PRODUCT INFORMATION PACKET

Model No: 1009442-BR
Catalog No: 1009442
TerraMAX® Cast Iron Motor, 1.50 HP, 3 Ph, 60 Hz, 380 V, 1200 RPM, 90S/L Frame, TEFC

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Nameplate Specifications

Output HP	1.50 Hp	Output KW	1.1 kW
Frequency	60 Hz	Voltage	380 V
Current	2.8 A	Speed	1146 rpm
Service Factor	1.25	Phase	3
Efficiency	85.5 %	Power Factor	0.71
Duty	S1	Insulation Class	F
Frame	90S/L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205
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	Zz C3	Opp Drive End Bearing	Zz C3
Frame Material	Cast	Shaft Type	Keyed
Overall Length	352 mm	Frame Length	153 mm
Shaft Diameter	24 mm	Shaft Extension	50 mm
Assembly/Box Mounting	TOP		
Outline Drawing	0209000430		

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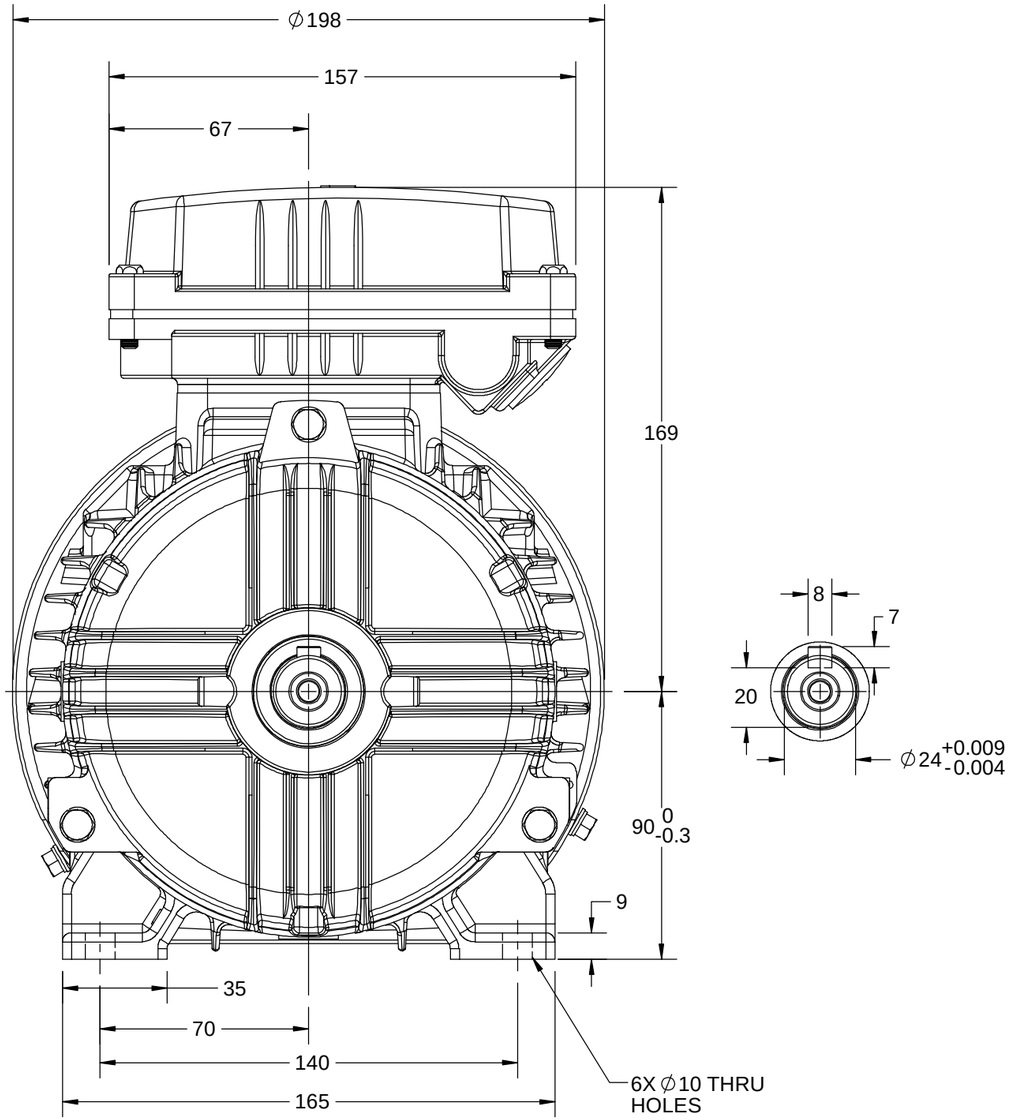
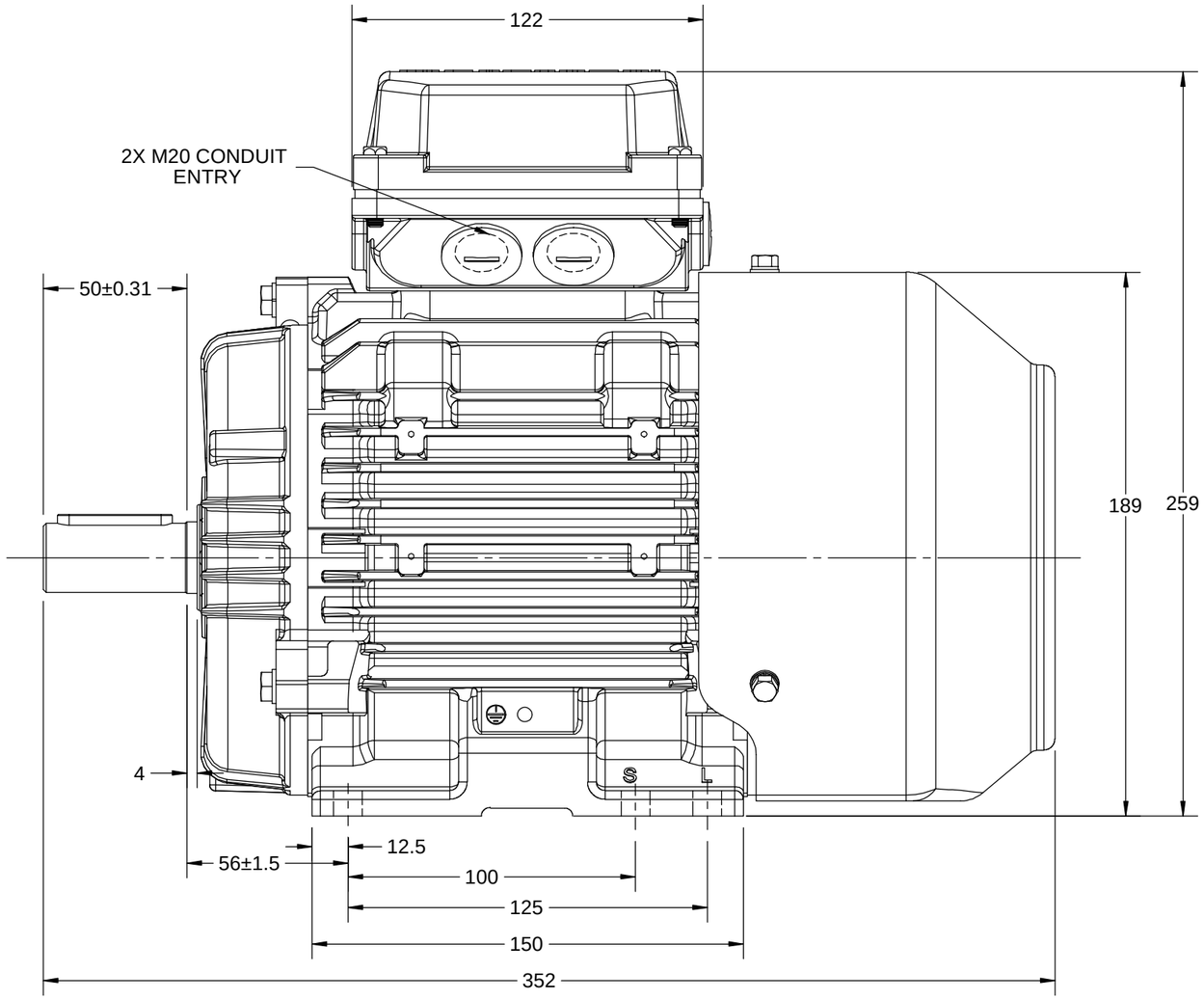
OUTLINE





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ECO DESCRIPTION: NEW DRAWING RELEASE				APPROVED BY: JOY	DESCRIPTION: OUTLINE 90 FR- B3-H/O MTG. MOTOR TYPE:TCA/QCA
				DATE: 18/11/2014	
				REFERENCE	MATERIAL / PROCESS/FINISH
				THIRD ANGLE PROJECTION	SIZE: B / DRAWING NUMBER: 0209000430 / SHEET: 1 OF 1

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marathon® Motors

TerraMAX®

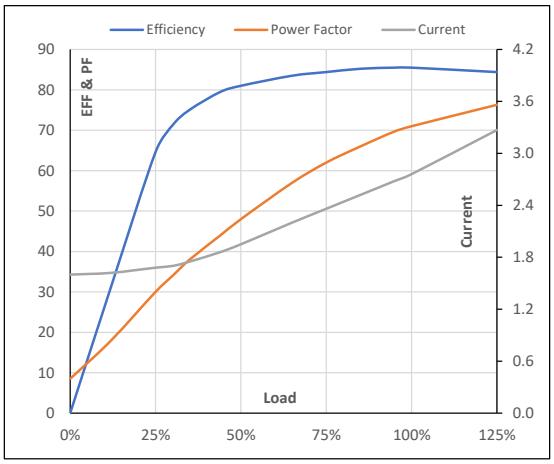
Model No. 1009442

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	1.1	2	2.8	1146	0.94	9.18	IR3	40	S1	1000	0.0216	30

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	1.6	1.7	2.0	2.4	2.8	3.3
Torque	Nm	0.0	2.3	4.6	6.9	9.2	11.8
Speed	r/min	1200	1186	1174	1160	1146	1129
Efficiency	%	0.0	64.6	81.0	84.4	85.5	84.4
Power Factor	%	8.5	30.0	48.0	62.0	71.0	76.3

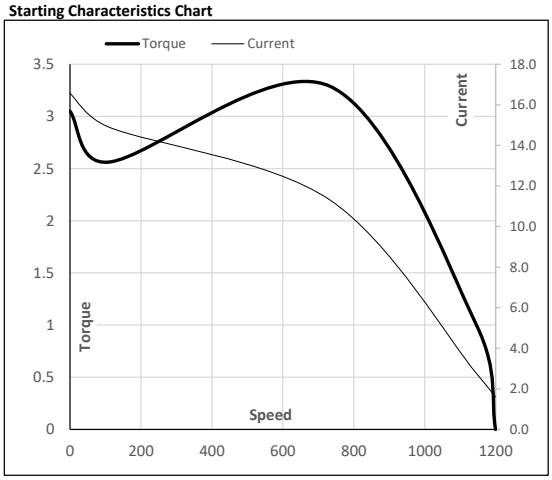
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	109	732	1146	1200
Current	A	16.6	14.9	11.3	2.8	1.6
Torque	pu	3.1	2.6	3.3	1	0

Starting Characteristics Chart



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

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