Contact Us

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Motor Disclaimer

This version of Parker's ePump and eMotor Sizing Assistant does not consider the motor's back-EMF, or account for field-weakening or potential 3PS events associated with inverter fault modes. Please consult a Parker application engineer with assistance if you need to evaluate all potential operating conditions.

eMotor Model

eMotor Part Number: K089100-4Y_

System Configuration

Nominal Voltage: 48 VDC

Current Limit:

Thermal Conditions: K089 Housed in a motor frame. Typically an aluminum cylinder with 0.250in thick walls, mounted to a 8in x 8in x 0.5in aluminum plate

Mechanical Limits

Max Length Over All: -

Max Diameter: 190 mm

Performance Inputs

User Points:

Torque	RPM	Power	Cont / Peak
1.89 Nm	1800 RPM	0.36 kW	CONT

Performance Output

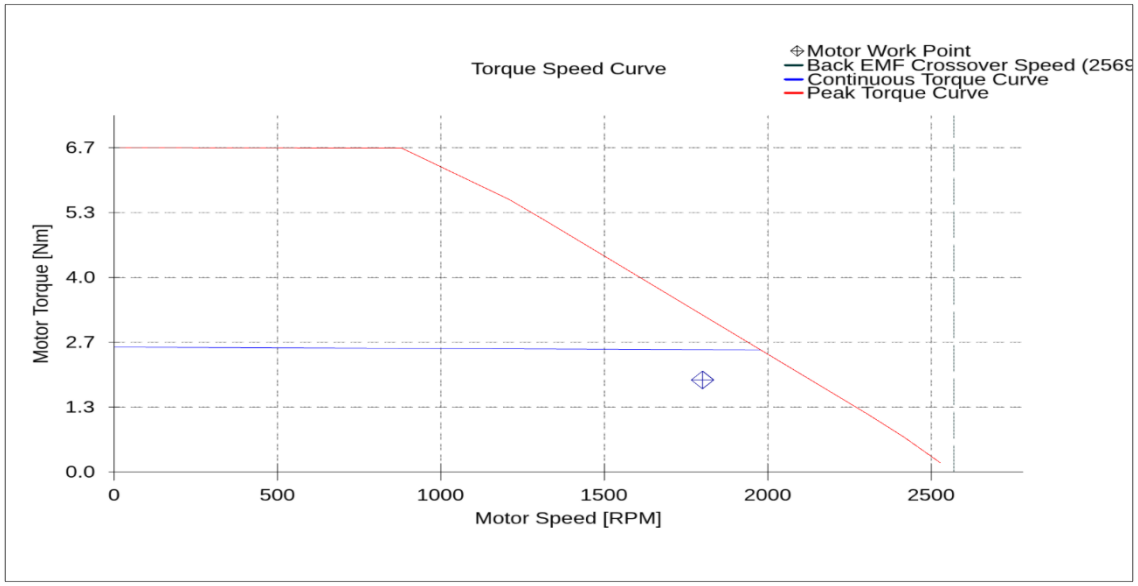
Motor Part Number: K089100-4Y_

Parameter	Continuous Motor Data	Peak Motor Data
No Load Speed (RPM)	2527 RPM	2527 RPM
Stall Torque (Nm)	2.565 Nm	6.663 Nm
Current at Stall (AmpRMS)	11.963 AmpRMS	37.804 AmpRMS
Max Power (kW)	0.519 kW	0.713 kW
Torque at Max Power (Nm)	2.506 Nm	5.165 Nm
Speed at Max Power (RPM)	1978 RPM	1318 RPM
Current at Max Power (AmpRMS)	11.744 AmpRMS	26.145 AmpRMS
Voltage Const (Vrms/krpm)	13.21 Vrms/KRPM	13.21 Vrms/KRPM
Thermal Conditions	K089 Housed in a motor frame. Typically an aluminum cylinder with 0.250in thick walls, mounted to a 8in x 8in x 0.5in aluminum plate	K089 Housed in a motor frame. Typically an aluminum cylinder with 0.250in thick walls, mounted to a 8in x 8in x 0.5in aluminum plate
Performance Margin (%)	13.53%	-

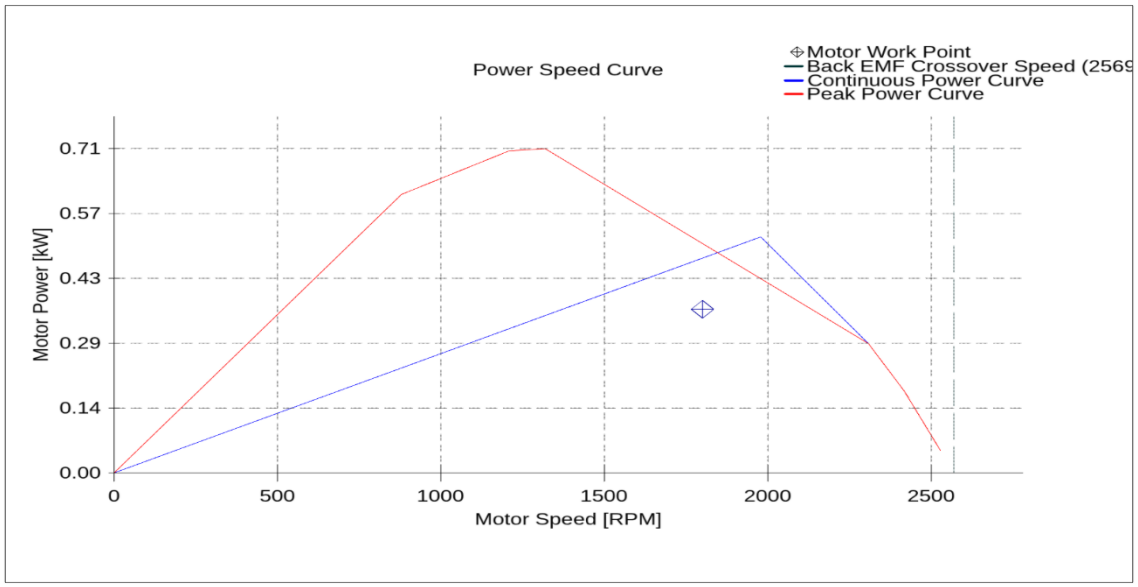
Performance Output Charts

Motor Part Number: K089100-4Y_

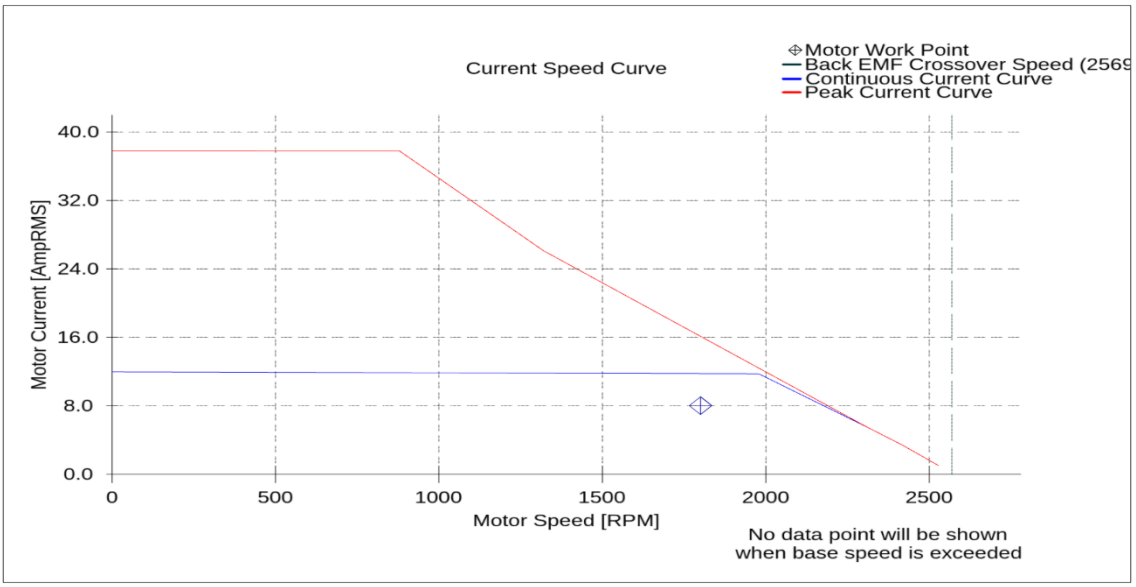
Speed-Torque Curve



Speed-Power Curve



Speed-Current Curve



Disclaimer

The Program and Information may provide material, component and/or system options for further investigation by users having technical expertise, and is provided solely for use by users having such expertise. Before selecting or using any material, component or system, it is important that you analyze all aspects of your application. Due to the variety of operating conditions and applications which may be encountered, the user, through your own analysis and testing, is solely responsible for making the final selection and approval of any material, component or system and assuring that all performance, safety and warning requirements of the application are met. Final acceptance and approval of the material, component or system must be made by the user after testing its performance and endurance in the entire application under all conditions which might be encountered.

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