

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 1009059-BR

Catalog No: 1009059

TerraMAX® Cast Iron Motor, 3 HP, 3 Ph, 60 Hz, 380 V, 3600 RPM, 90S2 Frame, TEFC



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**RegalRexnord**

### Nameplate Specifications

Output HP	3 Hp	Output KW	2.2 kW
Frequency	60 Hz	Voltage	380 V
Current	4.5 A	Speed	3478 rpm
Service Factor	1.25	Phase	3
Efficiency	86.5 %	Power Factor	0.86
Duty	S1	Insulation Class	F
Frame	90S2	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	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	327 mm	Frame Length	128 mm
Shaft Diameter	24 mm	Shaft Extension	50 mm
Assembly/Box Mounting	TOP		
Outline Drawing	0209000808		

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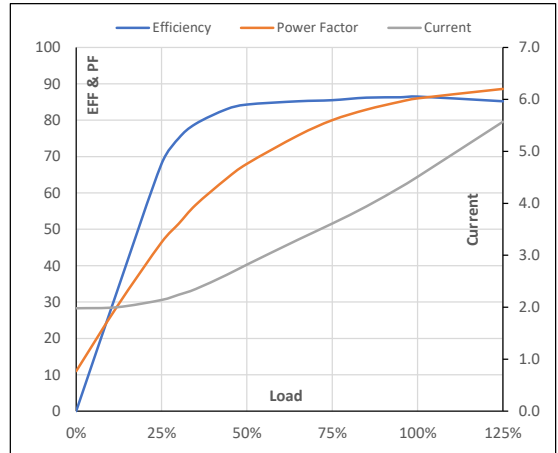
Model No. 1009059

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 <sup>2</sup> ]	Weight [kg]
TEFC	380	Δ	60	2.2	3	4.5	3478	0.62	6.06	IR3	40	S1	1000	0.0096	26

**Motor Load Data**

Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	A	2.0	2.1	2.8	3.6	4.5	5.6
Torque	Nm	0.0	1.5	3.0	4.6	6.1	7.8
Speed	r/min	3600	3569	3541	3510	3478	3440
Efficiency	%	0.0	68.0	84.3	85.5	86.5	85.2
Power Factor	%	11.0	46.4	68.0	80.0	86.0	88.6

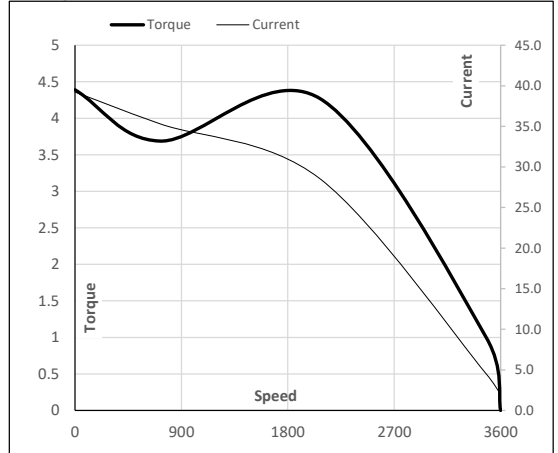
**Performance vs Load Chart**



**Motor Speed Torque Data**

Load Point		LR	P-Up	BD	Rated	NL
Speed	r/min	0	720	2072	3478	3600
Current	A	39.2	35.3	28.6	4.5	2.0
Torque	pu	4.4	3.7	4.3	1	0

**Starting Characteristics Chart**



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

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