



Contact Us

Parker US Mobile

Electrification Center:

Hydraulic Pump and Power Systems

14249 Industrial Parkway

Marysville, Ohio 43040

United States

Telephone: +1 (937) 644-3915

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: K089075-5Y_

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

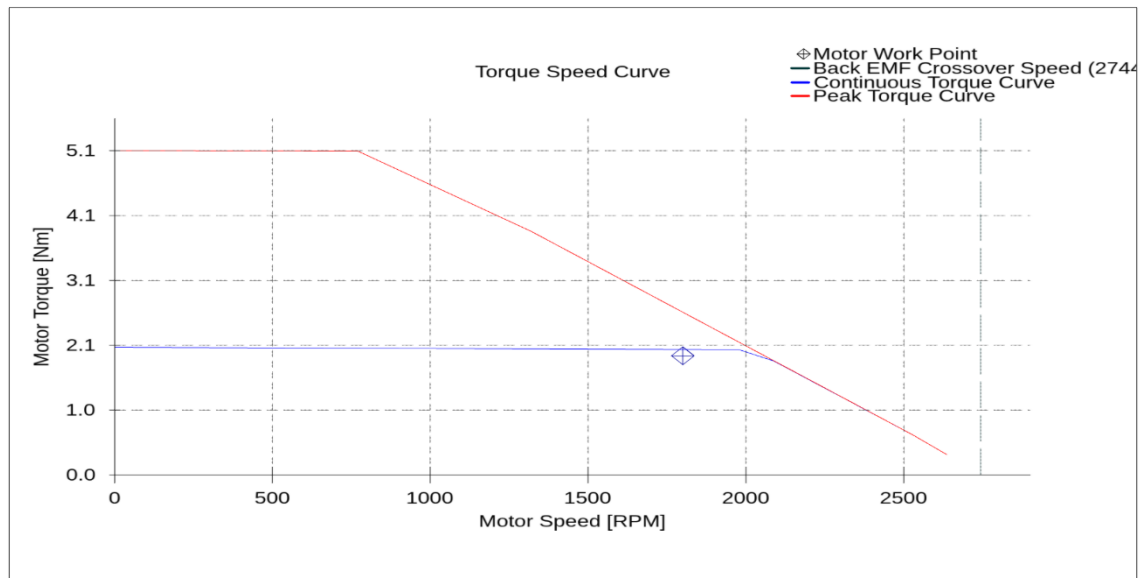
Motor Part Number: K089075-5Y_

Parameter	Continuous Motor Data	Peak Motor Data
No Load Speed (RPM)	2637 RPM	2637 RPM
Stall Torque (Nm)	2.024 Nm	5.145 Nm
Current at Stall (AmpRMS)	10.108 AmpRMS	31.94 AmpRMS
Max Power (kW)	0.412 kW	0.535 kW
Torque at Max Power (Nm)	1.987 Nm	3.574 Nm
Speed at Max Power (RPM)	1978 RPM	1428 RPM
Current at Max Power (AmpRMS)	9.969 AmpRMS	18.96 AmpRMS
Voltage Const (Vrms/krpm)	12.366 Vrms/KRPM	12.366 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: K089075-5Y_

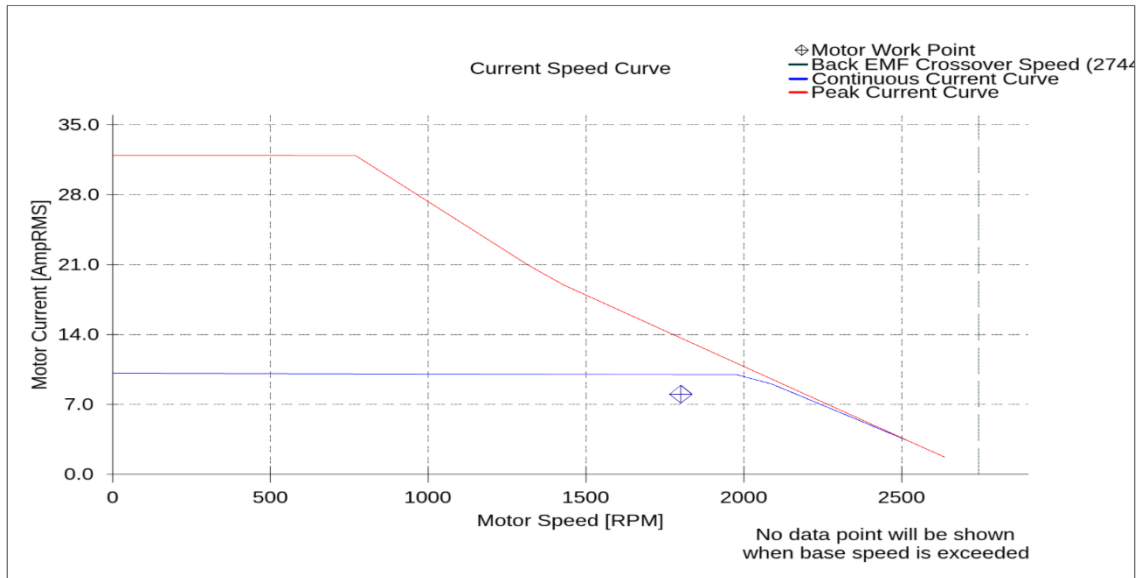
Speed-Torque Curve



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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