

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 1009063-BR

Catalog No: 1009063

TerraMAX® Cast Iron Motor, 20 HP, 3 Ph, 60 Hz, 380 V, 3600 RPM, 160M Frame, TEFC



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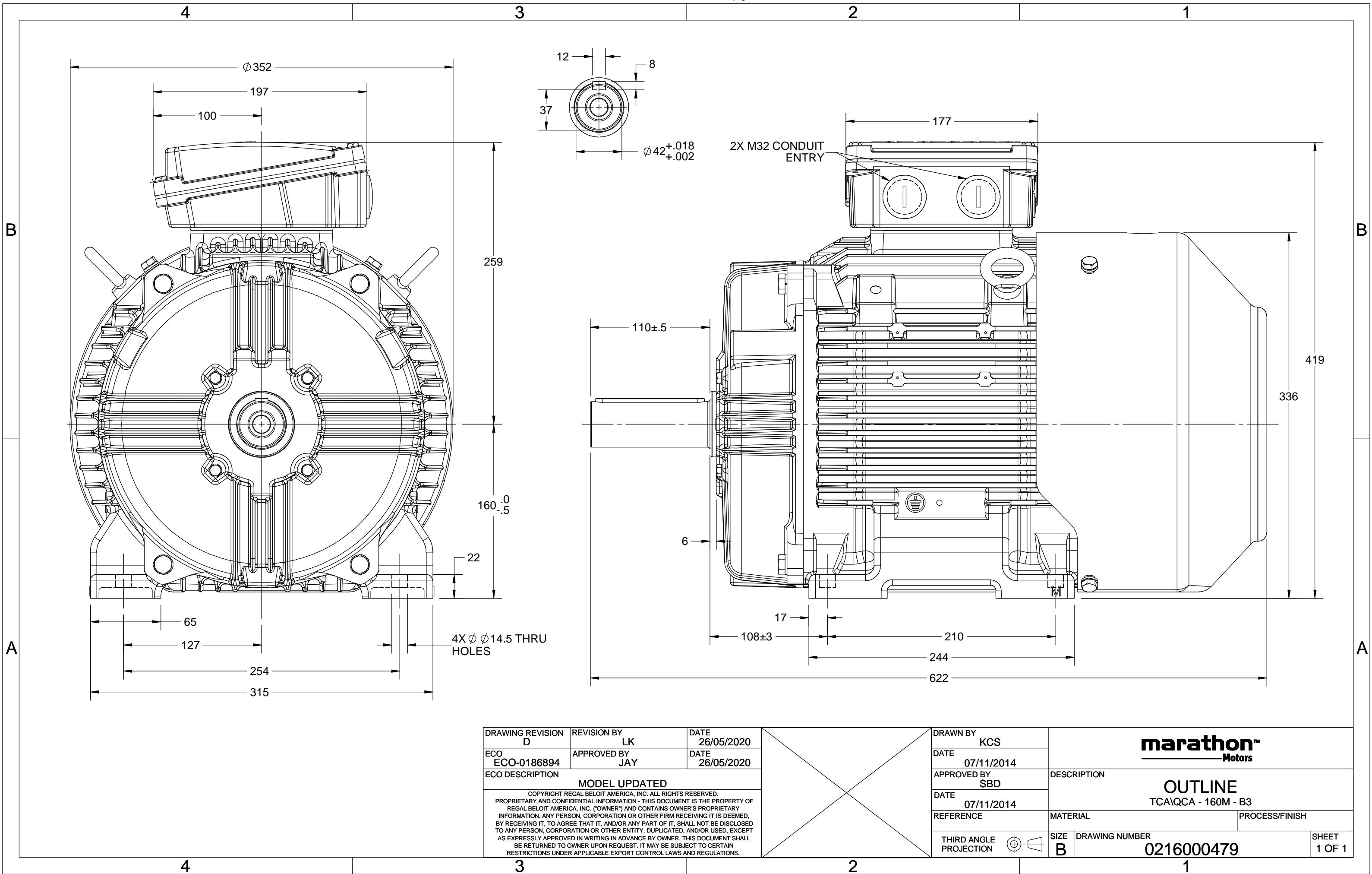
Nameplate Specifications

Output HP	20 Hp	Output KW	15.0 kW
Frequency	60 Hz	Voltage	380 V
Current	27.5 A	Speed	3548 rpm
Service Factor	1.25	Phase	3
Efficiency	91 %	Power Factor	0.89
Duty	S1	Insulation Class	F
Frame	160M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209
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	2	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	622 mm	Frame Length	254 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	TOP		
Outline Drawing	0216000479		

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DRAWING REVISION D	REVISION BY LK	DATE 26/05/2020
ECO ECO-0186894	APPROVED BY JAY	DATE 26/05/2020
ECO DESCRIPTION MODEL UPDATED		
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DRAWN BY KCS	marathon™ Motors		
DATE 07/11/2014			
APPROVED BY SBD	DESCRIPTION OUTLINE TCA/QCA - 160M - B3		
DATE 07/11/2014			
REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER 0216000479	SHEET 1 OF 1

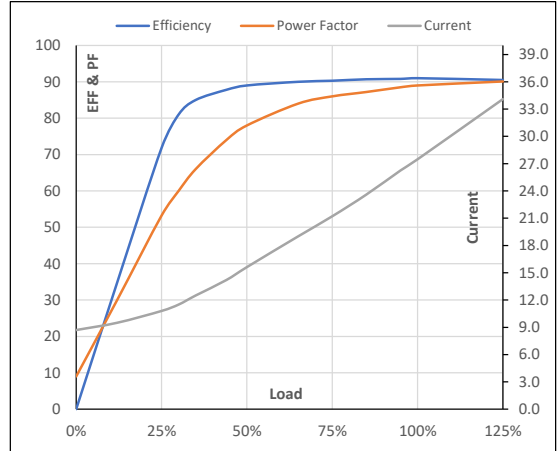
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Enclosure	U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m ²]	Weight [kg]
TEFC	380	Δ	60	15	20	27.5	3548	4.04	39.59	IR3	40	S1	1000	0.276	142

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	8.7	10.8	15.6	21.2	27.5	34.1
Torque	Nm	0.0	9.9	19.9	30.0	39.6	50.4
Speed	r/min	3600	3587	3575	3562	3548	3533
Efficiency	%	0.0	71.8	89.0	90.3	91.0	90.5
Power Factor	%	9.0	53.2	78.0	86.0	89.0	90.1

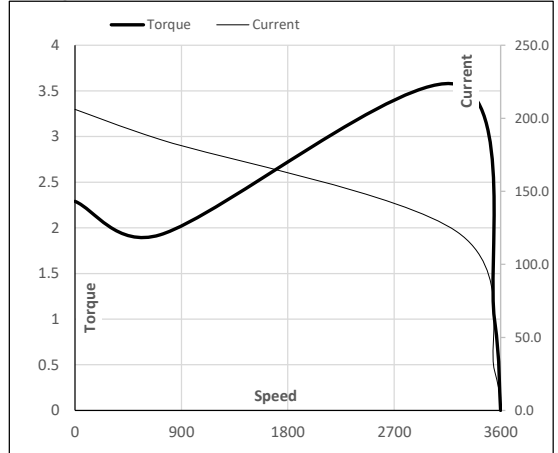
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	720	3230	3548	3600
Current	A	206.1	185.5	122.4	27.5	8.7
Torque	pu	2.3	1.9	3.6	1	0

Starting Characteristics Chart



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

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