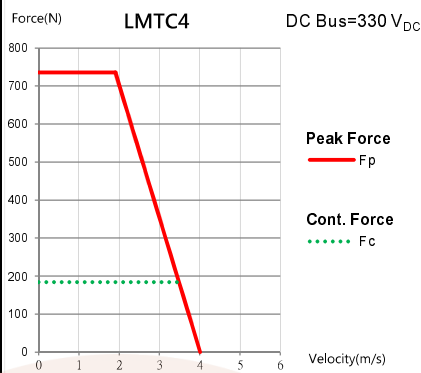


LMTC4

Electrical specifications

	Symbol	Unit	Free air convection
Continuous force	F_c	N	184
Continuous current	I_c	Amps	2.4
Peak force (for 1sec.)	F_p	N	736
Peak current (for 1sec.)	I_p	Amps	9.6
Force constant	K_f	N/Arms	77
Electrical time constant	K_e	ms	1
Resistance (line to line at 25°C)	R_{25}	Ω	12.4
Inductance (line to line)	L	mH	14.7
Pole pair pitch	2 τ	mm	120
B	v		49.2
Motor constant (at 25°C)	K_m	N/√W	17.8
Thermal resistance	R_{th}	°C/W	0.56
Thermal sensor	-	-	PTC Thermistor
Max. DC BUS	-	V	330
Max. winding temp.	-	°C	100
Minimum bending radius of cable	-	mm	37.5

F-V curve



Connector /Wiring type

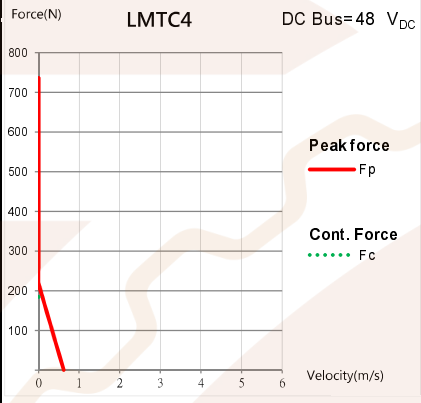
Wiring Type

Cabling: IGUS CF 10.05.05
Diameter: 7.5mm
PTC Thermistor: EPCOS/ B59100-M1090-A70

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

Mechanical specifications

	Symbol	Unit	Free air convection
Mass of forcer	M_f	kg	2.8
Unit mass of stator	M_s	kg/m	6.4
Air Gap	G	mm	1
Length of Forcer	L_f	mm	280
Width of Forcer	B	mm	60
Inner Diameter of Forcer	D1	mm	37
Mounting Pitch	PxP1	mm	120x48
Mounting Pitch	P2xP3	mm	260x30
Mounting Pitch	P4xP5	mm	N/A
Diameter of Stator	D	mm	35±0.2
Stroke	S	mm	100~2000 (every 50 pitch)



Connector Type

Cabling: IGUS CF 10.05.05
Diameter: 7.5mm
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	LMTC4		
Stroke S (mm)	100~750	800~1500	1550~2000
Clamping Length L ₁ (mm)	50	70	100

※L_s (Length of Stator) = S (Stroke) + L_f (Length of Forcer) + 2*L₁ (Clamping Length)

