

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 1011591-BR

Catalog No: 1011591

TerraMAX® Cast Iron Motor, 40 HP, 3 Ph, 60 Hz, 380 V, 3600 RPM, 200M/L Frame, TEFC



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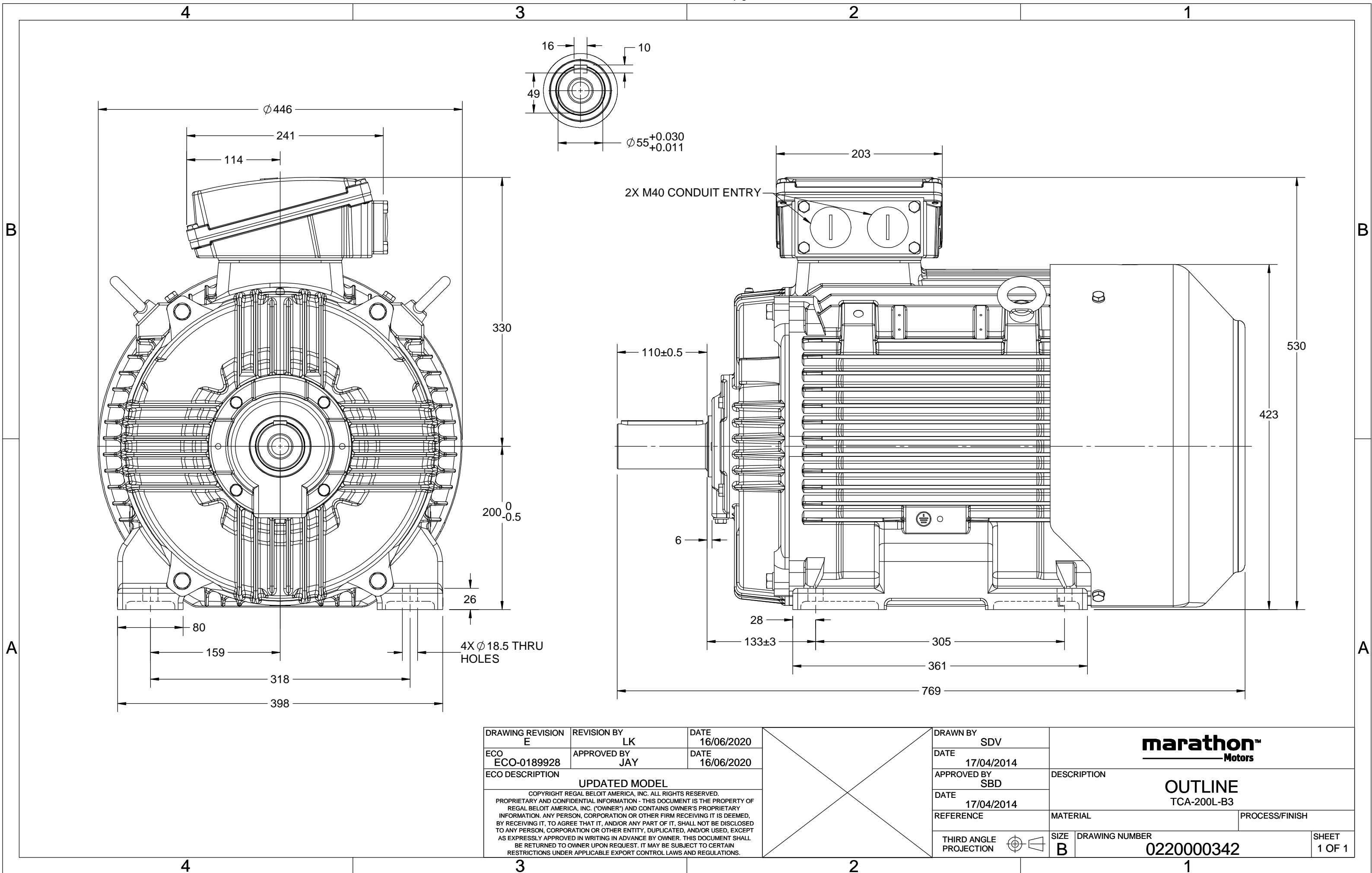
Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	60 Hz	Voltage	380 V
Current	55.3 A	Speed	3571 rpm
Service Factor	1.25	Phase	3
Efficiency	92.4 %	Power Factor	0.88
Duty	S1	Insulation Class	F
Frame	200M/L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6212
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	C3	Opp Drive End Bearing	C3
Frame Material	Cast	Shaft Type	Keyed
Overall Length	769 mm	Frame Length	370 mm
Shaft Diameter	55 mm	Shaft Extension	110 mm
Assembly/Box Mounting	TOP		
Outline Drawing	0220000342		

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DRAWING REVISION E	REVISION BY LK	DATE 16/06/2020
ECO ECO-0189928	APPROVED BY JAY	DATE 16/06/2020
ECO DESCRIPTION UPDATED MODEL		
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DRAWN BY SDV	marathon™ Motors		
DATE 17/04/2014			
APPROVED BY SBD	DESCRIPTION OUTLINE TCA-200L-B3		
DATE 17/04/2014			
REFERENCE	MATERIAL	PROCESS/FINISH	
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER 0220000342	SHEET 1 OF 1

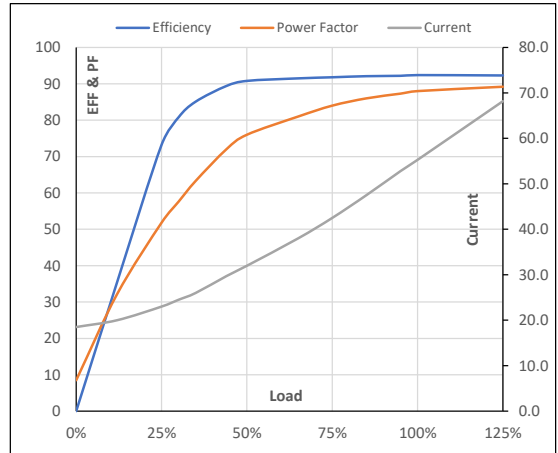
Model No. 1011591

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	30	40	55.3	3571	8.01	78.60	IR3	40	S1	1000	1.072	284

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	18.5	23.0	32.0	42.5	55.3	68.2
Torque	Nm	0.0	19.8	39.7	59.7	78.6	99.9
Speed	r/min	3600	3592	3586	3578	3571	3563
Efficiency	%	0.0	73.2	90.8	91.8	92.4	92.3
Power Factor	%	8.5	51.8	76.0	84.0	88.0	89.2

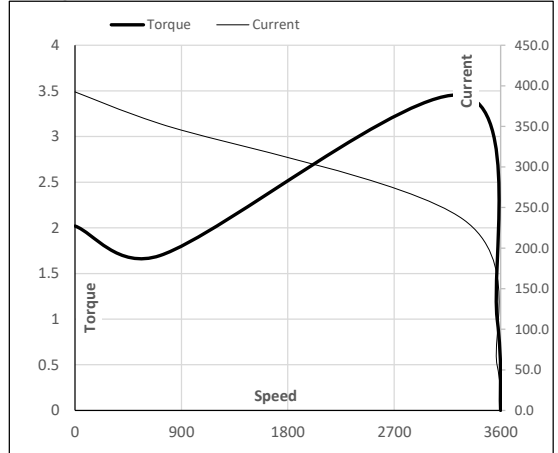
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	720	3285	3571	3600
Current	A	392.5	353.2	235.2	55.3	18.5
Torque	pu	2.0	1.7	3.5	1	0

Starting Characteristics Chart



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

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