

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 1009438-BR

Catalog No: 1009438

TerraMAX® Cast Iron Motor, 400 HP, 3 Ph, 60 Hz, 380 V, 1800 RPM, 355M/L Frame, TEFC



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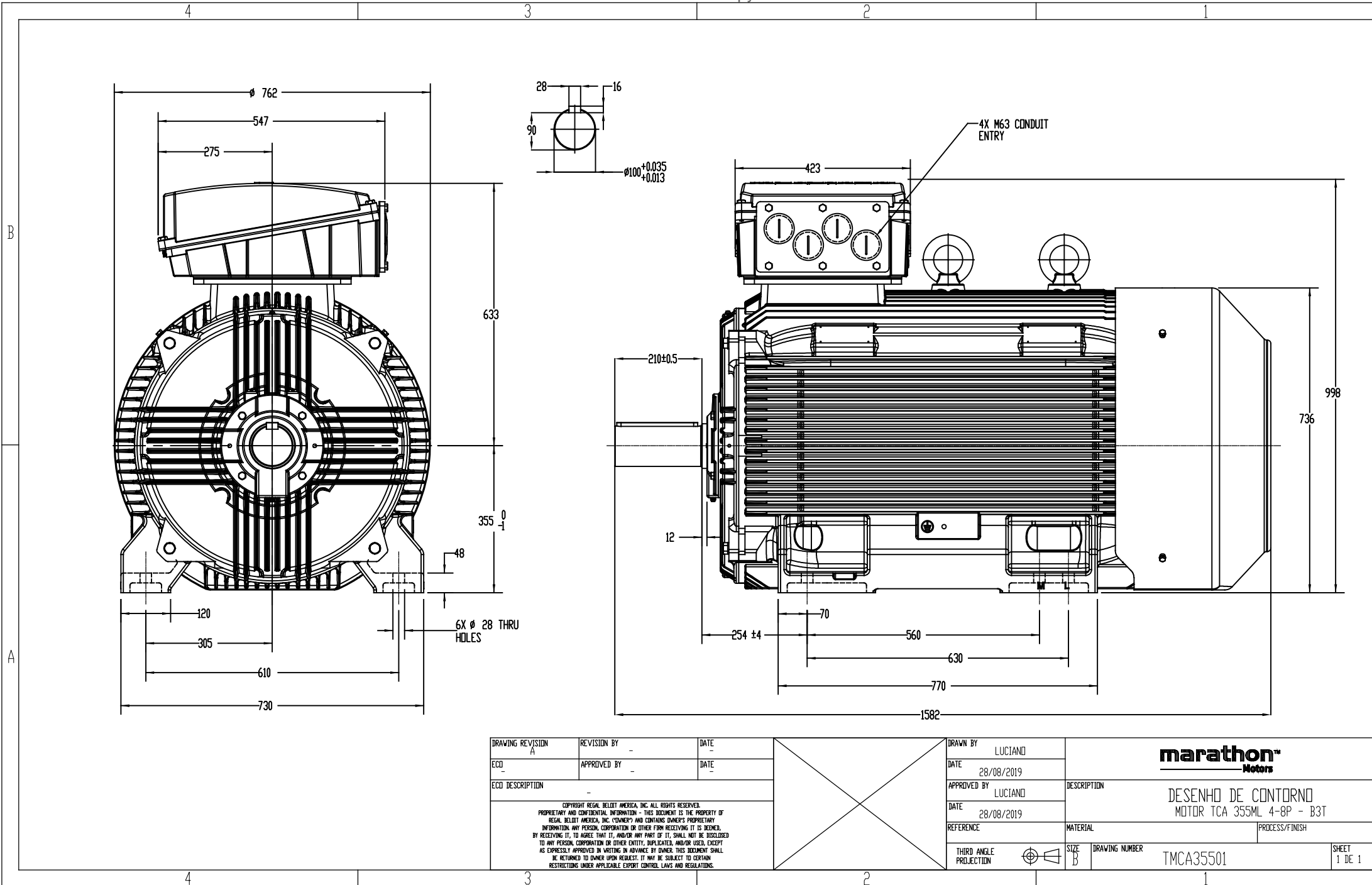
### Nameplate Specifications

Output HP	400 Hp	Output KW	300.0 kW
Frequency	60 Hz	Voltage	380 V
Current	7.3 A	Speed	1791 rpm
Service Factor	1.25	Phase	3
Efficiency	96.2 %	Power Factor	0.9
Duty	S1	Insulation Class	F
Frame	355M/L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6322	Opp Drive End Bearing Size	6322
UL	No	CSA	No
CE	No	IP Code	55
Number of Speeds	1		

### Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Clockwise
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast	Shaft Type	Keyed
Overall Length	1582 mm	Frame Length	1010 mm
Shaft Diameter	100 mm	Shaft Extension	210 mm
Assembly/Box Mounting	TOP		
Outline Drawing	TMCA35501		

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DRAWING REVISION A	REVISION BY -	DATE -	<div></div>	DRAWN BY LUCIANO	<div>marathon<sup>™</sup> Motors</div>			
ECD -	APPROVED BY -	DATE -		DATE 28/08/2019				
ECD DESCRIPTION -				APPROVED BY LUCIANO	DESCRIPTION DESENHO DE CONTORNO MOTOR TCA 355ML 4-8P - B3T			
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				REFERENCE	MATERIAL		PROCESS/FINISH	
				THIRD ANGLE PROJECTION	<div></div>	SIZE B	DRAWING NUMBER TMCA35501	SHEET 1 DE 1

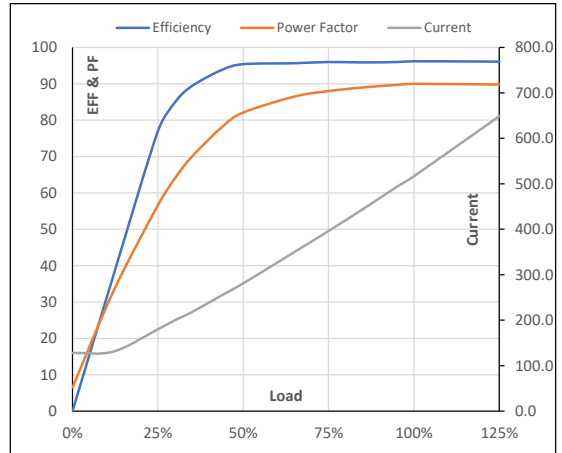
Model No. 1009438

Enclosure	U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m <sup>2</sup> ]	Weight [kg]
TEFC	380	Δ	60	300	400	516.6	1791	159.79	1567.02	IR3	40	S1	1000	43.011	1984

**Motor Load Data**

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	128.0	180.0	281.0	396.3	516.6	648.7
Torque	Nm	0.0	396.1	793.2	1191.3	1567.0	1991.1
Speed	r/min	1800	1798	1796	1793	1791	1788
Efficiency	%	0.0	77.0	95.4	96.0	96.2	96.1
Power Factor	%	6.5	56.6	82.1	88.0	90.0	89.8

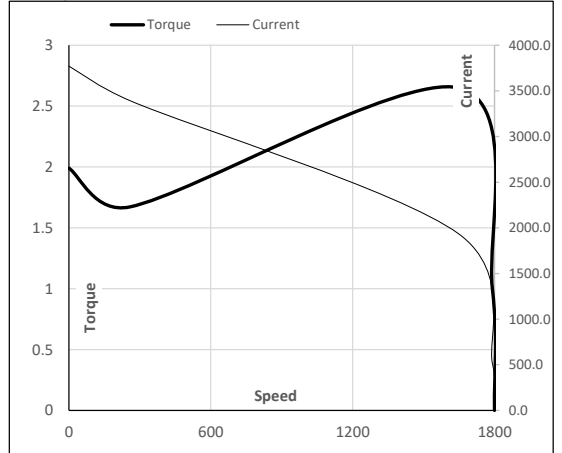
**Performance vs Load Chart**



**Motor Speed Torque Data**

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	257	1648	1791	1800
Current	A	3771.2	3394.1	1935.5	516.6	128.0
Torque	pu	2.0	1.7	2.7	1	0

**Starting Characteristics Chart**



**NOTE** Refer data sheet for applicable standard and tolerances on performance parameters

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