PRODUCT INFORMATION PACKET

Model No: 1011636-BR
Catalog No: 1011636
TerraMAX® Cast Iron Motor, 75 HP, 3 Ph, 60 Hz, 380 V, 900 RPM, 280S/M Frame, TEFC

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Nameplate Specifications

Output HP	75 Hp	Output KW	55.0 kW
Frequency	60 Hz	Voltage	380 V
Current	114.9 A	Speed	892 rpm
Service Factor	1.25	Phase	3
Efficiency	93.6 %	Power Factor	0.78
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	8	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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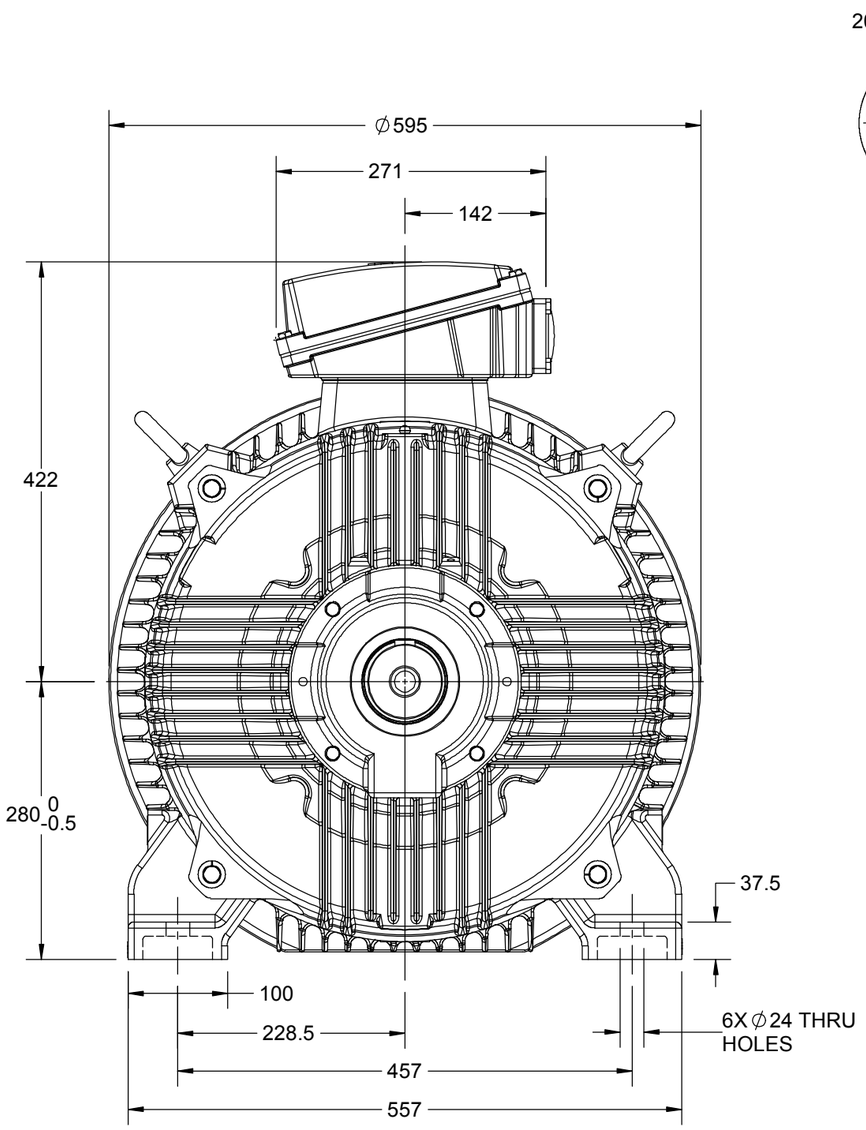

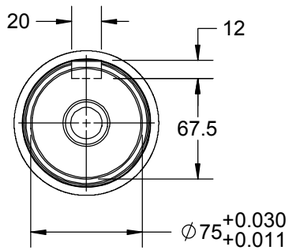

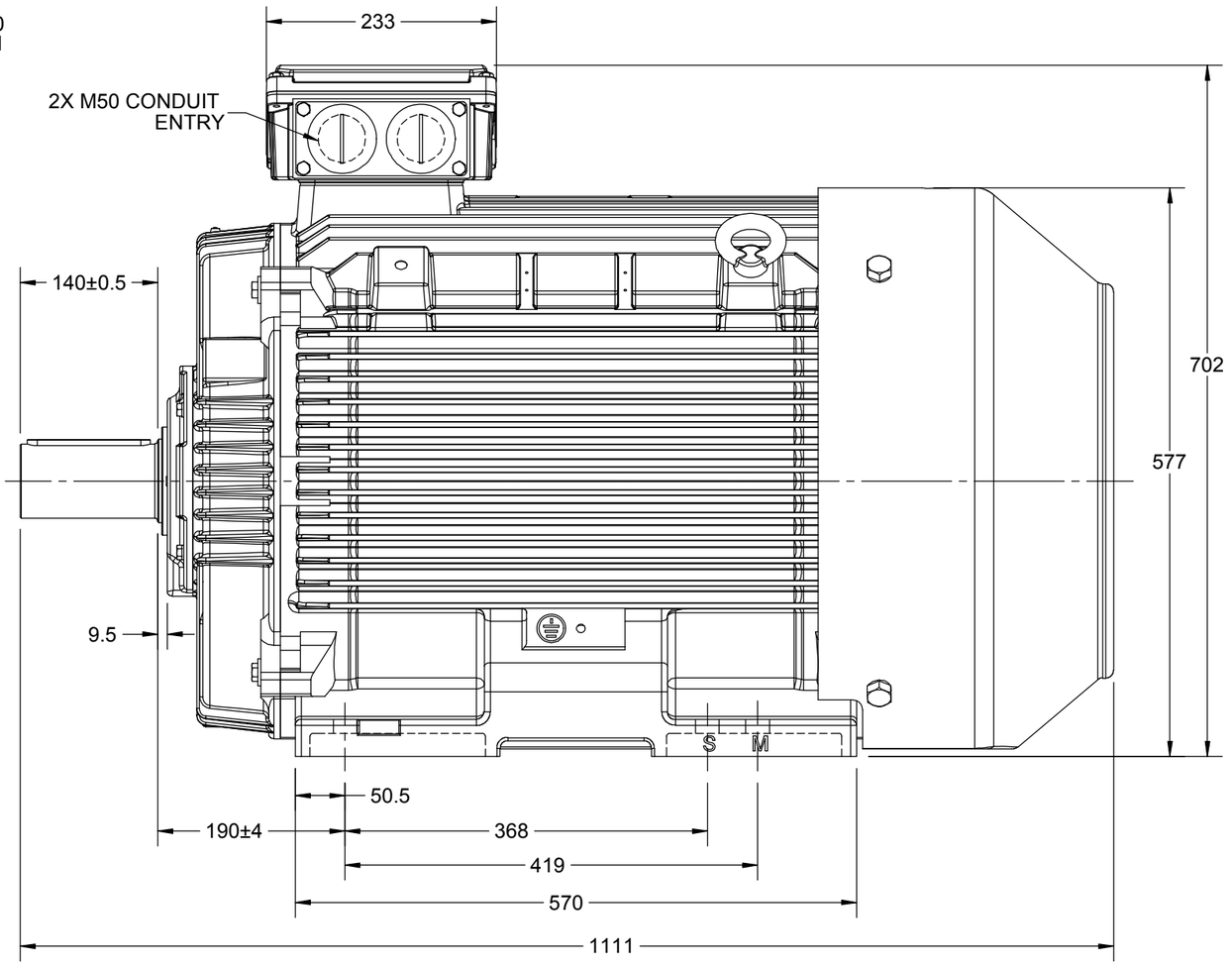

DRAWING REVISION E	REVISION BY LK	DATE 17/04/2019		DRAWN BY JOY	marathon™ Motors
ECO ECO-0165600	APPROVED BY SR	DATE 17/04/2019		DATE 18/07/2014	
ECO DESCRIPTION UPDATED MODEL AS PER NEW 3D STRUCTURE				APPROVED BY SBD	DESCRIPTION OUTLINE 280M-4P-B3 MTG. MOTOR TYPE: TCA/QCA
				DATE 18/07/2014	
				REFERENCE	MATERIAL / PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE B / DRAWING NUMBER 0228000589 / SHEET 1 OF 1

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marathon® Motors

TerraMAX®

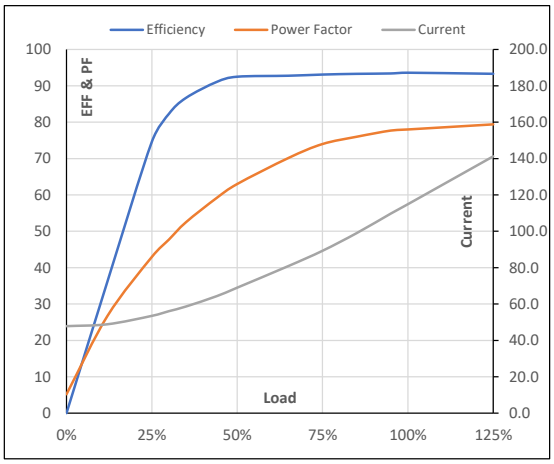
Model No. 1011636

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	55	75	114.9	892	60.16	589.96	IR3	40	S1	1000	15.634	814

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	47.8	53.5	69.0	89.3	114.9	141.2
Torque	Nm	0.0	148.7	298.1	448.2	590.0	750.8
Speed	r/min	900	898	896	894	892	890
Efficiency	%	0.0	74.6	92.5	93.1	93.6	93.3
Power Factor	%	5.2	43.0	63.0	74.0	78.0	79.4

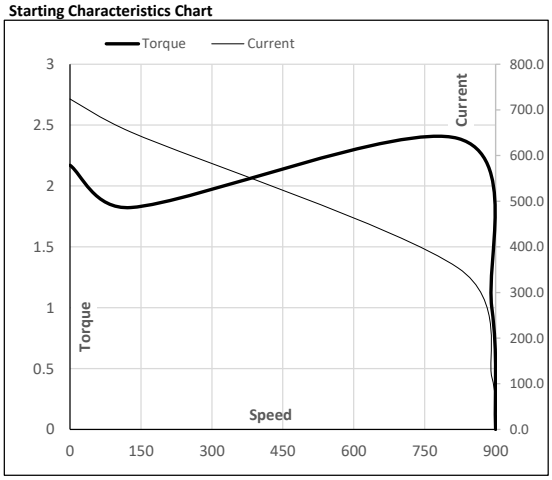
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	129	821	892	900
Current	A	723.9	651.5	353.8	114.9	47.8
Torque	pu	2.2	1.8	2.4	1	0

Starting Characteristics Chart



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

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