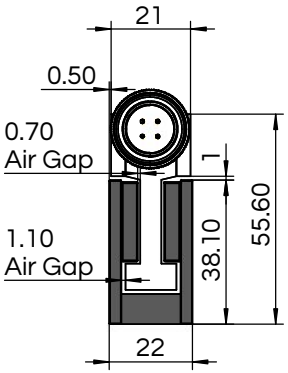
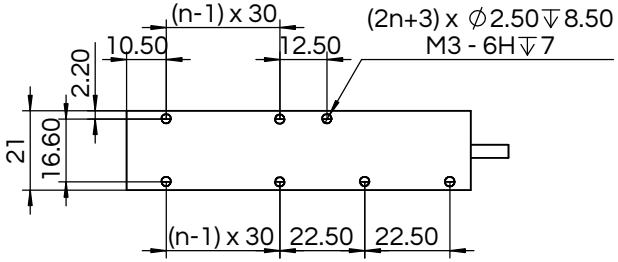
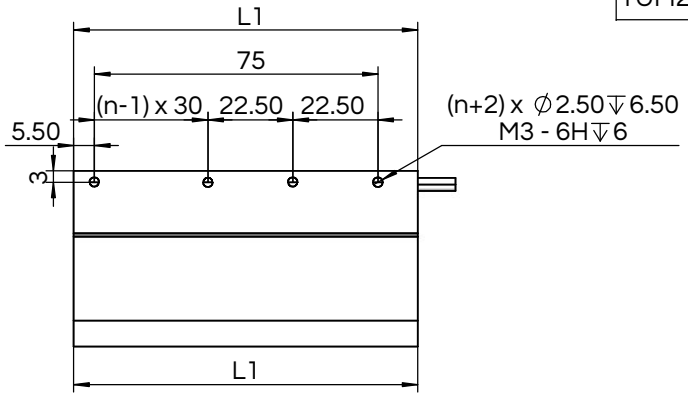


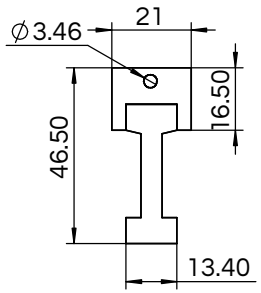
Motor Assembly





Forcer	Dimensional Variations	
	L_1	n
TUM2-S4	121	3
TUM2-S6	181	5
TUM2-S8	241	7





Technical data	Unit	TUM2-S4		TUM2-S6	TUM2-S8
		Series	Parallel	Parallel	Parallel
Continuous force	N	38	38	57	76
Peak force	N	190	190	285	380
Force constant ±10%	N/Arms	23.8	11.9	17.8	23.8
Back EMF constant	Vpeak/(m/s)	19.5	9.7	14.6	19.5
Motor constant at 25°C	N/Sqrt(w)	4.8	4.8	7.1	8.2
Resistance at 25°C	Ω	12	3	4.5	6
Inductance ±35%	mH	2.8	0.7	1.06	1.4
Electrical time constant	ms	0.2	0.2	0.2	0.2
Continuous current at 100°C	Arms	1.6	3.2	3.2	3.2
Peak current	Arms	8	16	14.9	15.7
Continuous power dissipation at 100°C	W	61.4	61.4	65.2	86.9
Max. winding temperature	°C	100	100	100	100
Thermal dissipation constant	W/°C	0.8	0.8	0.9	1.1
Max. DC bus voltage	V	310	310	310	310
Magnetic period	mm	30	30	30	30
Attraction force	kN	0	0	0	0
Weight of forcer	kg	0.24	0.24	0.36	0.48
Length of forcer	mm	121	121	181	241
Unit mass of stator	kg/m	3.93	3.93	3.93	3.93
Insulation class	-	B			
Protection class	-	IP00			
Operating temperature	°C	0 to 45			
Storage temperature	°C	-15 to 75			

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	TUM2-S4/S6/S8				
	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			