Datasheet

marathon™ Motors

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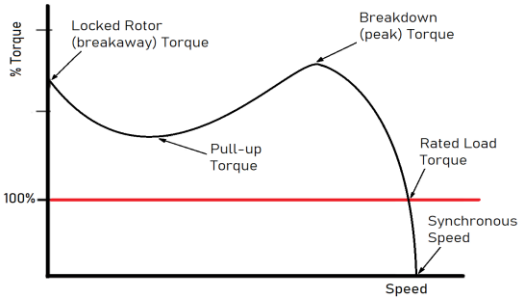
Model No. 4-Pole cage motor TCA 315L 160kW D400V 50Hz IM2001-FF600

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	160	214,5	275	1489	1026,2	IE3	95,9	96,0	95,6	0,88	0,86	0,79	8,40	2,81	3,80
690	Y				158												
460	D	60	184	246,6	274	1787	983,3	IE2	95,0	95,0	94,8	0,89			8,30	2,80	3,80
	Y																

Motor type	**TCA315LA4E3**		Degree of protection	**IP55**
Enclosure	**Totally Enclosed Fan Cooling**		Mounting type	**IM2001-FF600**
Frame Material	**Cast iron**		Cooling method	**IC411**
Frame size	**315L**		Motor weight - approx.	**1080** kg
Duty	**S1**		Gross weight - approx.	**1110** kg
Voltage	**400** V			
Frequency	**50** Hz			
Power output	**160** kW		Vibration level	**according IEC60034-14**
Insulation class	**F**			
Ambient temperature	**-20 till 40** °C			
Temperature rise	**temp.rise acc. F**			
Temperature rise winding	**65** K			
Temperature rise surface	**25** K		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	**6319/C3**			
Lubrication method	**40gr/6000hrs**			
Type of grease	**Chevron SRI-2**			
Phase resistance at 20°C	**0,0303** Ohm			
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	281%	829%		380%	83 A
@ D 460V 60Hz	280%	828%		380%	

Schematic presentation of torque-speed curve



1

NOTE

All performance values at rated voltage and frequency. P000019703

All performance parameters are subjected to standard tolerance as per IEC 60034-1 P000019704

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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