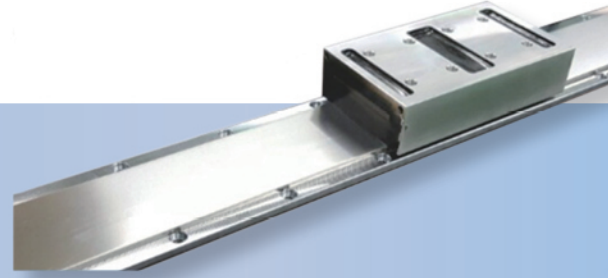


IronCore Linear Motor

BASIC SPECIFICATIONS

- ◆ Rating Condition : Continuous
- ◆ Voltage Endurance : AC1500V, 1Min
- ◆ Operating Temperature : 0~40°C
- ◆ Coil Insulation Class : F Class(155°C)
- ◆ Hall Effect Device : Optional
- ◆ Power Supply Requirement : Trapezoidal or Sinusoidal 3-phase Brushless Amplifier



Performance Specifications

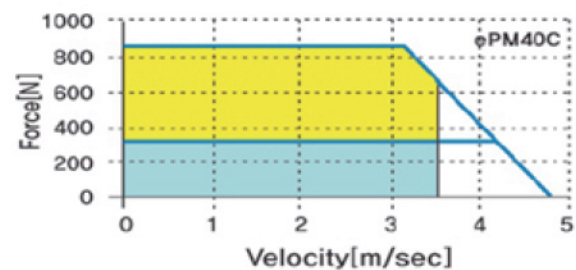
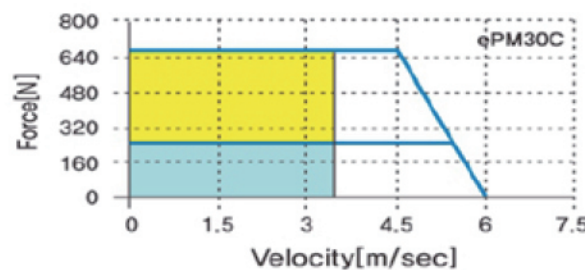
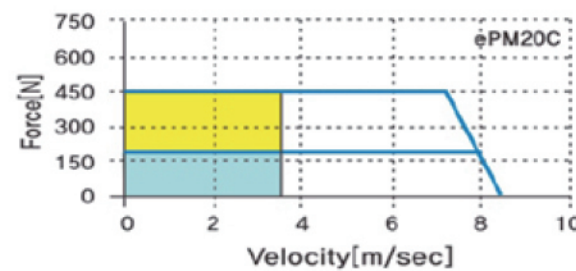
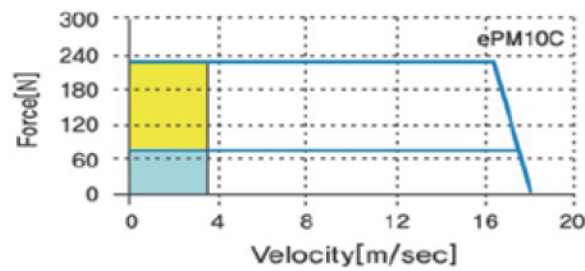
		Unit	SWL-ePM10C	SWL-ePM20C	SWL-ePM30C	SWL-ePM40C
Continuous	Force	N	80	155	235	315
	Current	Arms	3.8	3.8	3.8	3.8
Max.	Force	N	230	445	675	885
	Current	Arms	11.4	11.4	11.4	11.4
Force Constant(kf)		N/Arms	21.2	43.5	63	79.3
Back EMF Constant(Ke)		Vrms/(m/sec)	7	14.5	21	26.4
Electrical Time Constant(Te)		msec	3.32	3.72	3.74	3.84
Resistance(L to L)		Ω	1.85	3.51	5.31	6.92
Inductance(L to L)		mH	6.14	13.04	19.84	26.56
Attraction Force		N	360	710	1070	1430
Mover Weight		kg	0.7	1.3	1.9	2.5

© Magnet Pole Pitch(N-N) : 30mm, Stator Weight : 4kg/m

FORCE VS. VELOCITY CHARACTERISTICS

반복 사용 영역 (Intermittent duty zone)

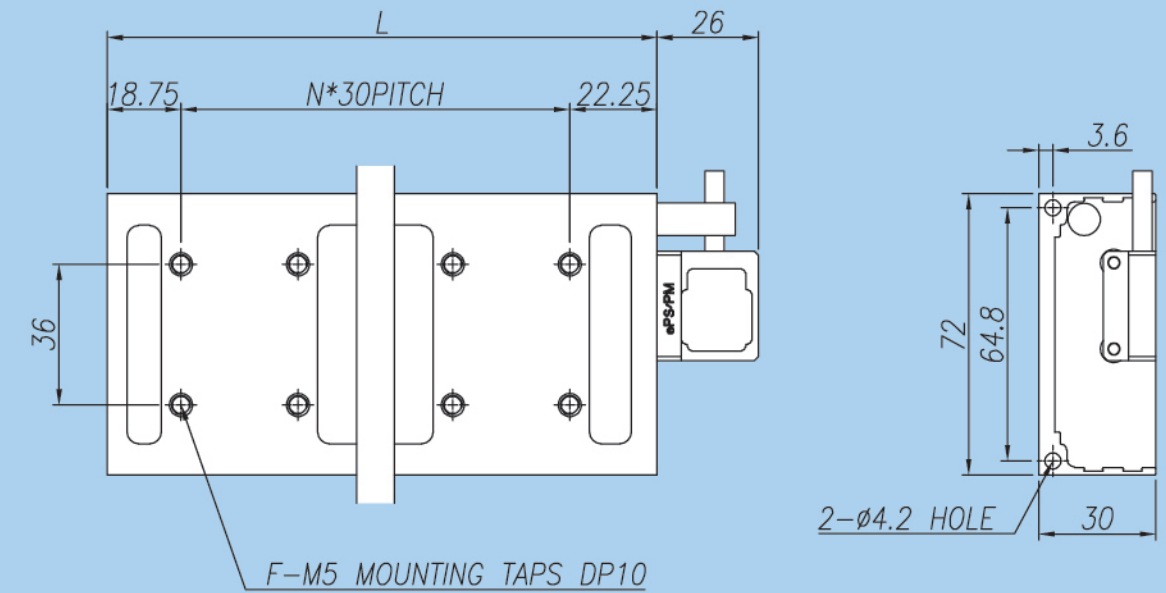
연속 사용 영역 (Continuous duty zone)



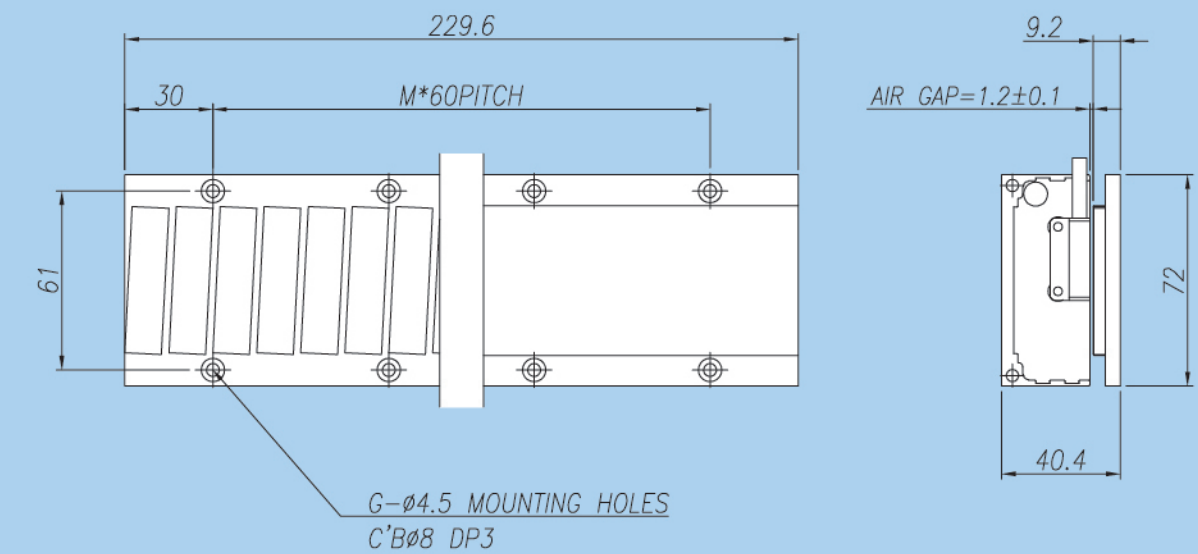
MECHANICAL DIMENSIONS

Mover Dimensions

Unit : mm



Stator Dimensions



● Mover

Model SWL-ePM	L	N	F
10C	71	1	4
20C	131	3	8
30C	191	5	12
40C	251	7	16

◆ Check the page 60 for cable and connector types

● Stator

Model SWL-ePM	Z	M	G
180	180	2	6
300	300	4	10
420	420	6	14
540	540	8	18
600	600	9	20