PRODUCT INFORMATION PACKET

Model No: 1011531-BR
Catalog No: 1011531
TerraMAX® Cast Iron Motor, 175 HP, 3 Ph, 60 Hz, 380 V, 3600 RPM, 315S/M Frame, TEFC

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marathon® Motors

Nameplate Specifications

Output HP	175 Hp	Output KW	132.0 kW
Frequency	60 Hz	Voltage	380 V
Current	233.4 A	Speed	3584 rpm
Service Factor	1.25	Phase	3
Efficiency	95.4 %	Power Factor	0.88
Duty	S1	Insulation Class	F
Frame	315S/M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6316	Opp Drive End Bearing Size	6316
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	1176 mm	Frame Length	729 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	TOP		
Outline Drawing	0231500878		

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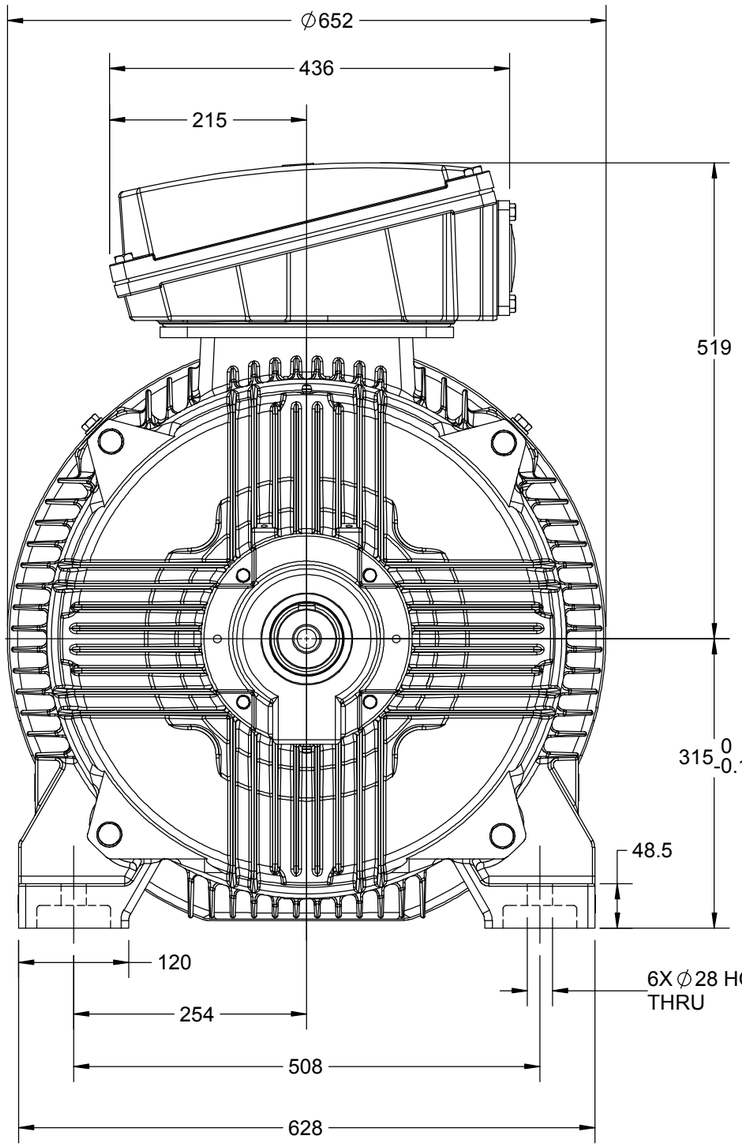
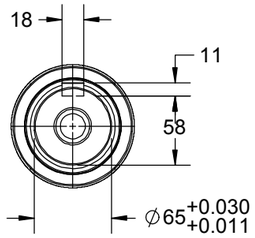
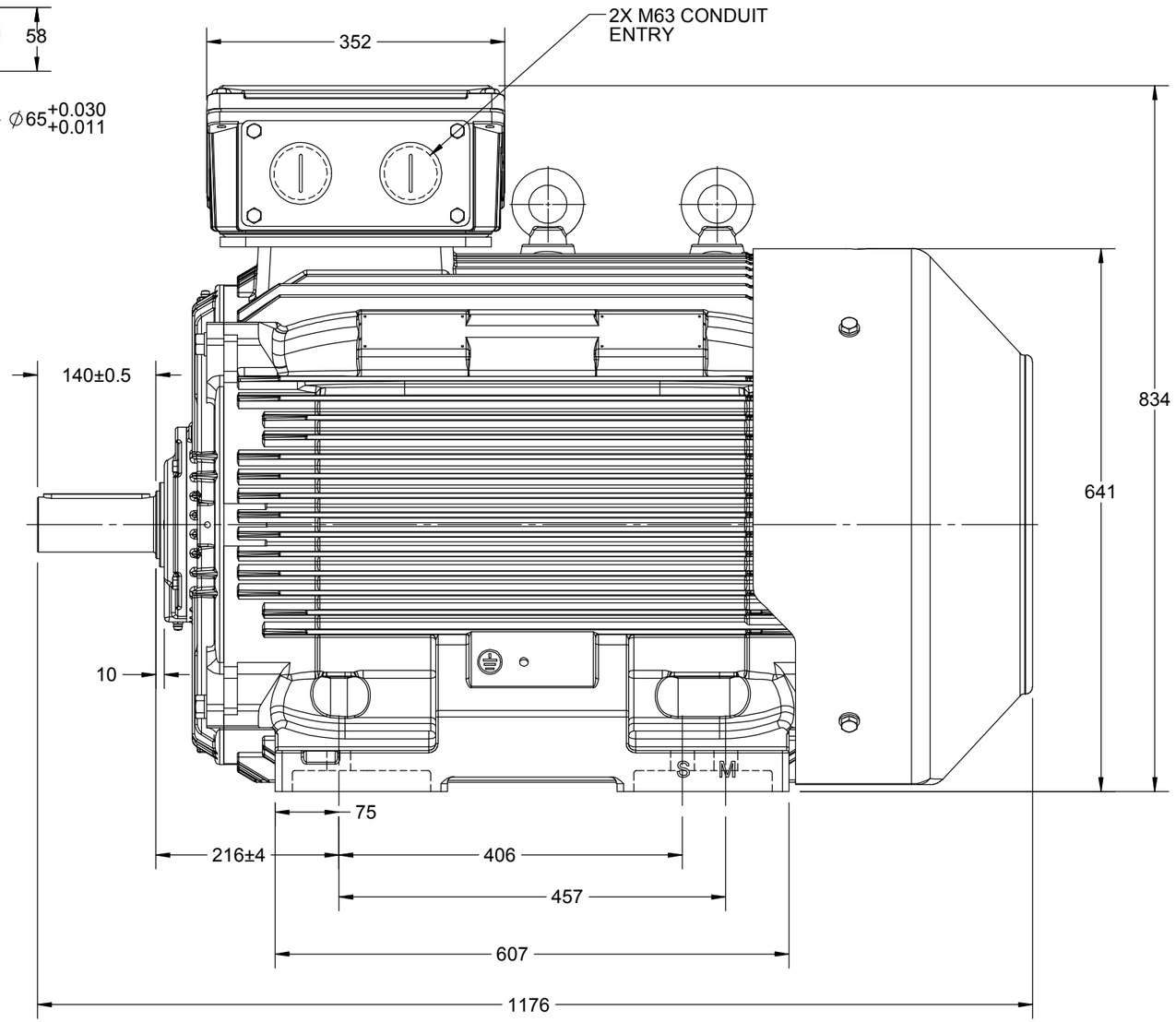
OUTLINE







DRAWING REVISION C	REVISION BY NIV	DATE 10/05/2019	DRAWN BY JOY	marathon™ Motors
ECO ECO-0165600	APPROVED BY SR	DATE 10/05/2019	DATE 18/07/2014	
ECO DESCRIPTION MODEL UPDATED			APPROVED BY SBD	DESCRIPTION OUTLINE 315M-2P-B3 MTG. MOTOR TYPE: TCA/QCA
			DATE 18/07/2014	
			REFERENCE	MATERIAL / PROCESS/FINISH
			THIRD ANGLE PROJECTION	SIZE B / DRAWING NUMBER 0231500878 / SHEET 1 OF 1

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marathon® Motors

TerraMAX®

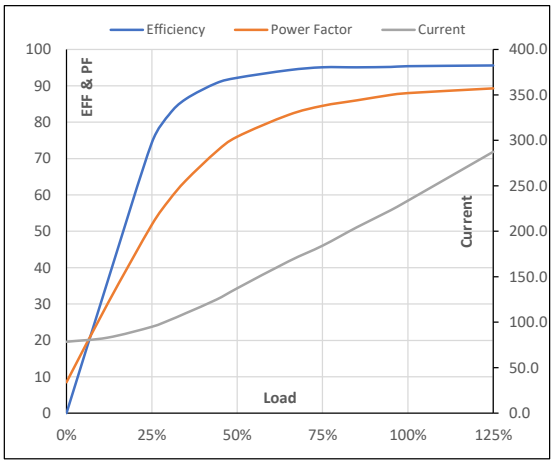
Model No. 1011531

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	132	175	233.7	3584	34.98	343.00	IR3	40	S1	1000	9.432	1029

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	78.5	95.0	137.3	184.2	233.7	287.4
Torque	Nm	0.0	86.6	173.5	260.5	343.0	435.1
Speed	r/min	3600	3596	3592	3588	3584	3580
Efficiency	%	0.0	74.4	92.2	95.1	95.4	95.6
Power Factor	%	8.5	51.8	76.0	84.5	88.0	89.3

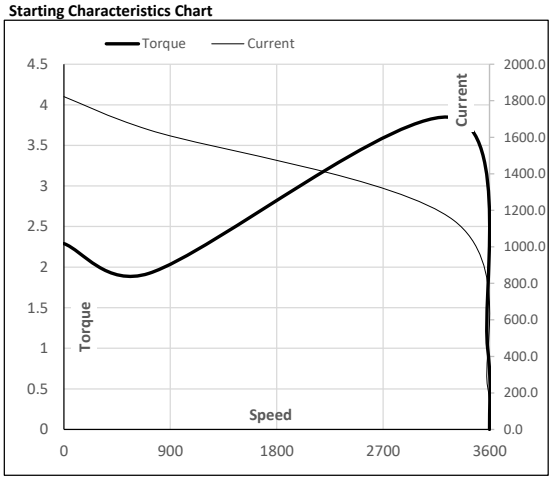
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	720	3297	3584	3600
Current	A	1822.5	1640.3	1144.9	233.7	78.5
Torque	pu	2.3	1.9	3.8	1	0

Starting Characteristics Chart



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

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