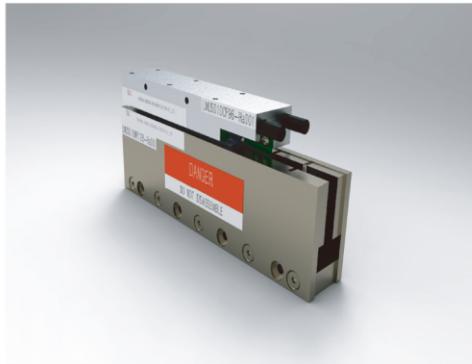




# LINEAR MOTOR LMUS010



The LMUS010 series linear motor is a very efficient drive system that was developed to fit in the smallest possible space. This is most appropriate linear motor for the mimiturization of equipment in various fields.

### Standard Specifications

Insulation Capacity	: AC1500V 1min
Operating Range	: 0~25°C
Cooling Method	: Self-cool
Insulation Resistance	: DC500V 100MΩ or more
Operating range (in controlled environment)	: 20~80%(No condensation)
Maximum temperature	: 125°C

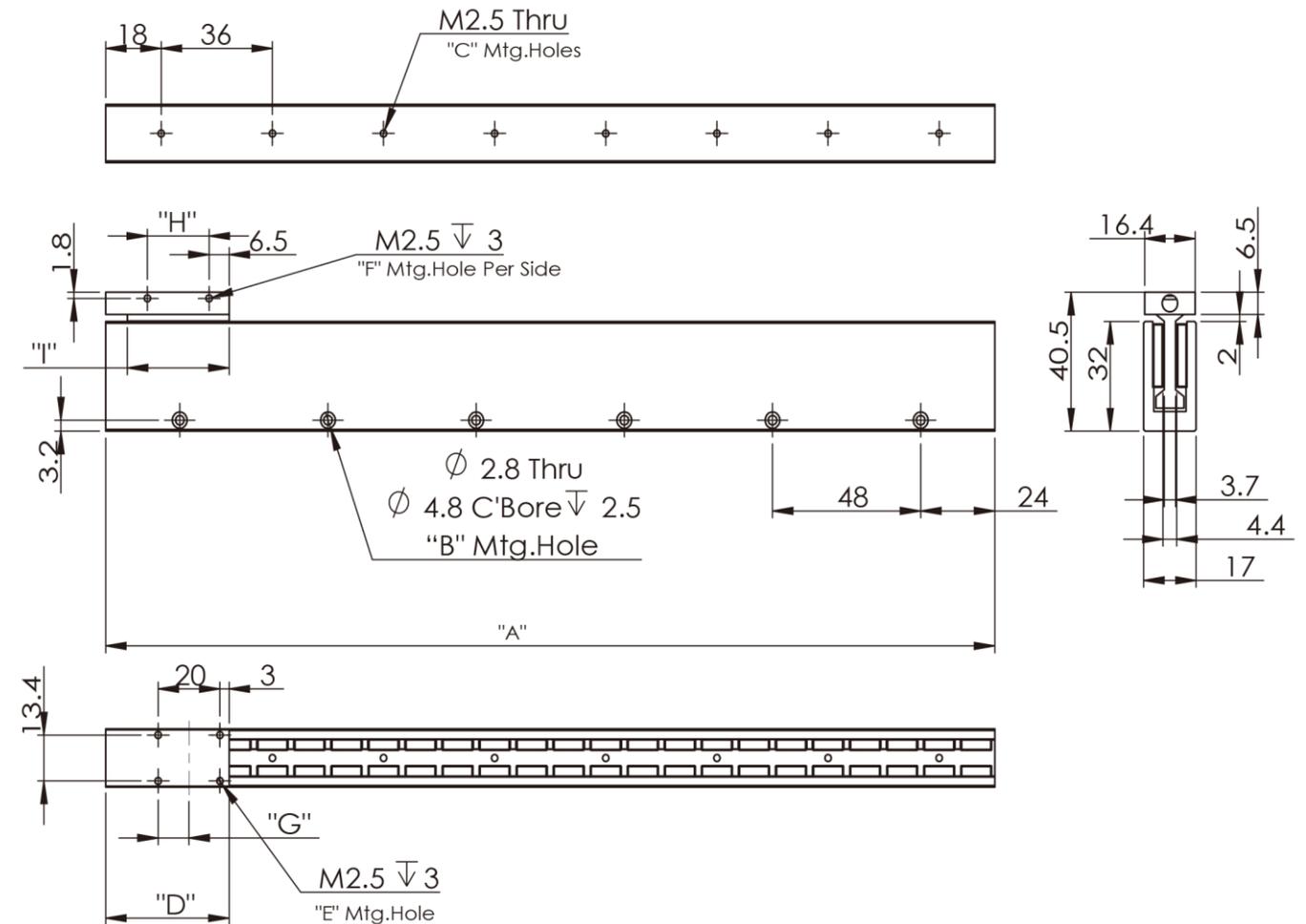
### Specification

Parameter	Unit	LMUS010-CP36	LMUS010-CP76	LMUS010-CP100
<b>Performance Specifications</b>				
Continuous Force	N	9.5	21	31
Peak Force	N	66.5	147	217
<b>Electrical Specifications</b>				
BEMF Constant(line-line,peak)	V/(m/s)	3.9	9.21	12.9
Continuous Current	Arms	1.98	1.86	1.96
Peak Current,Stall	Arms	13.9	13	13.7
Force Constant	N/Arms	4.27	10.77	14.95
Motor Constant	N/√W	2.5	3.55	4.2
Resistance,25°C (line-line)	Ω	2.2	5.5	7.7
Inductance,(line-line)	mH	0.22	0.55	0.84
Thermal Resistance	°C/W	6.5	2.8	1.8
Maximum Bus Voltage	V <sub>DC</sub>	340	340	340
<b>Mechanical Specifications</b>				
Coil Weight	kg	0.035	0.088	0.11
Coil Length	mm	33	69	93
Magnet Track Weight	kg/m	1.8	1.8	1.8
Magnetic Pole Pitch (NN)	mm	24	24	24

### Notes :

- 1.Performance is dependent upon heat sink configuration, system cooling conditions,and ambient temperature.
- 2.Values shown @ 100°C rise above a 25°C ambient temperature,with motor mounted to the specified aluminum heat sink.
- 3.Peak force assumes correct rms current;consult SMJ.
- 4.Force constant and motor constant specified at stall.
- 5.All performance and electrical specifications±10%.

### Dimensions(mm)



### Magnet Plate

Model No.	A	B	C
LMUS010-MP96	96	2	3
LMUS010-MP288	288	6	8

### Coil Plate

Model No.	D	E	F	G	H	I
LMUS010-CP36	40	4	4	10	20	33
LMUS010-CP76	76	8	8	10	20	69
LMUS010-CP100	100	10	10	10	20	93