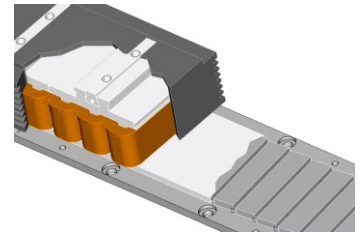


# KPLE Series (KLT, Platen core, Large size) (Economic Type)



## Motor Specifications

Items		Model	KPLE-2P	KPLE-3P	KPLE-4P	KPLE-5P
Force [N]	Continuous		691.0	1,036.5	1,382.0	1,727.5
	Peak		1,712.0	2,568.0	3,424.0	4,280.0
Current [A <sub>rms</sub> ]	Continuous		6.0	9.0	12.0	15.0
	Peak		19.2	28.8	38.4	48.0
Back EMF Const[V <sub>rms</sub> /(m/s)]			38.39	38.39	38.39	38.39
Motor Constant[N/A <sub>rms</sub> ] <sup>note1)</sup>			115.17	115.17	115.17	115.17
Max. Velocity[m/s] <sup>note2)</sup>			2.1	2.1	2.1	2.1
Resistance [Ω] <sup>note1)</sup>			1.4	0.9	0.7	0.5
Inductance [mH] <sup>note1)</sup>			22.8	15.2	11.4	9.1
Attraction Force[N] <sup>note3)</sup>			2,432.4	3,648.6	4,864.8	6,081.0
Mover Weight [kg]			6.7	10.1	13.5	17.5

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

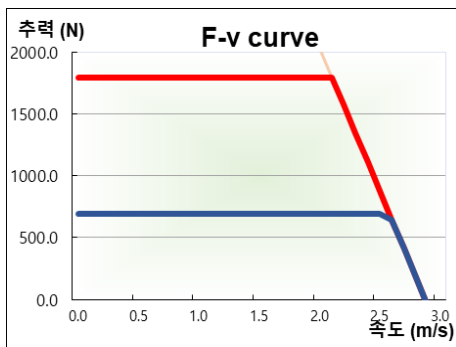
Note2) Motor Driver works for 3 phases with AC 220V ~ 380V and maximum velocity is subjected to modified by DC link voltage.

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

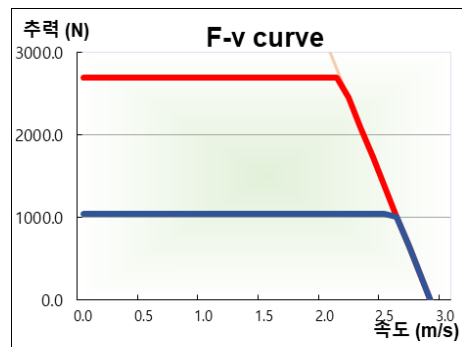
## Force-Velocity Characteristics

■ Rated Area    ■ Peak Area

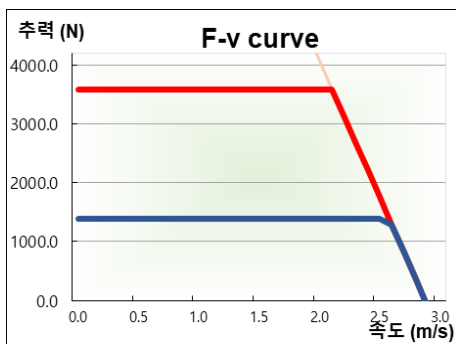
KPLE-3P



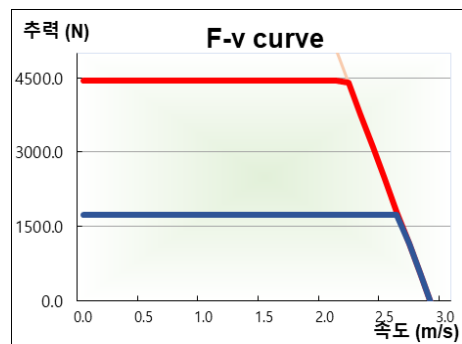
KPLE-4P



KPLE-5P



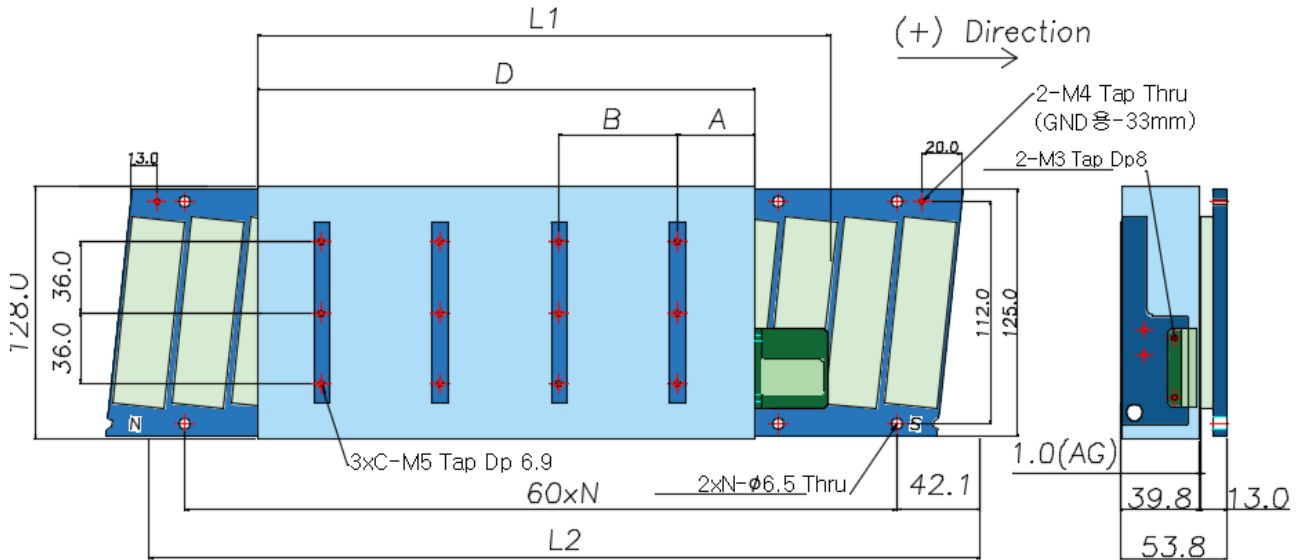
KPLE-6P



## Outline Dimension

Model	A [mm]	B [mm]	C(Q'ty)	D [mm]	L1 [mm]
KPLE-2P	37.0	60.0	4	251.0	288.0
KPLE-3P	37.0	60.0	6	371.0	408.0
KPLE-4P	37.0	60.0	8	491.0	528.0
KPLE-5P	37.0	60.0	10	611.0	648.0

• KPLE-1P and KPLE-2S2P Models are available for special purpose.

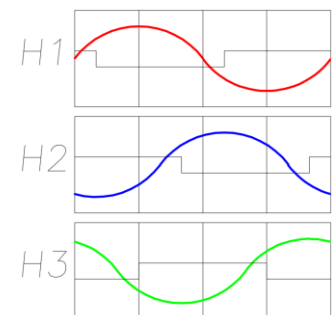


Model	L2 [mm]	N(Q'ty)	Weight [kg]	Pole Pitch [mm]
KPLE-120	120.0	2	1.5	30.0
KPLE-240	240.0	4	2.5	
KPLE-420	420.0	7	5.0	
KPLE-540	540.0	9	7.1	

• Pole Pitch is (N-S or S-N) magnet distance with 180 degrees.

## Motor and Hall sensor Cables

Cables	Signals	Colors	Length
Motor Cable (AWG16)	U V W FG	Brown Black Gray(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 30 degree at falling edge.

\* Hall Sensor phase at Back EMF.