Datasheet

marathon Motors

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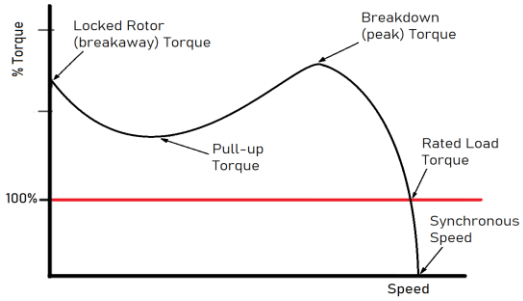
Model No. 6-Pole cage motor TCA 160M 7,5kW D400V 50Hz IM2001-FF300

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	7,5	10	15,2	976	73,4	IE3	89,2			0,80			5,88	1,80	2,40
690	Y				8,82												
460	D	60	8,6	11,53	14,9	1175	69,9	IE2	89,5	89,5	89,5	0,81			6,00	1,80	2,40

Motor type	**TCA160M6E3**	Degree of protection	**IP55**
Enclosure	**Totally Enclosed Fan Cooling**	Mounting type	**IM2001-FF300**
Frame Material	**Cast iron**	Cooling method	**IC411**
Frame size	**160M**	Motor weight - approx.	**119** kg
Duty	**S1**	Gross weight - approx.	**123** kg
Voltage	**400** V	Motor inertia	**0,1500** kgm²
Frequency	**50** Hz		
Power output	**7,5** kW	Vibration level	**according IEC60034-14**
Insulation class	**F**		
Ambient temperature	**-20 till 40** °C		
Temperature rise	**-**		
Temperature rise surface		Direction of rotation	**cw /ccw**
Altitude above sea level	**1000** mtr		
Hazardous area classification	**Safe area**		**PTC 150°C**
Rotor type	**Cage motor**		
Bearing type	**6209-2Z/C3WT**		
Type of grease	**Chevron SRI-2**		
Country of origin	**CN**		

Voltage/Freq	Locked rotor Torque [% nom]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 400V 50Hz	180%	585%		240%	6,71 A
@ D 460V 60Hz	180%	597%		240%	

Schematic presentation of torque-speed curve



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NOTE

All performance values at rated voltage and frequency. P000019611

All performance parameters are subjected to standard tolerance as per IEC 60034-1 P000019612

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

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