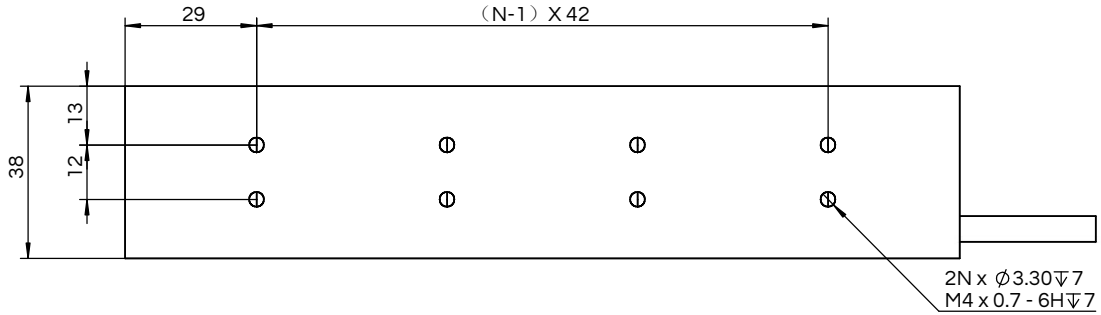
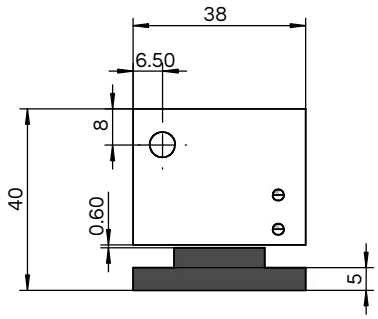




Motor Assembly



Forcer	Dimensional Variations	
	L_1	N
TPM38-S1	100	2
TPM38-S2	184	4

Technical data	Unit	TPM38-S1 Series	TPM38-S2 Series
Peak force	N	123.9	258.9
Continuous force	N	41.3	86.3
Motor constant at T_max	N/Sqrt(w)	5.4	7.9
Winding code	-	S1	S2
Peak current	Arms	9	9
Continuous current	Arms	2.3	2.3
Maximum continuous power dissipation	W	59.2	118.5
Resistance	Ω	5.6	11.2
Inductance	mH	21	42
Back EMF constant	Vpeak/(m/s), L-L	14.4	30
Force constant	N/Arms	18	37.5
Electrical time constant	ms	3.8	3.8
Max. DC bus voltage	V	330	330
Attraction force	kN	0.2	0.4
Magnetic period	mm	24	24
Weight of forcer	kg	0.49	0.92
Length of forcer	mm	100	184
Unit mass of stator	kg/m	2	2
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

SCALE	UNIT		Model	TPM38-S1/S2	
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	