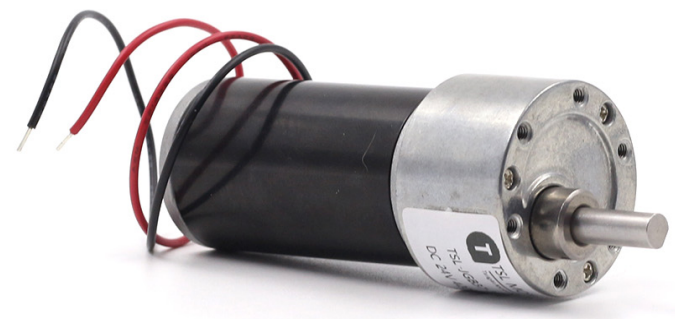


TSL-JGB37-31ZY

37 mm Brushed DC Motor with Spur Gearbox



Product Type	Brushed DC Motor with Spur Gearbox
Nominal Voltage	12 VDC / 24 VDC
Gear Ratios	6.25:1, 10:1, 18.8:1, 30:1, 56:1, 70:1, 90:1, 131:1, 169:1, 210:1, 270:1, 393:1, 506:1, 630:1, 810:1
Gearbox Diameter	Ø37 mm
Gearbox Length	19 / 22 / 24 / 26 / 29 mm (ratio-dependent)
Motor Body Length	56.6 mm
Output Shaft	Ø6 mm, D-shaped
Mounting Holes	6 x M3, depth 3.5 mm

Compact Ø37 mm Design

A compact cylindrical drive unit for industrial equipment, automation and electromechanical assemblies.

Fifteen Gear Ratios

Standard ratios from 6.25:1 to 810:1 cover a broad range of output speed and torque requirements.

OEM Customization

Voltage, shaft, terminals, wiring, ratio and performance can be customized for project requirements.

Performance Parameters - 12 VDC

Reduction Ratio	No-Load			Rated Load				Stall		Gearbox Length (mm)	Direction
	Rated Voltage (V)	Speed (RPM ± 10%)	Current (A)	Speed (RPM ± 10%)	Current (A)	Torque (kg·cm)	Power (W)	Torque (kg·cm)	Current (A)		
6.25	12	1270	0.33	1047	1.4	0.8	16.8	3.0	6.5	19	CW
10	12	800	0.33	660	1.4	1.2	16.8	5.0	6.5	19	CW
18.8	12	421	0.33	347	1.4	2.3	16.8	9.5	6.5	22	CCW
30	12	267	0.33	220	1.4	3.6	16.8	15.0	6.5	22	CCW
56	12	143	0.33	118	1.4	6.8	16.8	28.0	6.5	24	CW
70	12	114	0.33	94	1.4	8.5	16.8	35.0	6.5	24	CW
90	12	89	0.33	73	1.4	11.0	16.8	45.0	6.5	24	CW
131	12	61	0.33	50	1.4	15.0	16.8	65.0	6.5	26	CCW
169	12	47	0.33	39	1.4	18.0	16.8	84.0	6.5	26	CCW
210	12	38	0.33	31	1.4	23.0	16.8	105.0	6.5	26	CCW
270	12	30	0.33	24	1.4	30.0	16.8	135.0	6.5	26	CCW
393	12	20	0.33	17	1.4	40.0	16.8	196.0	6.5	29	CW
506	12	16	0.33	13	1.4	40.0	16.8	200.0	6.5	29	CW
630	12	13	0.33	10	1.4	40.0	16.8	200.0	6.5	29	CW
810	12	10	0.33	8	1.4	40.0	16.8	200.0	6.5	29	CW
Do not operate the motor at stall with reduction ratios of 169 or higher.											

Note: Performance parameters can be customized according to customer requirements. The values above are standard specifications.

Performance Parameters - 24 VDC

Reduction Ratio	No-Load			Rated Load				Stall		Gearbox Length (mm)	Direction
	Rated Voltage (V)	Speed (RPM ± 10%)	Current (A)	Speed (RPM ± 10%)	Current (A)	Torque (kg·cm)	Power (W)	Torque (kg·cm)	Current (A)		
6.25	24	1270	0.15	1047	0.7	0.8	16.8	3.0	4.4	19	CW
10	24	800	0.15	660	0.7	1.2	16.8	5.0	4.4	19	CW
18.8	24	421	0.15	347	0.7	2.3	16.8	10.0	4.4	22	CCW
30	24	267	0.15	220	0.7	3.6	16.8	15.0	4.4	22	CCW
56	24	143	0.15	118	0.7	6.8	16.8	29.0	4.4	24	CW
70	24	114	0.15	94	0.7	8.5	16.8	36.0	4.4	24	CW
90	24	89	0.15	73	0.7	11.0	16.8	47.0	4.4	24	CW
131	24	61	0.15	50	0.7	15.0	16.8	68.0	4.4	26	CCW
169	24	47	0.15	39	0.7	18.0	16.8	87.0	4.4	26	CCW
210	24	38	0.15	31	0.7	23.0	16.8	110.0	4.4	26	CCW
270	24	30	0.15	24	0.7	30.0	16.8	141.0	4.4	26	CCW
393	24	20	0.15	17	0.7	40.0	16.8	200.0	4.4	29	CW
506	24	16	0.15	13	0.7	40.0	16.8	200.0	4.4	29	CW
630	24	13	0.15	10	0.7	40.0	16.8	200.0	4.4	29	CW
810	24	10	0.15	8	0.7	40.0	16.8	200.0	4.4	29	CW

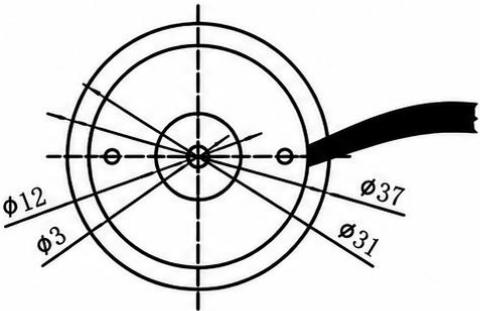
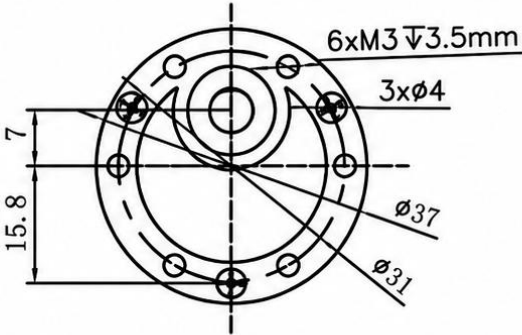
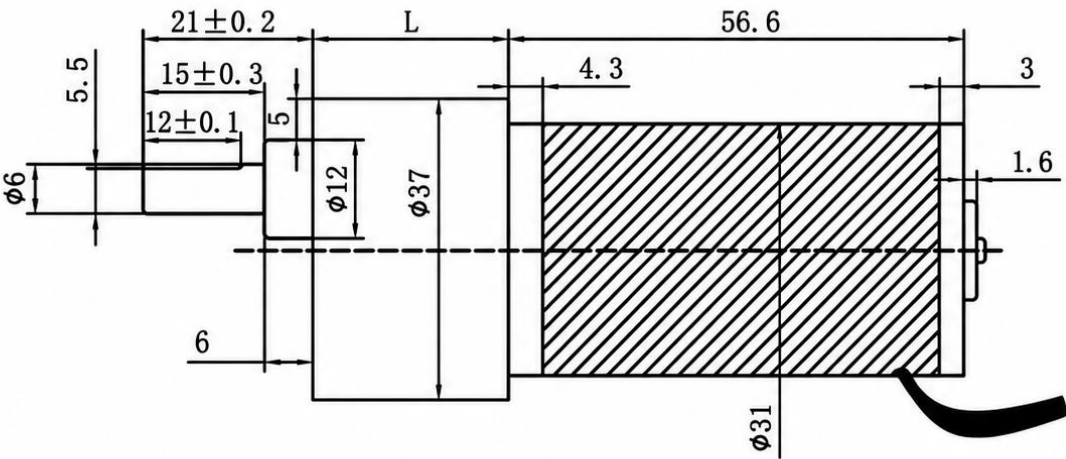
Do not operate the motor at stall with reduction ratios of 169 or higher.

Note: Performance parameters can be customized according to customer requirements. The values above are standard specifications.

Mechanical Dimensions

All dimensions are in millimetres.

L Value Represents Housing Length for Different Gear Ratios															
Gear Ratio	6.25	10	18.8	30	56	70	90	131	168	210	270	393	506	630	810
L Dimension (mm)	19		22		24			26.50				29			



Item	Dimension
Gearbox diameter	Ø37 mm
Motor body length	56.6 mm
Gearbox length L	19 to 29 mm
Output shaft	Ø6 mm, D-shaped
Shaft protrusion	21 ± 0.2 mm
Shaft flat width	5.5 mm
Mounting holes	6 x M3, depth 3.5 mm

The dimension drawing is for reference only. Output shaft, mounting details, terminal configuration and performance can be customized according to customer requirements.