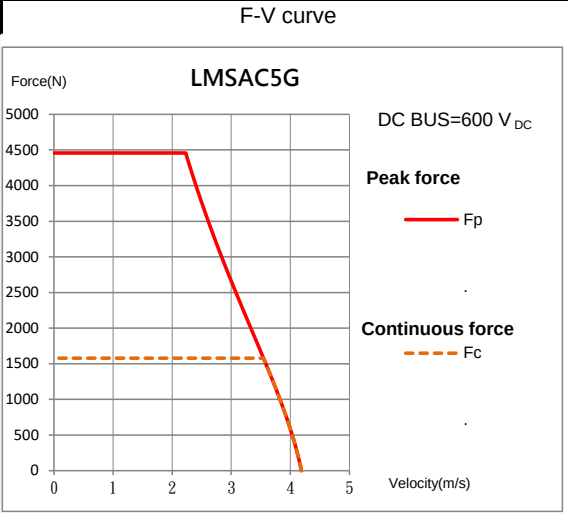


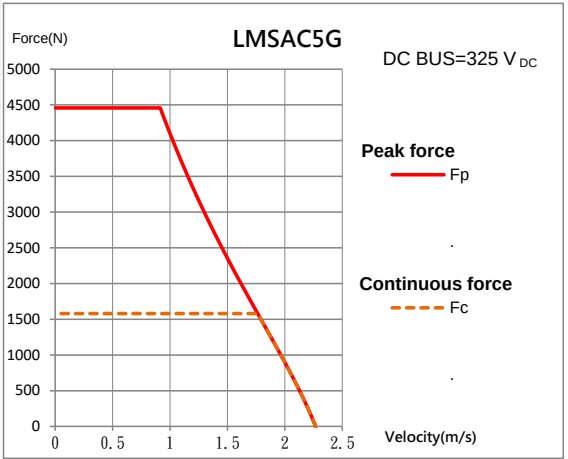
LMSAC5G

Linear Motor

Electrical specifications			
	Symbol	Unit	
Continuous force	F_c	N	1579
Continuous current	I_c	A_{rms}	10
Peak force (1s)	F_p	N	4458
Peak current (1s)	I_p	A_{rms}	30
Ultimate force (0.5s)	F_u	N	5842
Ultimate current (0.5s)	I_u	A_{rms}	50
Force constant	K_f	N/A_{rms}	157.9
Attraction force	F_a	N	7823
Max. winding temperature	T_{max}	$^{\circ}C$	120
Electrical time constant	K_e	ms	5
Resistance (line to line · 25 $^{\circ}C$)	R_{25}	Ω	4.1
Resistance (line to line · 120 $^{\circ}C$)	R_{120}	Ω	5.7
Inductance (line to line)	L	mH	20.3
Pole pair pitch	2τ	mm	30
Minimum bending radius of cable	R_{bend}	mm	69
Back emf constant(line to line)	K_v	$V_{rms}/(m/s)$	91.2
Motor constant (25 $^{\circ}C$)	K_m	$N/\sqrt{W}$	63.7
Thermal resistance	R_{th}	$^{\circ}C/W$	0.11
Thermal time constant	t_{th}	s	4530
Thermal switch			1 x Pt1000 + 1 x (3 PTC SNM 120 In Series)
Max. DC bus voltage		V_{DC}	750

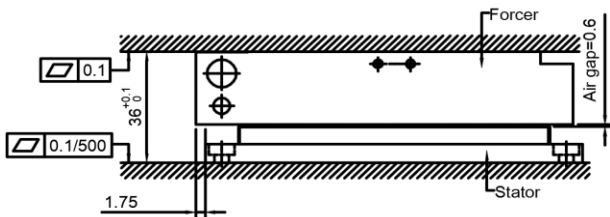
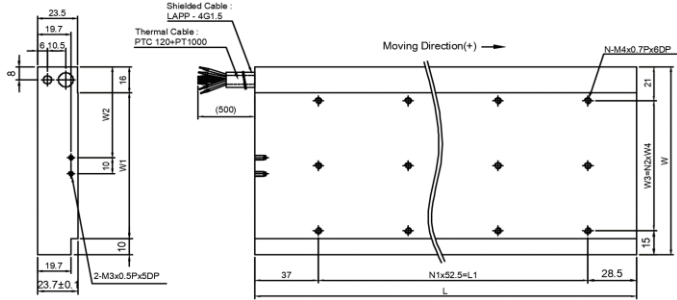


Mechanical specifications					
	Symbol	Unit			
Mass of forcer	M_f	kg			10.5
Unit mass of stator	M_s	kg			9.7
L	mm	538	W3	mm	80
L1	mm	472.5	W4	mm	40
W	mm	123.5	N	mm	30
W1	mm	97.5	N1	mm	9
W2	mm	59.75	N2	mm	2



Focer dimensions

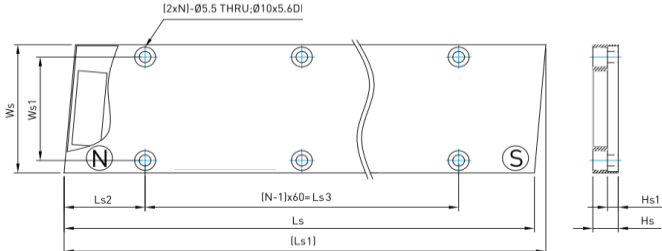
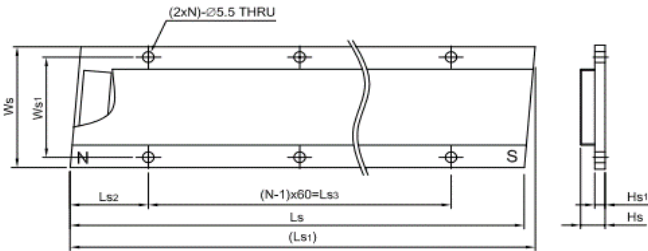
Mounting tolerance



Stator dimensions

Type 1 : Cover plate

Type 2 : EA (Epoxy)



	Ls	Ls1	Ls2	Ls3	Ws	Ws1	Hs	Hs1	N
LMSACS1(EA)	120	123.3	30.37	60	126	114	11.7	6	2
LMSACS2(EA)	180	183.3	30.37	120	126	114	11.7	6	3
LMSACS3(EA)	300	303.3	30.37	240	126	114	11.7	6	5