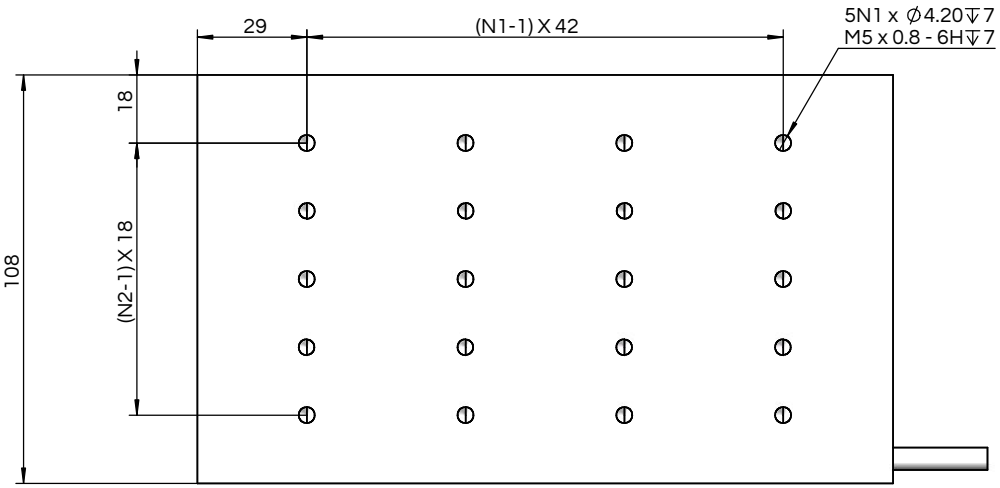
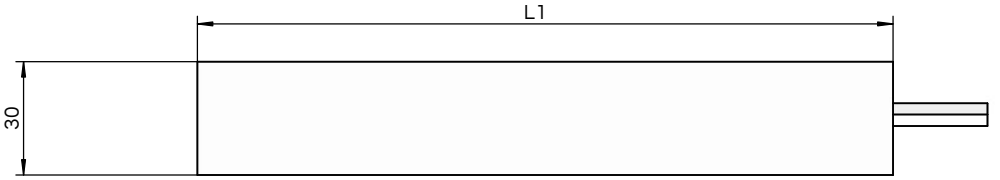
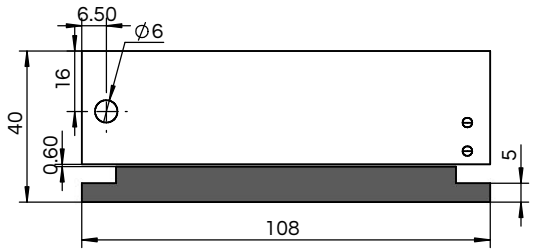




Motor Assembly



Forcer	Dimensional Variations		
	L_1	N_1	N_2
TPM108-S1	100	2	5
TPM108-S2	184	4	5
TPM108-S3	268	6	5

Technical data	Unit	TPM108-S1		TPM108-S2	TPM108-S3
		Series	Parallel	Parallel	Parallel
Peak force	N	740.10	740.10	1452	2,130.00
Continuous force	N	246.70	246.70	484	710.00
Motor constant at T_max	N/Sqrt(w)	27.50	27.50	25.1	30.00
Winding code	-	S1	S1	S2	S3
Peak current	Arms	9.00	18.00	18	24.00
Continuous current	Arms	2.30	4.60	4.6	6.90
Maximum continuous power dissipation	W	80.50	186.20	372.3	561.60
Resistance	Ω	17.50	4.40	8.8	5.90
Inductance	mH	76.00	19.00	38	27.00
Back EMF constant	Vpeak/(m/s), L-L	85.80	42.90	84.2	82.30
Force constant	N/Arms	107.30	53.60	105.2	102.90
Electrical time constant	ms	4.30	4.30	4.3	4.60
Max. DC bus voltage	V	330.00	330.00	330	330.00
Attraction force	kN	1.10	1.18	2.2	3.30
Magnetic period	mm	24.00	24.00	24	24.00
Weight of forcer	kg	1.69	1.69	3.18	4.75
Length of forcer	mm	100.00	100.00	184	268.00
Unit mass of stator	kg/m	6.60	6.60	6.60	6.60
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	TPM108-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		