

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 1011632-BR

Catalog No: 1011632

TerraMAX® Cast Iron Motor, 125 HP, 3 Ph, 60 Hz, 380 V, 1800 RPM, 280S/M Frame, TEFC



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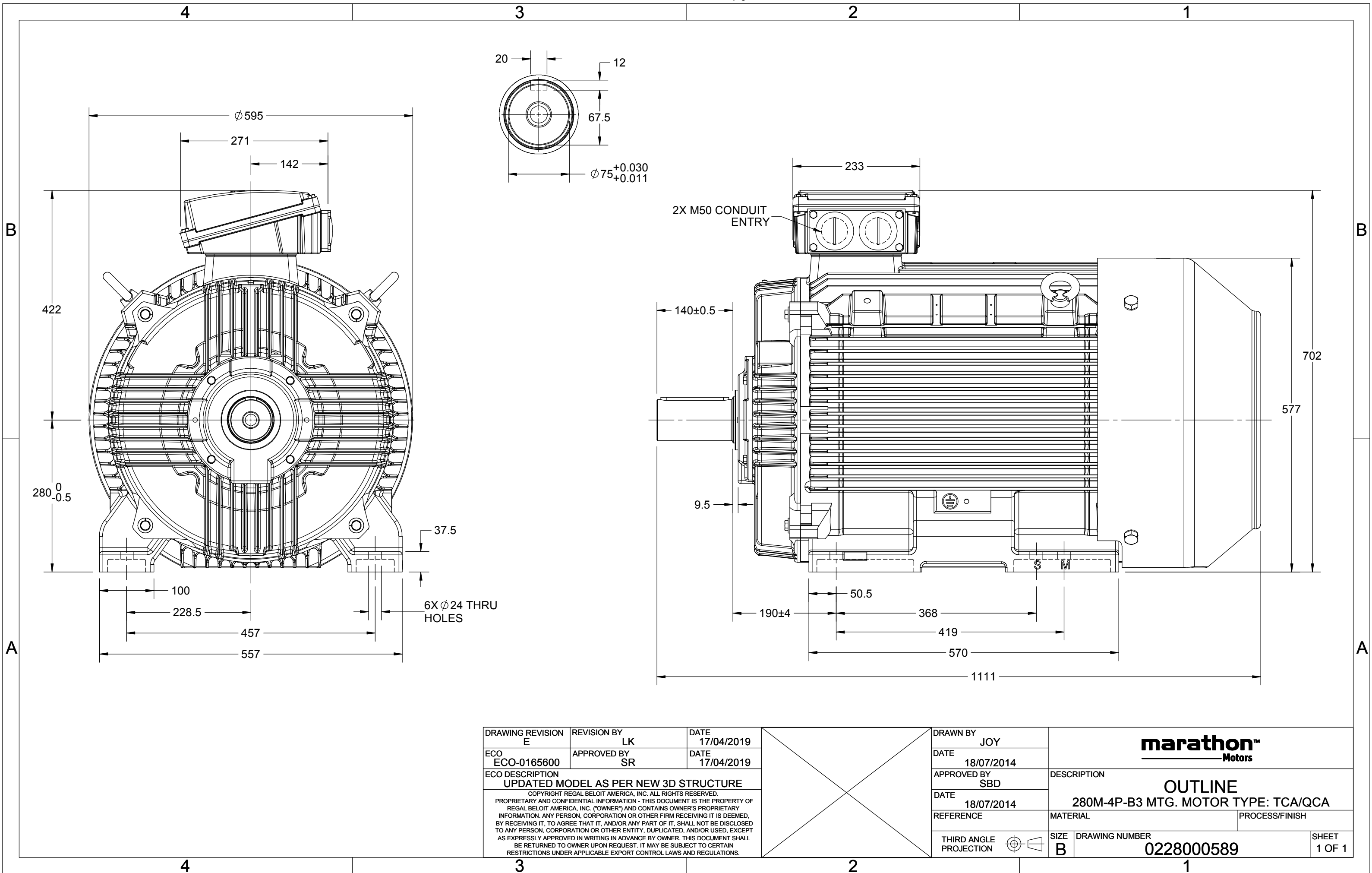
Nameplate Specifications

Output HP	125 Hp	Output KW	90.0 kW
Frequency	60 Hz	Voltage	380 V
Current	6.4 A	Speed	1790 rpm
Service Factor	1.25	Phase	3
Efficiency	95.4 %	Power Factor	0.85
Duty	S1	Insulation Class	F
Frame	280S/M	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	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	1111 mm	Frame Length	600 mm
Shaft Diameter	75 mm	Shaft Extension	140 mm
Assembly/Box Mounting	TOP		
Outline Drawing	0228000589		

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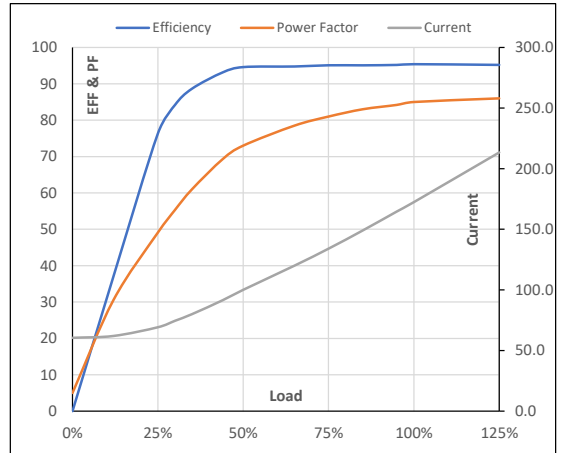
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Enclosure	U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m ²]	Weight [kg]
TEFC	380	Δ	60	90	125	172.4	1790	49.97	490.00	IR3	40	S1	1000	9.092	743

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	60.5	69.2	100.1	134.0	172.4	213.4
Torque	Nm	0.0	123.8	247.9	372.4	490.0	622.6
Speed	r/min	1800	1798	1795	1793	1790	1787
Efficiency	%	0.0	76.3	94.6	95.1	95.4	95.2
Power Factor	%	5.0	49.1	73.0	81.0	85.0	86.0

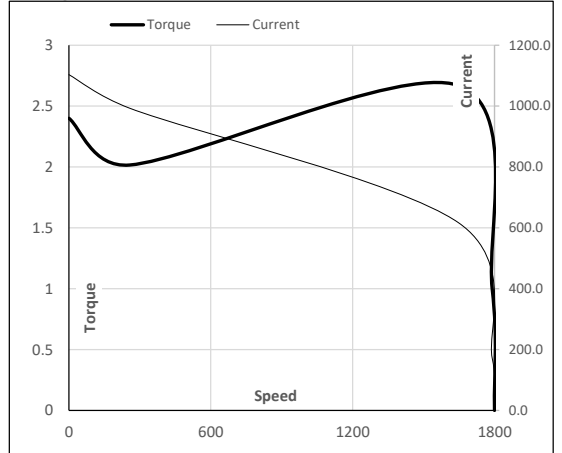
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	257	1647	1790	1800
Current	A	1103.4	993.0	617.2	172.4	60.5
Torque	pu	2.4	2.0	2.7	1	0

Starting Characteristics Chart



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

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