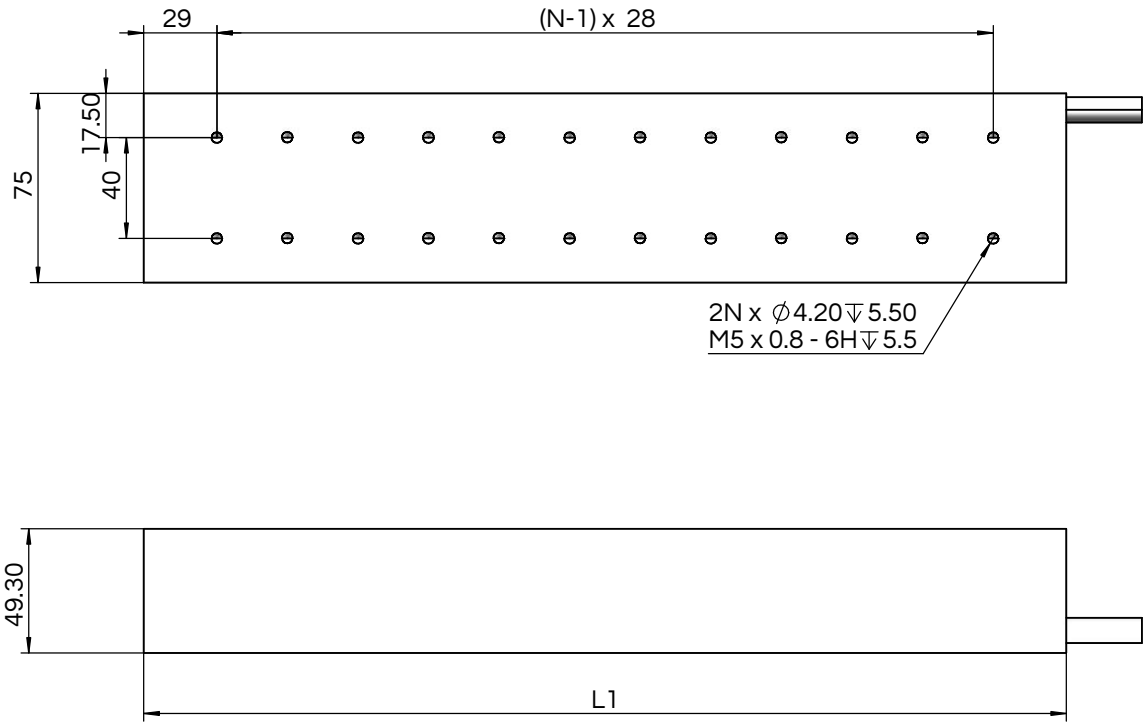
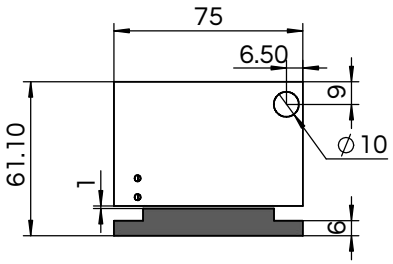


Motor Assembly



Forcer	Dimensional Variations	
	L_1	N
TKM75-S1	114	3
TKM75-S2	198	6
TKM75-S4	366	12
TKM75-S6	534	18

Wiring Definition	Installation Instructions	Maintenance Instructions

Technical data	Unit	TKM75-S1 Series	TKM75-S2 Series	TKM75-S4 Parallel	TKM75-S6 Parallel
Peak force	N	489.1	934.1	1823.8	2601.5
Continuous force	N	222.3	424.6	829	1182.5
Motor constant at T_max	N/Sqrt(w)	21.1	28.6	39.4	49.8
Winding code	-	S1	S2	S4	S6
Peak current	Arms	14.4	14.4	28.8	43.2
Continuous current	Arms	4.8	4.8	9.6	13.7
Maximum continuous power dissipation	W	110.6	221.1	442.2	562.9
Resistance	Ω	2.4	4.8	2.4	1.5
Inductance	mH	44	88	44	27.7
Back EMF constant	Vpeak/(m/s), L-L	37.5	71.7	69.9	69.9
Force constant	N/Arms	46.3	88.5	86.4	86.3
Electrical time constant	ms	18.3	18.3	18.3	18.5
Max. DC bus voltage	V	600	600	600	600
Attraction force	kN	0.7	1.3	2.7	4.2
Magnetic period	mm	42	42	42	42
Weight of forcer	kg	2.35	3.95	7.3	11.7
Length of forcer	mm	114	198	366	534
Unit mass of stator	kg/m	4.8	4.8	4.8	4.8
Stator length	mm	168/252/420			
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.

ITEM	DATE	MODIFIED	DESCRIPTION	APPD

TKL	SCALE	UNIT					Model	TKM75-S1/S2/S4/S6					
	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		