

PRODUCT INFORMATION

MOTOR

Torque Motors

The torque motors available from SEW-Eurodrive are all of the 8-pole design. This means the motor has a synchronous speed of 900 rpm. A torque motor is a 3-phase squirrel cage motor which has a larger frame than the standard NEMA Design B motor with the same torque development.

A torque motor is rated by torque in lb-in. and not in horsepower. The torque rating of a torque motor is **that** torque which the motor can develop at a **continuous stall without** burning out from overheating. In addition to the continuous stall, the torque motor can operate in the same fashion as a standard motor. It can be plug reversed, braked, rotated CW or CCW, etc.

The difference between a standard motor and a torque motor is as follows: When a standard motor develops its breakdown torque, it will come to a stop, it draws very high current, and if not disconnected from the line, it will burn out. A torque motor will continue to generate its rated torque when it is stalled out (to zero rpm). To get more torque out of the motor, a gear reducer can be mounted integrally with the motor. The reducer will then work as a torque multiplier. The torque motor can be used in many applications. A couple of samples are listed below.

Applications

The torque motor can be used to open and close a hangar door. The door can be closed tightly and be kept closed with the energized torque motor applying a continuous torque.

The same applies to valves which can be operated with a torque motor. The valve can be kept open or closed with an even amount of pressure applied to valve components.

The following torque curve can be considered typical for all motor sizes.

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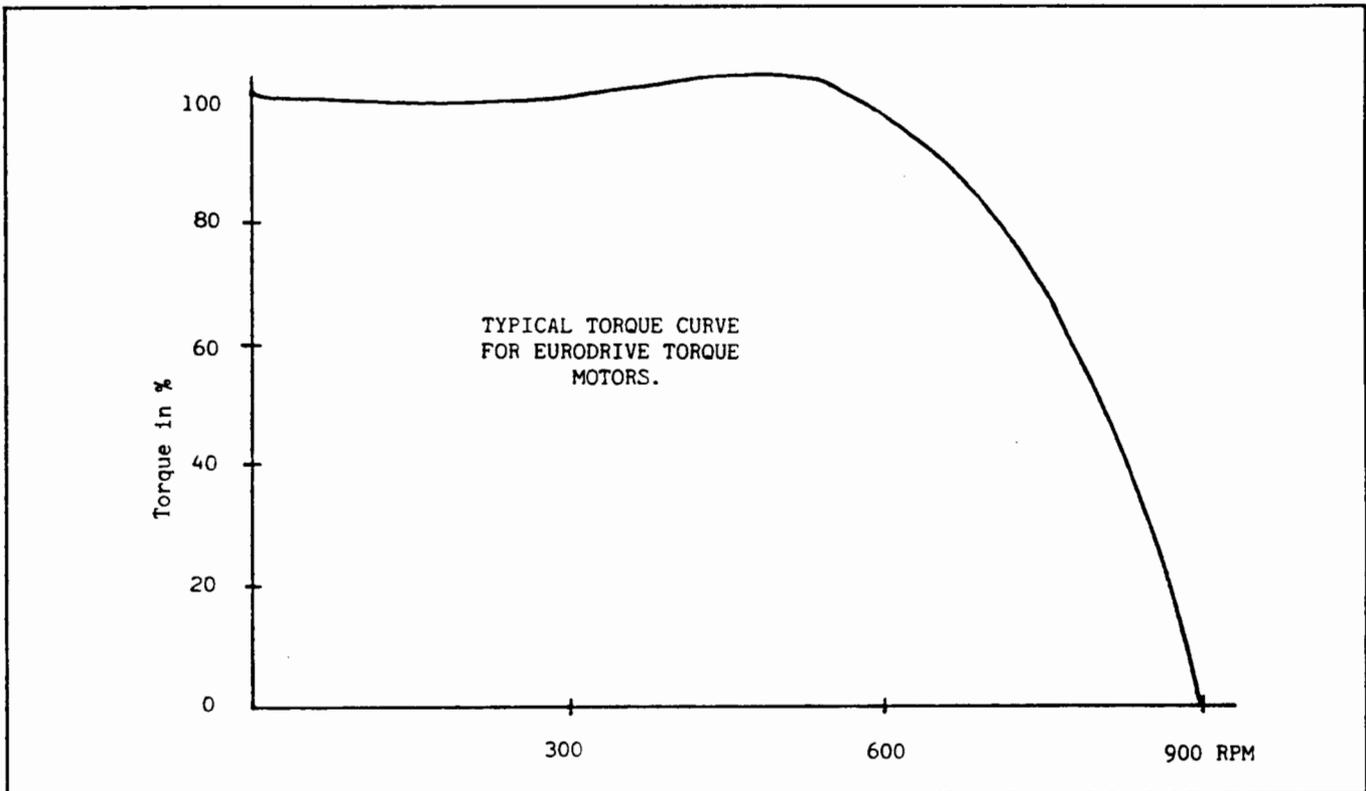
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Motor Frame Size	Stall Torque (When stalled Continuously)	Current Draw At Stall @ 460V	Motor Pinion Diameter
MT71D8	3.5 lb-in.	.17A	10mm
MT80K8	5.3 lb-in.	.19A	12mm
MT80N8	7.1 lb-in.	.24A	12mm
MT90S8	13.3 lb-in.	.43A	12mm
MT100LS8	17.7 lb-in.	.46A	12mm
MT100L8	22.1 lb-in.	.56A	12mm
MT132S8	31 lb-in.	.91A	14mm

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