

NEW

KIS Series (KLT, I-shape coreless, Small size)



Motor Specifications

Model		KIS-1S	KIS-2S	KIS-3S	KIS-2S2P
Force [N]	Continuous	65.9	131.8	197.7	263.6
	Peak	211.1	422.2	633.3	844.4
Current [A _{rms}]	Continuous	2.55	2.55	2.55	5.1
	Peak	8.16	8.16	8.16	16.3
Back EMF Const[V _{rms} /(m/s)]		8.61	17.23	25.84	17.23
Motor Constant[N/A _{rms}] note1)		25.84	51.69	77.53	51.69
Max. Velocity[m/s] note2)		11.2	5.1	3.0	5.1
Resistance [Ω] note1)		3.0	5.9	8.9	3.0
Inductance [mH] note1)		0.6	1.3	1.9	0.6
Attraction Force[N] note3)		0	0	0	0
Mover Weight [kg]		0.6	0.8	1.0	1.2

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

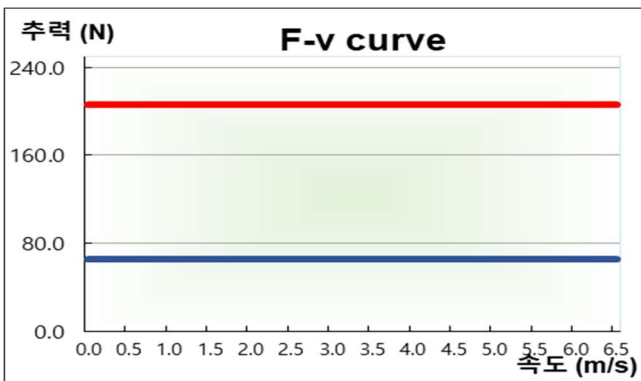
Note2) Motor Driver works for 3 phases with AC 200V~320V and maximum velocity is subjected to modified by DC link voltage.

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

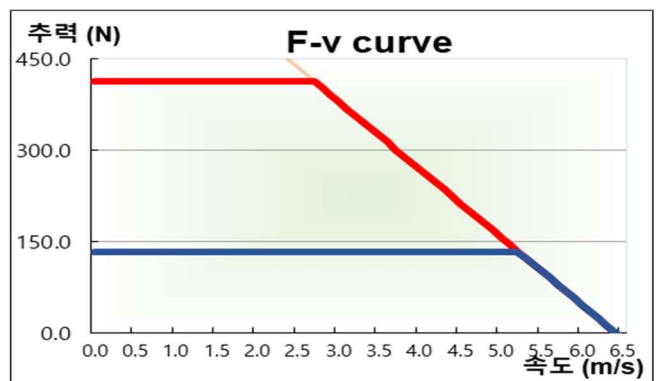
Force-Velocity Characteristics

Rated Area Peak Area

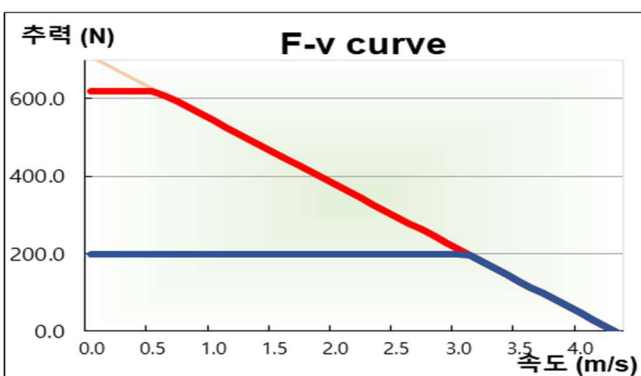
KIS-1S



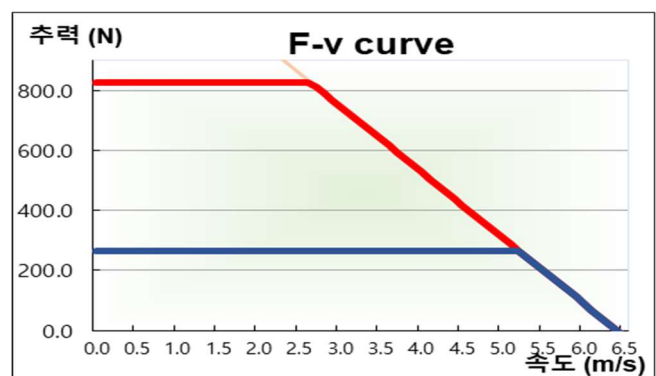
KIS-2S



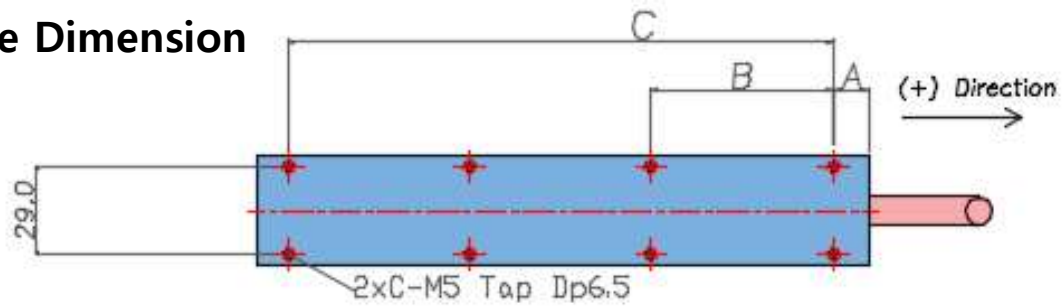
KIS-3S



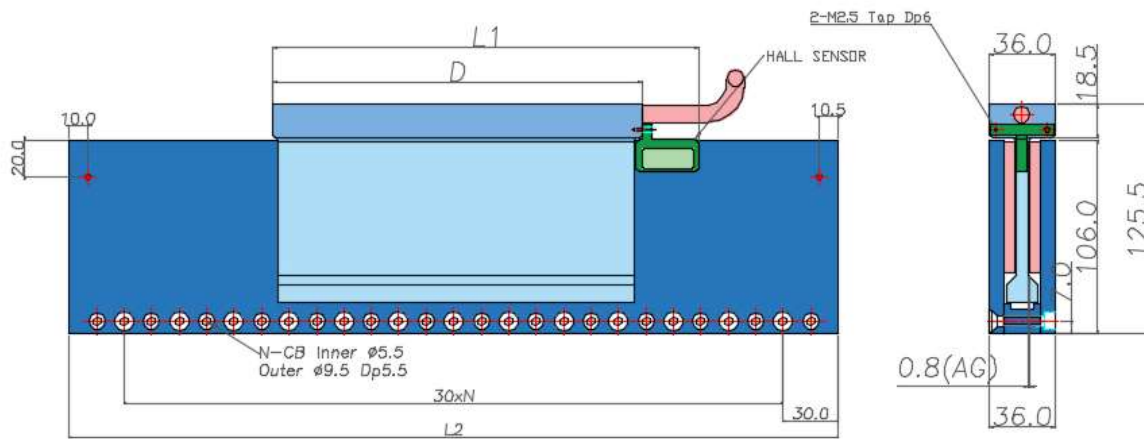
KIS-2S2P



Outline Dimension



Model	A [mm]	B [mm]	C(Q'ty)	D [mm]	L1 [mm]
KIS-1S	12.0	60.0	1	82.0	112.5
KIS-2S	12.0	60.0	2	142.0	172.5
KIS-3S	12.0	60.0	3	202.0	232.5
KIS-2S2P	12.0	60.0	4	262.0	292.5

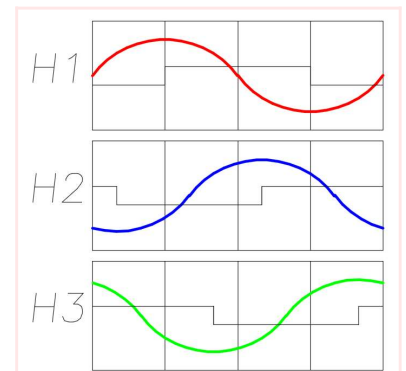


Model	L2 [mm]	N(Q'ty)	Weight [kg]	Pole Pitch
KIS-120	120.0	3	2.7	15.0mm
KIS-180	180.0	5	4.1	
KIS-300	300.0	9	6.8	
KIS-420	420.0	13	9.5	

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

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	White	
	W	Black	
	FG	Green	
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 270 degree at falling edge.

* Hall Sensor phase at Back EMF.