

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 1009074-BR

Catalog No: 1009074

TerraMAX® Cast Iron Motor, 25 HP, 3 Ph, 60 Hz, 380 V, 1800 RPM, 160M/L Frame, TEFC



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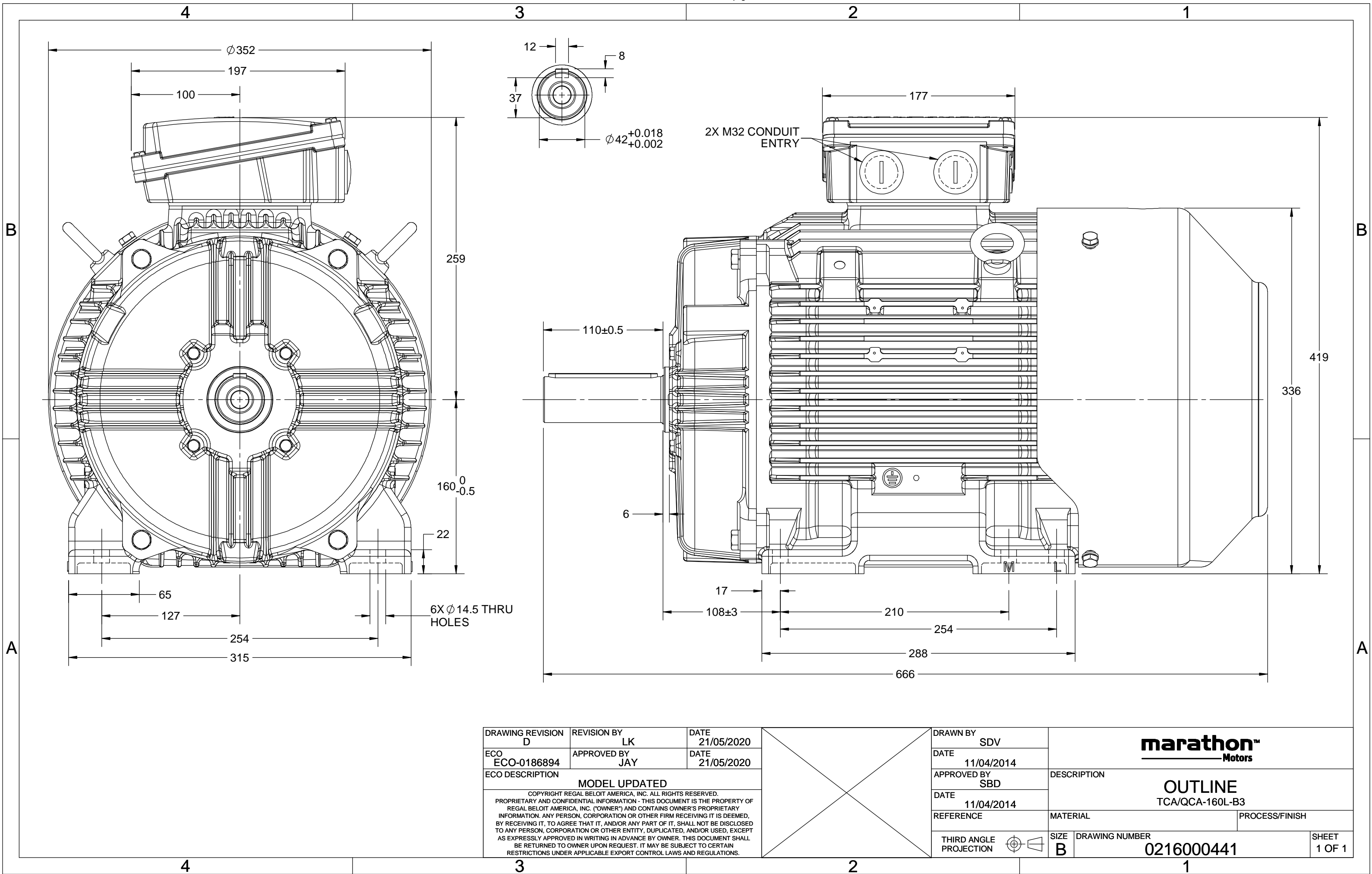
### Nameplate Specifications

Output HP	25 Hp	Output KW	18.5 kW
Frequency	60 Hz	Voltage	380 V
Current	6.8 A	Speed	1772 rpm
Service Factor	1.25	Phase	3
Efficiency	93.6 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	160M/L	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	4	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	666 mm	Frame Length	298 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	TOP		
Outline Drawing	0216000441		

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DRAWING REVISION D	REVISION BY LK	DATE 21/05/2020
ECO ECO-0186894	APPROVED BY JAY	DATE 21/05/2020
ECO DESCRIPTION MODEL UPDATED		
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DRAWN BY SDV	<b>marathon™</b> Motors		
DATE 11/04/2014			
APPROVED BY SBD	DESCRIPTION OUTLINE TCA/QCA-160L-B3		
DATE 11/04/2014			
REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER 0216000441	SHEET 1 OF 1

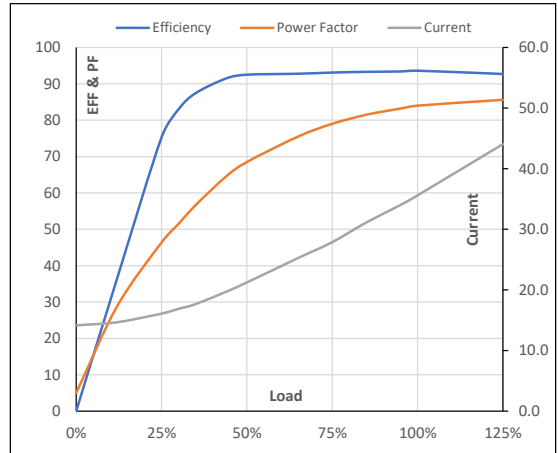
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Enclosure	U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m <sup>2</sup> ]	Weight [kg]
TEFC	380	Δ	60	18.5	25	35.6	1772	10.09	98.98	IR3	40	S1	1000	0.534	165

**Motor Load Data**

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	14.2	16.1	21.2	27.9	35.6	44.1
Torque	Nm	0.0	24.8	49.8	75.0	99.0	126.2
Speed	r/min	1800	1793	1787	1779	1772	1763
Efficiency	%	0.0	75.3	92.5	93.1	93.6	92.7
Power Factor	%	5.0	46.4	68.5	79.0	84.0	85.6

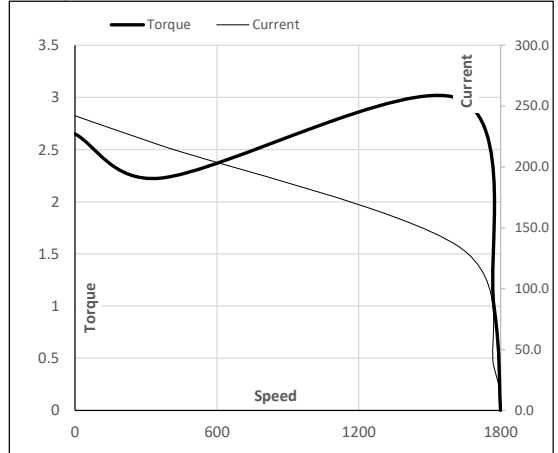
**Performance vs Load Chart**



**Motor Speed Torque Data**

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	360	1621	1772	1800
Current	A	242.1	217.9	134.8	35.6	14.2
Torque	pu	2.7	2.2	3.0	1	0

**Starting Characteristics Chart**



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

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