HIWIN MIKROSYSTEM CORP.

LMT8Q

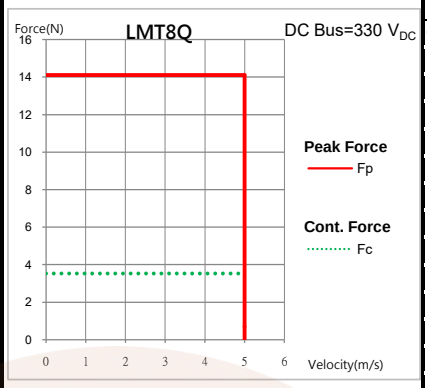
Electrical specifications

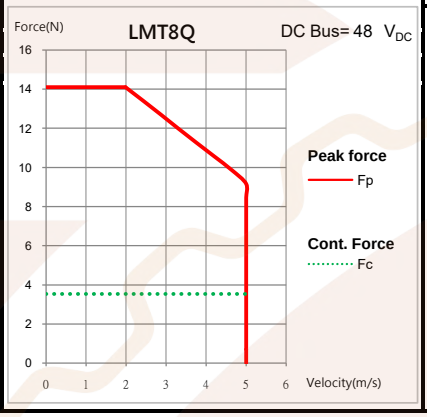
	Symbol	Unit	Free air convection
Continuous force	F_c	N	3.52
Continuous current	I_c	Arms	0.8
Peak force (for 1sec.)	F_p	N	14.1
Peak current (for 1sec.)	I_p	Arms	3.2
Force constant	K_f	N/Arms	4.4
Electrical time constant	K_e	ms	0.13
Resistance (line to line at 25℃)	R_{25}	Ω	9
Inductance (line to line)	L	mH	1.2
Pole pair pitch	2τ	mm	30
Back emf constant (line to line)	K_v	Vrms/m/s	2.8
Motor constant (at 25℃)	K_m	N/√W	1.2
Thermal resistance	R_{th}	℃/W	8.34
Thermal sensor	-	-	PTC Thermistor
Max. DC BUS	-	V	330
Max. winding temp.	-	℃	120
Minimun bending radius of cable	-	mm	37.5

Mechanical specifications

	Symbol	Unit	Free air convection
Mass of forcer	M_f	kg	0.09
Unit mass of stator	M_s	kg/m	0.37
Air Gap	G	mm	0.5
Length of Forcer	L_f	mm	70
Width of Forcer	B	mm	20
Inner Diameter of Forcer	D1	mm	9
Mounting Pitch	PxP1	mm	N/A
Mounting Pitch	P2xP3	mm	64x10
Mounting Pitch	P4xP5	mm	N/A
Diameter of Stator	D	mm	8
Stroke	S	mm	25,50,100,150,200

F-V curve



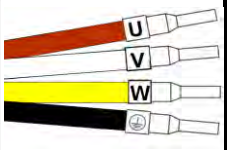


Wiring type

Wiring Type

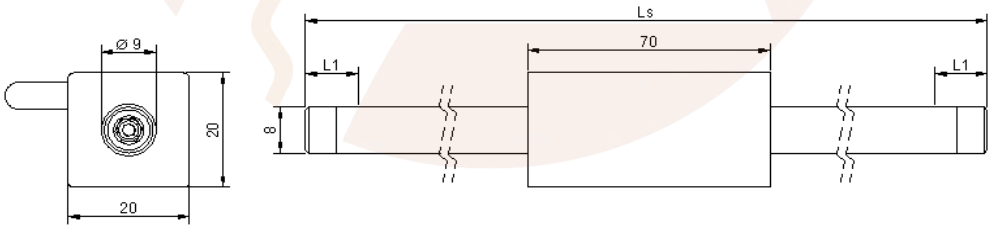
Cabling:Axon Cable ET2807
Diameter:2.95mm

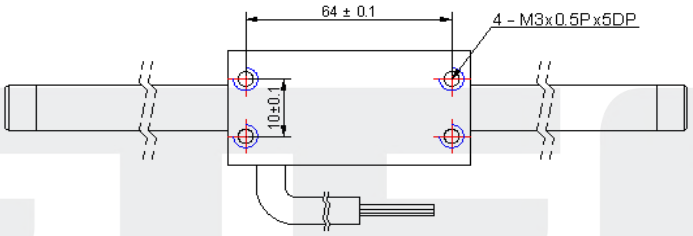
WIRING DIAGRAM	
Signal	Cable
V	White
U	Brown
W	Yellow
GND	Shielding



Motor Model	LMT8Q
Stroke S (mm)	25,50,100,150,200
Clamping Length L_1 (mm)	10

※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.

Version:	1.01
Date:	2015/12/07