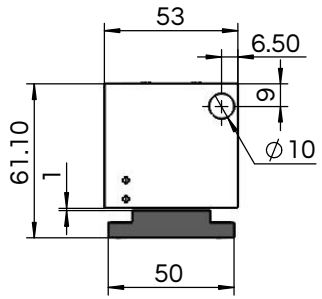


Technical data	Unit	TKM50-S1 Series	TKM50-S2 Series	TKM50-S4 Parallel
Peak force	N	288.4	551.8	1103.5
Continuous force	N	131.1	250.8	501.6
Motor constant at T_max	N/Sqrt(w)	14.8	20	28.3
Winding code	-	S1	S2	S4
Peak current	Arms	14.4	14.4	28.8
Continuous current	Arms	4.8	4.8	9.6
Maximum continuous power dissipation	W	78.3	156.6	313.2
Resistance	Ω	1.7	3.4	1.7
Inductance	mH	29	58.3	29
Back EMF constant	Vpeak/(m/s), L-L	22.1	42.3	42.3
Force constant	N/Arms	27.3	52.3	52.3
Electrical time constant	ms	17.1	17.1	17.1
Max. DC bus voltage	V	600	600	600
Attraction force	kN	0.4	0.8	1.6
Magnetic period	mm	42	42	42
Weight of forcer	kg	1.65	2.75	5
Length of forcer	mm	114	198	366
Unit mass of stator	kg/m	2.6	2.6	2.6
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.

Motor Assembly



Forcer	Dimensional Variations	
	L_1	N
TKM50-S1	114	3
TKM50-S2	198	6
TKM50-S4	366	12

Wiring Definition	Installation Instructions	Maintenance Instructions

ITEM	DATE	MODIFIED	DESCRIPTION	APPD

	SCALE	UNIT		Model	TKM50-S1/S2/S4		
TKL	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		