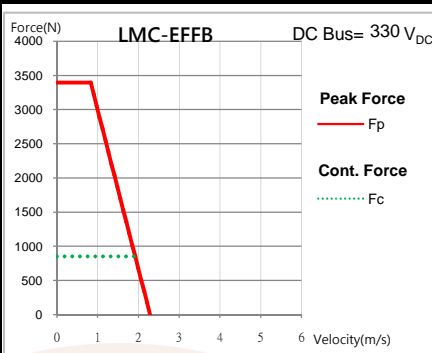


LMC-EFFB

Electrical specifications

	Symbol	Unit	Free air convection
Continuous force	F_c	N	849
Continuous current	I_c	Arms	5.7
Peak force (for 1sec.)	F_p	N	3394
Peak current (for 1sec.)	I_p	Arms	22.6
Force constant	K_f	N/Arms	150.2
Electrical time constant	K_e	ms	1.5
Resistance (line to line at 25°C)	R_{25}	Ω	6.4
Inductance (line to line)	L	mH	9.6
Pole pair pitch	2τ	mm	60
Back emf constant (line to line)	K_v	Vrms/m/s	86.7
Motor constant (at 25°C)	K_m	N/√W	48.6
Thermal resistance	R_{th}	°C/W	0.24
Thermal sensor	-	-	3 PTC 120°C in series
Max. DC BUS	-	V	330

F-V curve



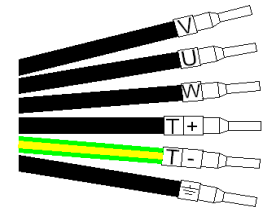
Connector /Wiring type

Wiring Type

Cabling : IGUS CF10.07.05
Diameter : 7.5mm
PTC Sensor: 3 PTC 120°C in series

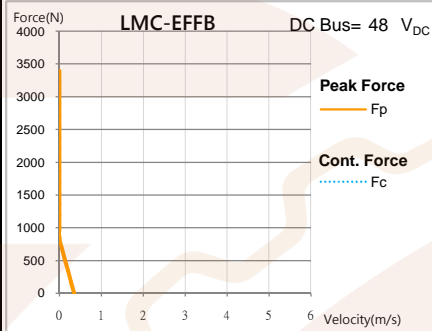
WIRING DIAGRAM

Signal	Cable
V	1
U	2
W	3
GND	Shielding
Thermal+	4
Thermal-	YellowGreen



Mechanical specifications

	Symbol	Unit	Free air convection
Mass of forcer	M_f	kg	7.3
Unit mass of stator	M_s	kg/m	24.7
Length of forcer / Dimension n	L_f	mm	661/21
Height of forcer	h	mm	104.8
Height of stator	H_s	mm	100
Width of stator	W_s	mm	50
Length of stator / Dimension N	L_s	mm	120/2,180/3,300/5
Total height	H	mm	122

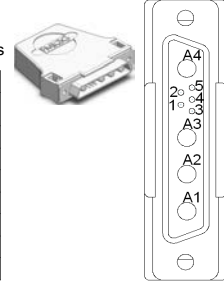


Connector Type

Cabling : IGUS CF10.07.05
Diameter : 7.5mm
PTC Sensor: 3 PTC 120°C in series

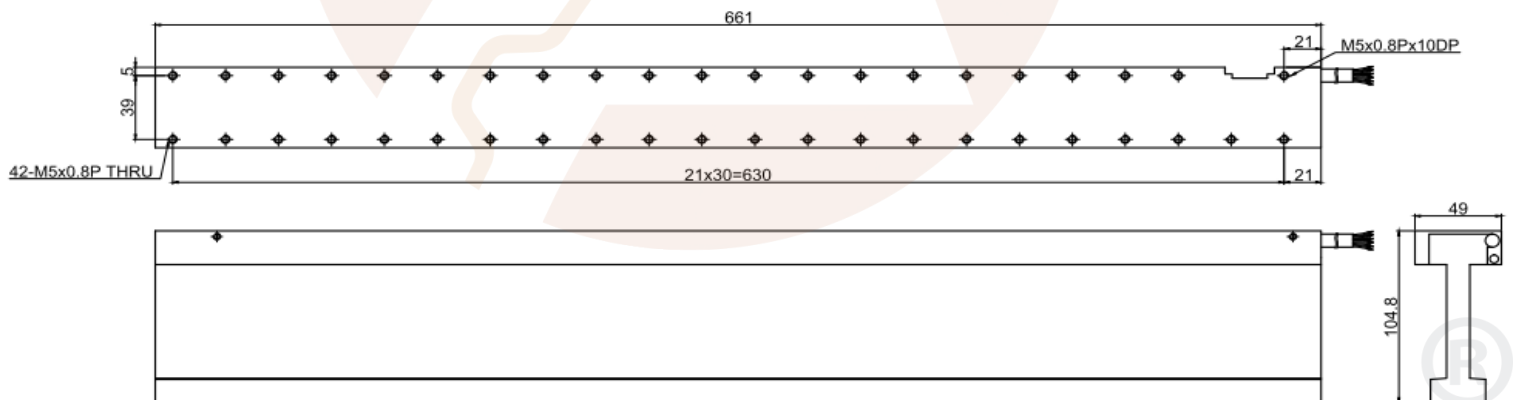
Wiring Diagram

Connector	Signal	CABLE
A1	V	1
A2	U	2
A3	W	3
A4	GND	Shielding
1	Thermal+	4
3	Thermal-	YellowGreen
Case	GND	Shielding

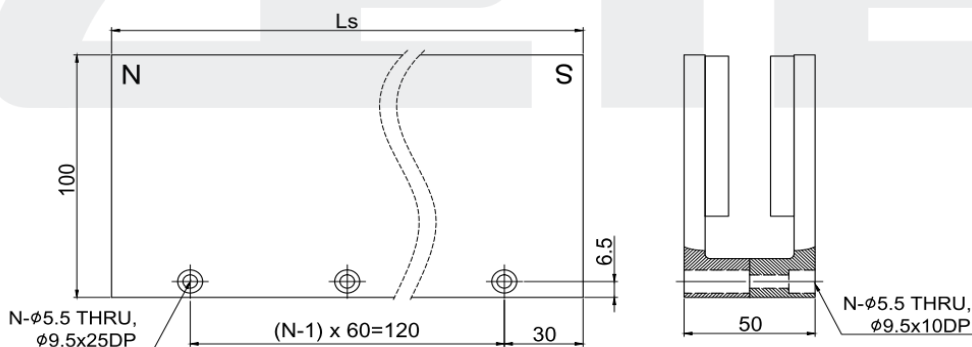


Dimensions for linear motor LMC-EFFB forcer

Moving Direction(+) →

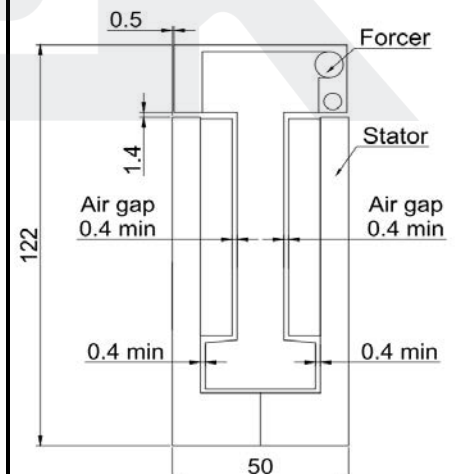


Dimensions for linear motor LMC-EFF stator



TYPE	LMC-EFFS1	LMC-EFFSB	LMC-EFFS2
Ls/N	120/2	180/3	300/5

Installing linear motors LMC-EFF series



Except dimensions, all the specifications in the table are in $\pm 10\%$ of tolerance.

Version: 1.01

Date: 2015/06/12