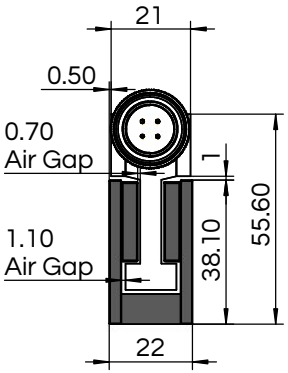
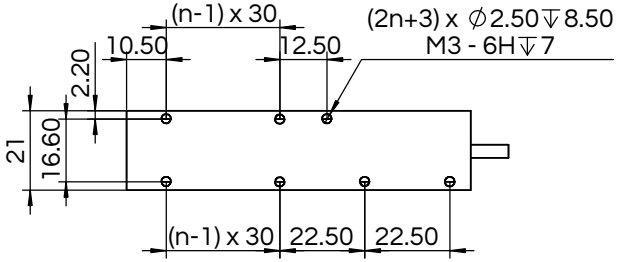
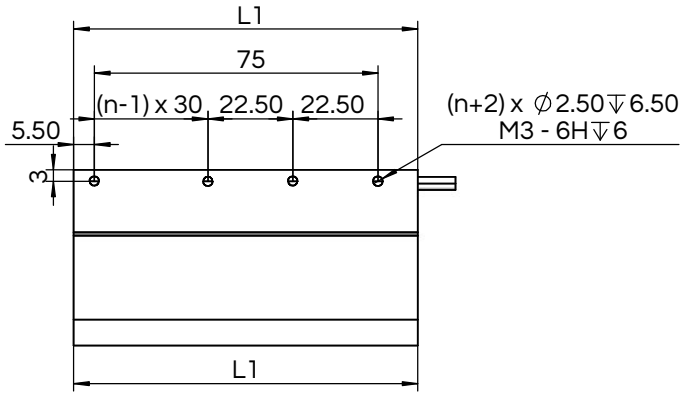


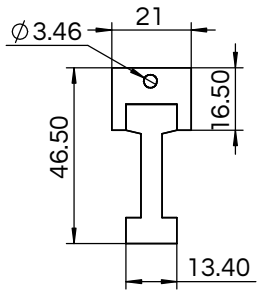
Motor Assembly





Forcer	Dimensional Variations	
	L_1	n
TUM2-S2	61	1
TUM2-S3	91	2





Technical data	Unit	TUM2-S2		TUM2-S3	
		Series	Parallel	Series	Parallel
Continuous force	N	19	19	28.5	28.5
Peak force	N	95	95	142.5	142.5
Force constant ±10%	N/Arms	11.9	5.9	17.8	8.9
Back EMF constant	Vpeak/(m/s)	9.7	4.9	14.6	7.3
Motor constant at 25°C	N/Sqrt(w)	3.4	3.4	4.2	4.2
Resistance at 25°C	Ω	6	1.5	9	2.25
Inductance ±35%	mH	1.4	0.35	2.1	0.53
Electrical time constant	ms	0.2	0.2	0.2	0.2
Continuous current at 100°C	Arms	1.6	3.2	1.6	3.2
Peak current	Arms	8	16	8	16
Continuous power dissipation at 100°C	W	30.7	30.7	46.1	46.1
Max. winding temperature	°C	100	100	100	100
Thermal dissipation constant	W/°C	0.4	0.4	0.6	0.6
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	0.12	0.12	0.18	0.18
Length of forcer	mm	61	61	91	91
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-S2/S3					
	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			