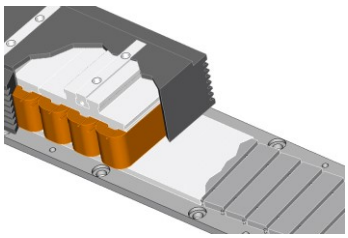
KPXD Series (KLT, Platen core, X-large D size)



Motor Specifications

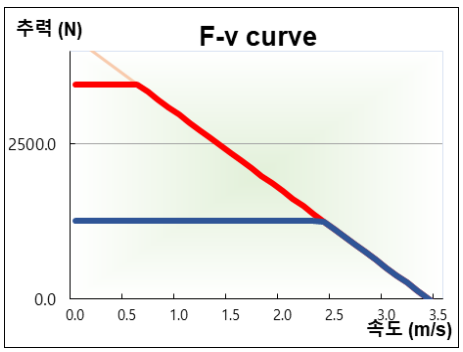
Items	Model	KPXD-2P	KPXD-3P	KPXD-4P	KPXD-5P
Force [N]	Continuous	1,263.0	1,894.5	2,526.0	3,157.5
	Peak	3,574.0	5,361.0	7,148.0	8,934.0
Current [A_{rms}]	Continuous	12.0	19.5	26.0	32.5
	Peak	41.6	62.4	83.2	104.0
Back EMF Const[V_{rms}/(m/s)]		32.4	32.4	32.4	32.4
Motor Constant[N/A_{rms}] note1)		97.2	97.2	97.2	97.2
Max. Velocity[m/s] note2)		4.2	4.2	4.2	4.2
Resistance [Ω] note1)		1.88	1.25	0.94	0.75
Inductance [mH] note1)		9.50	6.33	4.75	3.80
Attraction Force[N] note3)		5,750	8,625	11,500	14,375
Mover Weight [kg]		16.8	20.4	26.6	32.8

Note1) All Parameters indicate at phase level (3-phases, Y-connection, Phase-to-Neutral) at room temperature.
Note2) Motor Driver works for 3 phases with AC 220V ~ 380V and maximum velocity is subjected to modified by DC link voltage.
Note3) Magnetic attraction force is between the coils and the magnets through air-gap.

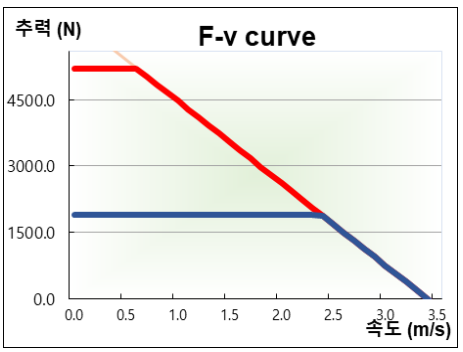
Force-Velocity Characteristics

Rated Area Peak Area

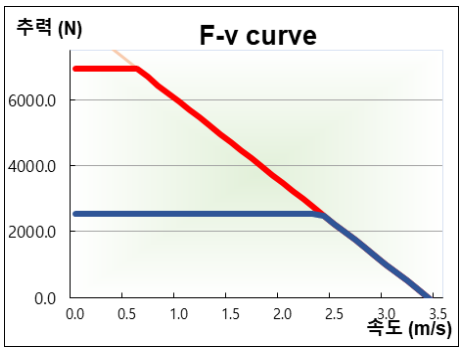
KPXD-2P



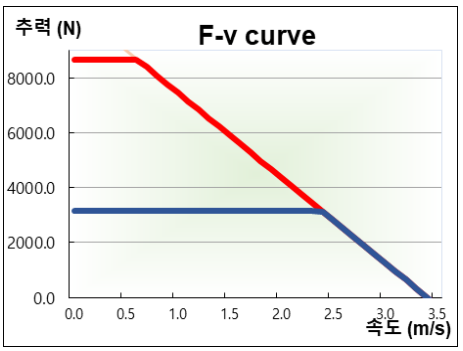
KPXD-3P



KPXD-4P



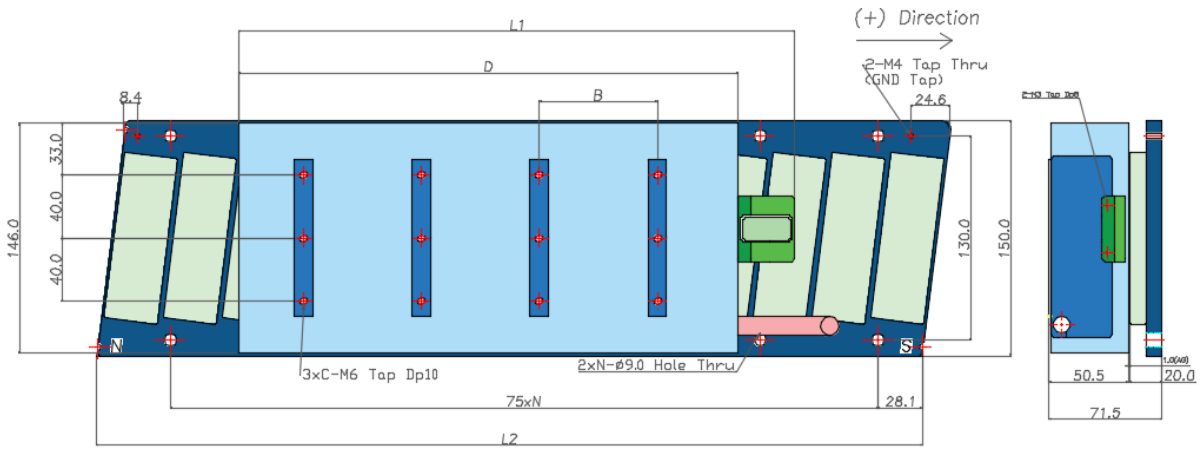
KPXD-5P



Outline Dimension

Model	A [mm]	B [mm]	C(Q'ty)	D [mm]	L1 [mm]
KPX(D)-2P	51.5	75.0	4	318.0	354.0
KPX(D)-3P	51.5	75.0	6	468.0	504.0
KPX(D)-4P	51.5	75.0	8	618.0	654.0
KPX(D)-5P	51.5	75.0	12	768.0	804.0

• **KPXD model is available to increase the velocity.**



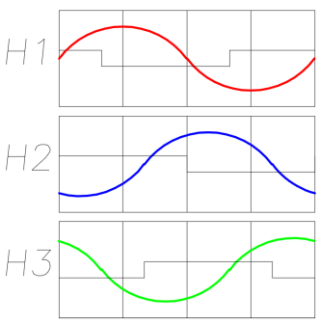
Model	L2 [mm]	N(Q'ty)	Weight [kg]	Pole Pitch [mm]
KPX-75	75.0	1	1.5	37.5
KPX-150	150.0	2	2.9	
KPX-225	225.0	3	3.8	
KPX-300	300.0	4	4.7	

• Pole Pitch is (N-S or S-N) magnet distance with 180 degrees.
• KPX-450 model can be supplied for specific order.

Motor and Hall sensor Cables

Cables	Signals	Colors	Length
Motor Cable (AWG14)	U V W FG	Brown Black Gray(Blue) Green	STD: 0.6M OPTION: 1.0M, 1.5M, 2.0M, ETC
Hall Sensor Cable (AWG22)	+5V GND H1 (U) H2 (V) H3 (W)	Red Black Blue Green White	STD: 0.6M OPTION: 1.0M, 1.5M

• The Hall offset angle in each phase is 60 degree at falling edge.



* Hall Sensor phase at Back EMF.