PRODUCT INFORMATION PACKET

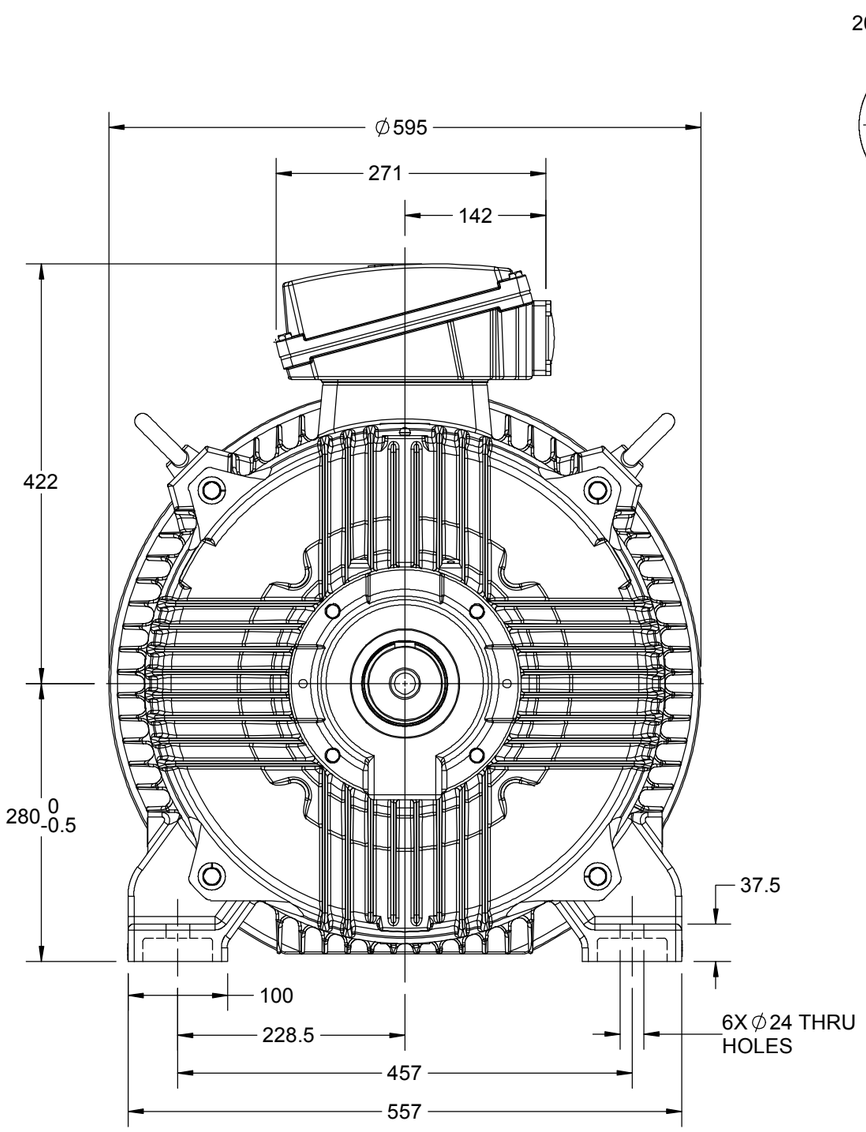
Model No: 1011634-BR
Catalog No: 1011634
TerraMAX® Cast Iron Motor, 100 HP, 3 Ph, 60 Hz, 380 V, 1200 RPM, 280S/M Frame, TEFC

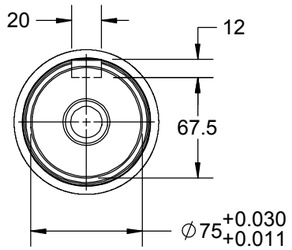
Nameplate Specifications

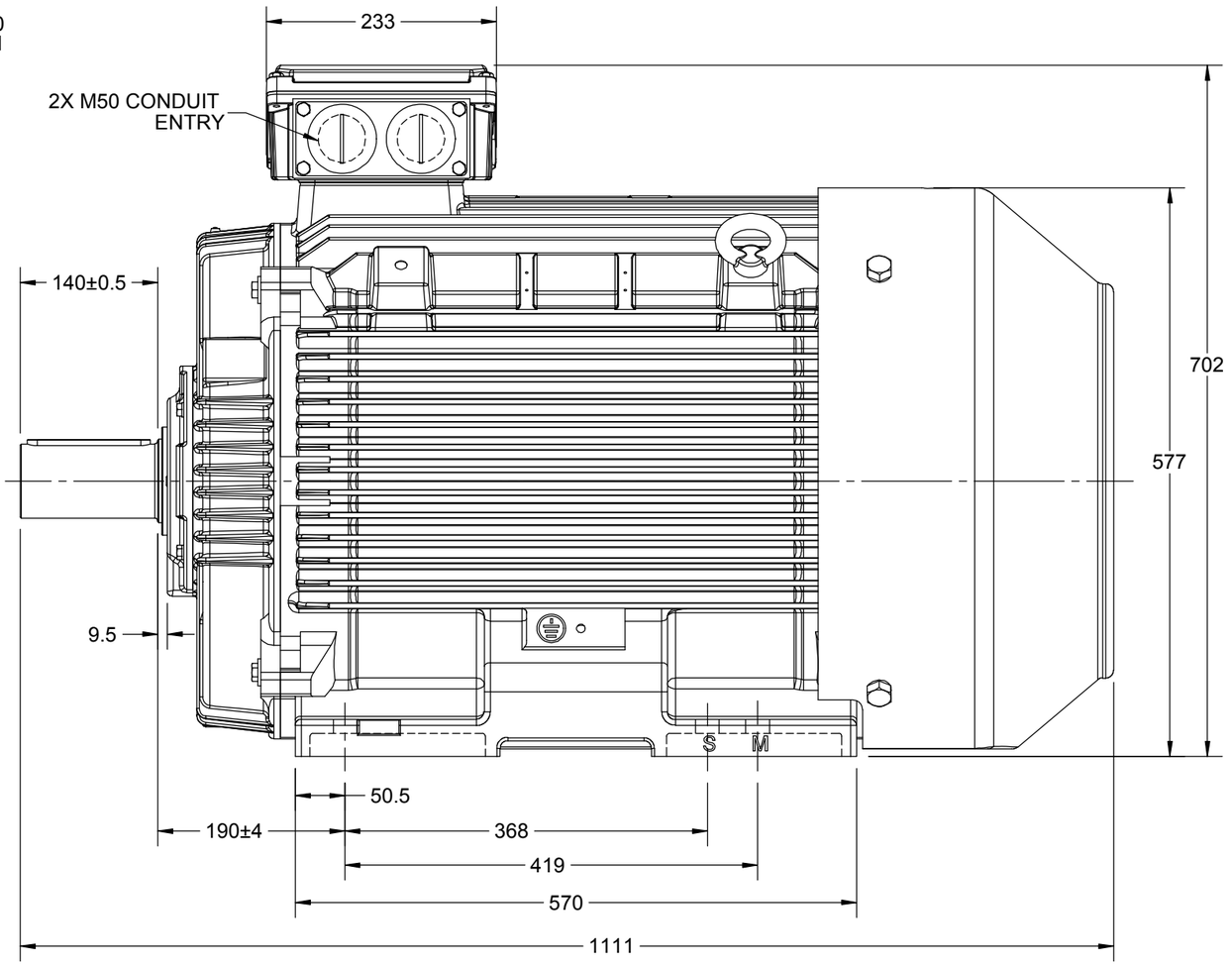
Output HP	100 Hp	Output KW	75.0 kW
Frequency	60 Hz	Voltage	380 V
Current	139.4 A	Speed	1190 rpm
Service Factor	1.25	Phase	3
Efficiency	95.5 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	280S/M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive 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	6	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		







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

marathon® Motors

TerraMAX®

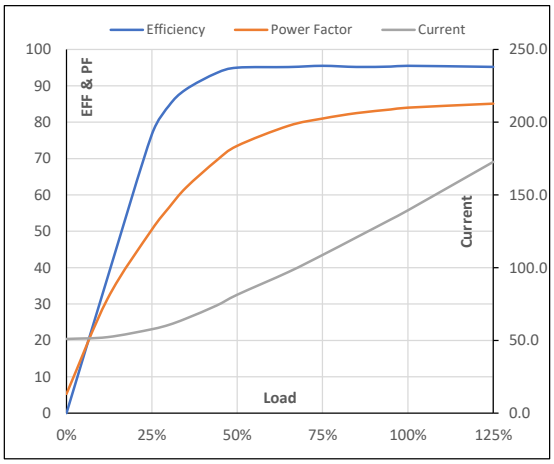
Model No. 1011634

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	75	100	139.4	1190	60.16	589.96	IR3	40	S1	1000	14.989	803

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	51.0	57.7	81.4	108.7	139.4	172.7
Torque	Nm	0.0	148.7	298.0	447.9	590.0	750.0
Speed	r/min	1200	1198	1195	1193	1190	1187
Efficiency	%	0.0	76.6	95.0	95.5	95.5	95.2
Power Factor	%	5.3	50.5	73.5	81.0	84.0	85.1

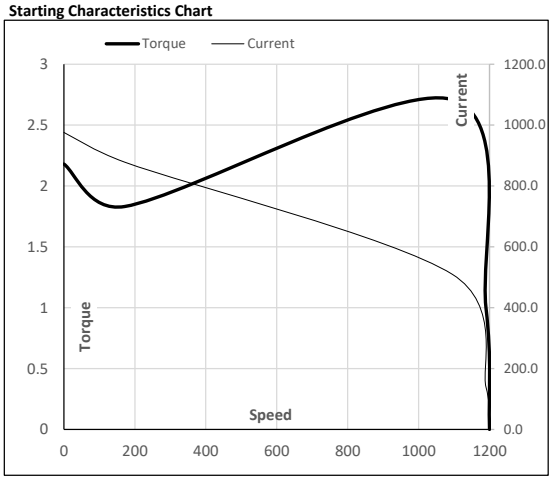
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	171	1095	1190	1200
Current	A	975.8	878.2	509.9	139.4	51.0
Torque	pu	2.2	1.8	2.7	1	0

Starting Characteristics Chart



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

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