

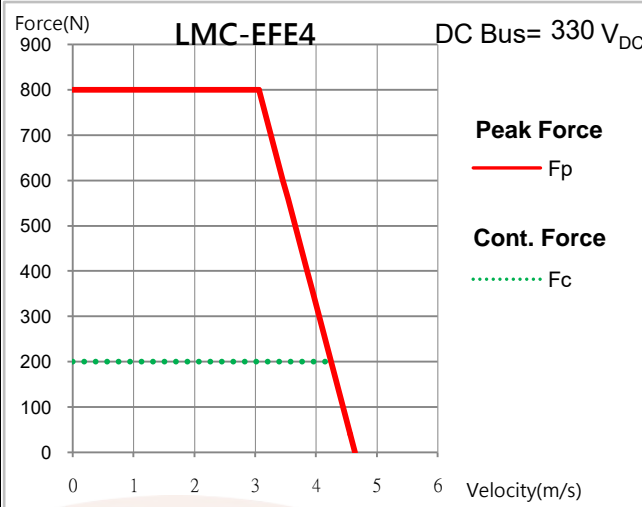
HIWIN MIKROSYSTEM CORP.

LMC-EFE4

Electrical specifications

	Symbol	Unit	Free air convection
Continuous force	F_c	N	200
Continuous current	I_c	Arms	2.7
Peak force (for 1sec.)	F_p	N	800
Peak current (for 1sec.)	I_p	Arms	10.8
Force constant	K_f	N/Arms	73.9
Electrical time constant	K_e	ms	0.85
Resistance (line to line at 25°C)	R_{25}	Ω	7.1
Inductance (line to line)	L	mH	6.1
Pole pair pitch	2 τ	mm	60
Back emf constant (line to line)	K_v	Vrms/m/s	42.7
Motor constant (at 25°C)	K_m	N/ \sqrt{W}	22.6
Thermal resistance	R_{th}	$^{\circ}C/W$	0.92
Thermal sensor	-	-	3 PTC 120°C in series
Max. DC BUS	-	V	330

F-V curve



Connector /Wiring type

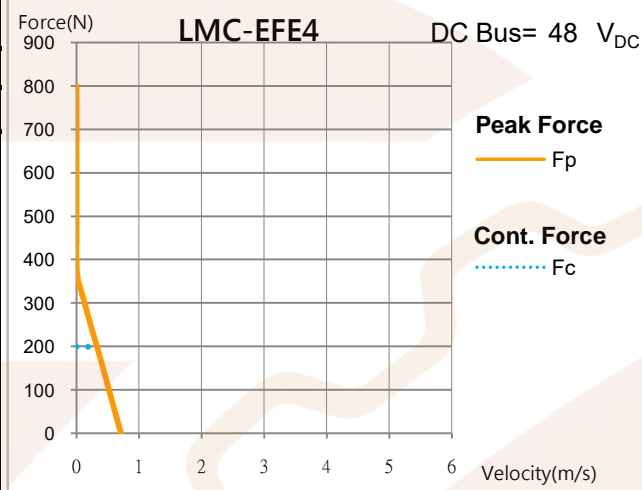
Wiring Type

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

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	1.2
Unit mass of stator	M_s	kg/m	15.8
Length of forcer / Dimension n	L_f	mm	241/7
Height of forcer / Dimension m	h	mm	79/6
Height of stator	H_s	mm	75.3
Width of stator	W_s	mm	38.7
Length of stator / Dimension N	L_s	mm	120/2, 180/3, 300/5
Total height	H	mm	93



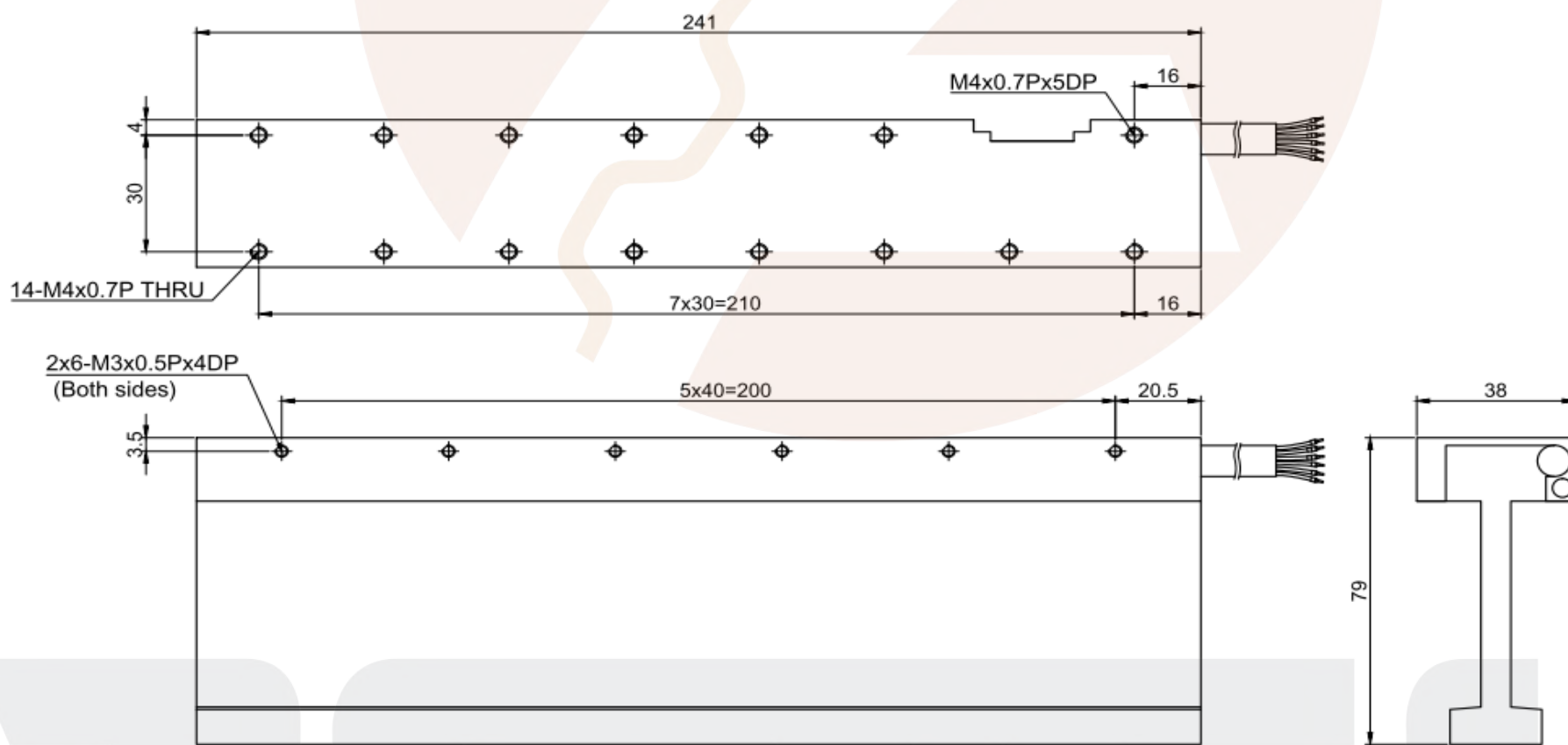
Connector Type

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

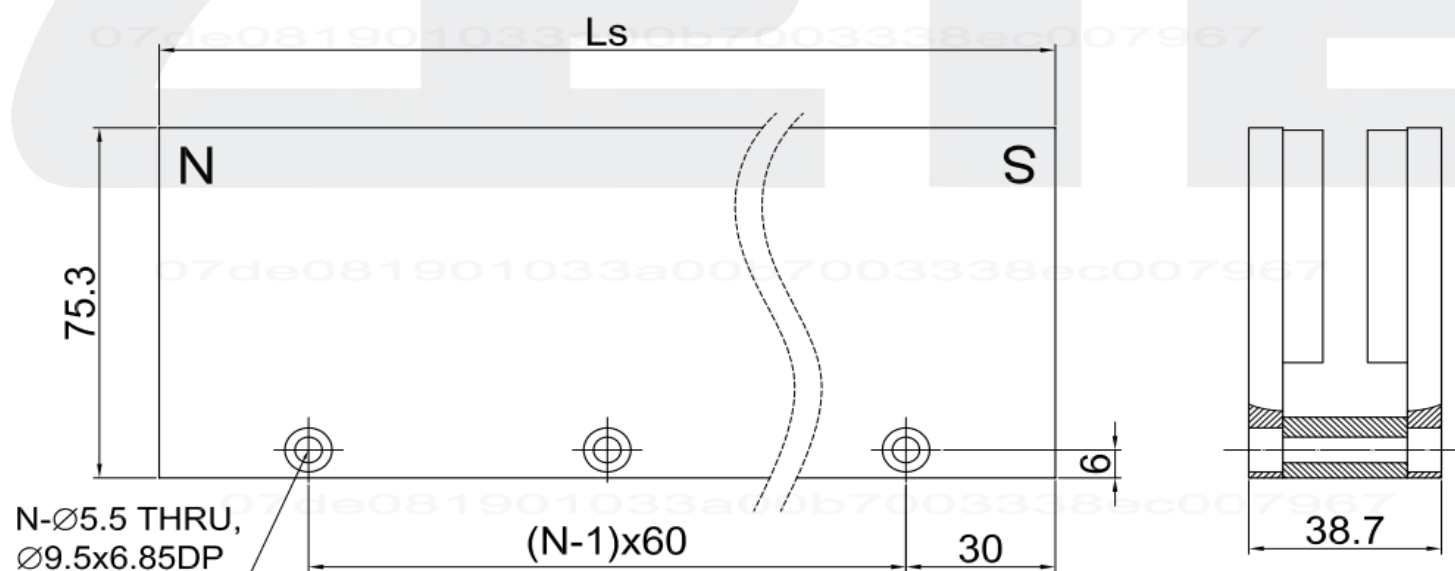
Connector	Signal	CABLE
A1	V	1
A2	U	2
A3	W	3
A4	GND	Shielding
1	Thermal+	4
3	Thermal-	YellowGreen
Case	GND	Shielding

Dimensions for linear motor LMC-EFE4 forcer

Moving Direction(+) →

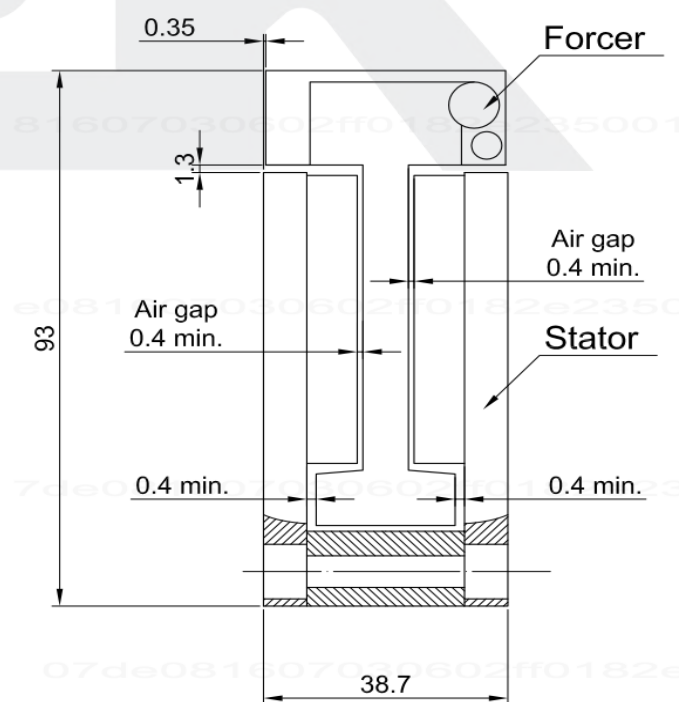


Dimensions for linear motor LMC-EFE stator



TYPE	LMC-EFES1	LMC-EFESB	LMC-EFES2
Ls/N	120/2	180/3	300/5

Installing linear motors LMC-EFE series



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