

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 1009400-BR

Catalog No: 1009400

TerraMAX® Cast Iron Motor, 30 HP, 3 Ph, 60 Hz, 380 V, 3600 RPM, 160M/L Frame, TEFC



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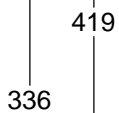
Nameplate Specifications

Output HP	30 Hp	Output KW	22.0 kW
Frequency	60 Hz	Voltage	380 V
Current	40.4 A	Speed	3545 rpm
Service Factor	1.25	Phase	3
Efficiency	91.7 %	Power Factor	0.91
Duty	S1	Insulation Class	F
Frame	160M/L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6209
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	2	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	666 mm	Frame Length	298 mm
Shaft Diameter	42 mm	Shaft Extension	110 mm
Assembly/Box Mounting	TOP		
Outline Drawing	0216000441		

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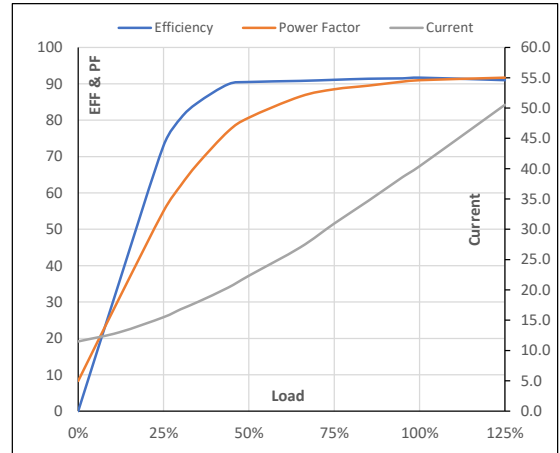
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Enclosure	U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m ²]	Weight [kg]
TEFC	380	Δ	60	22	30	40.4	3545	6.06	59.39	IR3	40	S1	1000	0.337	164

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	11.5	15.5	22.3	31.0	40.4	50.5
Torque	Nm	0.0	14.9	29.9	45.0	59.4	75.7
Speed	r/min	3600	3586	3573	3559	3545	3529
Efficiency	%	0.0	73.0	90.5	91.1	91.7	91.0
Power Factor	%	8.3	55.0	80.7	88.5	91.0	91.7

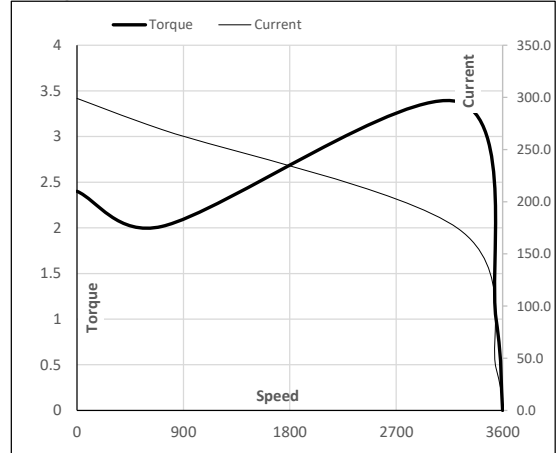
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	720	3224	3545	3600
Current	A	299.0	269.1	174.3	40.4	11.5
Torque	pu	2.4	2.0	3.4	1	0

Starting Characteristics Chart



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

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