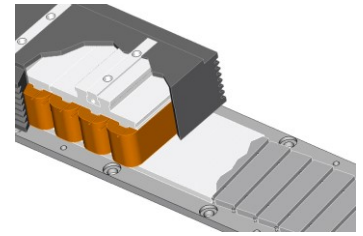


NEW

KPXXDR Series (KLT, Platen core, XX-large size) (High velocity, High Force with short length)



Motor Specifications

| Model | | KPXXD-1P (Air Cooling) | KPXXD-2P (Air Cooling) | KPXXD-3P (Air Cooling) | KPXXD-4P (Air Cooling) | KPXXD-4P (Air Cooling) |
|---|------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Force [N] | Continuous | 753.1(860.4) | 1,506.2(1720.8) | 2259.2(2581.2) | 3012.4(3441.6) | 3765.5(4302.0) |
| | Peak | 2,091.8(2302.8) | 4,183.6(4605.6) | 6275.4(6908.4) | 8367.2(9211.2.6) | 10459.0(11514.4) |
| Current [A _{rms}] | Continuous | 7.24 | 14.48 | 21.72 | 28.96 | 36.2 |
| | Peak | 22.4 | 44.9 | 67.3 | 89.7 | 112.2 |
| Back EMF Const[V _{rms} /(m/s)] | | 34.67 | 34.67 | 34.67 | 34.67 | 34.67 |
| Motor Constant[N/A _{rms}] ^{note1)} | | 104.0 | 104.0 | 104.0 | 104.0 | 104.0 |
| Max. Velocity[m/s] ^{note2)} | | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| Resistance [Ω] ^{note1)} | | 1.03 | 0.52 | 0.34 | 0.26 | 0.21 |
| Inductance [mH] ^{note1)} | | 19.7 | 9.9 | 6.6 | 4.9 | 3.9 |
| Attraction Force[N] ^{note3)} | | 3,501 | 7,002 | 10,503 | 14,004 | 17,505 |
| Mover Weight [kg] | | 9.5 | 13.7 | 17.9 | 22.1 | 26.3 |

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

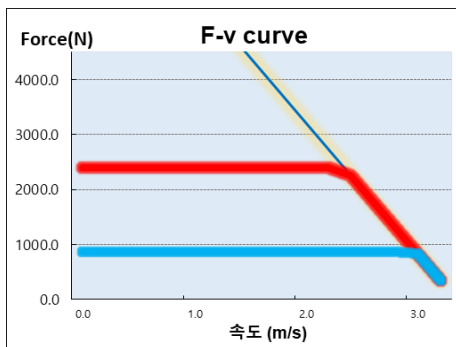
Note2) Motor Driver works for 3 phases with AC 220V ~ 380V and maximum velocity is subjected to modified by DC link voltage.

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

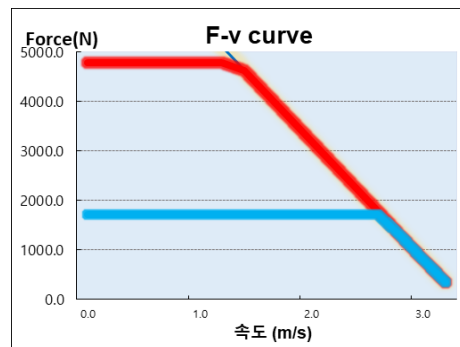
Force-Velocity Characteristics

Rated Area Peak Area

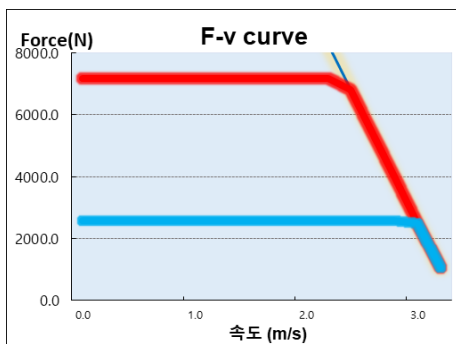
KPXXD-1P(A)



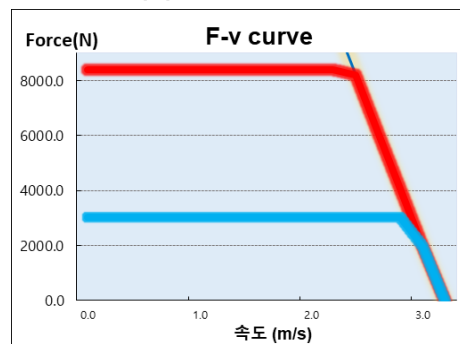
KPXXD-2P(A)



KPXXD-3P(A)

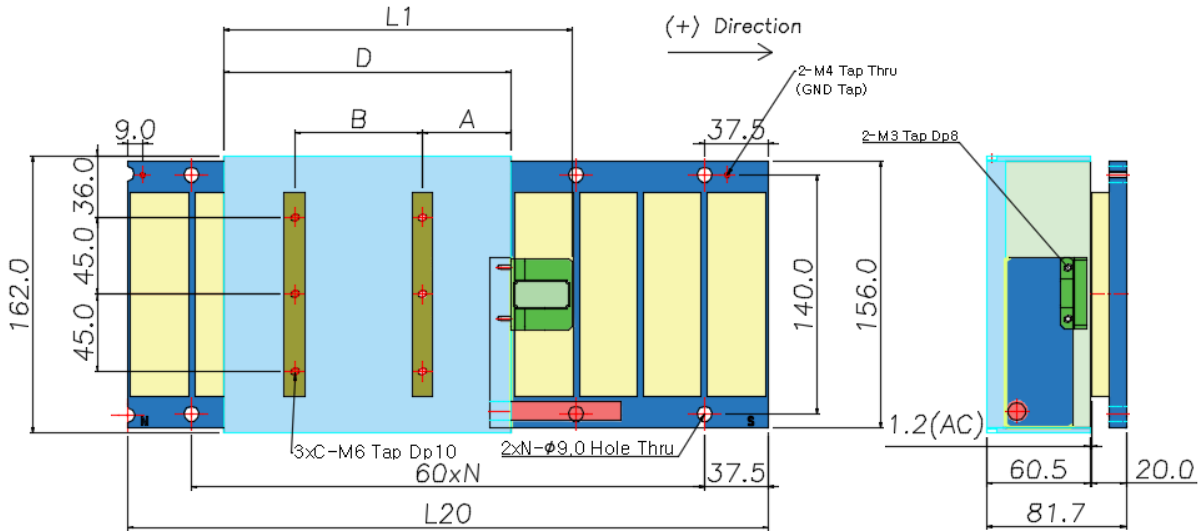


KPXXD-4P(A)



Outline Dimension

| Model | A [mm] | B [mm] | C(Q'ty) | D [mm] | L1 [mm] |
|-----------|--------|--------|---------|--------|---------|
| KPXXDR-1P | 51.5 | 75.0 | 2 | 168.0 | 204.0 |
| KPXXDR-2P | 51.5 | 75.0 | 4 | 318.0 | 354.0 |
| KPXXDR-3P | 51.5 | 75.0 | 6 | 468.0 | 504.0 |
| KPXXDR-4P | 51.5 | 75.0 | 8 | 618.0 | 654.0 |
| KPXXDR-5P | 51.5 | 75.0 | 10 | 768.0 | 804.0 |

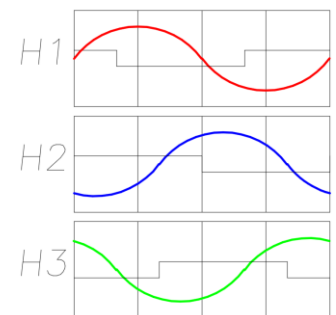


| Model | L2 [mm] | N(Q'ty) | Weight [kg] | Pole Pitch [mm] |
|------------|---------|---------|-------------|-----------------|
| KPXXDR-75 | 75.0 | 1 | 1.8 | 37.5 |
| KPXXDR-150 | 150.0 | 2 | 3.2 | |
| KPXXDR-225 | 225.0 | 3 | 4.1 | |
| KPXXDR-300 | 300.0 | 4 | 5.0 | |

- Pole Pitch is (N-S or S-N) magnet distance with 180 degrees.
- Magnet Angle is 90 degrees.

Motor and Hall sensor Cables

| Cables | Signals | Colors | Length |
|---------------------------|--|--|---|
| Motor Cable (AWG12) | 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.