

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 1009412-BR

Catalog No: 1009412

TerraMAX® Cast Iron Motor, 500 HP, 3 Ph, 60 Hz, 380 V, 3600 RPM, 355M/L2 Frame, TEFC



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RegalRexnord

Nameplate Specifications

Output HP	500 Hp	Output KW	370.0 kW
Frequency	60 Hz	Voltage	380 V
Current	644.6 A	Speed	3585 rpm
Service Factor	1.15	Phase	3
Efficiency	95.8 %	Power Factor	0.91
Duty	S1	Insulation Class	F
Frame	355M/L2	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6317	Opp Drive End Bearing Size	6317
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	1542 mm	Frame Length	1010 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	TOP		
Outline Drawing	0235502304		

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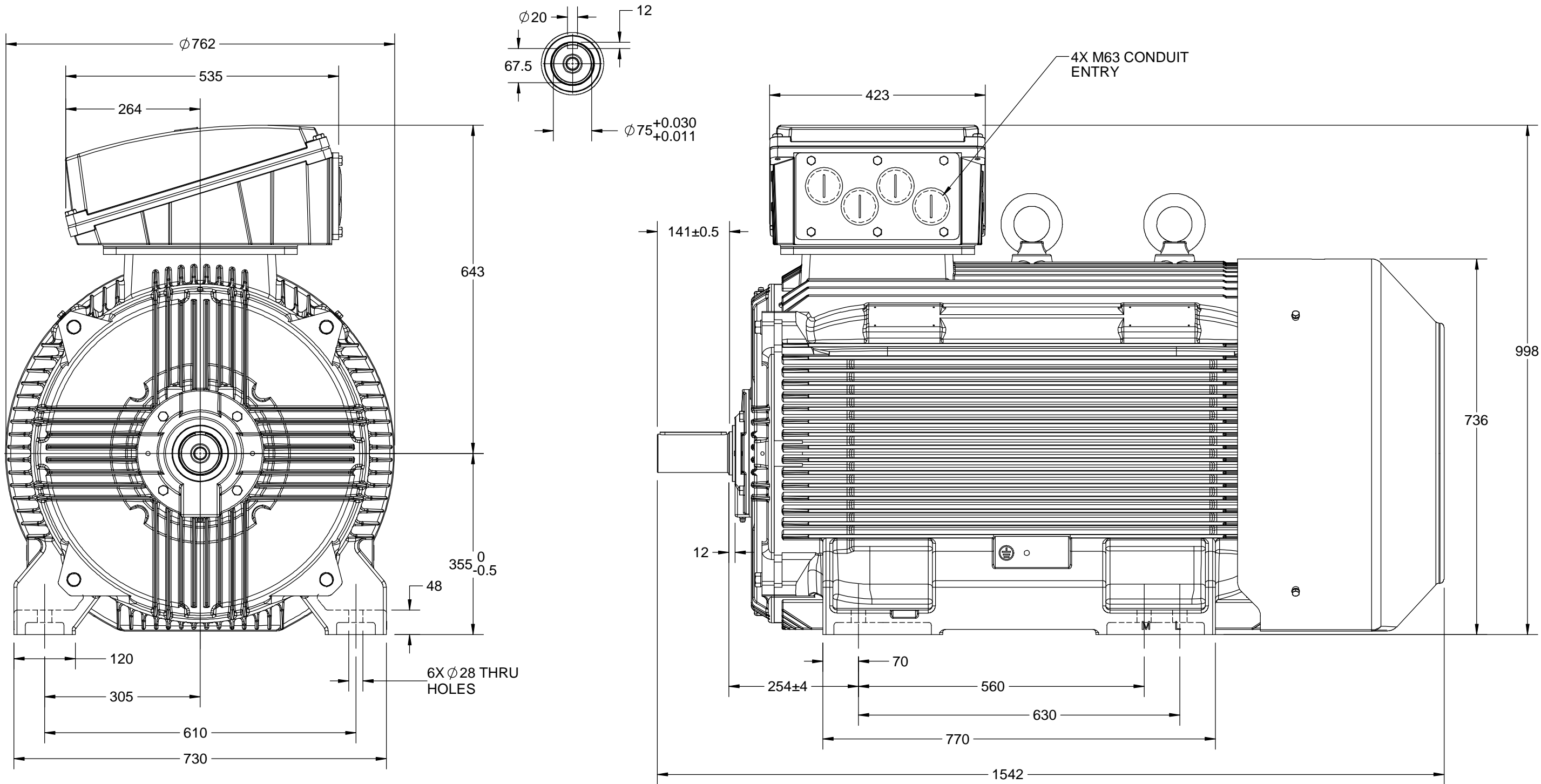
OUTLINE

B

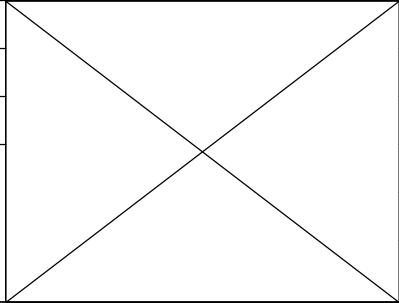
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DRAWING REVISION A	REVISION BY NIV	DATE 28/08/2017
ECO ECO-0130161	APPROVED BY JAY	DATE 28/08/2017
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DRAWN BY NIV	marathon™ Motors	
DATE 28/08/2017		
APPROVED BY JAY	DESCRIPTION OUTLINE	
DATE 28/08/2017	355FR-2P-B3-H/O MTG. MOTOR TYPE: TCA/QCA	
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER 0235502304
		SHEET 1 OF 1

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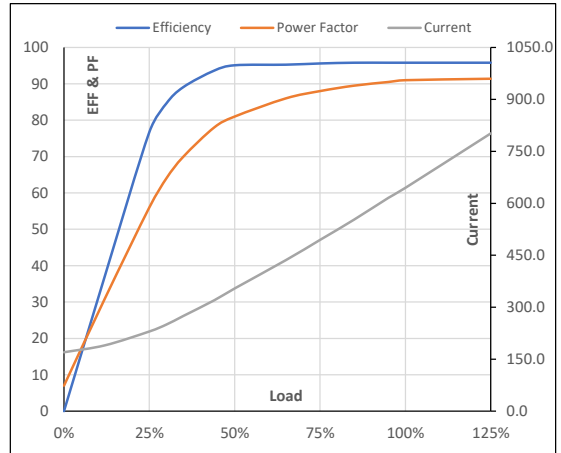
Model No. 1009412

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	370	500	644.6	3585	99.83	979.02	IR3	40	S1	1000	25.096	2199

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	170.0	230.0	354.2	494.3	644.6	801.8
Torque	Nm	0.0	247.5	495.5	744.0	979.0	1242.8
Speed	r/min	3600	3596	3593	3589	3585	3581
Efficiency	%	0.0	76.7	95.1	95.6	95.8	95.8
Power Factor	%	7.0	56.0	81.0	88.0	91.0	91.4

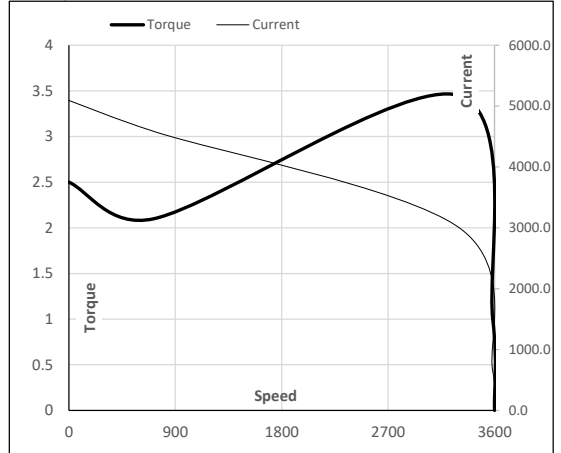
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	720	3298	3585	3600
Current	A	5092.4	4583.2	3005.9	644.6	170.0
Torque	pu	2.5	2.1	3.5	1	0

Starting Characteristics Chart



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

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