PRODUCT INFORMATION PACKET

Model No: 1009421-BR
Catalog No: 1009421
TerraMAX® Cast Iron Motor, 2 HP, 3 Ph, 60 Hz, 380 V, 1800 RPM, 90S Frame, TEFC

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Nameplate Specifications

Output HP	2 Hp	Output KW	1.5 kW
Frequency	60 Hz	Voltage	380 V
Current	7.7 A	Speed	1746 rpm
Service Factor	1.25	Phase	3
Efficiency	86.5 %	Power Factor	0.75
Duty	S1	Insulation Class	F
Frame	90S	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	4	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	307 mm	Frame Length	128 mm
Shaft Diameter	24 mm	Shaft Extension	50 mm
Assembly/Box Mounting	TOP		
Outline Drawing	0209000426		

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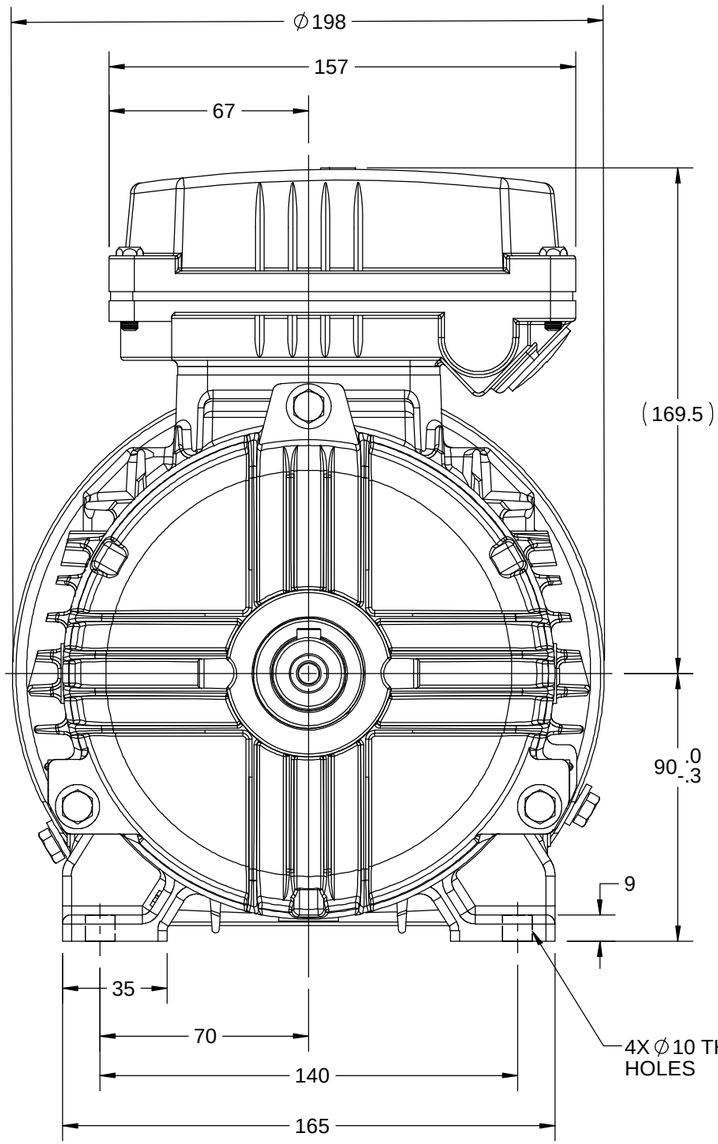

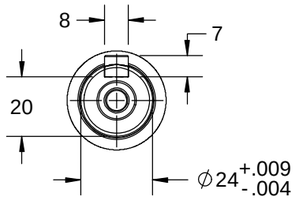

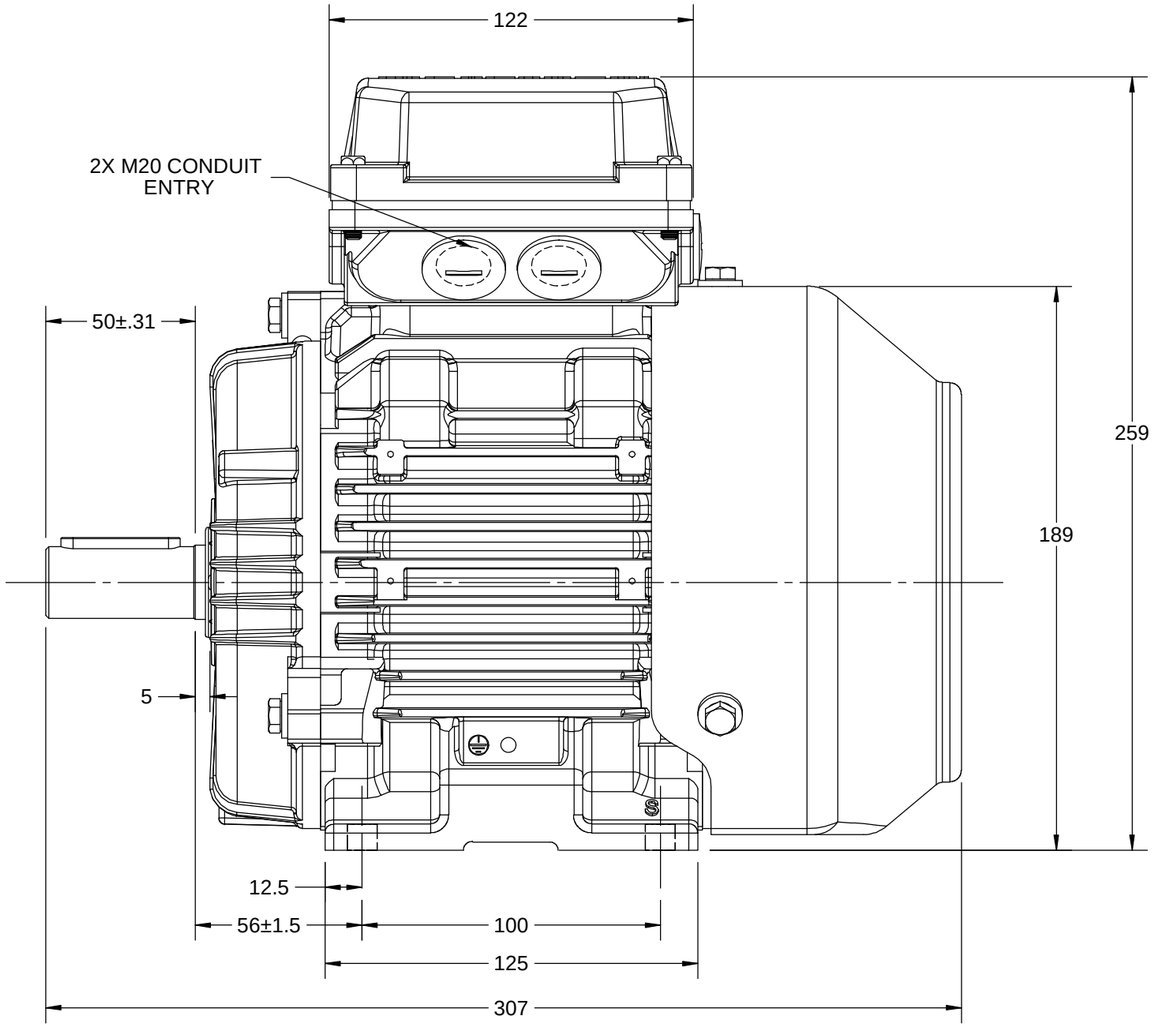

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ECO ECO-0147359	APPROVED BY JAY	DATE 29/06/2018	DATE 07/11/2014	
ECO DESCRIPTION OUTLINE UPDATE AS PER 3D STRUCTURING			APPROVED BY KRK	DESCRIPTION OUTLINE 90-S FR- B3 MTG. MOTOR TYPE:TCA/QCA
			DATE 07/11/2014	
			REFERENCE	MATERIAL / PROCESS/FINISH
			THIRD ANGLE PROJECTION	SIZE B / DRAWING NUMBER 0209000426 / SHEET 1 OF 1

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marathon® Motors

TerraMAX®

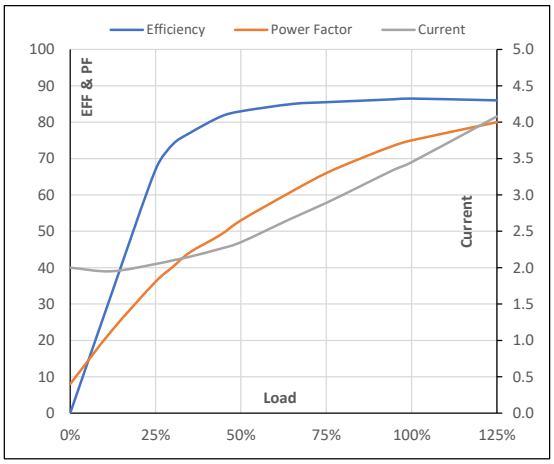
Model No. 1009421

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	1.5	2	3.5	1746	0.82	8.04	IR3	40	S1	1000	0.016	26

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	2.0	2.1	2.4	2.9	3.5	4.1
Torque	Nm	0.0	2.0	4.0	6.1	8.0	10.3
Speed	r/min	1800	1786	1774	1761	1746	1731
Efficiency	%	0.0	67.0	83.0	85.5	86.5	86.0
Power Factor	%	8.0	36.1	53.0	66.0	75.0	80.0

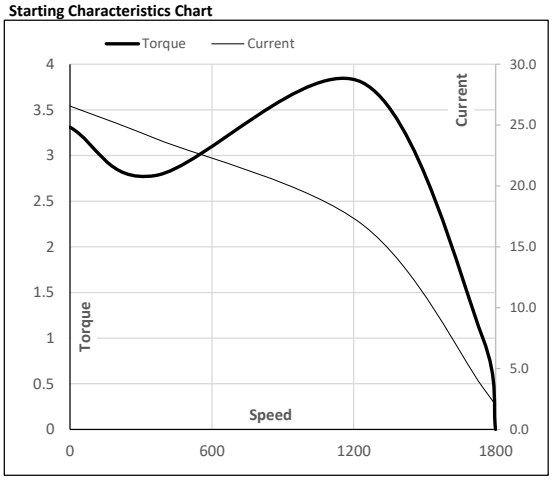
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	360	1236	1746	1800
Current	A	26.6	23.9	16.8	3.5	2.0
Torque	pu	3.3	2.8	3.8	1	0

Starting Characteristics Chart



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

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