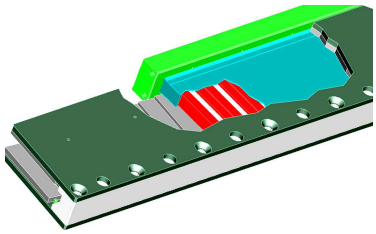
KUL Series (KLT, U-shape coreless, Large size)



Motor Specifications

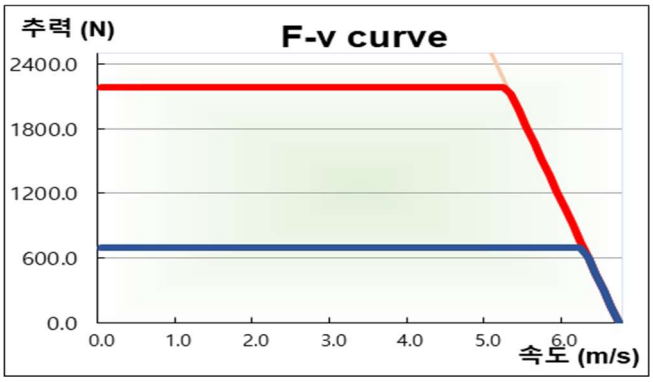
Items \ Model		KUL-2P	KUL-3P	KUL-4P	KUL-5P	KUL-6P
Force [N]	Continuous	464.6	696.9	929.2	1,161.5	1,393.8
	Peak	1,487.2	2,230.8	2,974.4	3,718.0	4,461.6
Current [A_{rms}]	Continuous	6.0	9.0	12.0	15.0	18.0
	Peak	19.2	28.8	38.4	48.0	57.6
Back EMF Const[V_{rms}/(m/s)]		25.81	25.81	25.81	25.81	25.81
Motor Constant[N/A_{rms}] note1)		77.43	77.43	77.43	77.43	77.43
Max. Velocity[m/s] note2)		6.0	6.0	6.0	6.0	6.0
Resistance [Ω] note1)		1.45	0.97	0.73	0.56	0.48
Inductance [mH] note1)		4.2	2.8	2.1	1.7	1.4
Attraction Force[N] note3)		0	0	0	0	0
Mover Weight [kg]		4.8	6.8	8.3	9.9	11.1

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.

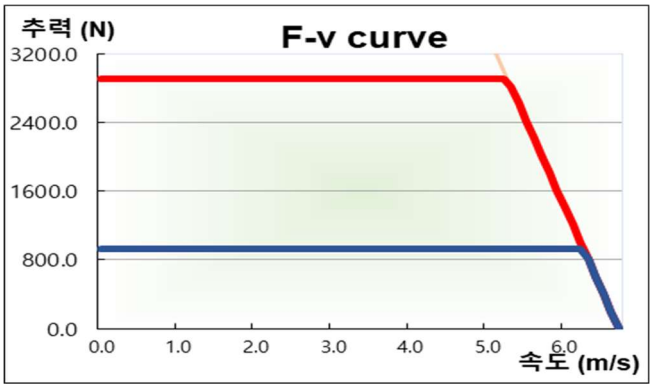
Force-Velocity Characteristics

Rated Area Peak Area

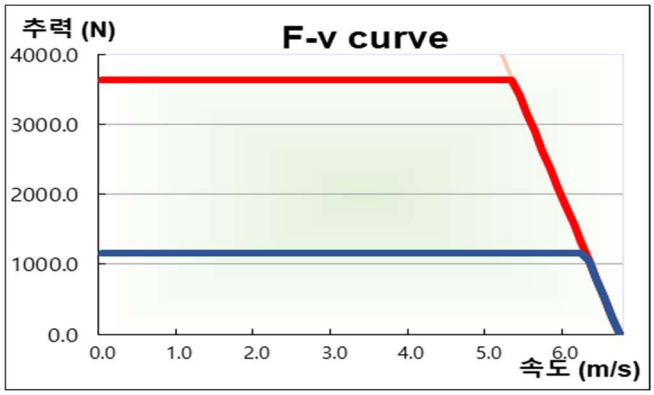
KUL-3P



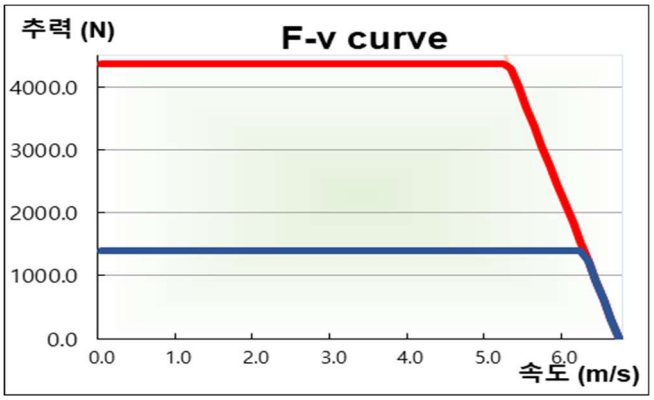
KUL-4P



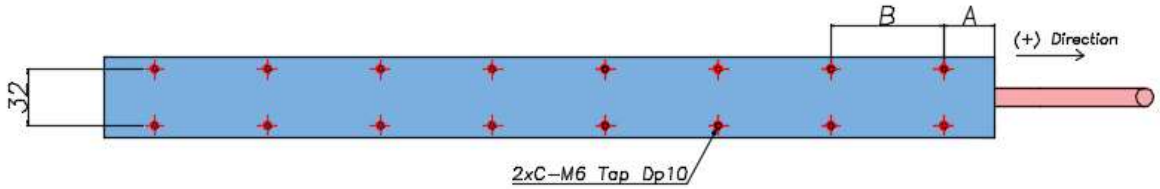
KUL-5P



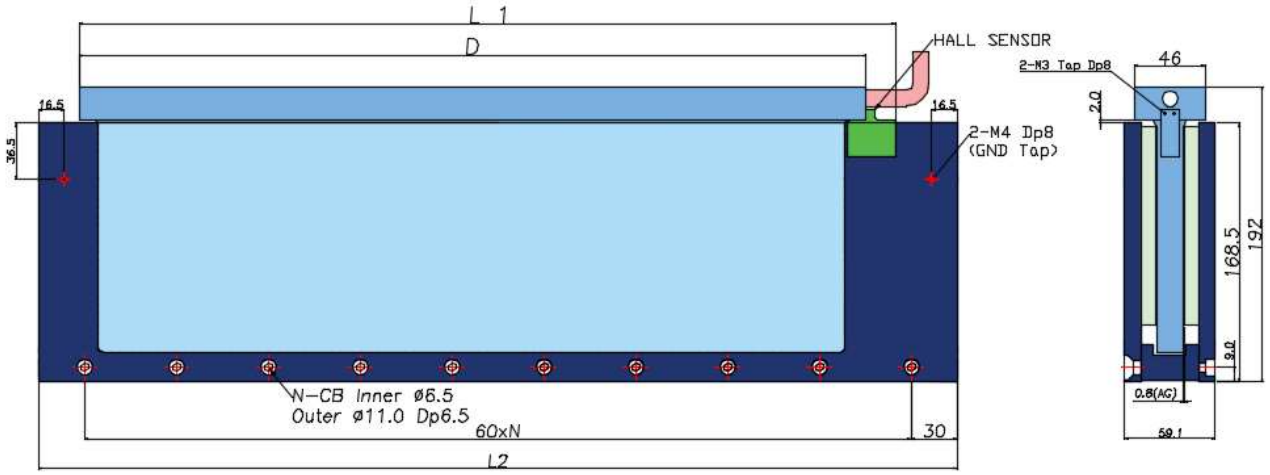
KUL-6P



Outline Dimension



Model	A [mm]	B [mm]	C(Q'ty)	D [mm]	L1 [mm]
KUL-2P	29.5	65.0	4	274.0	293.5
KUL-3P	29.5	65.0	6	394.0	413.5
KUL-4P	29.5	65.0	8	514.0	533.5
KUL-5P	29.5	65.0	10	634.0	653.5
KUL-6P	29.5	65.0	12	754.0	773.5



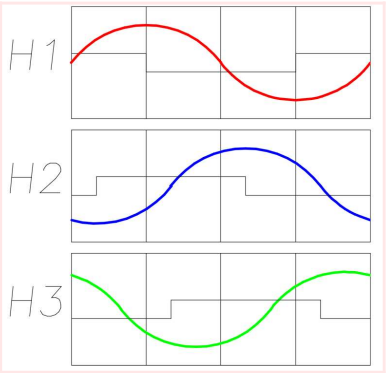
Model	L2 [mm]	N(Q'ty)	Weight [kg]	Pole Pitch
KUL-120	120.0	2	2.4	30.0mm
KUL-180	180.0	3	7.5	
KUL-300	300.0	5	13.5	
KUL-360	360.0	6	16.1	

- 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 (AWG14)	U V W FG	Brown Black 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 90 degree at falling edge.



* Hall Sensor phase at Back EMF.