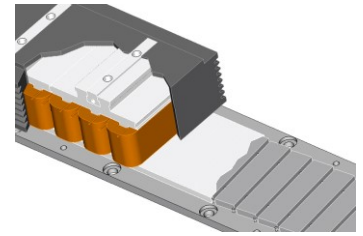


KPM Series (KLT, Platen core, Medium size)



Motor Specifications

Items		Model	KPM-2S	KPM-3S	KPM-2S2P
Force [N]	Continuous		245.8	368.7	491.6
	Peak		665.8	998.7	1,331.6
Current [A _{rms}]	Continuous		2.2	2.2	4.4
	Peak		6.8	6.8	13.6
Back EMF Const[V _{rms} /(m/s)]			37.24	55.86	37.24
Motor Constant[N/A _{rms}] ^{note1)}			111.73	167.59	111.73
Max. Velocity[m/s] ^{note2)}			2.3	1.4	2.3
Resistance [Ω] ^{note1)}			3.6	5.4	2.8
Inductance [mH] ^{note1)}			33.2	49.8	16.6
Attraction Force[N] ^{note3)}			1,143.6	1,715.4	2,287.2
Mover Weight [kg]			2.3	3.3	4.4

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

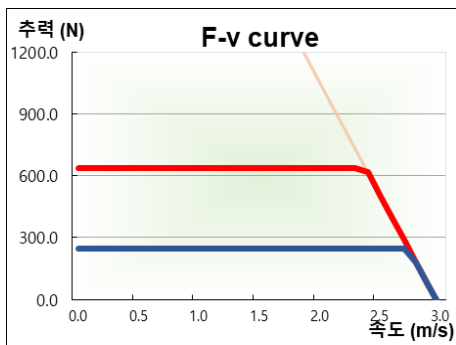
Note2) Motor Driver works for 3 phases with AC 220V and maximum velocity is subjected to modified by DC link voltage.

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

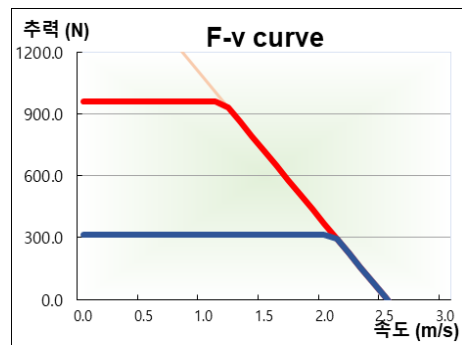
Force-Velocity Characteristics

Rated Area (Blue) Peak Area (Red)

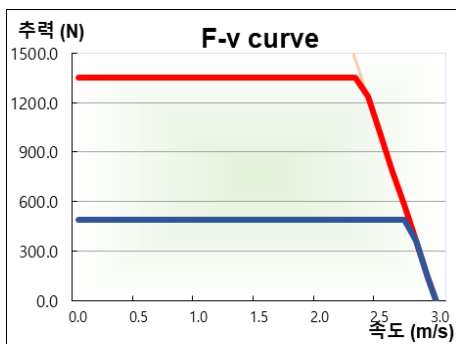
KPM-2S



KPM-3S



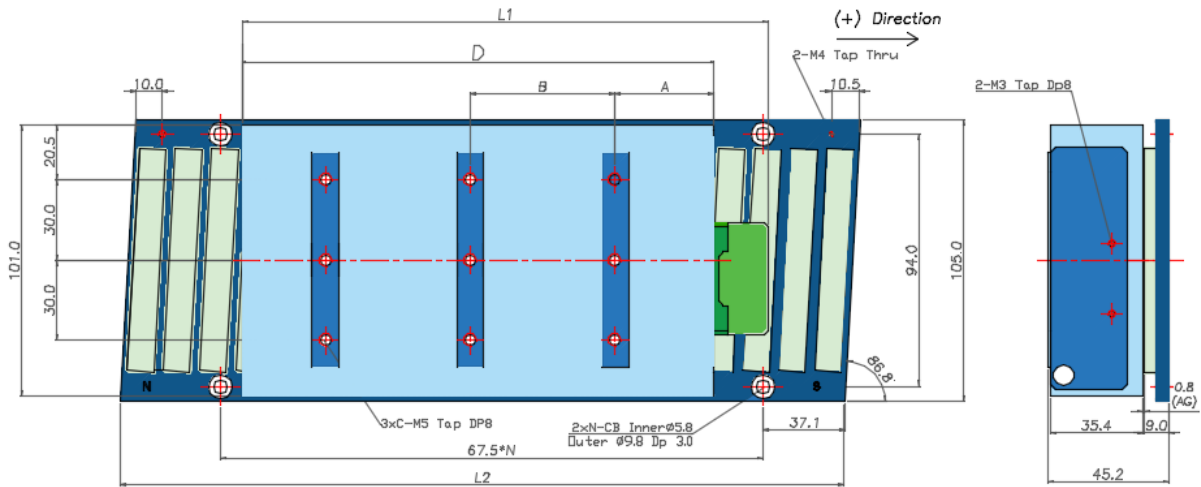
KPM-2S2P



Outline Dimension

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

- KPM-1S Models is available for special purpose.

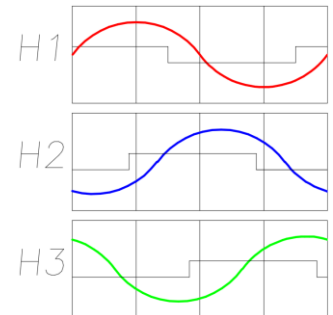


Model	L2 [mm]	N(Q'ty)	Weight [kg]	Pole Pitch [mm]
KPM-135	135.0	2	0.9	13.5
KPM-270	270.0	4	1.3	
KPM-540	540.0	8	2.5	

- 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	Red	STD: 0.6M OPTION: 1.0M, 1.5M, 2.0M, ETC
	V	Blue	
Hall Sensor Cable (AWG22)	W	Yellow	STD: 0.6M OPTION: 1.0M, 1.5M
	FG	Green	
	Thermistor	Gray/Violet	
Hall Sensor Cable (AWG22)	+5V	Red	STD: 0.6M OPTION: 1.0M, 1.5M
	GND	Black	
	H1 (U)	Blue	
	H2 (V)	Green	
	H3 (W)	White	



- The Hall offset angle in each phase is 135 degree at falling edge.

* Hall Sensor phase at Back EMF.