

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 1009484-BR

Catalog No: 1009484

TerraMAX® Cast Iron Motor, 175 HP, 3 Ph, 60 Hz, 380 V, 900 RPM, 355M/L Frame, TEFC



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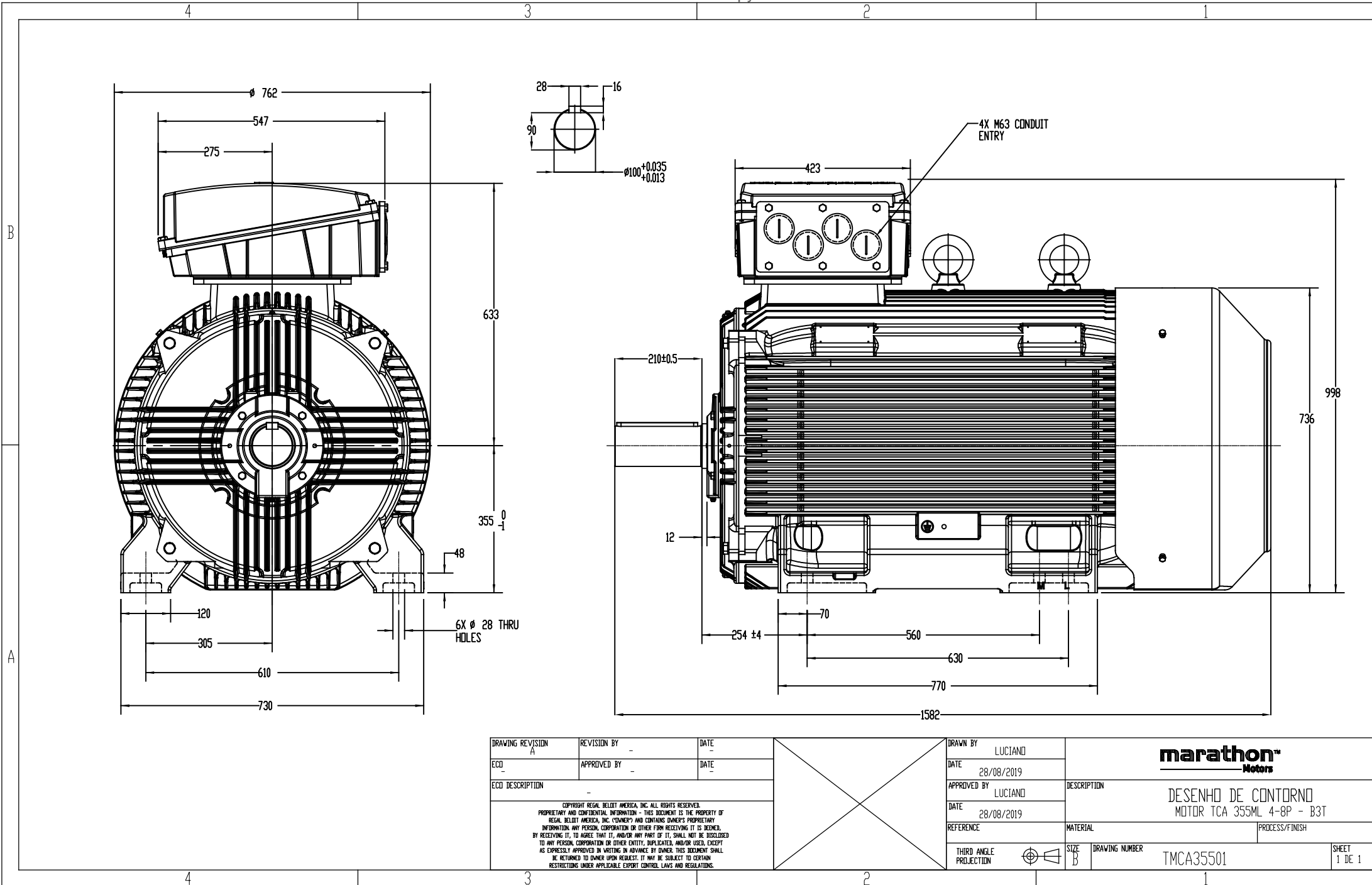
Nameplate Specifications



Output HP	175 Hp	Output KW	132.0 kW
Frequency	60 Hz	Voltage	380 V
Current	255.7 A	Speed	894 rpm
Service Factor	1.25	Phase	3
Efficiency	94.5 %	Power Factor	0.81
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	8	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 -		DRAWN BY LUCIANO	marathon[™] Motors			
ECD -	APPROVED BY -	DATE -		DATE 28/08/2019				
ECD DESCRIPTION -				APPROVED BY LUCIANO	DESCRIPTION			
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				REFERENCE	MATERIAL	PROCESS/FINISH		
			THIRD ANGLE PROJECTION		SIZE B	DRAWING NUMBER TMCA35501	SHEET 1 DE 1	
				DESENHO DE CONTORNO MOTOR TCA 355ML 4-8P - B3T				

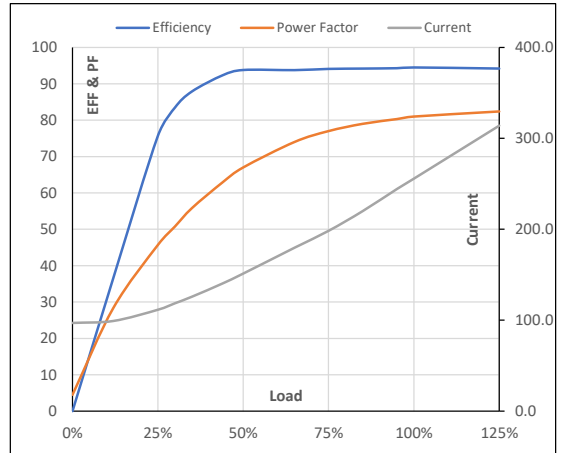
Model No. 1009484

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 ²]	Weight [kg]
TEFC	380	Δ	60	132	175	255.7	894	140.10	1373.96	IR3	40	S1	1000	35.702	1647

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	97.0	111.5	151.3	198.3	255.7	314.0
Torque	Nm	0.0	346.9	695.1	1044.5	1374.0	1747.8
Speed	r/min	900	898	897	895	894	892
Efficiency	%	0.0	75.7	93.8	94.1	94.5	94.2
Power Factor	%	4.5	45.7	67.0	77.0	81.0	82.4

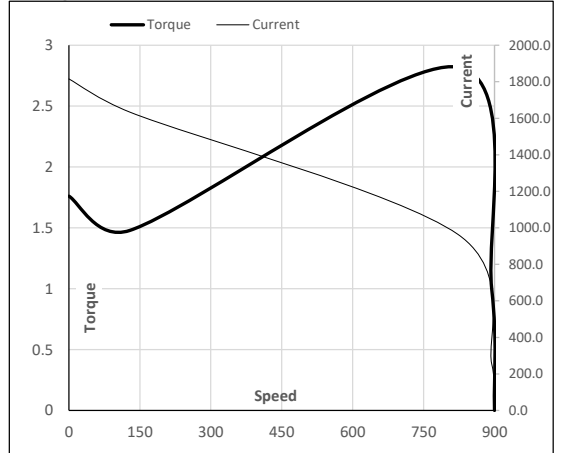
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	129	822	894	900
Current	A	1815.5	1633.9	964.4	255.7	97.0
Torque	pu	1.8	1.5	2.8	1	0

Starting Characteristics Chart



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

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