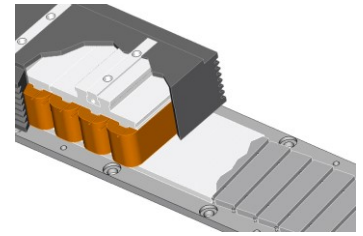


NEW

K45 Series (KLT, 45series Core type Motor)



Motor Specifications

Items		Model	K45-1S	K45-2S	K45-3S	K45-4S
Force [N]	Continuous		45.5	91.0	136.5	182.0
	Peak		144.0	288.0	432.1	576.1
Current [A _{rms}]	Continuous		2.0	2.0	2.0	2.0
	Peak		7.1	7.1	7.1	7.1
Back EMF Const[V _{rms} /(m/s)]			7.47	17.94	22.41	29.89
Motor Constant[N/A _{rms}] ^{note1)}			22.41	44.83	67.24	89.66
Max. Velocity[m/s] ^{note2)}			13.7	6.6	4.2	3.0
Resistance [Ω] ^{note1)}			1.6	3.1	4.7	6.2
Inductance [mH] ^{note1)}			8.0	16.0	24.1	32.1
Attraction Force[N] ^{note3)}			309	619	928	1238
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.

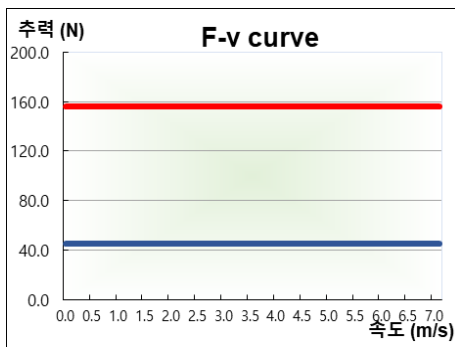
Note2) Motor Driver works for 3 phases with AC 220V and maximum velocity is subjected to modified by DC link voltage.

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

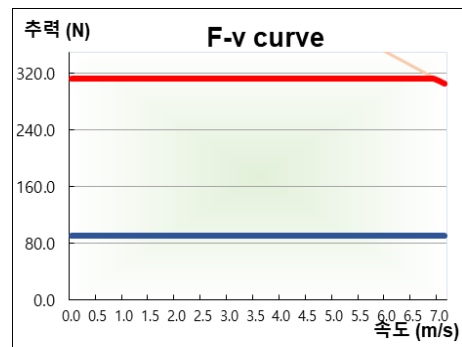
Force-Velocity Characteristics

■ Rated Area ■ Peak Area

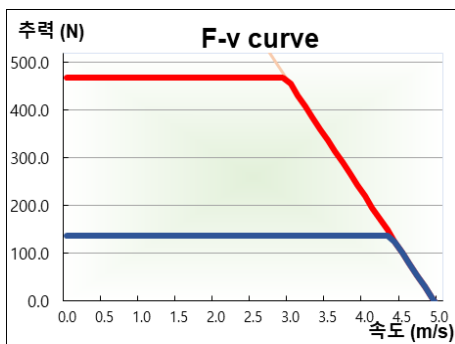
K45-1S



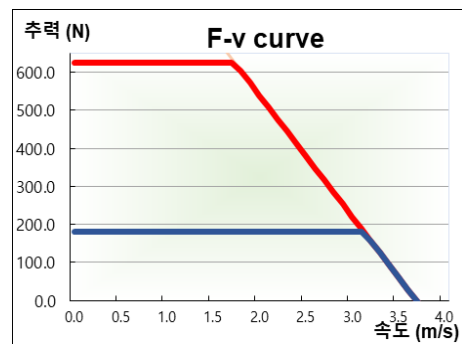
K45-2S



K45-3S

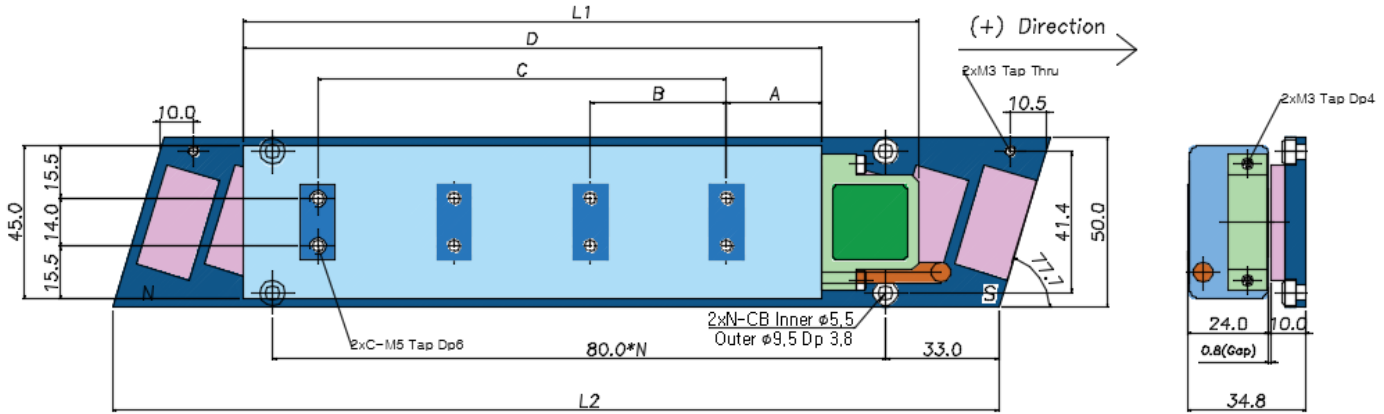


K45-4S



Outline Dimension

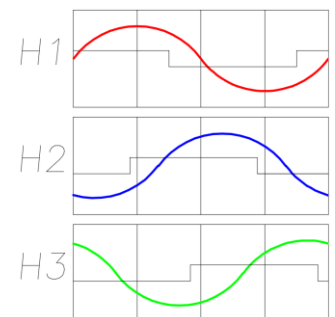
Model	A [mm]	B [mm]	C(Q'ty)	D [mm]	L1 [mm]
K45-1S	28.0	40.0	2	90.0	118.5
K45-2S	17.0	24.0	4	170.0	198.5
K45-3S	17.0	24.0	6	250.0	278.5
K45-4S	17.0	24.0	8	330.0	358.5



Model	L2 [mm]	N(Q'ty)	Weight [kg]	Pole Pitch [mm]
K45-160	160.0	2	0.5	20.0
K45-240	240.0	3	0.7	
K45-320	320.0	4	1.0	

Motor and Hall sensor Cables

Cables	Signals	Colors	Length
Motor Cable (AWG20)	U V W FG	Red White Black 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.