

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 1011590-BR

Catalog No: 1011590

TerraMAX® Cast Iron Motor, 20 HP, 3 Ph, 60 Hz, 380 V, 900 RPM, 180M/L Frame, TEFC



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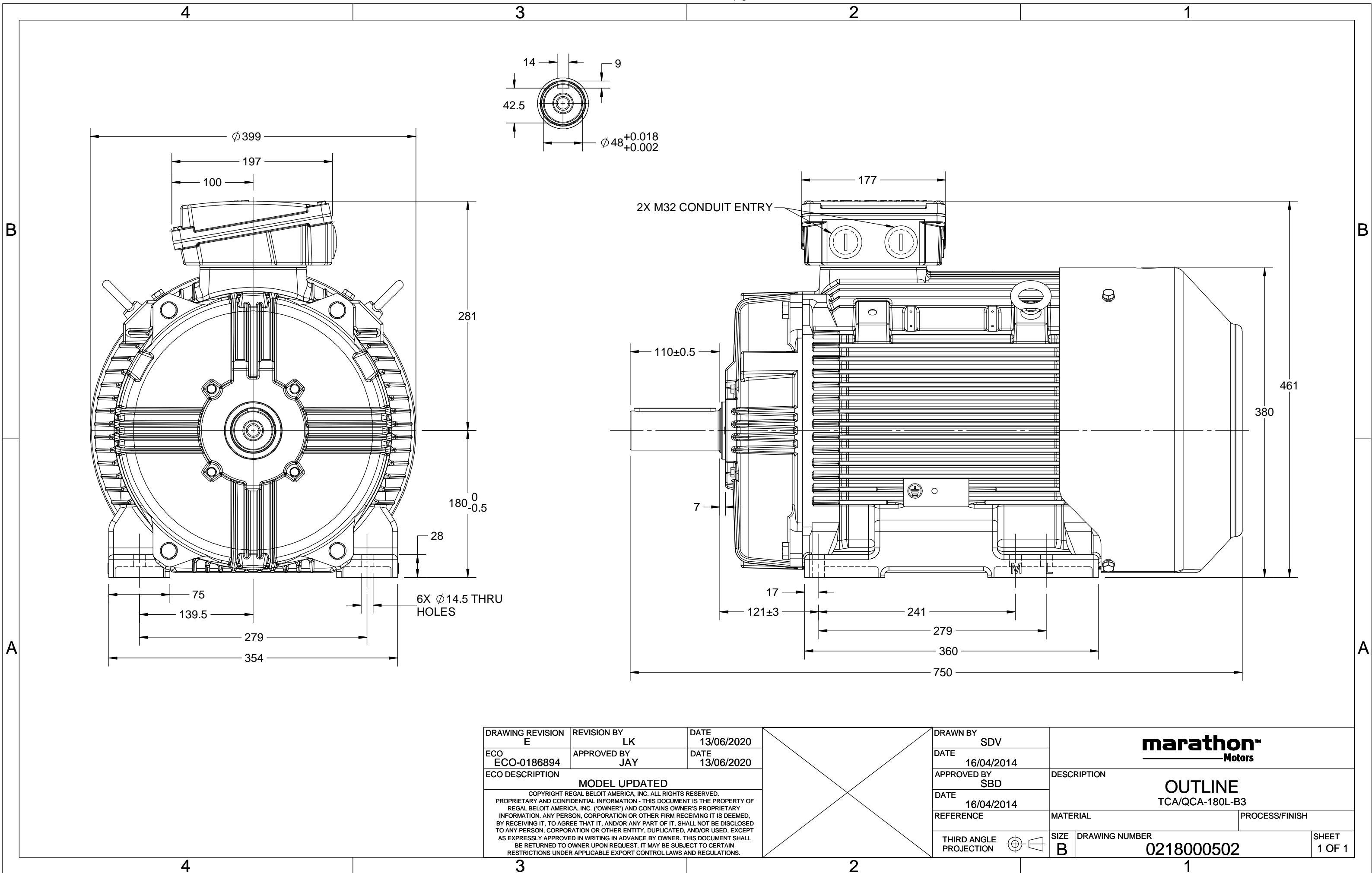
Nameplate Specifications

Output HP	20 Hp	Output KW	15.0 kW
Frequency	60 Hz	Voltage	380 V
Current	33.4 A	Speed	881 rpm
Service Factor	1.25	Phase	3
Efficiency	91.6 %	Power Factor	0.73
Duty	S1	Insulation Class	F
Frame	180M/L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6211
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	Zz C3	Opp Drive End Bearing	Zz C3
Frame Material	Cast	Shaft Type	Keyed
Overall Length	750 mm	Frame Length	366 mm
Shaft Diameter	48 mm	Shaft Extension	110 mm
Assembly/Box Mounting	TOP		
Outline Drawing	0218000502		

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DRAWING REVISION E	REVISION BY LK	DATE 13/06/2020
ECO ECO-0186894	APPROVED BY JAY	DATE 13/06/2020
ECO DESCRIPTION MODEL UPDATED		
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	DRAWN BY SDV		<div>marathon™ Motors</div>		
	DATE 16/04/2014				
	APPROVED BY SBD		DESCRIPTION OUTLINE TCA/QCA-180L-B3		
	DATE 16/04/2014				
	REFERENCE		MATERIAL		PROCESS/FINISH
	THIRD ANGLE PROJECTION		SIZE B	DRAWING NUMBER 0218000502	

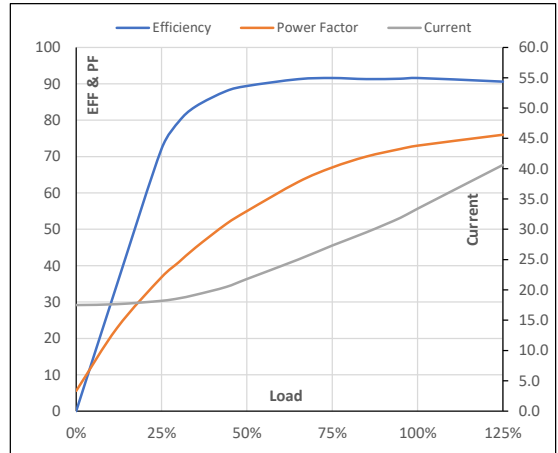
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Enclosure	U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m ²]	Weight [kg]
TEFC	380	Δ	60	15	20	33.4	881	16.29	159.74	IR3	40	S1	1000	1.52	244

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	17.5	18.2	21.8	27.3	33.4	40.6
Torque	Nm	0.0	39.8	80.1	120.7	159.7	203.8
Speed	r/min	900	895	891	886	881	875
Efficiency	%	0.0	72.1	89.4	91.6	91.6	90.6
Power Factor	%	5.6	36.8	55.0	67.0	73.0	76.0

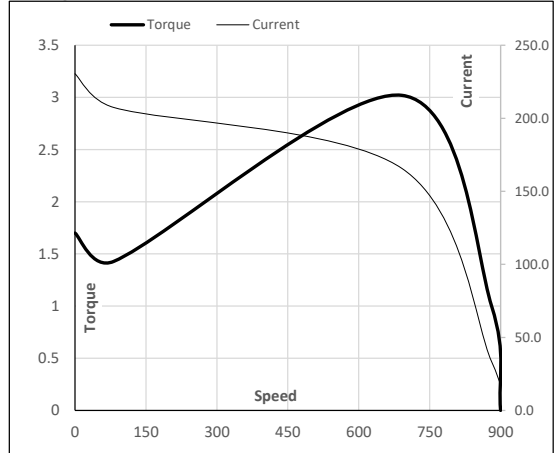
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	82	691	881	900
Current	A	230.5	207.4	165.7	33.4	17.5
Torque	pu	1.7	1.4	3.0	1	0

Starting Characteristics Chart



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

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