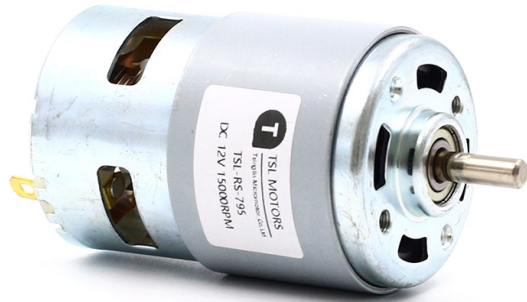


Motor Specification



Product Overview

Series:	TSL-RS-795 Brushed DC Motor
Reference Models:	TSL-RS-795-12800 / TSL-RS-795-24800
Rated Voltage:	12 V / 24 V
No-Load Speed:	8397 r/min / 8131 r/min
Motor Diameter:	Ø45 mm
Shaft Diameter:	Ø5 mm

- Compact and simple product sheet for quick quotation and selection.
- Detailed dimensions are shown on the last page.
- Performance curves are provided for 12 V and 24 V reference models.

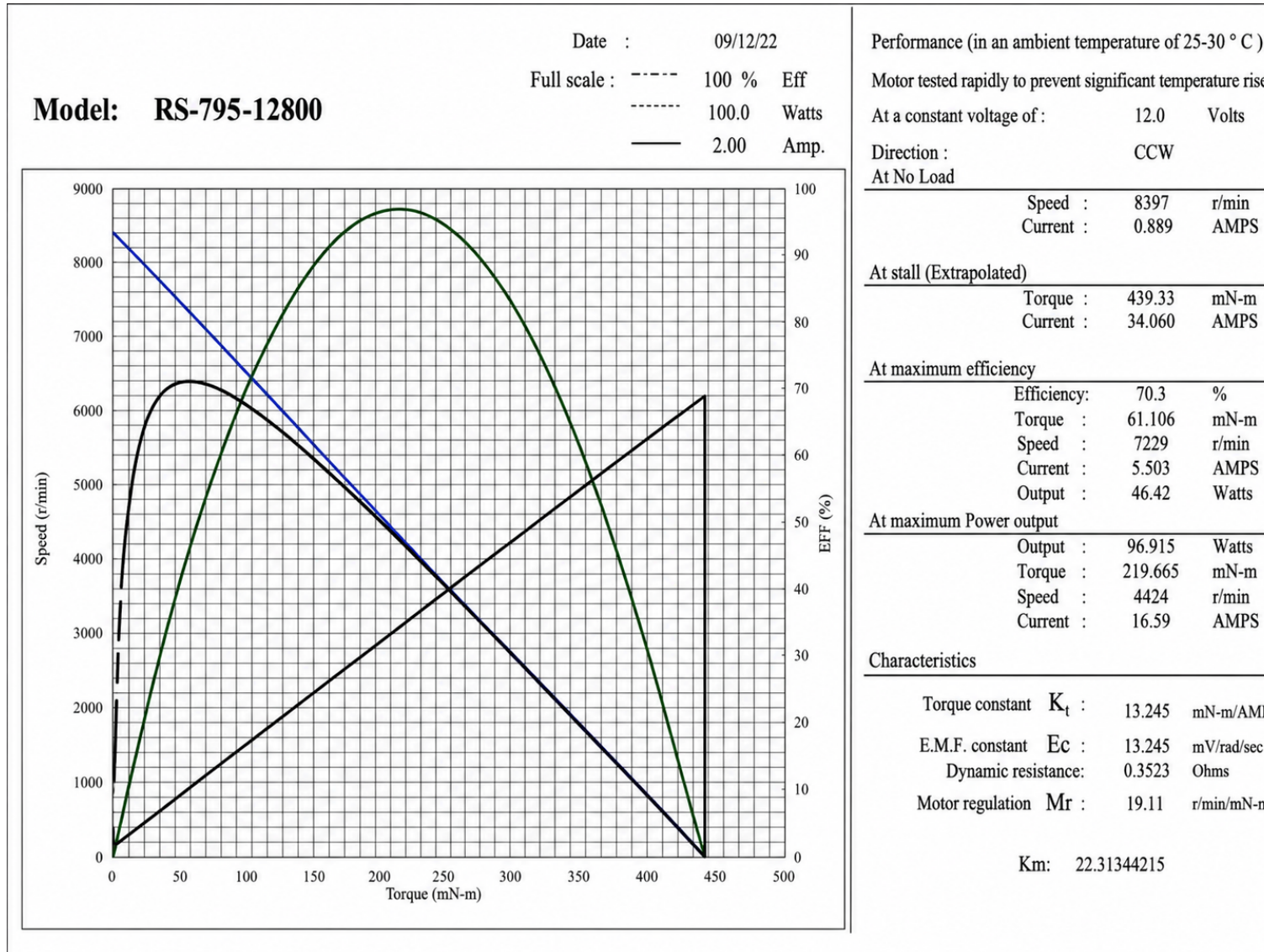
Motor Type	Permanent Magnet Brushed DC Motor
Application	General industrial / customized use

Performance Specifications

Motor Model	TSL-RS-795-12800	TSL-RS-795-24800
Operating Voltage Range	9.0-14.0V	14.5-26.0V
Rated Working Voltage	12V	24V
No-Load Speed (r/min)	8397	8131
No-Load Current (A)	0.889	0.392
Max Efficiency Speed (r/min)	7229	7173
Max Efficiency Current (A)	5.503	2.934
Max Efficiency Torque (g.cm)	623.11	723.06
Max Efficiency Output Power (W)	46.42	52.85
Max Power Speed (r/min)	4424	4213
Max Power Current (A)	16.59	10.78
Max Power Torque (g.cm)	2239.96	3067.07
Max Power Output (W)	96.915	127.060
Stall Torque (g.cm)	4479.92	6134.10
Stall Current (A)	34.060	21.954

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

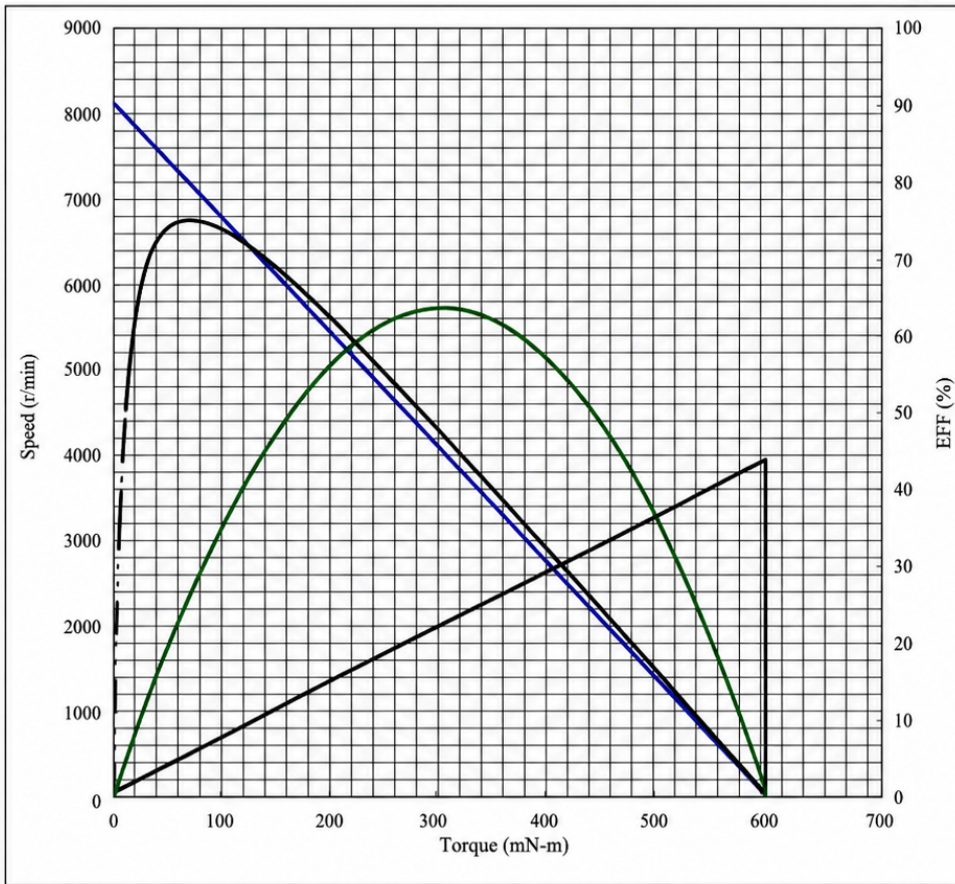
Performance Curve - 12 V



Performance Curve - 24 V

Model: RS-795-24800

Date : 09/12/22
 Full scale : ----- 100 % Eff
 ----- 200.0 Watts
 ----- 2.00 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 :	8131	r/min
Current :	0.392	AMPS

At stall (Extrapolated)

Torque :	601.55	mN-m
Current :	21.954	AMPS

At maximum efficiency

Efficiency:	75.1	%
Torque :	70.908	mN-m
Speed :	7173	r/min
Current :	2.934	AMPS
Output :	52.85	Watts

At maximum Power output

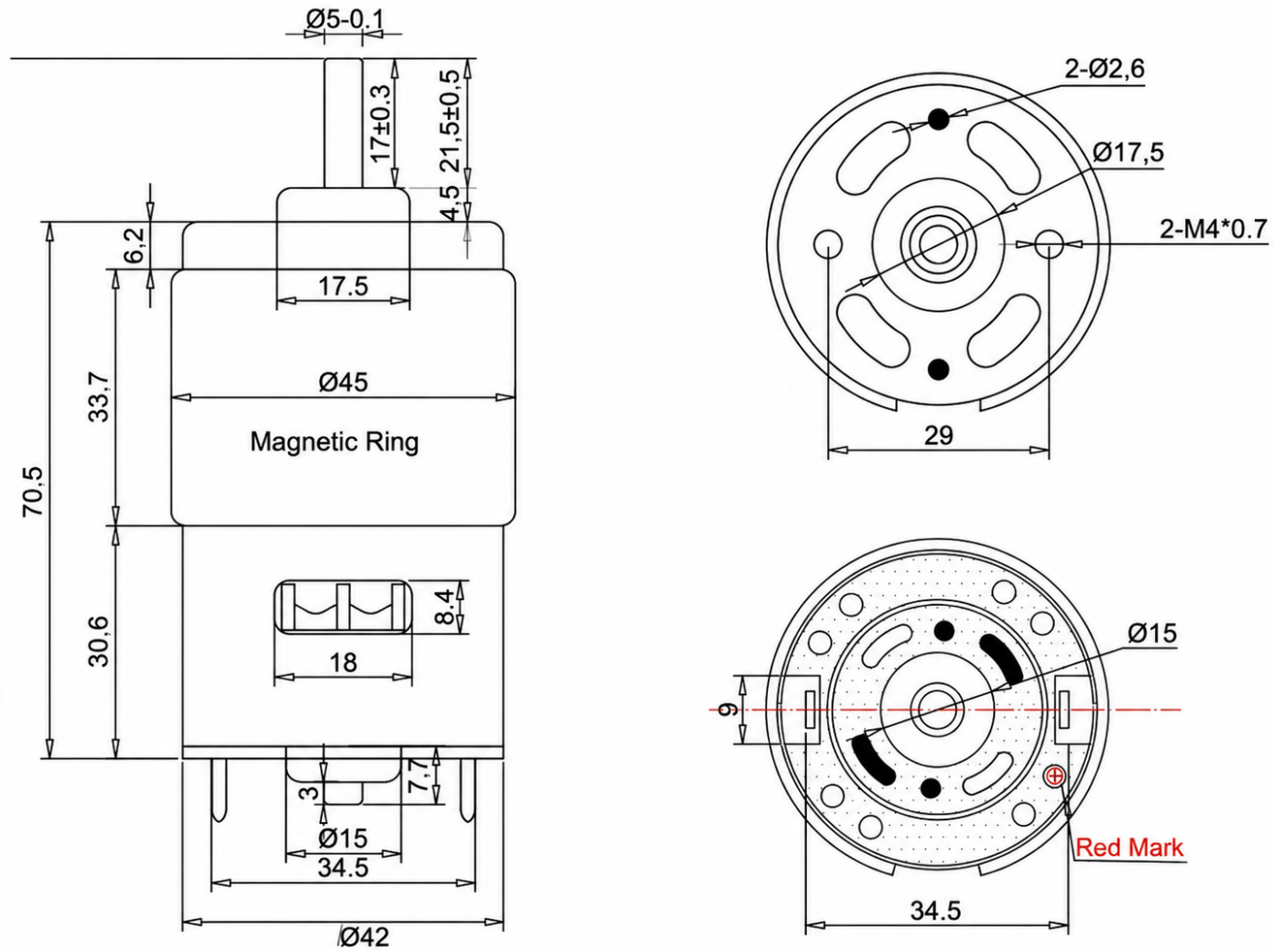
Output :	127.060	Watts
Torque :	300.777	mN-m
Speed :	4213	r/min
Current :	10.78	AMPS

Characteristics

Torque constant K_t :	27.899	mN-m/AMP
E.M.F. constant E_c :	27.899	mV/rad/sec
Dynamic resistance:	1.0932	Ohms
Motor regulation M_r :	13.52	r/min/mN-m

K_m : 26.68333539

Outline Dimensions



Dimension drawing shown for reference. Please confirm critical mounting dimensions before final order.