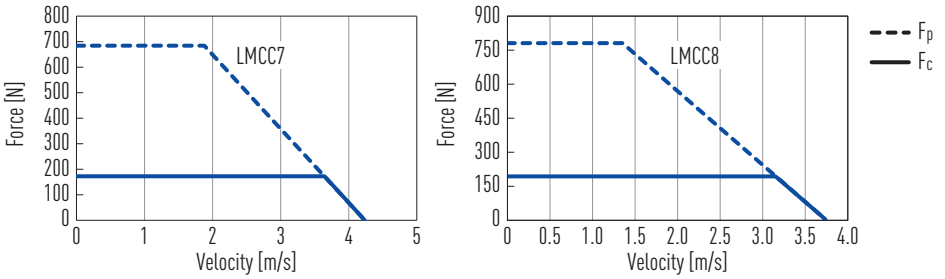
Specifications

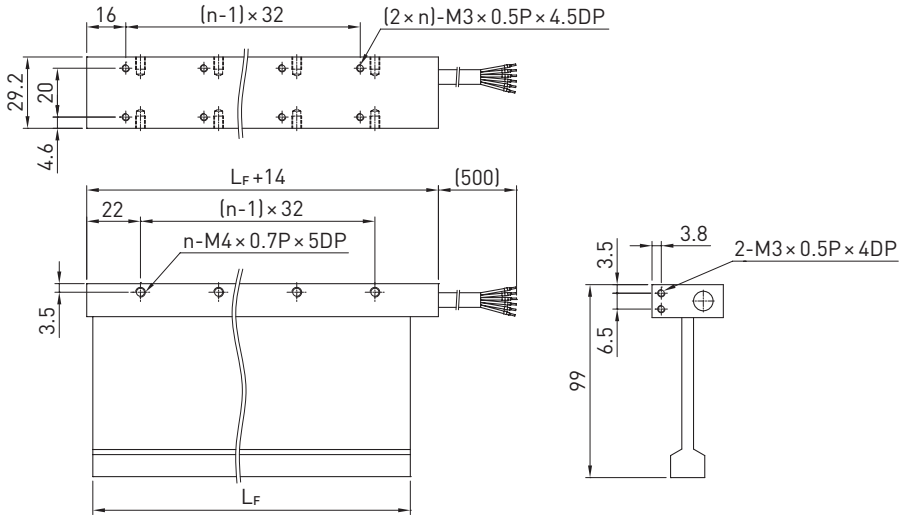
Force-velocity curves (DC bus voltage: 330 VDC)



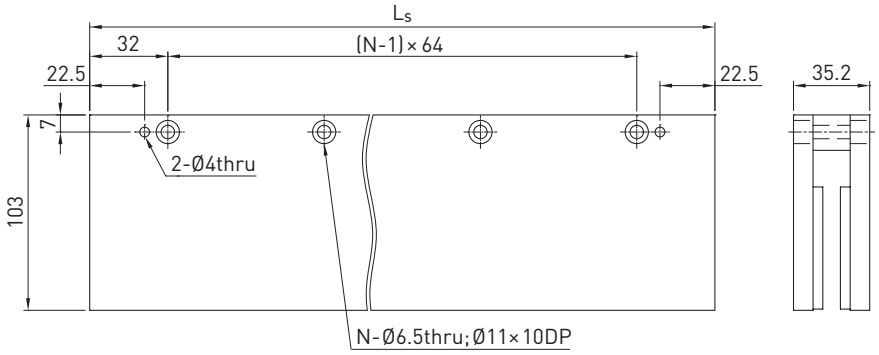
Technical data for LMCC				
	Symbol	Unit	LMCC7	LMCC8
Forces and electrical parameters				
Continuous force at T_{max}	F_c	N	171	195
Continuous current at T_{max}	I_c	A_{eff}	2.0	2.0
Peak force (for 1 s)	F_p	N	684	780
Peak current (for 1 s)	I_p	A_{eff}	8.0	8.0
Force constant	K_f	N/A_{eff}	85.4	97.5
Electrical time constant	K_e	ms	0.3	0.3
Resistance [1]	R_{25}	Ω	15.8	18.2
Inductance [1]	L	mH	5.5	6.3
Back EMF constant	K_u	$V_{eff}/(m/s)$	45.4	51.9
Motor constant	K_m	$N/\sqrt{W}$	17.6	18.7
Thermal resistance	R_{th}	°C/W	0.63	0.55
Thermal switch			3 PTC SNM 100 in series	
Max. DC bus voltage		V	330	
Mechanical parameters				
Max. bending radius of motor cable	R_{bend}	mm	37.5	
Pole pair pitch	2τ	mm	32	
Max. winding temperature	T_{max}	°C	100	
Mounting holes (forcer)	n		7	8
Weight of forcer	M_F	kg	0.74	0.76
Length of forcer	L_F	mm	226	258
Unit mass of stator	M_S	kg/m	21	
Length of stator/Dimension N	L_S	mm	128 mm/N = 2; 320 mm/N = 5	

All the specifications in the table (except dimensions) are in ± 10 % of tolerance at 25 °C ambient temperature
[1] Line to line

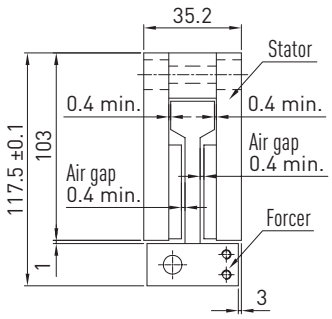
Dimensions of forcer



Dimensions of stator



Mounting tolerances



LMCC motor cable assignment		
Motor cable	Signal	Diameter [mm]
Brown	U	7.5
White	V	
Grey	W	
Black	GND	
Yellow	T+	
Green	T–	