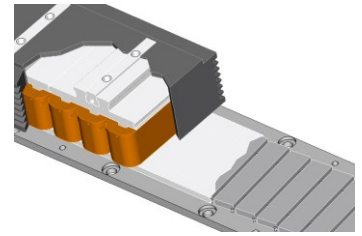


KPX Series (KLT, Platen core, X-large size)



Motor Specifications

| Items | | Model | KPX-2P | KPX-3P | KPX-4P | KPX-5P |
|---|------------|-------|---------|---------|----------|----------|
| | | | | | | |
| Force [N] | Continuous | | 1,300.0 | 1,950.0 | 2,600.0 | 3,250.0 |
| | Peak | | 3,638.0 | 5,457.0 | 7,276.0 | 9,095.0 |
| Current [A _{rms}] | Continuous | | 6.8 | 10.2 | 13.6 | 17.0 |
| | Peak | | 21.0 | 31.5 | 42.0 | 52.5 |
| Back EMF Const[V _{rms} /(m/s)] | | | 63.7 | 63.7 | 63.7 | 63.7 |
| Motor Constant[N/A _{rms}] ^{note1)} | | | 191.2 | 191.2 | 191.2 | 191.2 |
| Max. Velocity[m/s] ^{note2)} | | | 1.0 | 1.0 | 1.0 | 1.0 |
| Resistance [Ω] ^{note1)} | | | 1.8 | 1.2 | 0.9 | 0.7 |
| Inductance [mH] ^{note1)} | | | 30.9 | 20.6 | 15.5 | 12.4 |
| Attraction Force[N] ^{note3)} | | | 6,104.6 | 9,156.9 | 12,209.2 | 15,261.5 |
| Mover Weight [kg] | | | 16.8 | 20.4 | 26.6 | 32.8 |

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

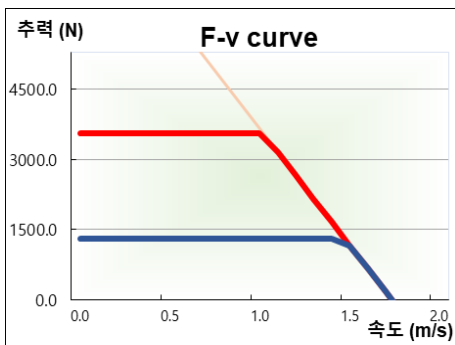
Note2) Motor Driver works for 3 phases with AC 220V ~ 380V and maximum velocity is subjected to modified by DC link voltage.

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

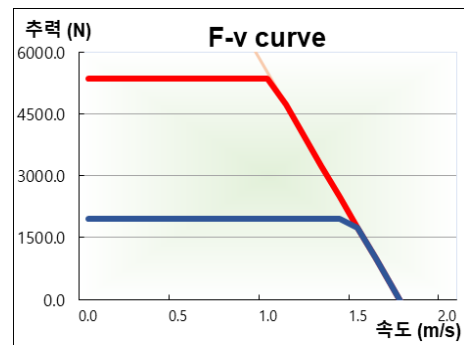
Force-Velocity Characteristics

■ Rated Area ■ Peak Area

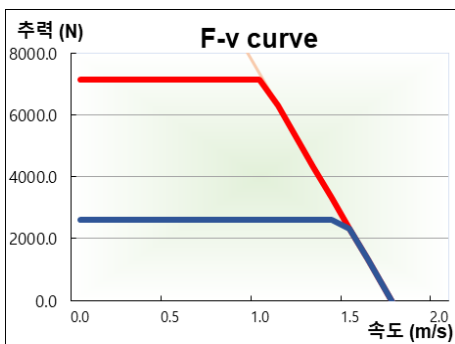
KPX-2P



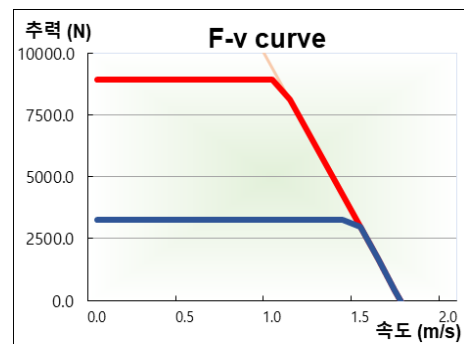
KPX-3P



KPX-4P



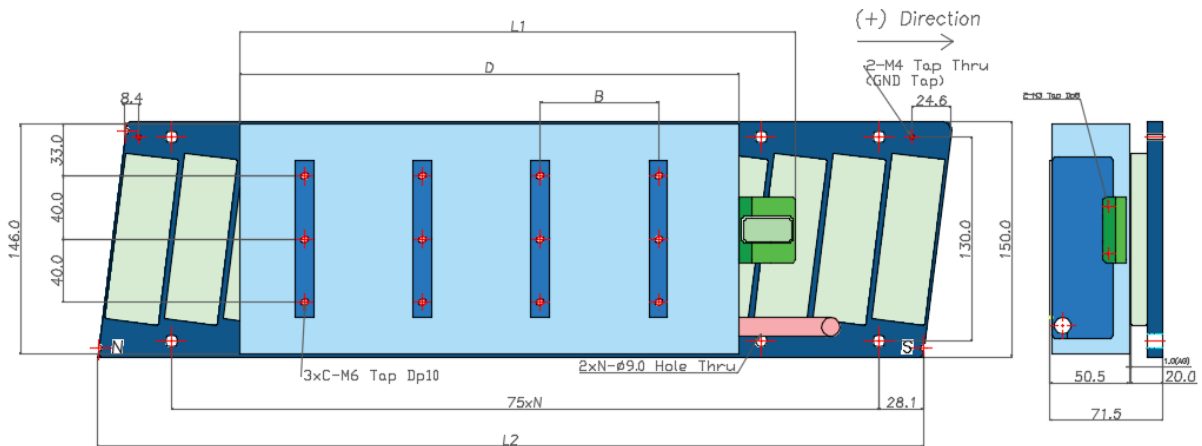
KPX-5P



Outline Dimension

| Model | A [mm] | B [mm] | C(Q'ty) | D [mm] | L1 [mm] |
|-----------|--------|--------|---------|--------|---------|
| KPX-2P | 51.5 | 75.0 | 4 | 318.0 | 354.0 |
| KPX-3P | 51.5 | 75.0 | 6 | 468.0 | 504.0 |
| KPX(D)-4P | 51.5 | 75.0 | 8 | 618.0 | 654.0 |
| KPX(D)-5P | 51.5 | 75.0 | 12 | 768.0 | 804.0 |

- KPXD model is available to increase the velocity.

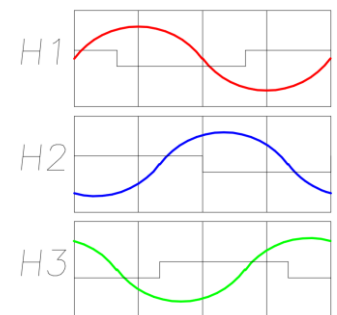


| Model | L2 [mm] | N(Q'ty) | Weight [kg] | Pole Pitch [mm] |
|---------|---------|---------|-------------|-----------------|
| KPX-75 | 75.0 | 1 | 1.5 | 37.5 |
| KPX-150 | 150.0 | 2 | 2.9 | |
| KPX-225 | 225.0 | 3 | 3.8 | |
| KPX-300 | 300.0 | 4 | 4.7 | |

- Pole Pitch is (N-S or S-N) magnet distance with 180 degrees.
- KPX-450 model can be supplied for specific order.

Motor and Hall sensor Cables

| Cables | Signals | Colors | Length |
|---------------------------|--|--|---|
| Motor Cable (AWG14) | 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 60 degree at falling edge.

* Hall Sensor phase at Back EMF.