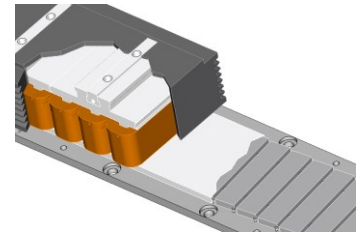


KPS Series (KLT, Platen core, Small size)



Motor Specifications

Items		Model	KPS-2S	KPS-3S	KPS-2S2P	KPS-5S
Force [N]	Continuous		169.8	254.7	339.6	424.5
	Peak		447.0	670.5	894.0	1,117.5
Current [A _{rms}]	Continuous		2.3	2.3	4.6	2.3
	Peak		7.1	7.1	14.3	7.1
Back EMF Const[V _{rms} /(m/s)]			24.6	36.9	24.6	61.5
Motor Constant[N/A _{rms}] ^{note1)}			73.8	110.7	73.8	184.6
Max. Velocity[m/s] ^{note2)}			3.4	2.0	3.4	0.8
Resistance [Ω] ^{note1)}			2.8	4.2	1.4	7.0
Inductance [mH] ^{note1)}			22.4	33.6	11.2	56.0
Attraction Force[N] ^{note3)}			688.8	1,032.2	1,377.6	1,722.0
Mover Weight [kg]			1.5	2.3	3.1	3.9

Note1) All Parameters indicate at phase level (3-phases, Y-connection, Phase-to-Neutral) at room temperature.

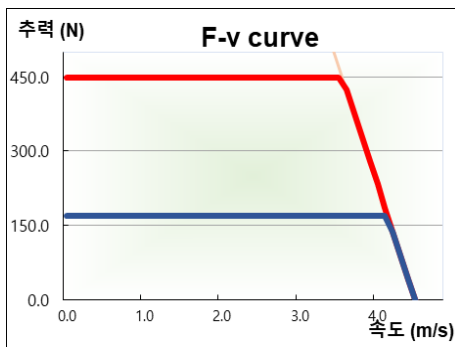
Note2) Motor Driver works for 3 phases with AC 220V and maximum velocity is subjected to modified by DC link voltage.

Note3) Magnetic attraction force is between the coils and the magnets through air-gap.

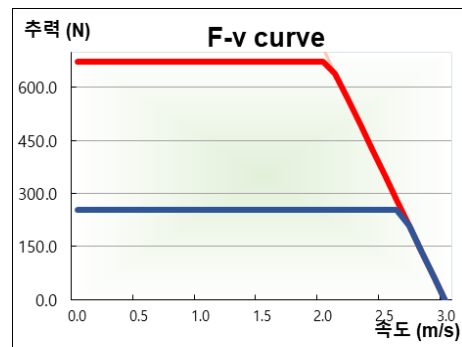
Force-Velocity Characteristics

■ Rated Area ■ Peak Area

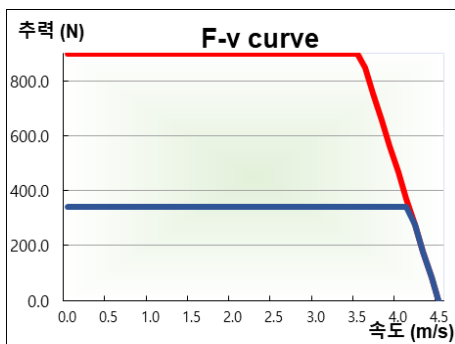
KPS-2S



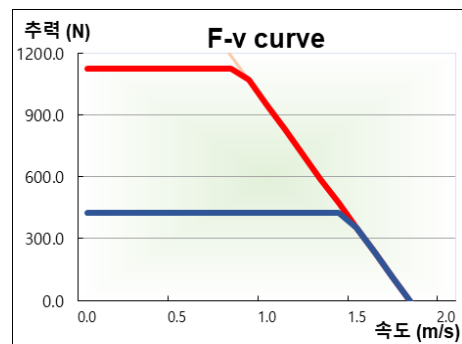
KPS-3S



KPS-2S2P



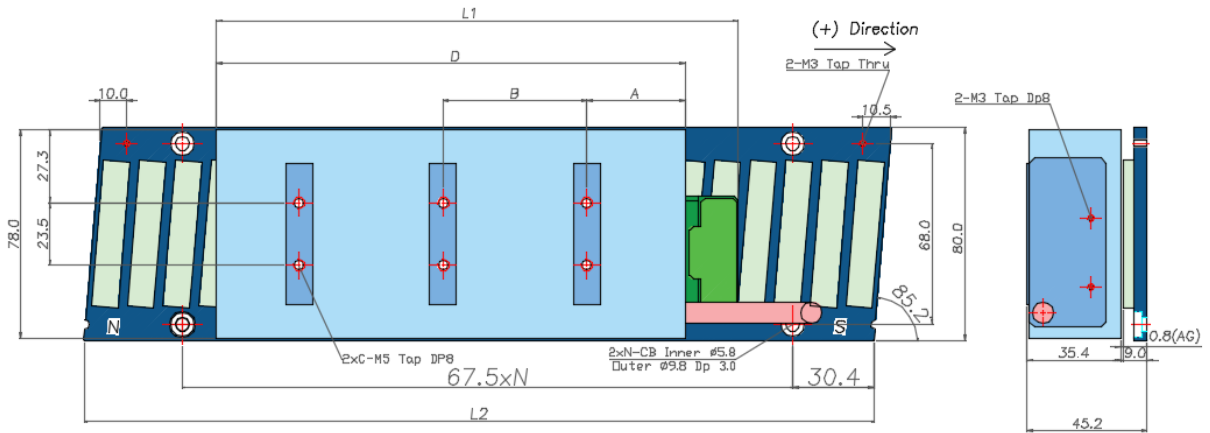
KPS-5S



Outline Dimension

Model	A [mm]	B [mm]	C(Q'ty)	D [mm]	L1 [mm]
KPS-2S	37.0	54.0	2	122.0	142.0
KPS-3S	37.0	54.0	3	176.0	196.0
KPS-2S2P	37.0	54.0	4	230.0	250.0
KPS-5S	37.0	54.0	5	284.0	304.0

• KPS-1S Models is available for special purpose.

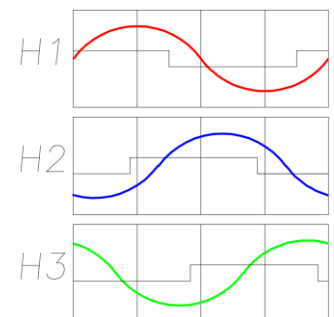


Model	L2 [mm]	N(Q'ty)	Weight [kg]	Pole Pitch [mm]
KPS-135	135.0	2	0.8	13.5
KPS-270	270.0	4	1.2	
KPS-540	540.0	8	2.4	

• Other models with special length are available.
 • Pole Pitch is (N-S or S-N) magnet distance with 180 degrees.

Motor and Hall sensor Cables

Cables	Signals	Colors	Length
Motor Cable (AWG18)	U V W FG	Red Blue Yellow 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 135 degree at falling edge.

* Hall Sensor phase at Back EMF.