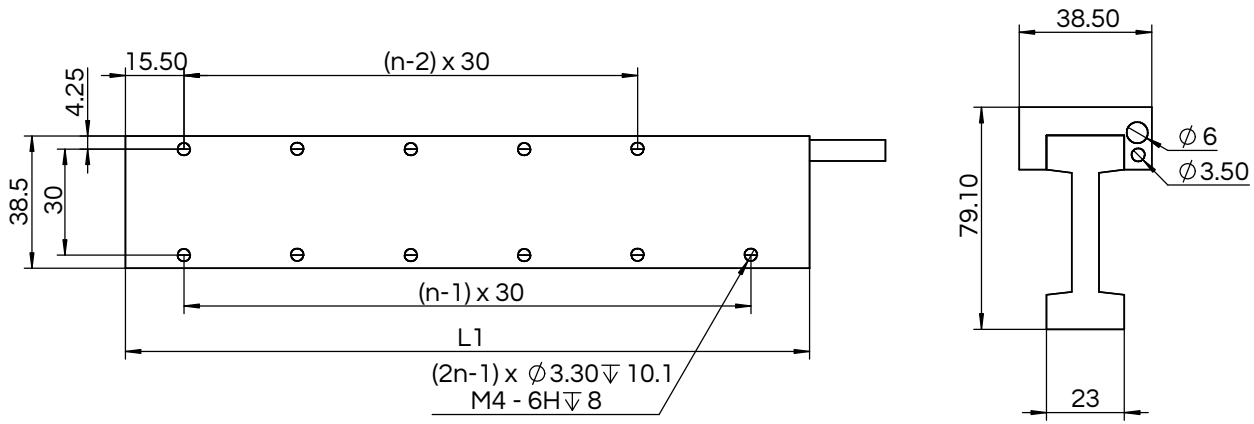
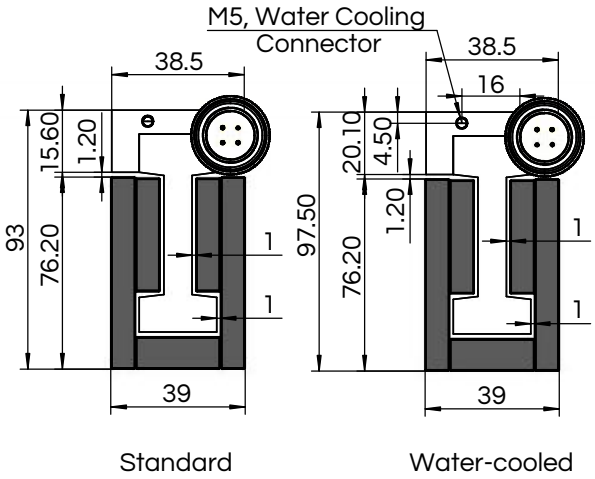


Motor Assembly



Forcer	Dimensional Variations	
	L_1	n
TUM4-S6	361	12
TUM4-S8	481	16

Technical data	Unit	TUM4-S6 Parallel	TUM4-S8 Parallel
Continuous force	N	404.1	538.8
Continuous force (Water-cooled)	N	466.3	621.6
Peak force	N	2020.5	2693.8
Force constant ±10%	N/Arms	77.7	103.6
Back EMF constant	Vpeak/(m/s)	63.7	85
Motor constant at 25°C	N/Sqrt(w)	22.8	26.4
Resistance at 25°C	Ω	5.8	7.7
Inductance ±35%	mH	4.9	6.5
Electrical time constant	ms	0.8	0.8
Continuous current	Arms	5.2	5.2
Continuous current (Water-cooled)	Arms	6	6
Peak current	Arms	26	26
Continuous power dissipation at 100°C	W	313.7	416.4
Max. winding temperature	°C	100	100
Thermal dissipation constant	W/°C	3.7	4.9
Max. DC bus voltage	V	310	310
Magnetic period	mm	60	60
Attraction force	kN	0	0
Weight of forcer	kg	1.72	2.3
Length of forcer	mm	361	481
Unit mass of stator	kg/m	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

SCALE	UNIT		Model	TUM4-S6/S8	
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