

Model No. 4-Pole cage motor TCA 180M 18,5kW D400V 50Hz IM2011-FF300

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	18,5	24,8	34,9	1477	119,6	IE3	92,7	0,83	7,10	2,21	3,14
690	Y				20,1								
460	D	60	21,3	28,55	34,5	1774	114,7	IE2	92,4 92,4 92,4	0,84	7,24	2,50	3,30

Motor type	TCA180M4E3
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	-
Temperature rise winding	59 K
Temperature rise surface	36 K
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6211-2Z/C3WT

Type of grease	Chevron SRI-2
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Country of origin	CN
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Voltage/Freq	Locked rotor Torque [% nom]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 400V 50Hz	221%	710%		314%	15,7 A
@ D 460V 60Hz	250%	721%		330%	

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	IM2011-FF300
Cooling method	IC411
Motor weight - approx.	181 kg
Gross weight - approx.	186 kg
Motor inertia	0,2000 kgm²
Vibration level	according IEC60034-14

Direction of rotation	cw / ccw
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PTC 150°C

Schematic presentation of torque-speed curve



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Driving efficiency and sustainability

