

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 1009423-BR

Catalog No: 1009423

TerraMAX® Cast Iron Motor, 4 HP, 3 Ph, 60 Hz, 380 V, 1800 RPM, 100L1 Frame, TEFC



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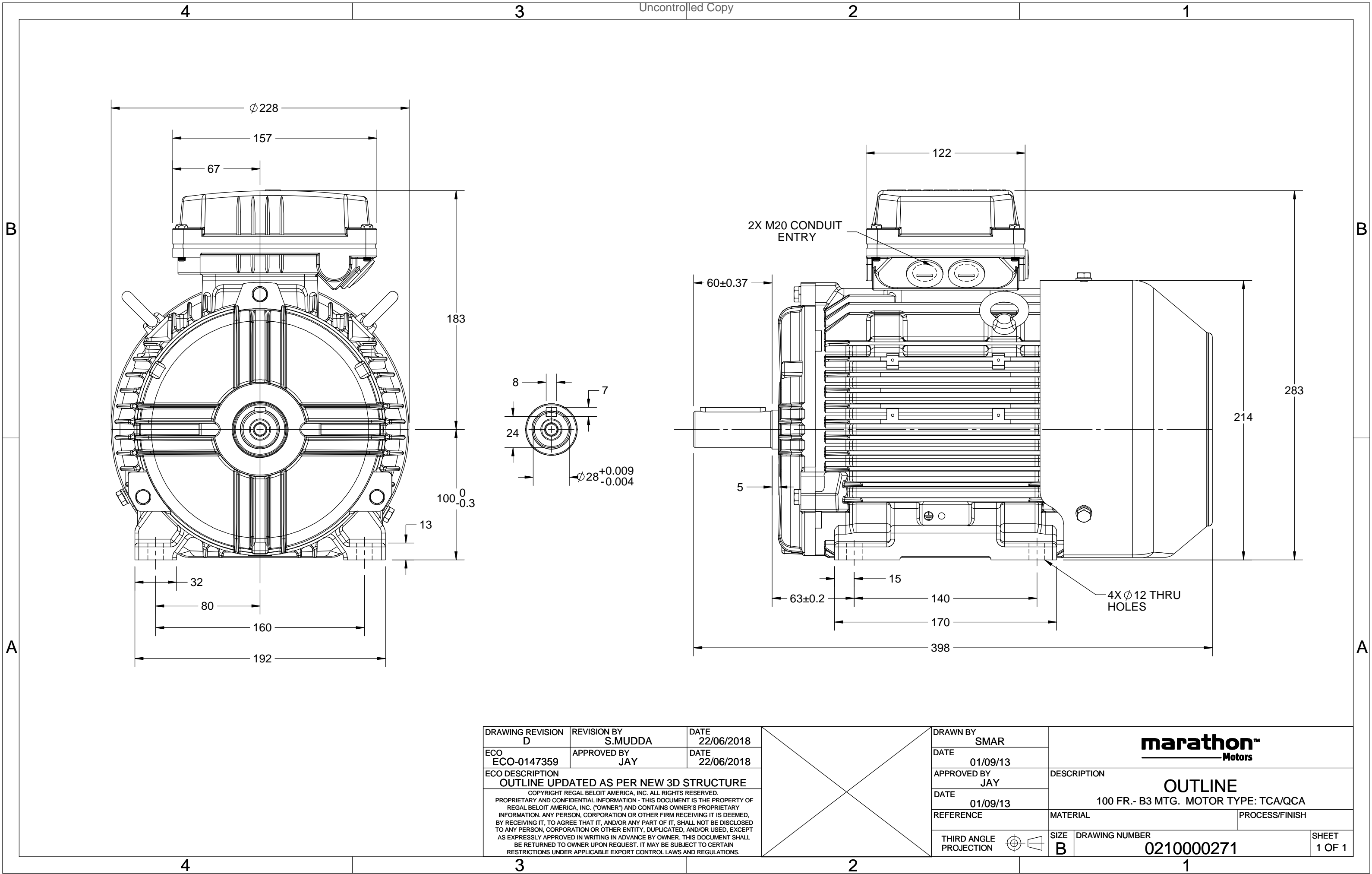
Nameplate Specifications

Output HP	4 Hp	Output KW	3.0 kW
Frequency	60 Hz	Voltage	380 V
Current	8.0 A	Speed	1756 rpm
Service Factor	1.25	Phase	3
Efficiency	89.5 %	Power Factor	0.84
Duty	S1	Insulation Class	F
Frame	100L1	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6206	Opp Drive End Bearing Size	6206
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	398 mm	Frame Length	200 mm
Shaft Diameter	28 mm	Shaft Extension	60 mm
Assembly/Box Mounting	TOP		
Outline Drawing	0210000271		

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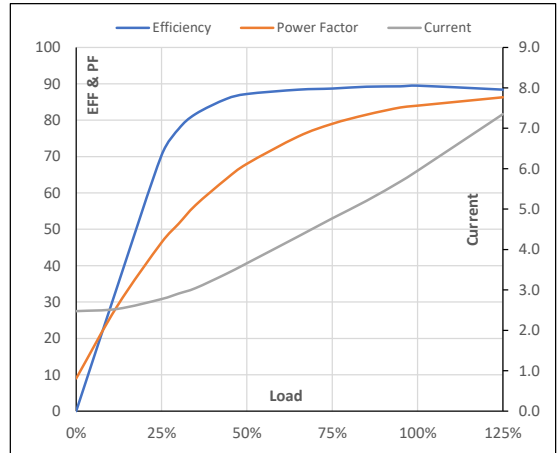
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Enclosure	U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m ²]	Weight [kg]
TEFC	380	Δ	60	3	4	6.0	1756	1.63	15.97	IR3	40	S1	1000	0.056	43

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	2.5	2.8	3.7	4.8	6.0	7.4
Torque	Nm	0.0	4.0	8.0	12.1	16.0	20.4
Speed	r/min	1800	1789	1779	1768	1756	1742
Efficiency	%	0.0	70.3	87.2	88.7	89.5	88.4
Power Factor	%	9.0	46.4	68.0	79.0	84.0	86.3

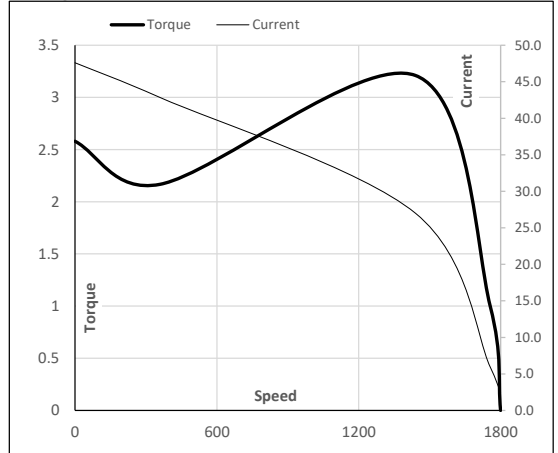
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	360	1440	1756	1800
Current	A	47.6	42.8	27.0	6.0	2.5
Torque	pu	2.6	2.2	3.2	1	0

Starting Characteristics Chart



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

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