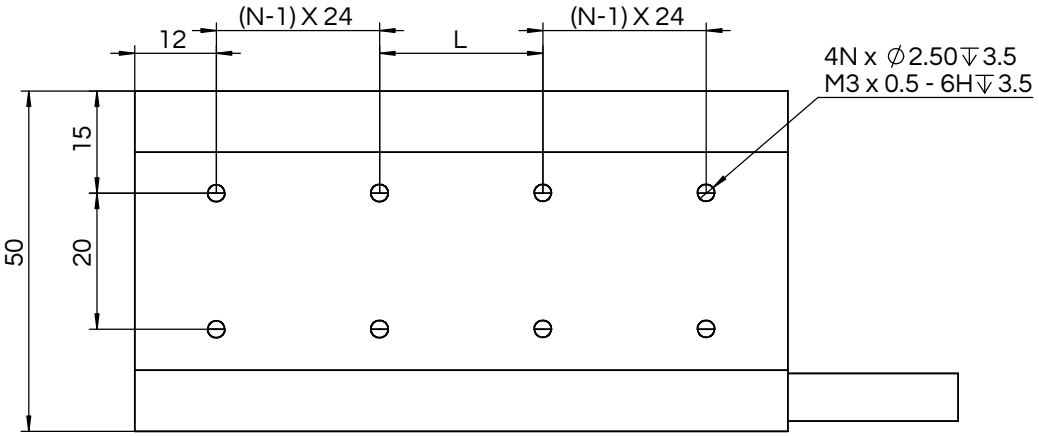
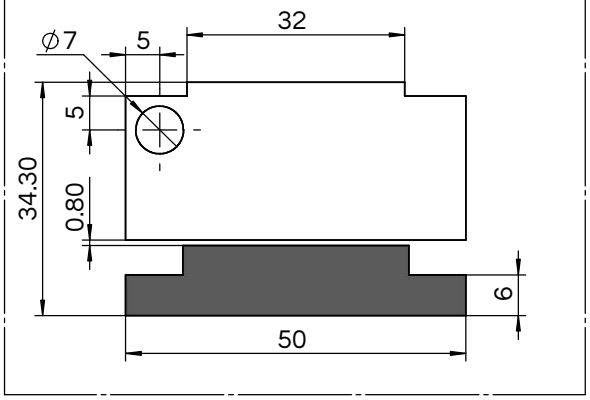




Motor Assembly



Forcer	Dimensional Variations		
	L	L_1	N
TJM50-S2	24	96	2
TJM50-S4	56	176	3

Technical data	Unit	TJM50-S2 Series	TJM50-S4 Parallel
Peak force	N	219	465
Continuous force	N	73	155
Motor constant at T_max	N/Sqrt(w)	8.9	13.4
Winding code	-	S2	S4
Peak current	Arms	9	18
Continuous current	Arms	2.3	4.6
Maximum continuous power dissipation	W	66.6	133.3
Resistance	Ω	6.3	3.2
Inductance	mH	24.8	12.4
Back EMF constant	Vpeak/(m/s), L-L	25.7	27.3
Force constant	N/Arms	31.7	33.7
Electrical time constant	ms	3.9	3.9
Max. DC bus voltage	V	600	600
Attraction force	kN	0.38	0.76
Magnetic period	mm	20	20
Weight of forcer	kg	0.6	1.1
Length of forcer	mm	96	176
Unit mass of stator	kg/m	3.3	3.3
Stator length	mm	80/200/400	
Insulation class	-	B	
Protection class	-	IP56	
Operating temperature	°C	0 to 60	
Storage temperature	°C	-15 to 70	

Note:
1.Specifications are measured at an ambient temperature of 25°C and depend on the heat dissipation conditions.
2.Resistance is measured with DC current and includes a standard cable length of 0.5 m.
3.Inductance is measured at a frequency of 1 kHz.
4.Specifications are subject to change without prior notice.
5.Standard cable lengths: 0.5 m and 3 m. Custom lengths on request.

Wiring Definition	Installation Instructions	Maintenance Instructions

ITEM	DATE	MODIFIED	DESCRIPTION	APPD

SCALE	UNIT		Model	TJM50-S2/S4	
1:X	mm		Desc	Forcer unit	
GENERAL TOLERANCE			Surface		DRN Tang
Up to 6	6 30	30 120	120 300	300 600	DWG.NO		CHK Chen
±0.1	±0.2	±0.3	±0.4	±0.5	Sheet	1-1	APPD Le
TKOOLLE MOTION CONTROL INTERNATIONAL CO.,LIMITED					DATE	17-Jul-25	