



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

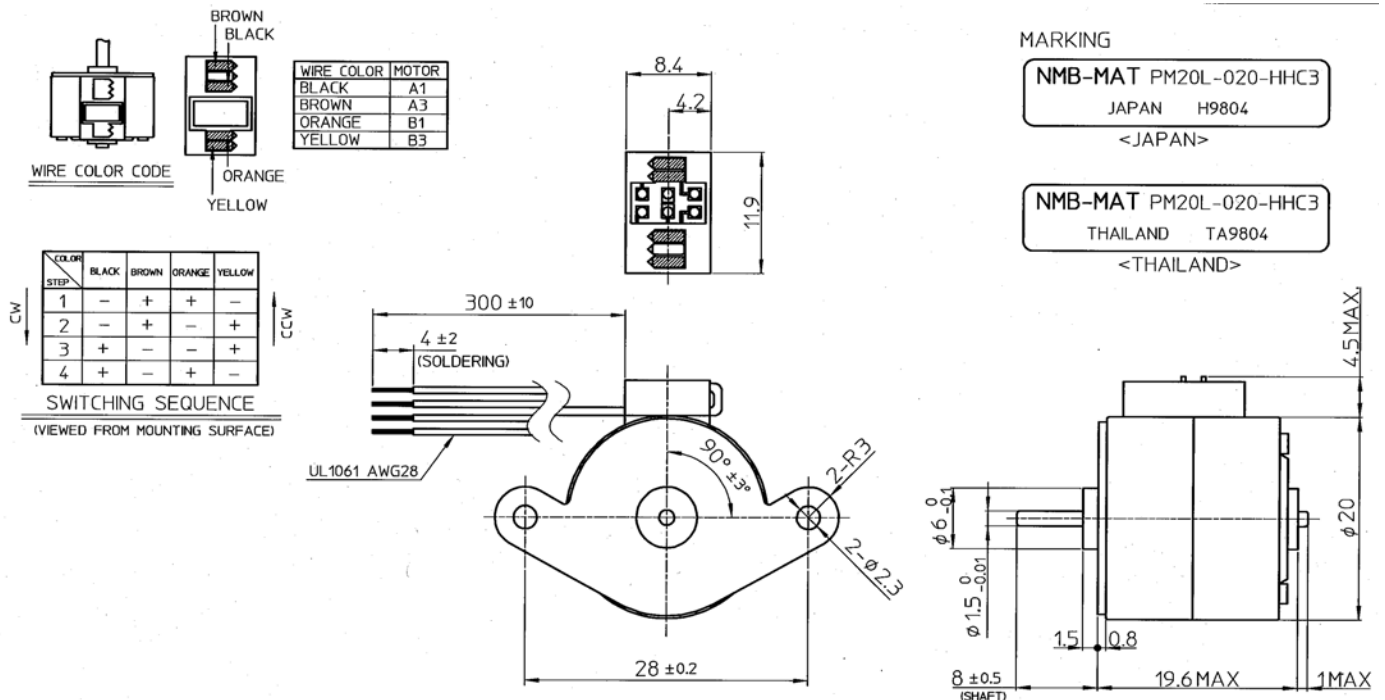
PM20L-020-HHC3

Step Angle: 18°

Model Specifications

Model:	PM20L-020-HHC3
Shaft Length:	8mm
Wire Length:	300mm fly lead (no connector)
Wire Holder:	90 deg. Left
Front Plate:	FPH
Electrical:	24V, 400mA
	Bipolar Constant Current
	13 ohms, MS70A

Unit: mm



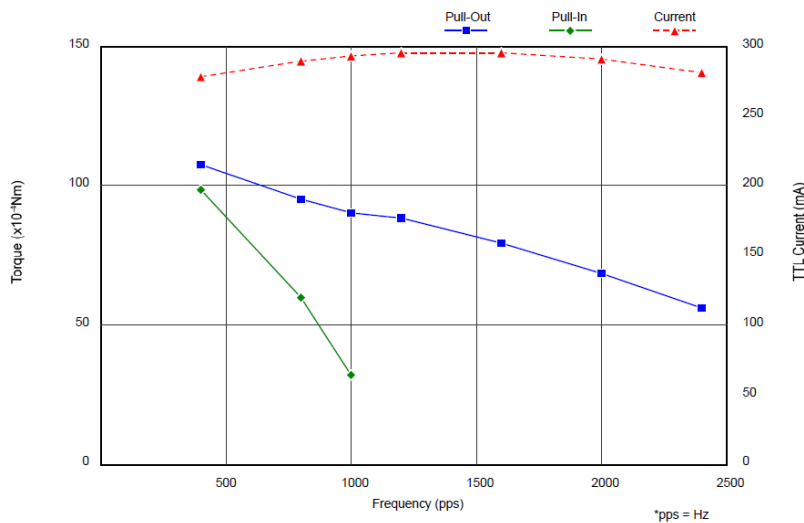
Standard PM Step Motors

PM20L-020-HHC3

DYNAMIC TORQUE CHARACTERISTICS (No. 62888)

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

Model : PM20L-020-HHC3
 Drive Mode : BIPOLAR CHOPPER
 Drive Voltage : 24.0 V
 Method : 2-2P
 Drive IC : UDN2916B-V
 Surge/Current : / 400 mA / Phase (Peak)
 Coil Resistance : 13.0 Ω
 Magnet Material : MS70A
 Stator Material : SUY/SPC(Ni)



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

Frequency (pps)	400	800	1000	1200	1600	2000	2400
■ Pull-Out (x10 ⁻⁴ Nm)	107.5	95.1	90.2	88.5	79.2	68.5	55.9
◆ Pull-In (x10 ⁻⁴ Nm)	98.3	59.8	32.0				
▲ Current (mA)	278	289	293	295	295	291	281

Minebea Motor Manufacturing Corporation