



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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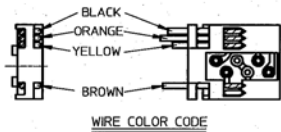
Standard PM Step Motors

PM55L-048-HHD0

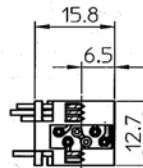
Step Angle: 7.5°

Model Specifications

| | |
|---------------|-------------------------------|
| Model: | PM55L-048-HHD0 |
| Shaft Length: | 15mm |
| Wire Length: | 300mm fly lead (no connector) |
| Wire Holder: | 90 deg. Left |
| Front Plate: | FPH (65mm pitch) |
| Electrical: | 24V, 600mA |
| | Bipolar Constant Current |
| | 5.5 ohms, MS70M |



| WIRE COLOR | MOTOR |
|------------|-------|
| BLACK | A1 |
| BROWN | A3 |
| ORANGE | B1 |
| YELLOW | B3 |



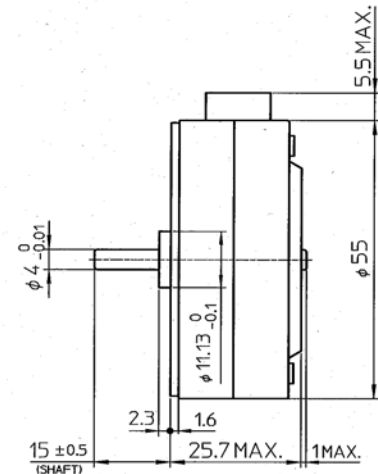
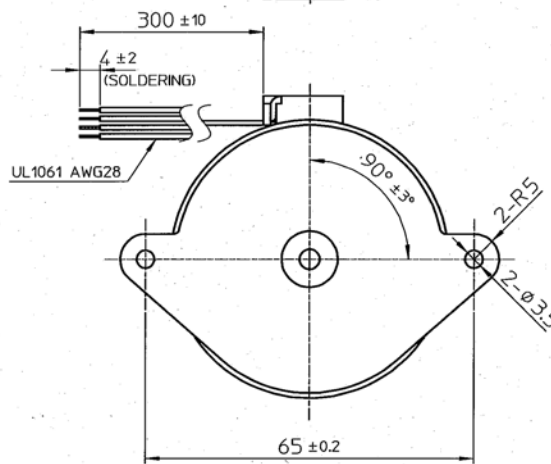
MARKING (SCALE : 3/2)

NMB-MAT PM55L-048-HHD0
JAPAN H9820
<JAPAN>

NMB-MAT PM55L-048-HHD0
THAILAND TA9820
<THAILAND>

| COLOR | BLACK | ORANGE | BROWN | YELLOW |
|--------|-------|--------|-------|--------|
| STEP 1 | - | + | + | - |
| STEP 2 | - | - | + | + |
| STEP 3 | + | - | - | + |
| STEP 4 | + | + | - | - |

SWITCHING SEQUENCE
(VIEWED FROM MOUNTING SURFACE)





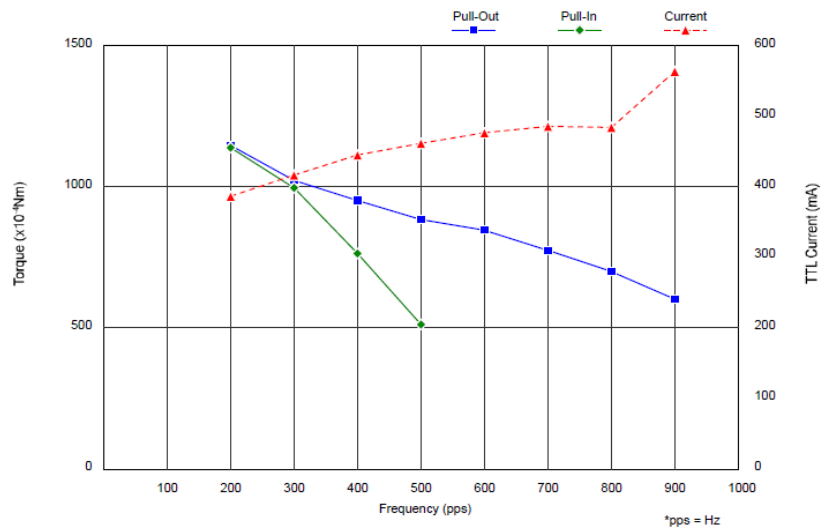
Standard PM Step Motors

PM55L-048-HHD0

DYNAMIC TORQUE CHARACTERISTICS (No. 62786)

(ALL VALUES ARE GAINED BY MEASUREMENT AND NOT SPECIFICATIONS VALUES)

Model : PM55L-048-HHD0
 Drive Mode : BIPOLAR CHOPPER
 Drive Voltage : 24.0 V
 Method : 2-2P
 Drive IC : UDN2917EB
 Surge/Current : / 600 mA / Phase (Peak)
 Coil Resistance : 5.5 Ω
 Magnet Material : MS70M
 Stator Material : SECC



(TTL Current = Over all current drawn by the driver)

| Frequency (pps) | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
|-----------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|
| ■ Pull-Out (x10 ⁻⁴ Nm) | 1145.5 | 1022.9 | 950.3 | 884.6 | 844.4 | 772.8 | 700.2 | 600.2 |
| ◆ Pull-In (x10 ⁻⁴ Nm) | 1137.6 | 994.4 | 764.9 | 511.9 | | | | |
| ▲ Current (mA) | 387 | 416 | 445 | 461 | 476 | 486 | 484 | 564 |

Minebea Motor Manufacturing Corporation