LMT6Q

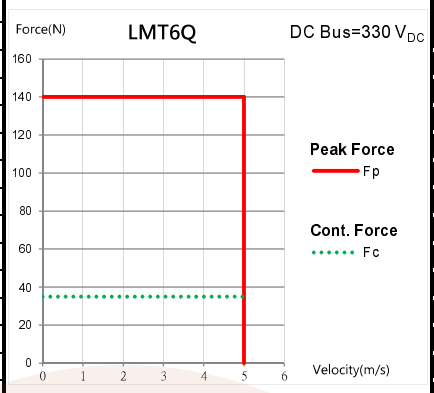
Electrical specifications

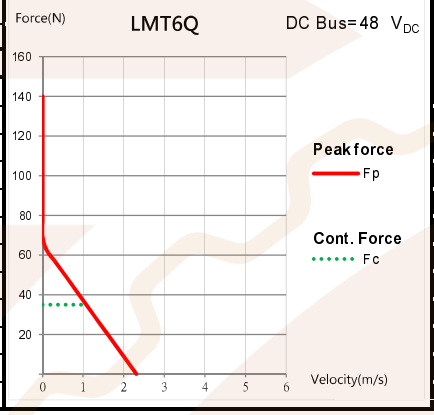
	Symbol	Unit	Free air convection
Continuous force	F_c	N	35
Continuous current	I_c	Arms	1.3
Peak force (for 1sec.)	F_p	N	140
Peak current (for 1sec.)	I_p	Arms	5.2
Force constant	K_f	N/Arms	26.8
Electrical time constant	K_e	ms	0.4
Resistance (line to line at 25℃)	R_{25}	Ω	14.5
Inductance (line to line)	L	mH	5.7
Pole pair pitch	2τ	mm	60
B	$_v$		13.2
Motor constant (at 25℃)	K_m	N/√W	5.8
Thermal resistance	R_{th}	℃/W	1.80
Thermal sensor	-	-	PTC Thermistor
Max. DC BUS	-	V	330
Max. winding temp.	-	℃	110
Minimun bending radius of cable	-	mm	46.5

Mechanical specifications

	Symbol	Unit	Free air convection
Mass of forcer	M_f	kg	0.34
Unit mass of stator	M_s	kg/m	1.4
Air Gap	G	mm	0.5
Length of Forcer	L_f	mm	140
Width of Forcer	B	mm	30
Inner Diameter of Forcer	D1	mm	17
Mounting Pitch	PxP1	mm	N/A
Mounting Pitch	P2xP3	mm	130x16
Mounting Pitch	P4xP5	mm	N/A
Diameter of Stator	D	mm	16±0.2
Stroke	S	mm	100~1050 (every 50 pitch)

F-V curve



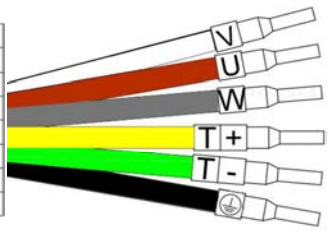


Connector /Wiring type

Wiring Type

Cabling: LAPP 0028892
Diameter:6.2mm
PTC Thermistor: EPCOS/ B59100-M1090-A70

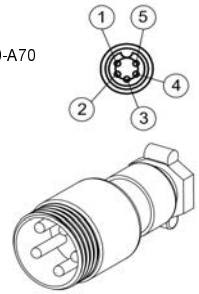
WIRING DIAGRAM	
Signal	Cable
V	White
U	Brown
W	Gray
GND	Shielding
Thermal+	Yellow
Thermal-	Green



Connector Type

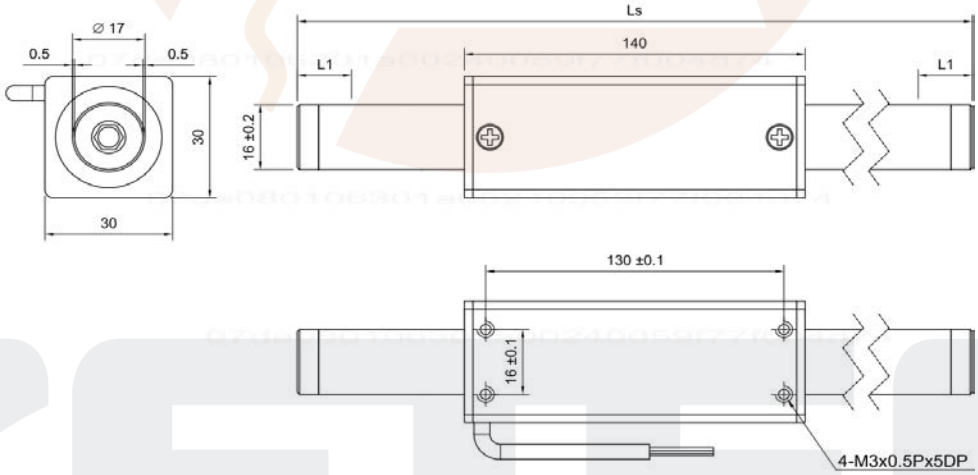
Cabling: LAPP 0028892
Diameter:6.2mm
PTC Thermistor: EPCOS/ B59100-M1090-A70

WIRING DIAGRAM		
Connector	Signal	Cable
1	V	White
2	U	Brown
3	W	Gray
Case	GND	Shielding
4	Thermal+	Yellow
5	Thermal-	Green



Motor Model	LMT6Q		
Stroke S (mm)	50~350	400~800	850~1050
Clamping Length L_1 (mm)	25	40	60

※Ls (Length of Stator) = S (Stroke) + Lf (Length of Forcer) + 2*L1 (Clamping Length)



Except dimensions, all the specifications in the table are in ±10% of tolerance.