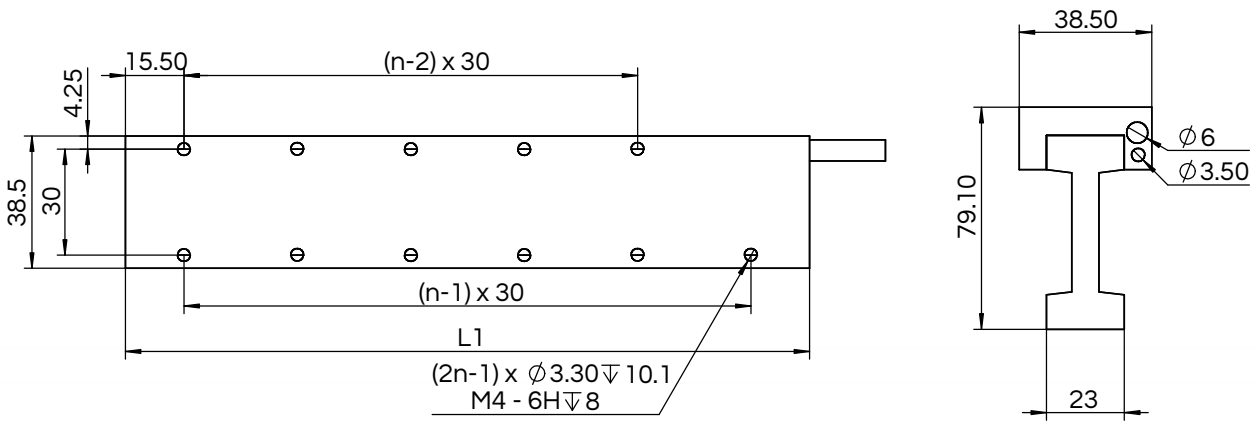
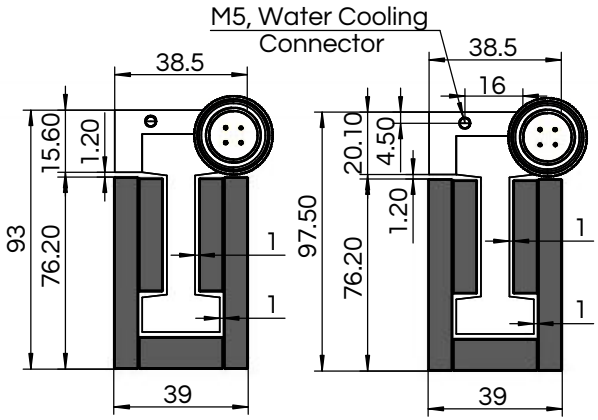


Motor Assembly



Forcer	Dimensional Variations	
	L_1	n
TUM4-S4	241	8
TUM4-S5	301	10

Technical data	Unit	TUM4-S4		TUM4-S5	
		Series	Parallel	Series	Parallel
Continuous force	N	269.4	269.4	336.8	336.8
Continuous force (Water-cooled)	N	310.8	310.8	388.6	388.6
Peak force	N	1347	1347	1683.8	1683.8
Force constant ±10%	N/Arms	103.6	51.8	129.5	64.8
Back EMF constant	Vpeak/(m/s)	85	42.5	106.2	53.1
Motor constant at 25°C	N/Sqrt(w)	19	19	41.5	24.7
Resistance at 25°C	Ω	14.9	3.7	4.9	4.9
Inductance ±35%	mH	13.1	3.3	4	4
Electrical time constant	ms	0.9	0.9	0.8	0.8
Continuous current	Arms	2.6	5.2	2.6	5.2
Continuous current (Water-cooled)	Arms	3	6	3	6
Peak current	Arms	13	26	26	26
Continuous power dissipation at 100°C	W	201.4	200.1	65.7	185.8
Max. winding temperature	°C	100	100	100	100
Thermal dissipation constant	W/°C	2.4	2.4	0.8	2.2
Max. DC bus voltage	V	310	310	310	310
Magnetic period	mm	60	60	60	60
Attraction force	kN	0	0	0	0
Weight of forcer	kg	1.15	1.15	1.45	1.45
Length of forcer	mm	241	241	301	301
Unit mass of stator	kg/m	15	15	15	15
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

TKL	SCALE	UNIT		Model	TUM4-S4/S5										
	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							