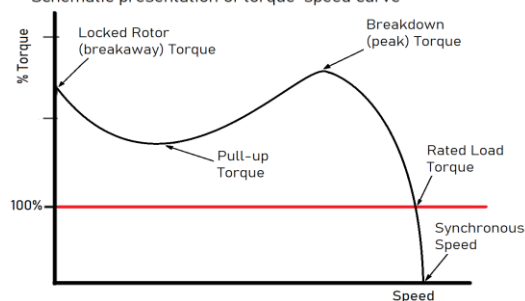
Voltage, Frequency are as per IEC60034-1

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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