

PRODUCT SPECIFICATION

TSL-R-385-DR

Brushed DC Vibration Motor Series

12 V and 24 V options

8000 r/min variants

Double round head configuration

12 V

24 V

8000 r/min

Clean design. Reliable performance. Custom configurations available.



R-385 DR Brushed DC Vibration Motor




Performance Specifications

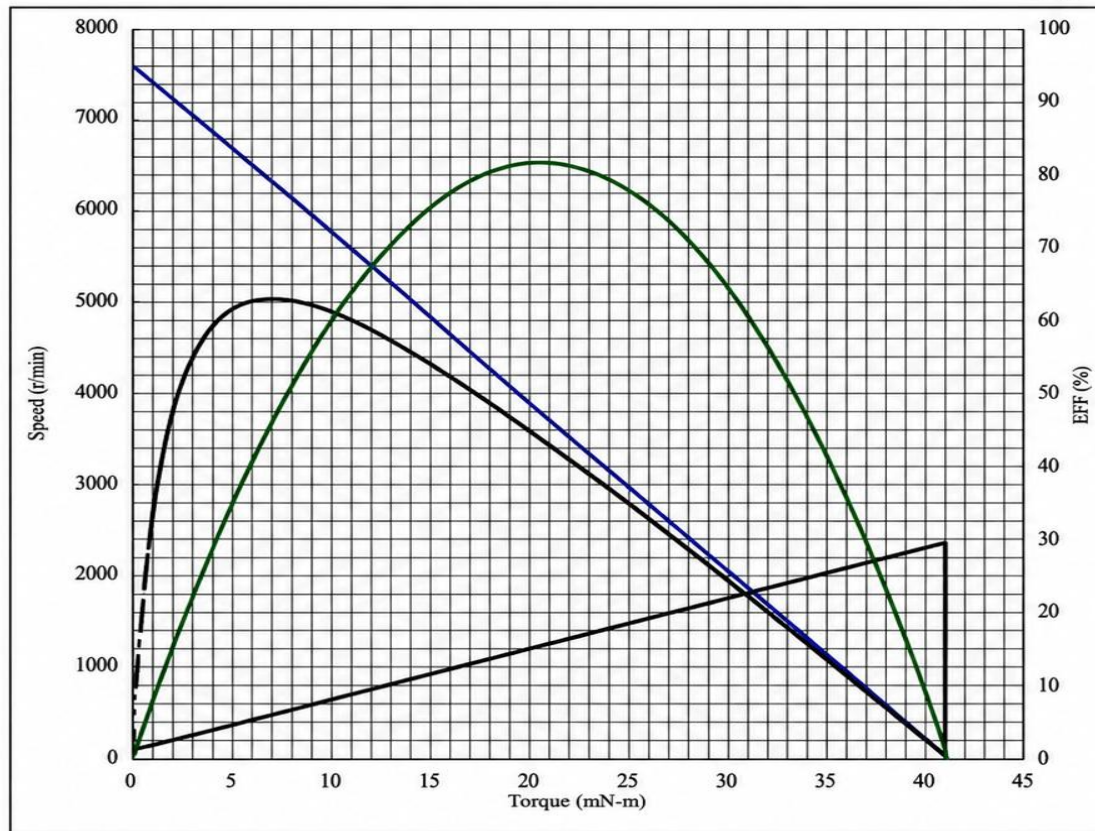
Parameter Item	TSL-R-385-248057	TSL-R-385-248070	TSL-R-385-128057
Operating Voltage Range (V)	14.5-26.0	14.5-26.0	9.0-14.0
Nominal Voltage (V)	24	24	12
No-load Speed (r/min)	8000	8000	8000
No-load Current (A)	0.07	0.064	0.142
Max Efficiency Output Power (W)	4.83	4.64	4.48
Max Power Output Power (W)	8.302	8.152	7.419
Stall Torque (g.cm)	414.8	411.7	361.3
Stall Current (A)	1.52	1.484	2.75

Specifications are for reference only. Products can be customized according to customer requirements.

Performance Curve - 24 V / 8000 r/min / 057

Model: R-385-2480

Date : 05/06/22
 Full scale :  100% Eff
  10.0 Watts
  5.0 Amp.



Performance (in an ambient temperature of 25-30 ° C)

Motor tested rapidly to prevent significant temperature rise.

At a constant voltage of : 24.0 Volts

Direction : CCW

At No Load

Speed : 7656 r/min
 Current : 0.07 AMPS

At stall (Extrapolated)

Torque : 41.48 mN-m
 Current : 1.520 AMPS

At maximum efficiency

Efficiency: 61.7 %
 Torque : 7.328 mN-m
 Speed : 6303 r/min
 Current : 0.326 AMPS
 Output : 4.83 Watts

At maximum Power output

Output : 8.302 Watts
 Torque : 20.741 mN-m
 Speed : 4197 r/min
 Current : 0.73 AMPS

Characteristics

Torque constant K_t : 28.599 mN-m/AMP
 E.M.F. constant E_c : 28.599 mV/rad/sec
 Dynamic resistance: 15.7851 Ohms
 Motor regulation M_r : 184.56 r/min/mN-m

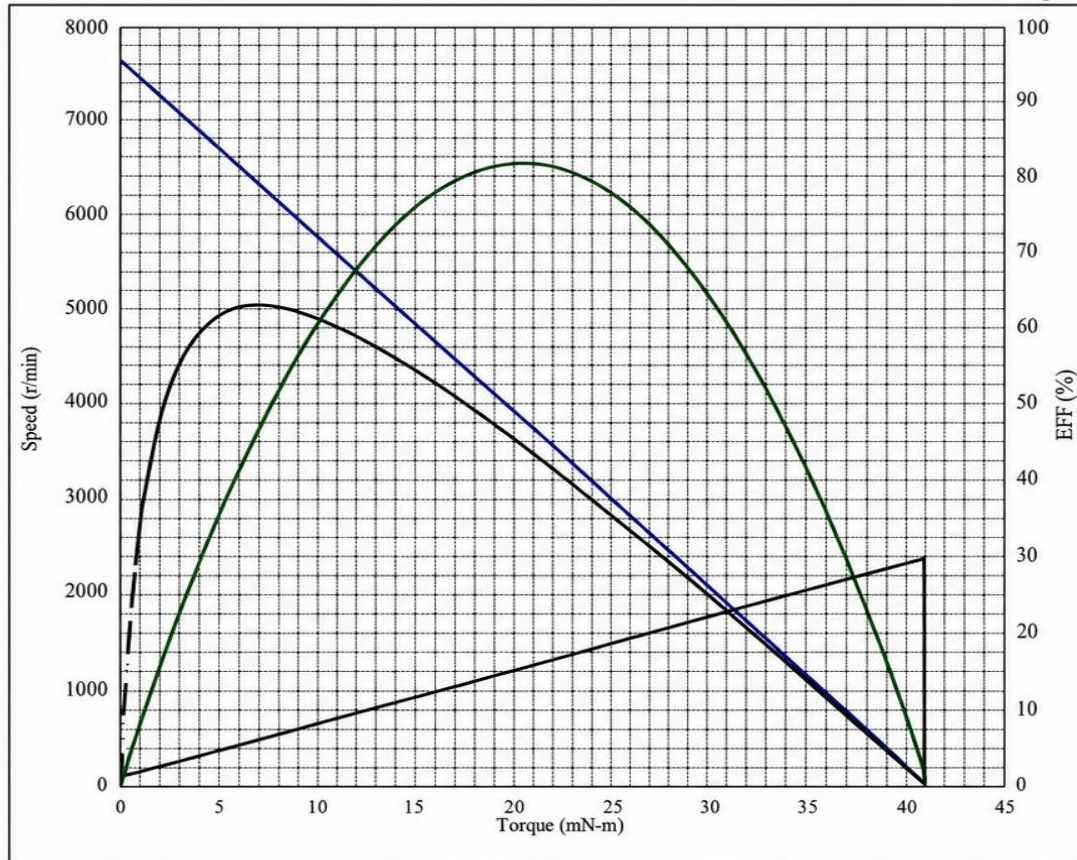
K_m 7.198371191

Performance Curve - 24 V / 8000 r/min / 070

Model: R-385-2480

Date : 05/06/22

Full scale :
 - - - - 100% Eff
 - - - - 10.0 Watts
 - - - - 5.0 Amp.



Performance (in an ambient temperature of 25-30 ° C)

Motor tested rapidly to prevent significant temperature rise.

At a constant voltage of: 24.0 Volts

Direction : CCW

At No Load

Speed :	7609	r/min
Current :	0.064	AMPS

At stall (Extrapolated)

Torque :	41.17	mN-m
Current :	1.484	AMPS

At maximum efficiency

Efficiency:	62.8	%
Torque :	7.080	mN-m
Speed :	6300	r/min
Current :	0.308	AMPS
Output :	4.64	Watts

At maximum Power output

Output :	8.152	Watts
Torque :	20.584	mN-m
Speed :	4147	r/min
Current :	0.71	AMPS

Characteristics

Torque constant K_t :	28.994	mN-m/AMP
E.M.F. constant E_c :	28.994	mV/rad/sec
Dynamic resistance:	16.1737	Ohms
Motor regulation M_r :	184.81	r/min/mN-m
K_m	7.20955	

Outline Dimensions - Double Round Head

R-385 Double Round Head

