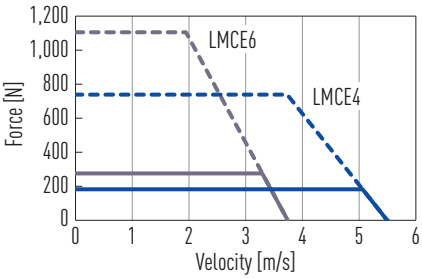
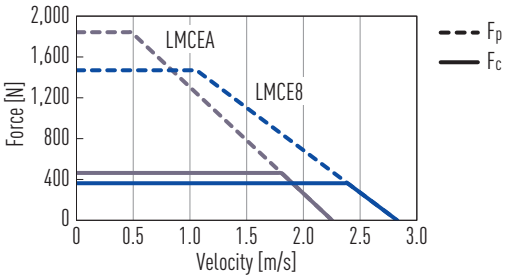
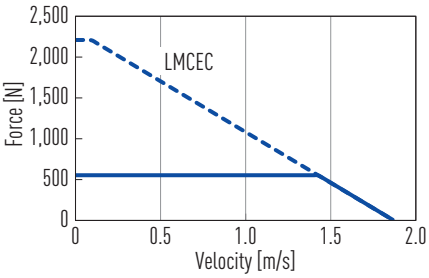
Specifications

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



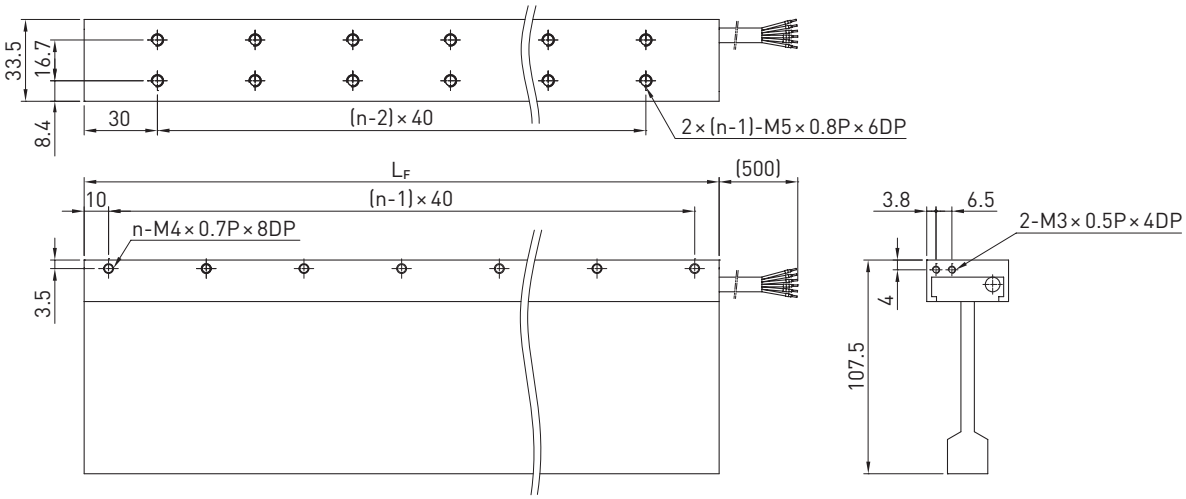




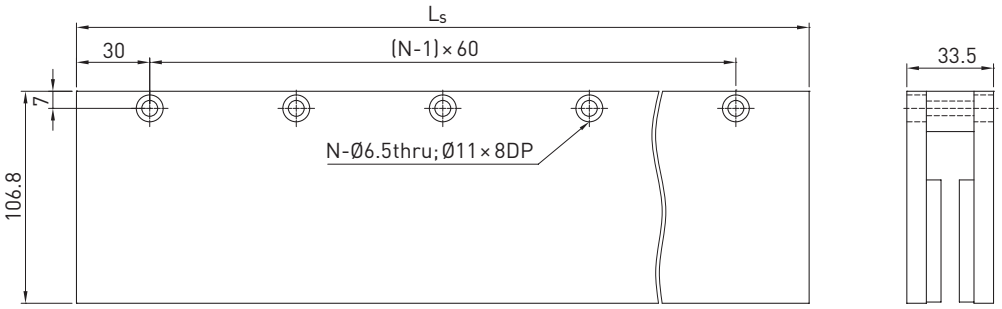
Technical data for LMCE							
	Symbol	Unit	LMCE4	LMCE6	LMCE8	LMCEA	LMCEC
Forces and electrical parameters							
Continuous force at T_{max}	F_c	N	184	276	368	460	552
Continuous current at T_{max}	I_c	A_{eff}	3.25	3.25	3.25	3.25	3.25
Peak force (for 1 s)	F_p	N	736	1,104	1,472	1,840	2,208
Peak current (for 1 s)	I_p	A_{eff}	13	13	13	13	13
Force constant	K_f	N/A_{eff}	56.6	84.9	113.2	141.5	169.8
Electrical time constant	K_e	ms	0.5	0.5	0.5	0.5	0.5
Resistance [1]	R_{25}	Ω	5.6	8.4	11.0	13.8	16.7
Inductance [1]	L	mH	2.9	4.4	5.9	7.3	8.8
Back EMF constant	K_u	$V_{eff}/(m/s)$	35	53	70	88	106
Motor constant	K_m	$N/\sqrt{W}$	19.1	23.4	27.0	30.2	33.2
Thermal resistance	R_{th}	°C/W	0.68	0.45	0.34	0.27	0.23
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	60				
Max. winding temperature	T_{max}	°C	100				
Mounting holes (forcer)	n		7	10	13	16	19
Weight of forcer	M_F	kg	1.23	1.84	2.46	3.08	3.70
Length of forcer	L_F	mm	260	380	500	620	740
Unit mass of stator	M_S	kg/m	20				
Length of stator/Dimension N	L_S	mm	120 mm/N = 2; 300 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

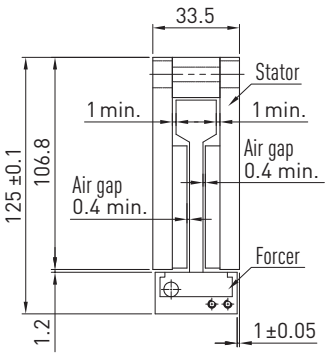
Dimensions of forcer



Dimensions of stator



Mounting tolerances



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