

# RS-370 Series DC Micro Motor

## Product Specification

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### TSL-RS370 Series | Brushed DC Motor

Specification sheets, outline drawings, performance curves, and parameter table

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Note: The parameters can be customized based on customer needs.

web: [micromotorpro.com](http://micromotorpro.com) store: [micronixmotor.com](http://micronixmotor.com) E-mail: [inquiry@micromotorpro.com](mailto:inquiry@micromotorpro.com) Tel: +86 18318138408

# Performance Parameter Table

RS-370 Series

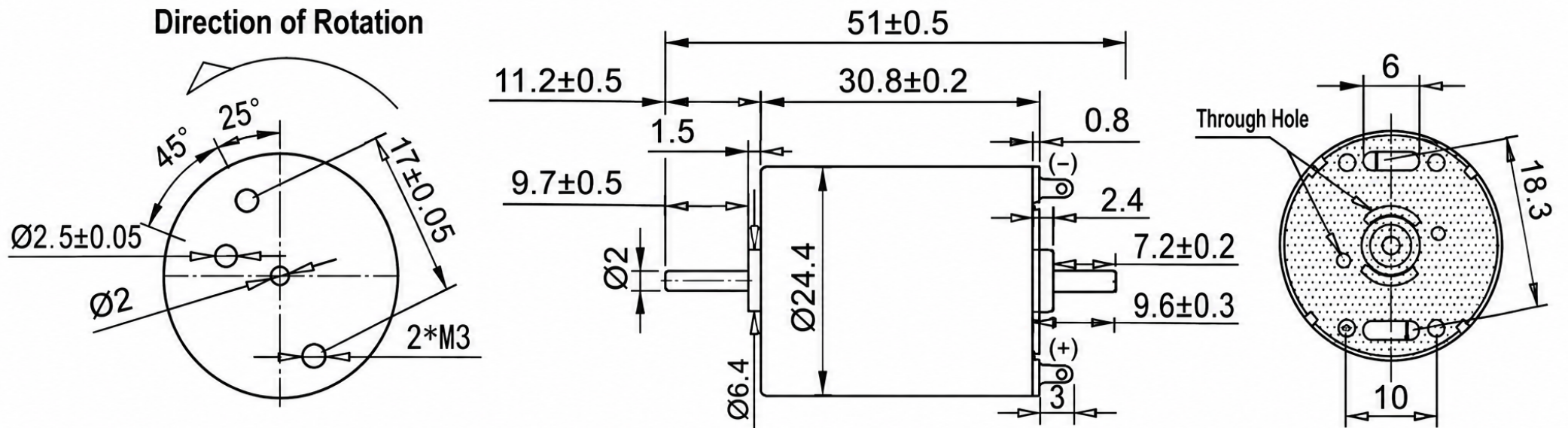
Model	Voltage		No-Load		AT Maximum Efficiency				AT Maximum Power				Stall	
	Operating Range	Nominal	Speed	Current	Speed	Current	Torque	Output	Speed	Current	Torque	Output	Torque	Current
			r/min	A	r/min	A	g.cm	W	r/min	A	g.cm	W	g.cm	A
RS-370-24122	3.0-6.0	6	6000	0.082	5302	0.438	31.18	1.73	3376	1.13	98.82	3.263	197.6	2.337
RS-370-68500	3.0-6.0	6	8500	0.158	7397	0.855	43.46	3.41	4693	2.23	139.26	6.467	278.5	4.622
RS-370-17234	9.0-14.0	12	6000	0.042	5090	0.235	39.3	1.38	3198	0.64	129	3.69	259.6	1.31
RS-370-12475	14.5-26.0	24	6000	0.025	5059	0.134	45.9	1.58	3215	0.35	146.5	4	293.1	0.723
RS-370-20175	9.0-14.0	12	8500	0.062	7371	0.405	43.6	2.38	4452	1.29	164.4	7.58	328.9	2.651
RS-370-14350	14.5-26.0	24	8500	0.04	7099	0.203	42.4	2.38	4595	0.49	128.61	5.69	257.2	1.027
RS-370-24117	9.0-14.0	12	10000	0.12	9951	0.583	42.3	3.43	6531	1.36	123.9	7.78	247.9	2.83

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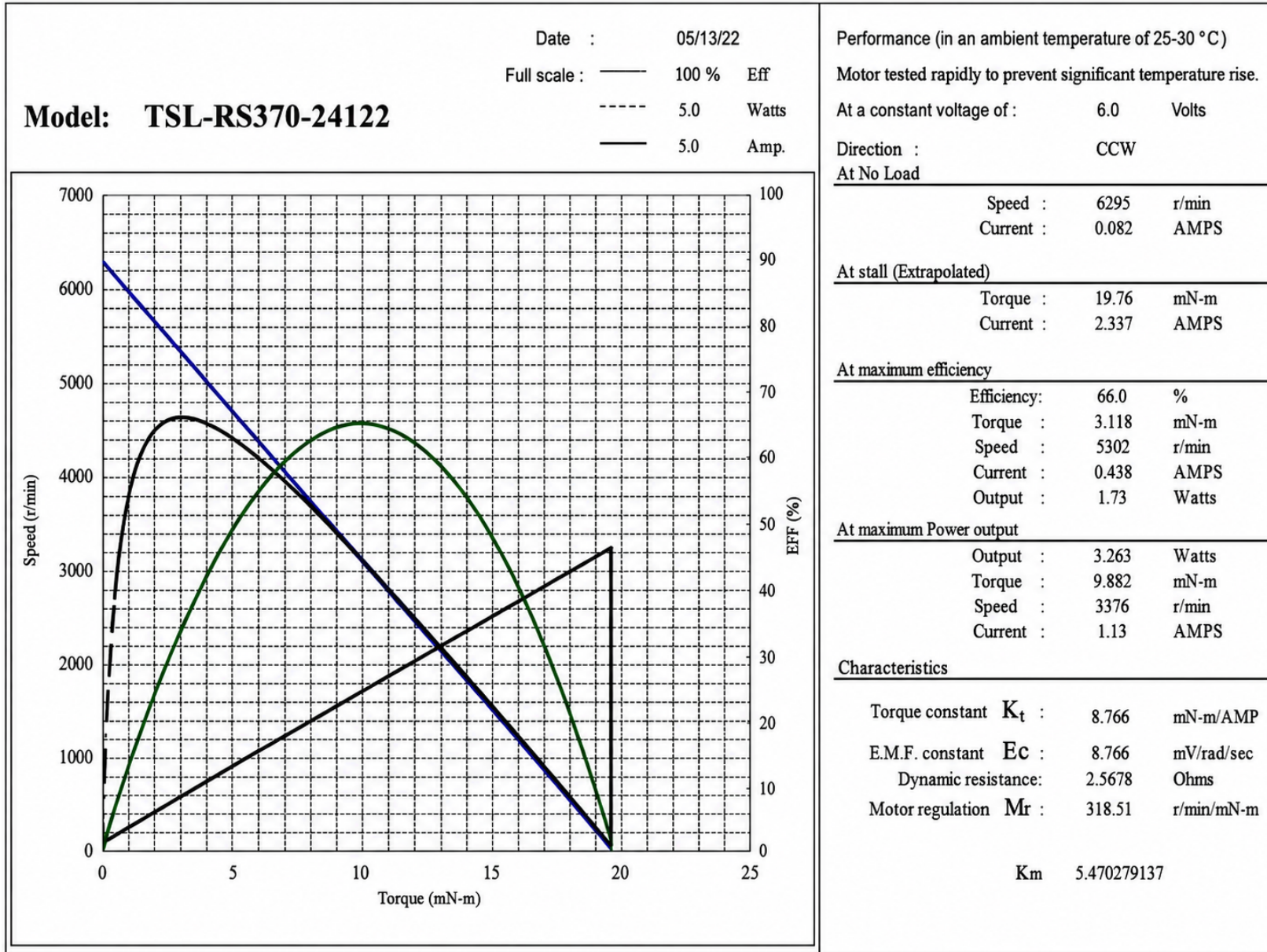


# Outline Drawing - Double Shaft



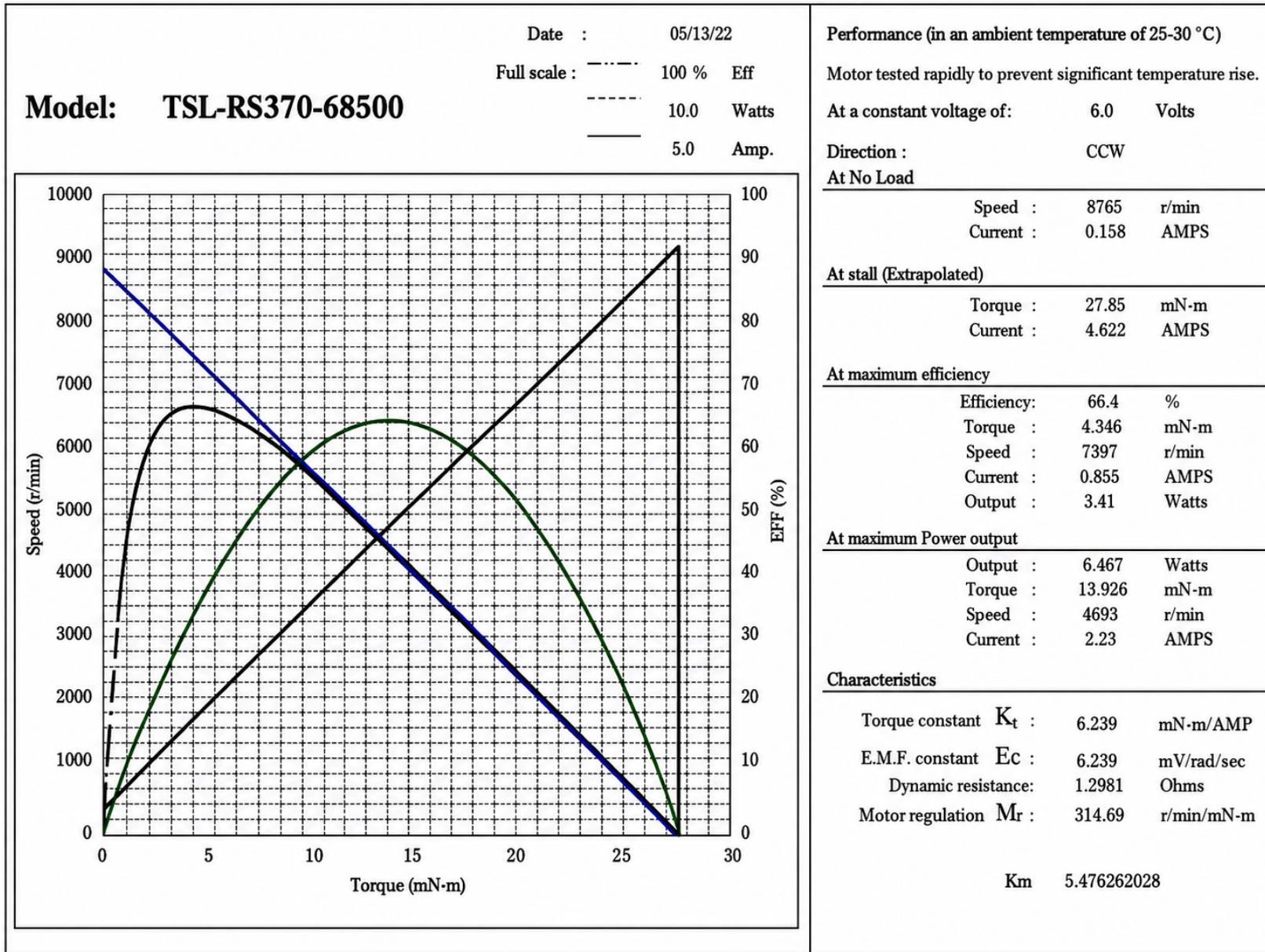
Note: The parameters can be customized based on customer needs.

# Performance Curve - TSL-RS370-24122



Note: The parameters can be customized based on customer needs.

# Performance Curve - TSL-RS370-68500



Note: The parameters can be customized based on customer needs.

# Performance Curve - TSL-RS370-20175

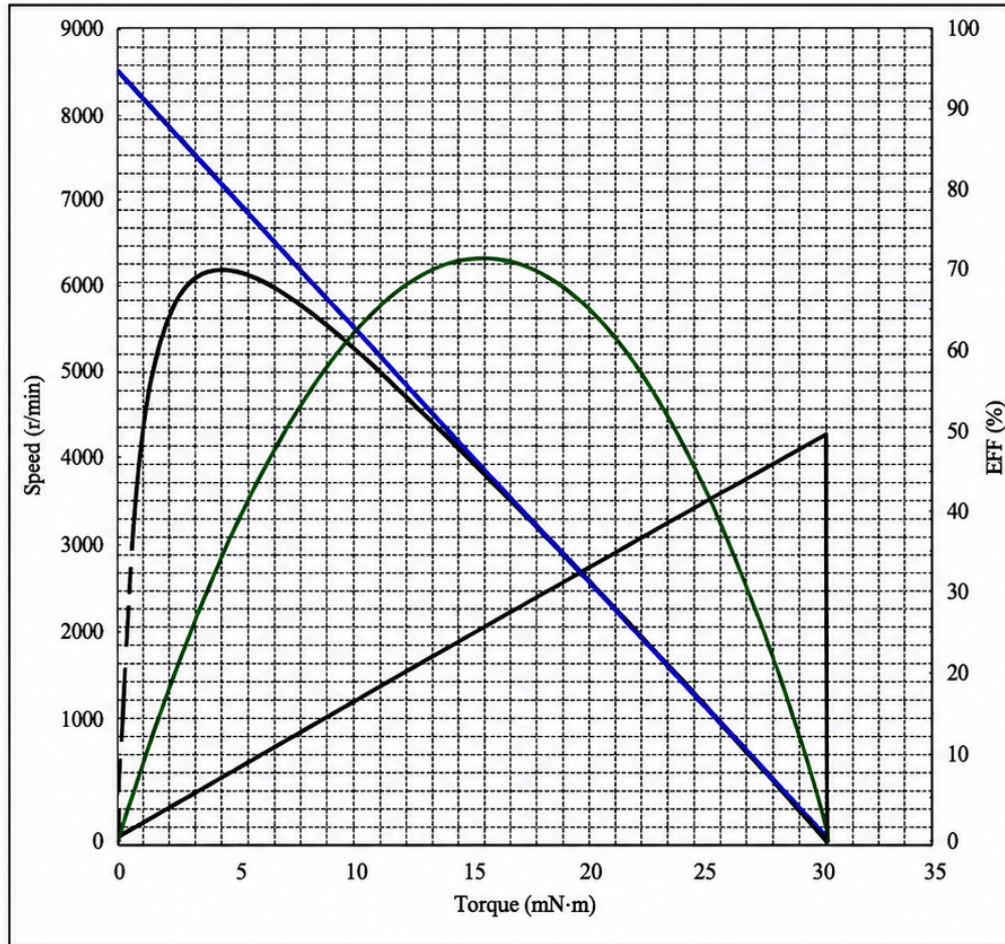
Date : 04/27/22

Full scale : ----- 100 % Eff

----- 10.0 Watts

————— 5.0 Amp.

**Model: TSL-RS370-20175**



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

Motor tested rapidly to prevent significant temperature rise.

At a constant voltage of: 12.0 Volts

Direction : CCW

At No Load

Speed : 8497 r/min

Current : 0.071 AMPS

At stall (Extrapolated)

Torque : 30.00 mN·m

Current : 2.458 AMPS

At maximum efficiency

Efficiency: 49.0 %

Torque : 4.357 mN·m

Speed : 7263 r/min

Current : 0.418 AMPS

Output : 2.46 Watts

At maximum Power output

Output : 6.955 Watts

Torque : 14.998 mN·m

Speed : 4501 r/min

Current : 1.19 AMPS

Characteristics

Torque constant  $K_t$  : 12.564 mN·m/AMP

E.M.F. constant  $E_c$  : 12.564 mV/rad/sec

Dynamic resistance: 4.8812 Ohms

Motor regulation  $M_r$  : 283.27 r/min/mN·m

$K_m$  5.686866248

Note: The parameters can be customized based on customer needs.