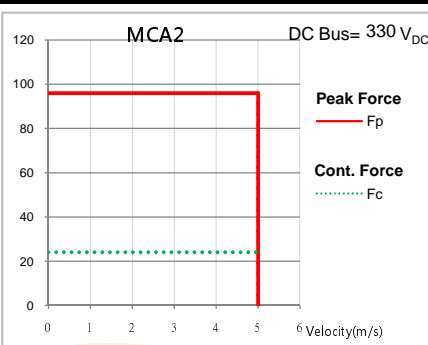


LMCA2

Electrical specifications

	Symbol	Unit	Free air convection
Continuous force	F_c	N	24
Continuous current	I_c	Arms	2.3
Peak force (for 1sec.)	F_p	N	96
Peak current (for 1sec.)	I_p	Arms	9.2
Force constant	K_f	N/Arms	10.6
Electrical time constant	K_e	ms	0.4
Resistance (line to line at 25°C)	R_{25}	Ω	2.7
Inductance (line to line)	L	mH	0.97
Pole pair pitch	2τ	mm	32
Back emf constant (line to line)	K_v	Vrms/m/s	5.9
Motor constant (at 25°C)	K_m	N/V	5.2
Thermal resistance	R_{th}	°C/W	2.80
Thermal sensor	-	-	3 PTC 100°C in series
Max. DC BUS	-	V	330

F-V curve



Connector /Wiring type

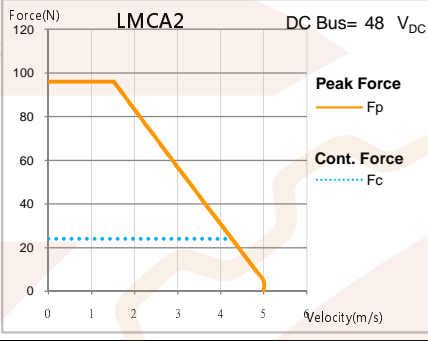
Wiring Type

Cabling : IGUS CF10.05.05
Diameter : 7.5mm
PTC Sensor: 3 PTC 100°C in series

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

Mechanical specifications

	Symbol	Unit	Free air convection
Mass of forcer	M_f	kg	0.15
Unit mass of stator	M_s	kg/m	7
Length of forcer / Dimension n	L_f	mm	66/2
Height of forcer	h	mm	59
Height of stator	H_s	mm	60
Width of stator	W_s	mm	31.2
Length of stator / Dimension N	L_s	mm	128/2,192/3,320/5
Total height	H	mm	74.5



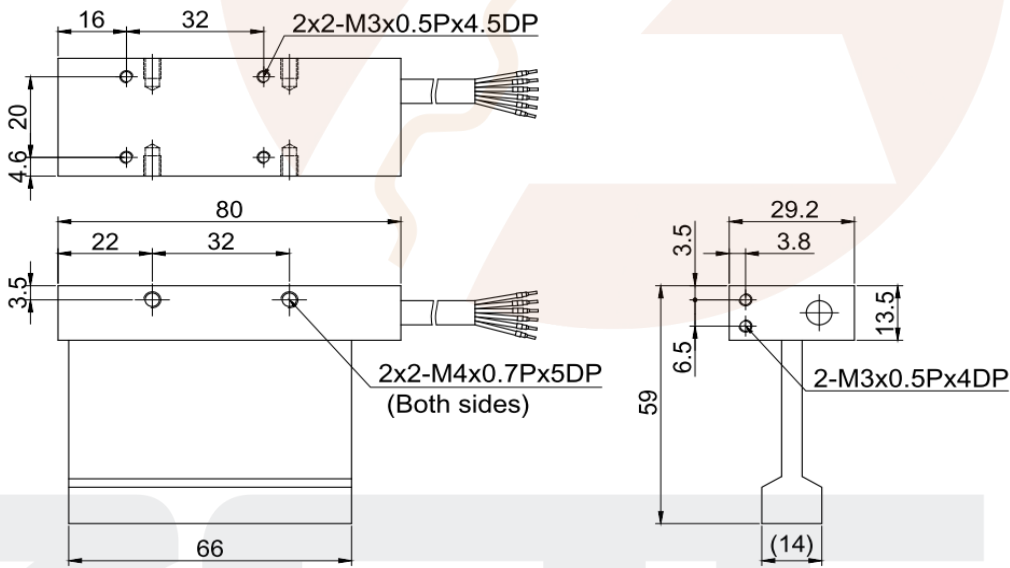
Connector Type

Cabling : IGUS CF10.05.05
Diameter : 7.5mm
PTC Sensor: 3 PTC 100°C in series

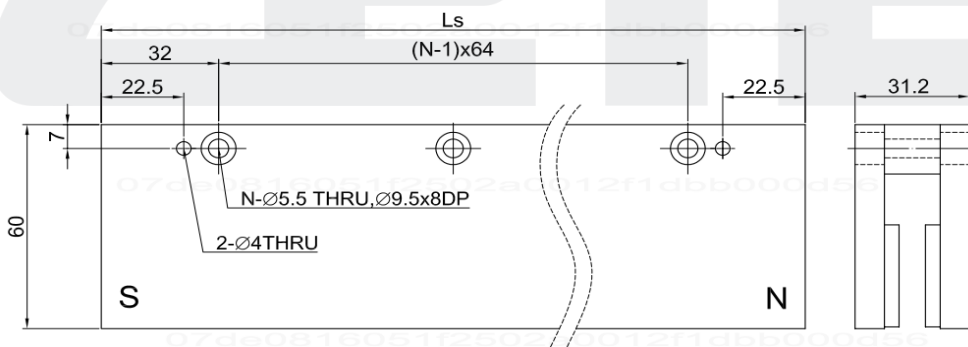
WIRING DIAGRAM		
Connector	Signal	Cable
1	V	White
2	U	Brown
3	W	Gray
Case	GND	Shielding
4	Thermal+	Yellow
5	Thermal-	Green

Dimensions for linear motor LMCA2 forcer

Moving Direction(+) →

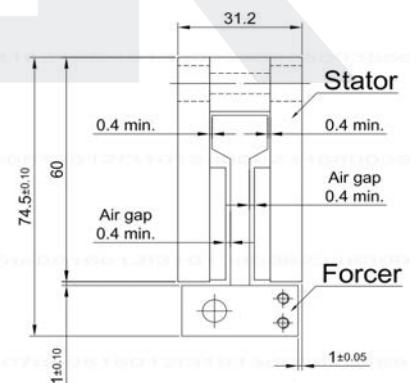


Dimensions for linear motor LMCA stator



TYPE	LMCAS0	LMCAS1	LMCAS3
Ls/N	128/2	192/3	320/5

Installing linear motors LMCA series



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