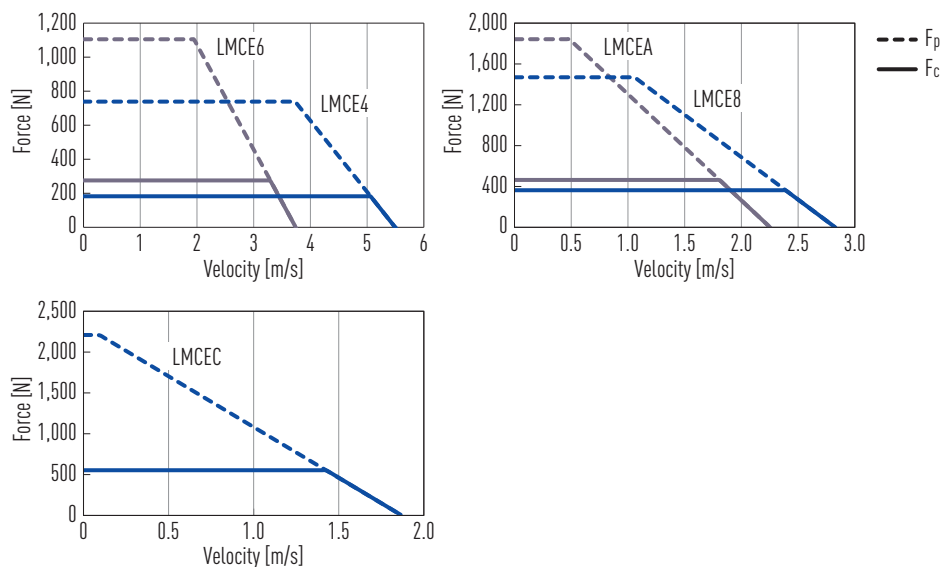


Specifications

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/√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 $\pm 10\%$ of tolerance at 25 $^{\circ}C$ ambient temperature

¹⁾ Line to line

Technical drawing of the cable tray assembly, showing dimensions and labels:

- Top View:**
 - Overall width: 33.5
 - Top flange width: 16.7
 - Bottom flange width: 8.4
 - Distance from bottom flange to first hole: 30
 - Distance between holes: $(n-2) \times 40$
 - Number of holes: $2 \times (n-1)$
 - Hole specification: $M5 \times 0.8P \times 6DP$
- Side View:**
 - Overall length: L_F
 - Top flange width: 10
 - Distance from top flange to first hole: 10
 - Distance between holes: $(n-1) \times 40$
 - Number of holes: n
 - Hole specification: $M4 \times 0.7P \times 8DP$
 - End flange width: 500
 - Bottom flange width: 3.5
- End View:**
 - Overall height: 107.5
 - Top flange width: 3.8
 - Distance from top flange to first hole: 6.5
 - Number of holes: $2 \times M3 \times 0.5P \times 4DP$
 - Bottom flange width: 4

Technical drawing of a plate with N holes. The drawing shows the overall dimensions and the hole pattern. The total length is L_s . The distance from the left edge to the first hole is 30. The distance between the centers of the holes is $(N-1) \times 60$. The thickness of the plate is 7. The total width is 106.8. The hole pattern is specified as $N-\text{Ø}6.5 \text{ thru}; \text{Ø}11 \times 8\text{DP}$. A detail view on the right shows a section with a width of 33.5.

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