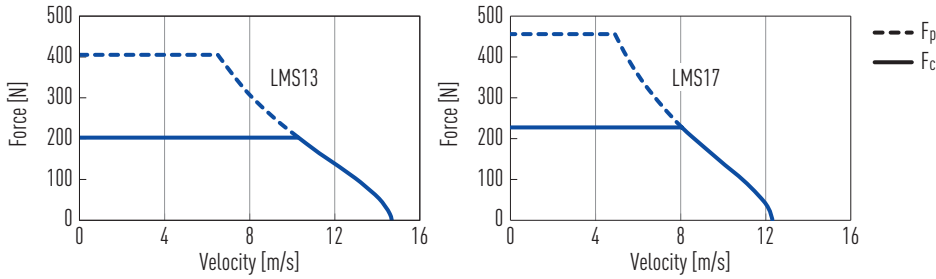


### Specifications

#### Force-velocity curves (DC bus voltage: 600 VDC)

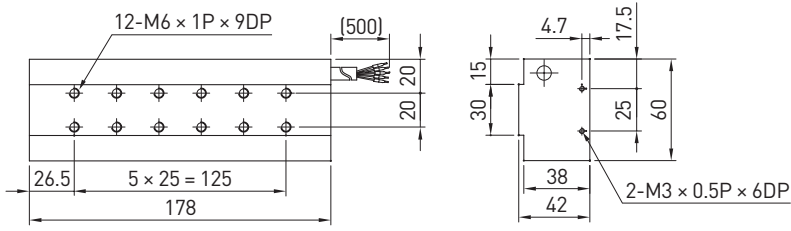


Technical data for LMS1				
	Symbol	Unit	LMS13	LMS17
<b>Forces and electrical parameters</b>				
Continuous force at $T_{max}$	$F_c$	N	203	228
Continuous current at $T_{max}$	$I_c$	$A_{eff}$	4.6	3.9
Peak force (for 1 s)	$F_p$	N	406	456
Peak current (for 1 s)	$I_p$	$A_{eff}$	13.8	11.8
Force constant	$K_f$	$N/A_{eff}$	44	58
Attraction force	$F_a$	N	805	1,221
Electrical time constant	$K_e$	ms	10.4	10.6
Resistance <sup>1)</sup>	$R_{25}$	$\Omega$	3.1	4.8
Inductance <sup>1)</sup>	L	mH	32.2	50.8
Back EMF constant	$K_u$	$V_{eff}/(m/s)$	26	31
Motor constant	$K_m$	$N/\sqrt{W}$	20.4	21.6
Thermal resistance	$R_{th}$	$^{\circ}C/W$	0.7	0.6
Thermal time constant	$T_{th}$	s	4,350	4,950
Thermal switch			3 PTC SNM 120 in series	
Max. DC bus voltage		V	600	
<b>Mechanical parameters</b>				
Max. bending radius of motor cable	$R_{bend}$	mm	69	
Pole pair pitch	$2\tau$	mm	32	
Max. winding temperature	$T_{max}$	$^{\circ}C$	120	
Weight of forcer	$M_F$	kg	1.8	2.7
Unit mass of stator	$M_S$	kg/m	4.2	
Length of stator/Dimension N	$L_S$	mm	128 mm/N = 2; 320 mm/N = 5	
Total height (forcer + stator)	H	mm	55.2	57.4

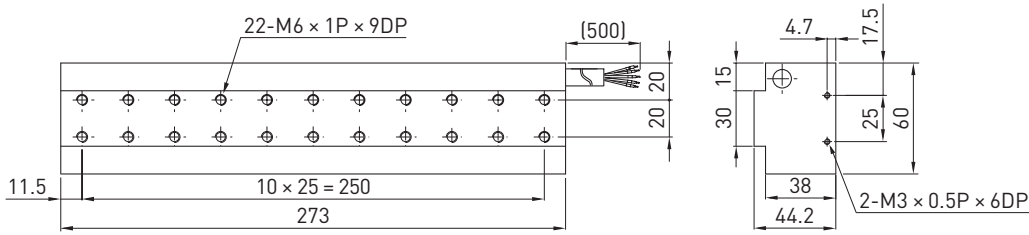
All the specifications in the table (except dimensions) are in  $\pm 10\%$  of tolerance at 25  $^{\circ}C$  ambient temperature

<sup>1)</sup> Line to line

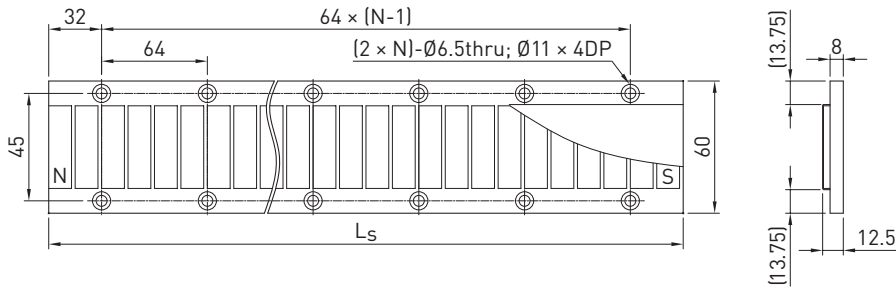
### Dimensions of forcer LMS13



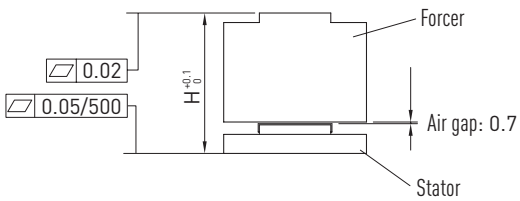
### Dimensions of forcer LMS17



### Dimensions of stator



### Mounting tolerances



### LMS1 motor cable assignment

Motor cable	Signal	Diameter [mm]
1	V	9.0
2	U	
3	W	
4	—	
5	T+	
6	T-	
Green/Yellow	GND	