

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 1009393-BR

Catalog No: 1009393

TerraMAX® Cast Iron Motor, 1.50 HP, 3 Ph, 60 Hz, 380 V, 3600 RPM, 80M1 Frame, TEFC



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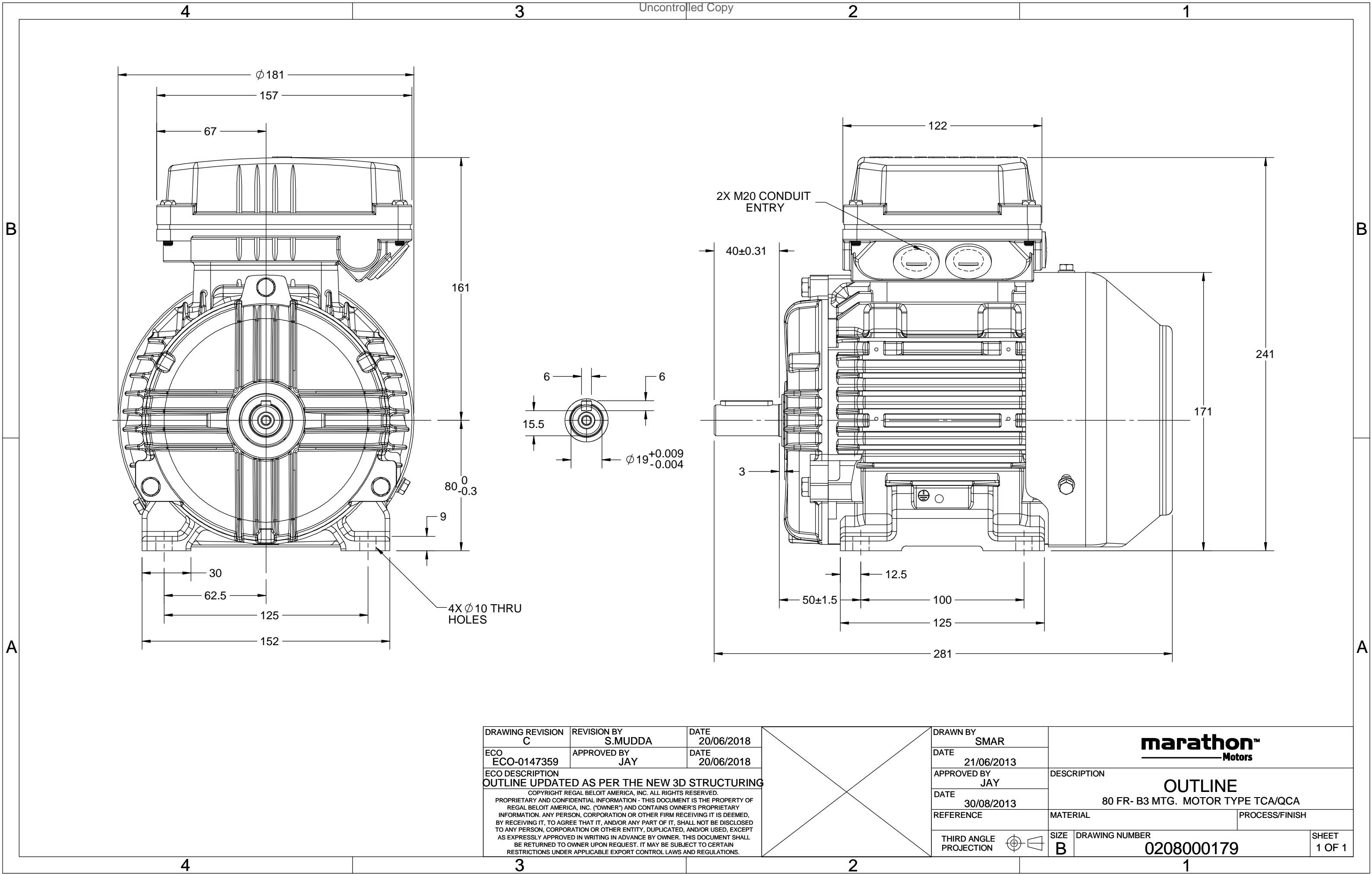
Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	60 Hz	Voltage	380 V
Current	2.3 A	Speed	3466 rpm
Service Factor	1.25	Phase	3
Efficiency	84.3 %	Power Factor	0.86
Duty	S1	Insulation Class	F
Frame	80M1	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6204	Opp Drive End Bearing Size	6204
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	281 mm	Frame Length	140 mm
Shaft Diameter	19 mm	Shaft Extension	40 mm
Assembly/Box Mounting	TOP		
Outline Drawing	0208000179		

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DRAWING REVISION C	REVISION BY S.MUDDA	DATE 20/06/2018
ECO ECO-0147359	APPROVED BY JAY	DATE 20/06/2018
ECO DESCRIPTION OUTLINE UPDATED AS PER THE NEW 3D STRUCTURING		
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DRAWN BY SMAR	marathon™ Motors		
DATE 21/06/2013			
APPROVED BY JAY	DESCRIPTION OUTLINE 80 FR- B3 MTG. MOTOR TYPE TCA/QCA		
DATE 30/08/2013			
REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER 0208000179	SHEET 1 OF 1

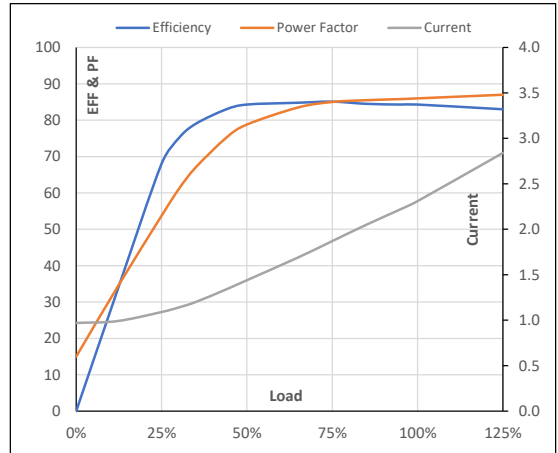
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Enclosure	U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m ²]	Weight [kg]
TEFC	380	Δ	60	1.1	2	2.3	3466	0.31	3.04	IR3	40	S1	1000	0.0064	20

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	1.0	1.1	1.4	1.9	2.3	2.8
Torque	Nm	0.0	0.7	1.5	2.3	3.0	62.4
Speed	r/min	3600	3565	3535	3502	3466	3424
Efficiency	%	0.0	68.0	84.3	85.1	84.3	83.0
Power Factor	%	15.0	53.7	78.8	85.0	86.0	87.0

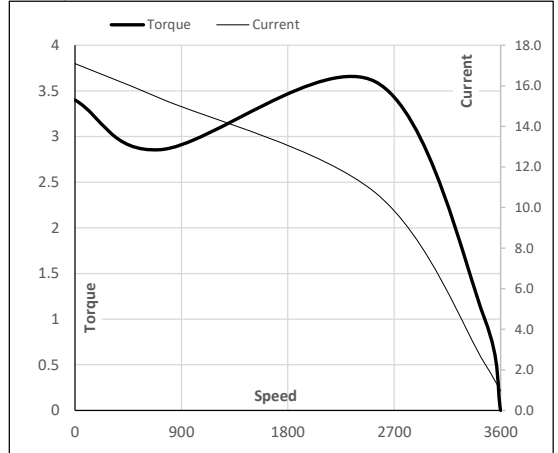
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	720	2541	3466	3600
Current	A	17.1	15.4	10.7	2.3	1.0
Torque	pu	3.4	2.9	3.6	1	0

Starting Characteristics Chart



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

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