PRODUCT INFORMATION PACKET

Model No: 1011537-BR
Catalog No: 1011537
TerraMAX® Cast Iron Motor, 450 HP, 3 Ph, 60 Hz, 380 V, 1800 RPM, 355M/L Frame, TEFC

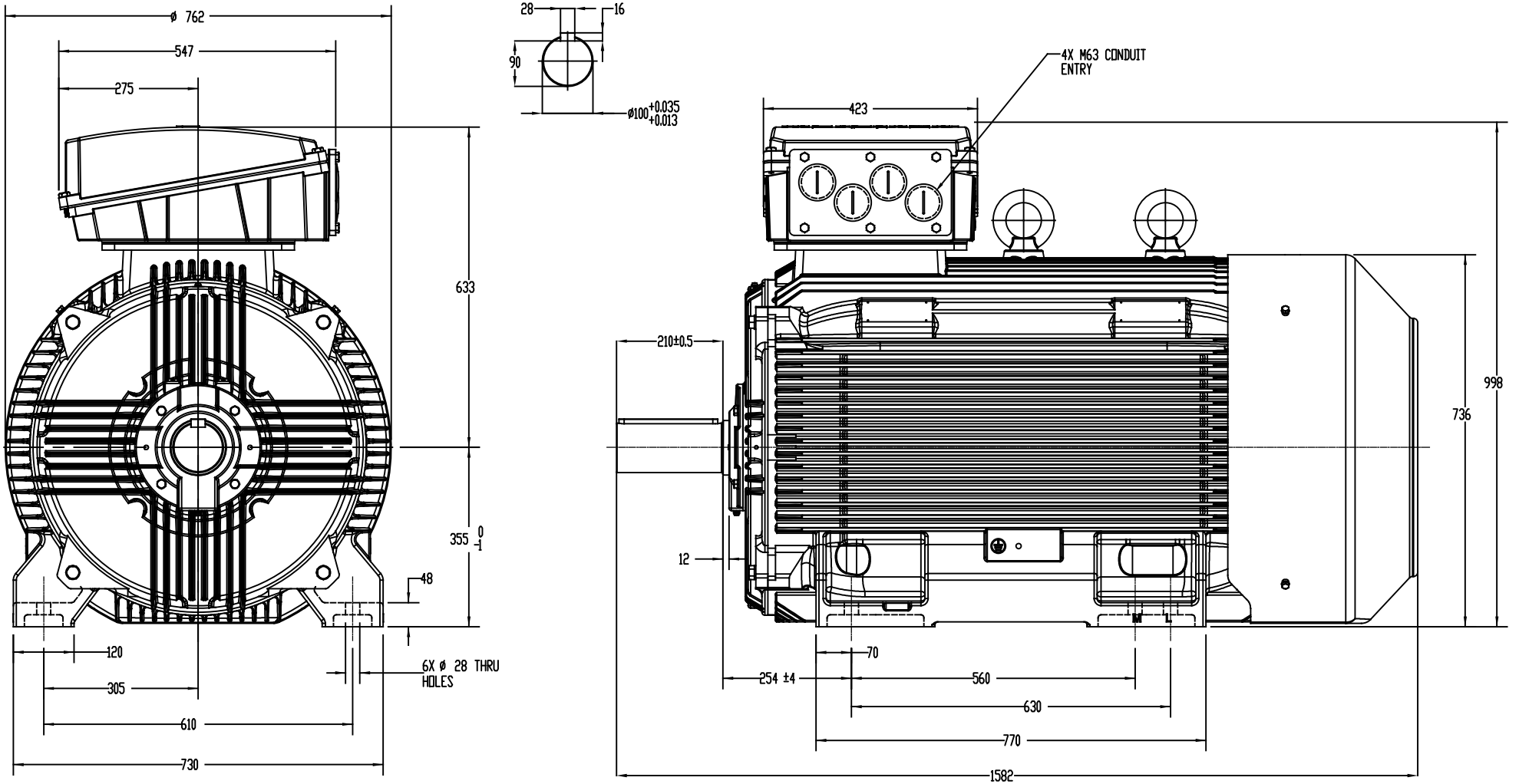
marathon® Motors

Nameplate Specifications

Output HP	450 Hp	Output KW	330.0 kW
Frequency	60 Hz	Voltage	380 V
Current	7.4 A	Speed	1791 rpm
Service Factor	1.15	Phase	3
Efficiency	96.2 %	Power Factor	0.89
Duty	S1	Insulation Class	F
Frame	355M/L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6322	Opp Drive End Bearing Size	6322
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	C3	Opp Drive End Bearing	C3
Frame Material	Cast	Shaft Type	Keyed
Overall Length	1582 mm	Frame Length	1010 mm
Shaft Diameter	100 mm	Shaft Extension	210 mm
Assembly/Box Mounting	TOP		
Outline Drawing	TMCA35501		



DRAWING REVISION A	REVISION BY -	DATE -
ECO -	APPROVED BY -	DATE -
ECO DESCRIPTION -		

DRAWN BY LUCIANO	marathon™ Motors	
DATE 28/08/2019	DESCRIPTION DESENHO DE CONTORNO MOTOR TCA 355ML 4-8P - B3T	
APPROVED BY LUCIANO		
DATE 28/08/2019		
REFERENCE	MATERIAL	PROCESS/FINISH
THIRD ANGLE PROJECTION	SIZE B / DRAWING NUMBER TMCA35501	SHEET 1 DE 1

marathon® Motors

TerraMAX®

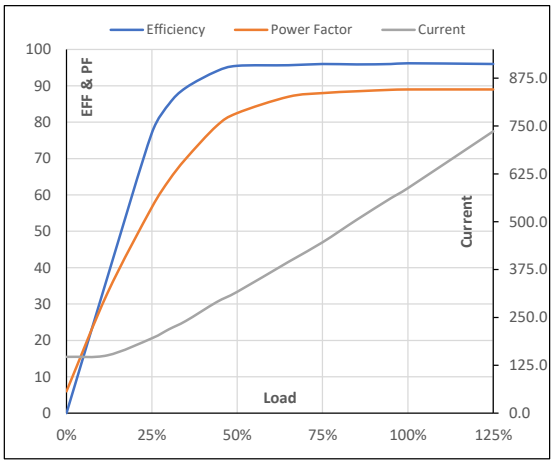
Model No. 1011537

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	330	450	587.7	1791	179.78	1763.02	IR3	40	S1	1000	44.55	2010

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	147.0	195.5	316.9	446.3	587.7	736.2
Torque	Nm	0.0	445.6	892.3	1340.2	1763.0	2239.9
Speed	r/min	1800	1798	1796	1793	1791	1788
Efficiency	%	0.0	77.0	95.5	96.0	96.2	96.0
Power Factor	%	6.0	56.6	82.5	88.0	89.0	89.0

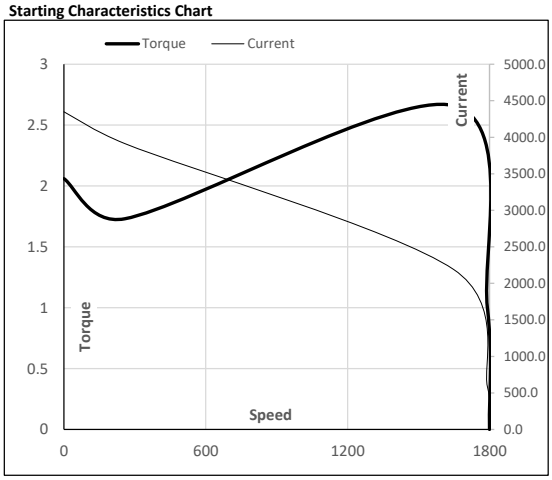
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	257	1648	1791	1800
Current	A	4349.0	3914.1	2191.2	587.7	147.0
Torque	pu	2.1	1.7	2.7	1	0

Starting Characteristics Chart



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

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