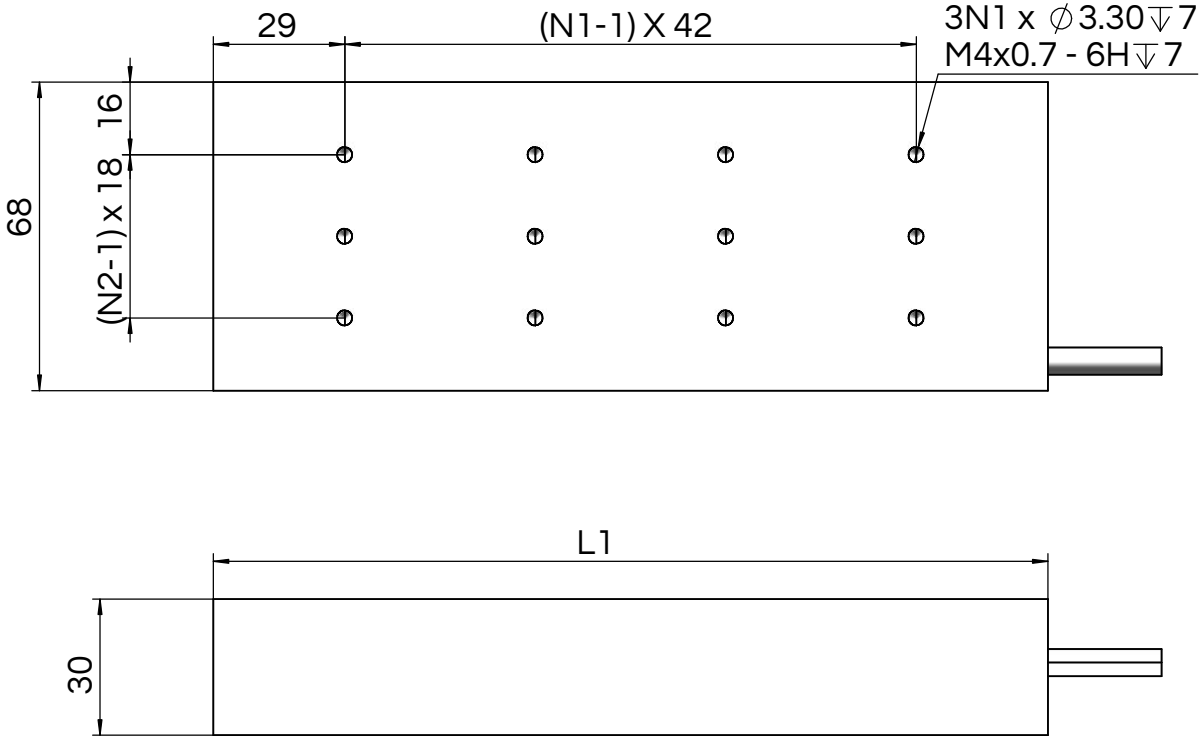
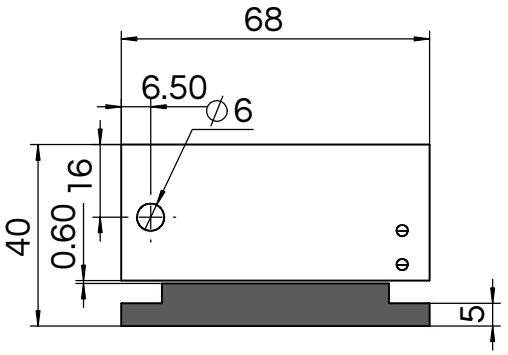


Motor Assembly



Forcer	Dimensional Variations		
	L_1	N_1	N_2
TPM68-S1	100	2	3
TPM68-S2	184	4	3
TPM68-S3	268	6	3

Technical data	Unit	TPM68-S1		TPM68-S2	TPM68-S3
		Series	Parallel	Parallel	Parallel
Peak force	N	369.6	369.6	738	1112.7
Continuous force	N	123.2	123.2	246	370.9
Motor constant at T_max	N/Sqrt(w)	117	11.7	16.6	19.9
Winding code	-	S1	S1	S2	S3
Peak current	Arms	9	18	18	18
Continuous current	Arms	2.3	4.6	4.6	4.6
Maximum continuous power dissipation	W	111.1	110	220	346.9
Resistance	Ω	10.5	2.6	5.2	8.2
Inductance	mH	45	11.3	22	34
Back EMF constant	Vpeak/(m/s), L-L	42.9	21.4	42.8	64.5
Force constant	N/Arms	53.6	26.8	53.5	80.6
Electrical time constant	ms	4.3	4.3	4.2	4.1
Max. DC bus voltage	V	330	330	330	330
Attraction force	kN	0.7	0.7	1.4	2.1
Magnetic period	mm	24	24	24	24
Weight of forcer	kg	1	1	1.89	2.78
Length of forcer	mm	100	100	184	268
Unit mass of stator	kg/m	4	4	4	4
Stator length	mm	96/144/288			
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

TKL	SCALE	UNIT					Model	TPM68-S1/S2/S3			
	1:X	mm					Desc	Forcer unit			
	GENERAL TOLERANCE						Surface			DRN	Tang
	Up to 6	6 to 30	30 to 120	120 to 300	300 to 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	