

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 1011628-BR

Catalog No: 1011628

TerraMAX® Cast Iron Motor, 50 HP, 3 Ph, 60 Hz, 380 V, 900 RPM, 250S/M Frame, TEFC



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Nameplate Specifications

Output HP	50 Hp	Output KW	37.0 kW
Frequency	60 Hz	Voltage	380 V
Current	79.6 A	Speed	891 rpm
Service Factor	1.25	Phase	3
Efficiency	92.4 %	Power Factor	0.76
Duty	S1	Insulation Class	F
Frame	250S/M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6314	Opp Drive End Bearing Size	6314
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	8	Rotation	Clockwise
Mounting	B3	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	C3
Frame Material	Cast	Shaft Type	Keyed
Overall Length	941 mm	Frame Length	460 mm
Shaft Diameter	65 mm	Shaft Extension	140 mm
Assembly/Box Mounting	TOP		
Outline Drawing	0225000378		

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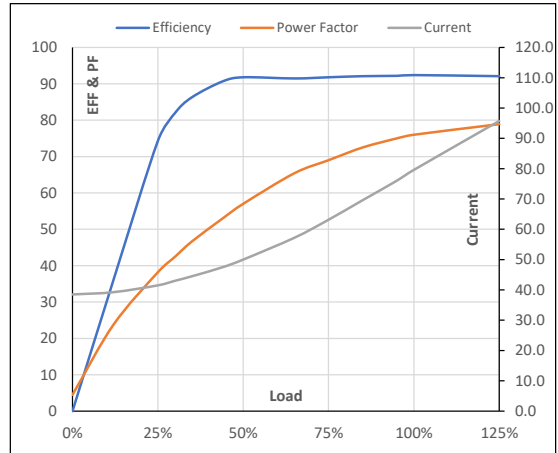
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Enclosure	U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [kgm]	T [Nm]	IE Class	Amb [°C]	Duty	Elevation [m]	Inertia [kg-m ²]	Weight [kg]
TEFC	380	Δ	60	37	50	79.6	891	40.17	393.96	IR3	40	S1	1000	9.237	578

Motor Load Data

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	38.5	41.5	50.0	63.2	79.6	95.8
Torque	Nm	0.0	99.2	198.9	299.0	394.0	501.3
Speed	r/min	900	898	896	893	891	888
Efficiency	%	0.0	74.3	91.8	91.8	92.4	92.1
Power Factor	%	4.5	38.2	57.0	69.0	76.0	78.9

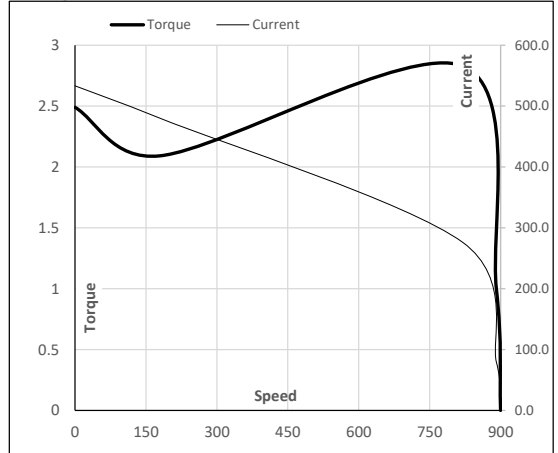
Performance vs Load Chart



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	180	820	891	900
Current	A	533.3	480.0	276.2	79.6	38.5
Torque	pu	2.5	2.1	2.8	1	0

Starting Characteristics Chart



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

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