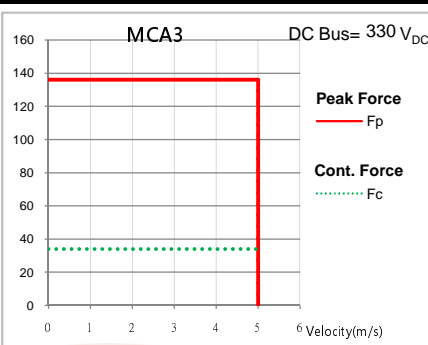


# LMCA3

## Electrical specifications

	Symbol	Unit	Free air convection
Continuous force	$F_c$	N	34
Continuous current	$I_c$	Arms	2.1
Peak force (for 1sec.)	$F_p$	N	136
Peak current (for 1sec.)	$I_p$	Arms	8.4
Force constant	$K_f$	N/Arms	15.8
Electrical time constant	$K_e$	ms	0.3
Resistance (line to line at 25°C)	$R_{25}$	$\Omega$	4.1
Inductance (line to line)	L	mH	1.42
Pole pair pitch	$2\tau$	mm	32
Back emf constant (line to line)	$K_v$	Vrms/m/s	8.8
Motor constant (at 25°C)	$K_m$	N/V	6.5
Thermal resistance	$R_{th}$	°C/W	2.21
Thermal sensor	-	-	3 PTC 100°C in series
Max. DC BUS	-	V	330

## F-V curve

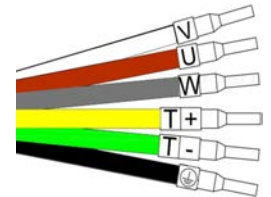


## Connector /Wiring type

### Wiring Type

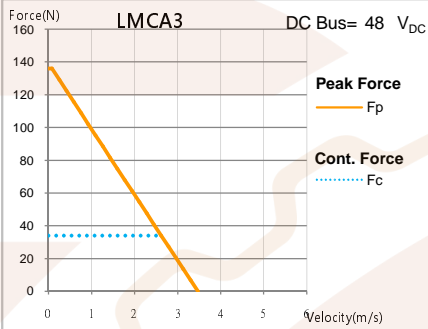
Cabling : IGUS CF10.05.05  
Diameter : 7.5mm  
PTC Sensor: 3 PTC 100°C in series

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



## Mechanical specifications

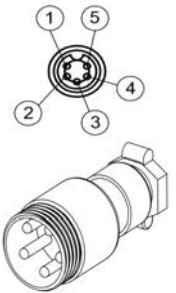
	Symbol	Unit	Free air convection
Mass of forcer	$M_f$	kg	0.23
Unit mass of stator	$M_s$	kg/m	7
Length of forcer / Dimension n	$L_f$	mm	98/3
Height of forcer	h	mm	59
Height of stator	$H_s$	mm	60
Width of stator	$W_s$	mm	31.2
Length of stator / Dimension N	$L_s$	mm	128/2, 192/3, 320/5
Total height	H	mm	74.5



## Connector Type

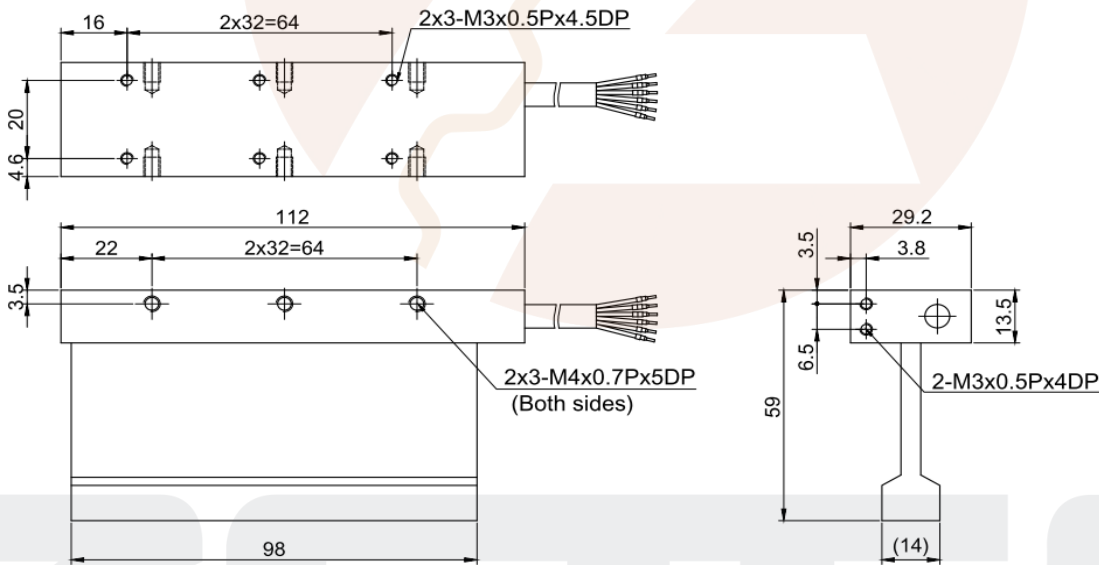
Cabling : IGUS CF10.05.05  
Diameter : 7.5mm  
PTC Sensor: 3 PTC 100°C in series

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

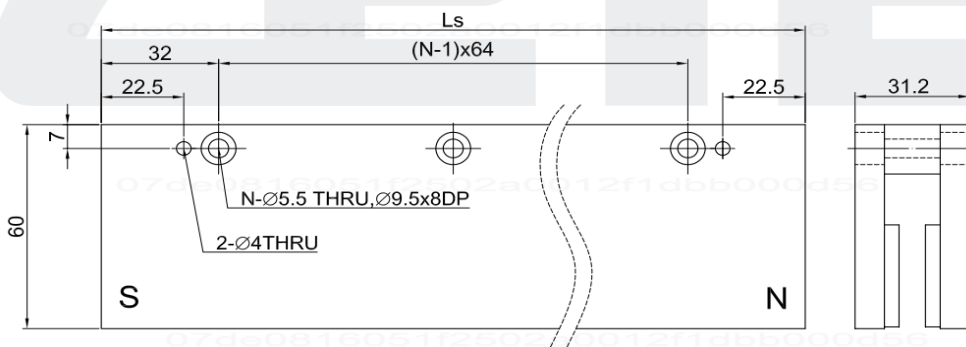


## Dimensions for linear motor LMCA3 forcer

Moving Direction(+) →

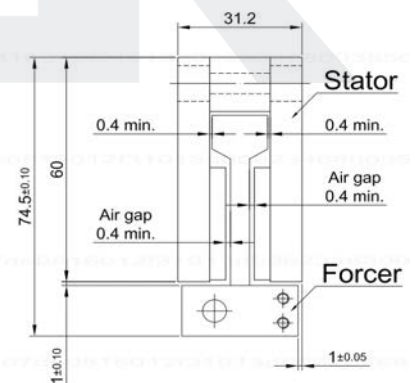


## Dimensions for linear motor LMCA stator



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.