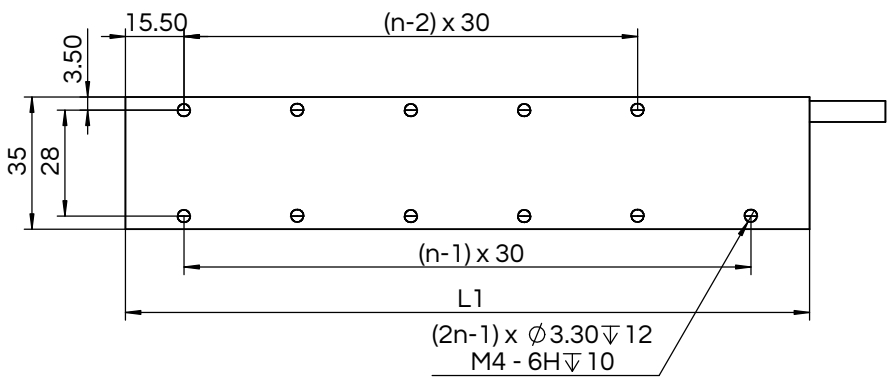
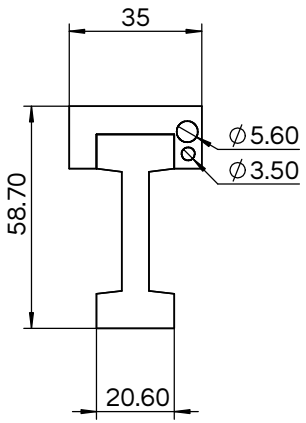
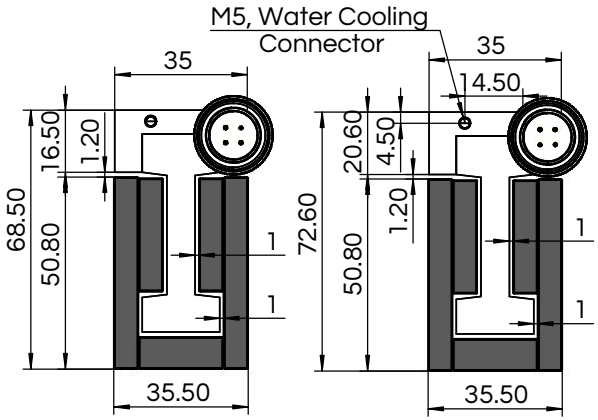




Technical data	Unit	TUM3-S1 Series	TUM3-S2 Series	TUM3-S3 Series
Continuous force	N	29.9	59.7	89.5
Continuous force（Water-cooled)	N	38.2	76.3	114.4
Peak force	N	152.5	304.5	456.5
Force constant ±10%	N/Arms	16.6	33.2	49.7
Back EMF constant	Vpeak/(m/s)	13.6	27.2	40.8
Motor constant at 25°C	N/Sqrt(w)	5.5	8	9.8
Resistance at 25°C	Ω	4.6	8.7	12.9
Inductance ±35%	mH	3.2	6.2	9.2
Electrical time constant	ms	0.7	0.7	0.7
Continuous current	Arms	1.8	1.8	1.8
Continuous current（Water-cooled）	Arms	2.3	2.3	2.3
Peak current	Arms	9.4	9.4	9.4
Continuous power dissipation at 100°C	W	29.5	56.2	83.4
Max. winding temperature	°C	100	100	100
Thermal dissipation constant	W/°C	0.4	0.7	1.1
Max. DC bus voltage	V	310	310	310
Magnetic period	mm	60	60	60
Attraction force	kN	0	0	0
Weight of forcer	kg	0.24	0.45	0.66
Length of forcer	mm	61	121	181
Unit mass of stator	kg/m	8.9	8.9	8.9
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.

Motor Assembly



Forcer	Dimensional Variations	
	L_1	n
TUM3-S1	61	2
TUM3-S2	121	4
TUM3-S3	181	6

Wiring Definition	Installation Instructions	Maintenance Instructions

ITEM	DATE	MODIFIED	DESCRIPTION	APPD

	SCALE	UNIT							Model	TUM3-S1/S2/S3					
	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				