

MOONS'

STEPPER MOTOR WITH GEARHEAD SPECIFICATION

MOONS' MODEL
PG15L0050-15P020S0-02
4611120002321

版本 REV	描 述 DESCRIPTION	日期 DATE
A	FIRST ISSUED	2018.10.23
B	更改标签版本	2019.11.07
B1	增加备用连接器 ▲	2021.12.09

上海鸣志电器股份有限公司
SHANGHAI MOONS' ELECTRIC CO., LTD.
中国上海市闵北工业区鸣嘉路168号
North Minhang Industrial Park District
168 Mingjia Rd, Shanghai, China

1. RATED CHARACTERISTICS AND CONDITIONS

NO.	ITEM	SPECIFICATION	REMARK
1.1	Constant Voltage Range	5 VDC	with Chopper Driver
1.2	Nominal Voltages	10 & 24 Volts	
1.3	Operating Current	N/A	with Chopper Driver
1.4	Phase Number	Two(2)	Phases A & B
1.5	Gear Ratio	1:50	Planetary Gearhead
1.6	Step Angle	18° /50(=0.36°)	Gear Ratio=1:50
1.7	Excitation Method	Bipolar;Full-step	with Chopper Driver IC
1.8	Insulation Class	Class E	

2. ELECTRICAL CHARACTERISTICS

NO.	ITEM	SPECIFICATION	REMARK
2.1	Resistance per Phase	10 Ω $\pm$ 10%	②5℃
2.2	Inductance per Phase A/B	2.8 mH $\pm$ 20%	①kHz 1V rms
2.3	Output Torque	0.5 kgf.cm min. 5V,200pps Full step	
2.4	Step Angle Accuracy	18° $\pm$ 7%(as of Motor)	① pps Full-Step
2.5	Insulation Resistance	100 M Ω min.	Case-lead DC500V
2.6	Dielectric Strength	Leak Current 3mA max.	Case-lead AC600V 1 sec.
2.7	Direction of Rotation	CW & CCW	Seen from Gearhead Side

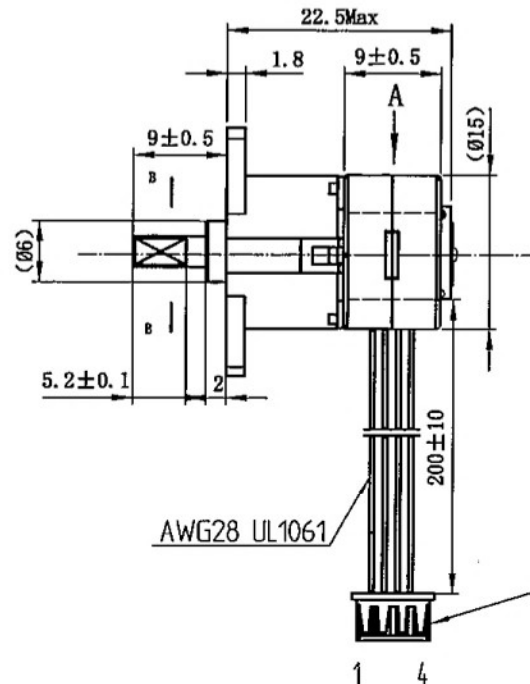
3. MECHANICAL CHARACTERISTICS

NO.	ITEM	SPECIFICATION	REMARK
3.1	Outline Dimension	As Attached Outline Drawing	
3.2	Noise	50dB max	Distance 0.1m
3.3	Rated Weight	11g REF.	

4. OPERATING CONDITIONS

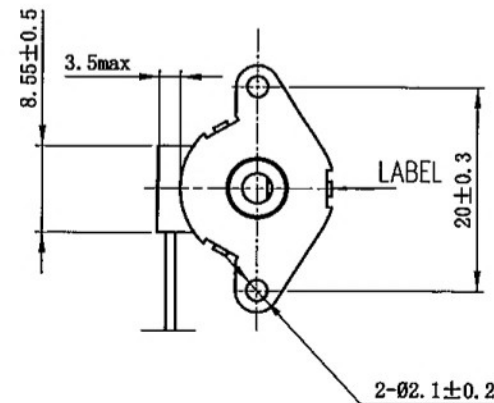
NO.	ITEM	SPECIFICATION	REMARK
4.1	Ambient Temperature	0℃~+50℃	
4.2	Ambient Humidity	20~90%RH	No Condensation
4.3	Storage Temperature	-30℃~+80℃	

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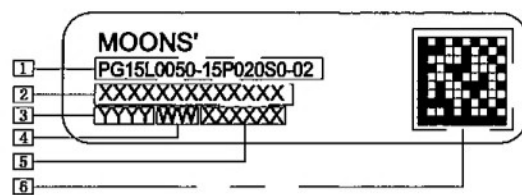


HOUSING TYPE: JST PHR-4 OR CWB PH-4Y

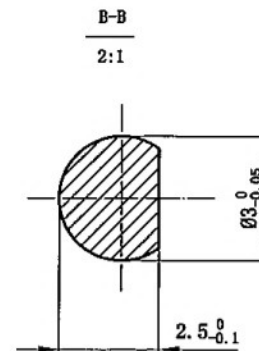
CONTACT TYPE: JST SPH-002-P0.5S OR CWB PH-T



DETAIL A



1	Moons' Motor Code
2	Customer Code
3	Year
4	Week
5	Serial Number
6	Barcode 1+3+4+5



CONNECTOR PIN LOCATION

	PIN NO.	CCW ← → CW (SEEN FROM FLANGE SIDE)				PHASE
BLACK	1	ON	ON		ON	A
BROWN	2			ON	ON	$\bar{A}$
YELLOW	3	ON			ON	$\bar{B}$
OGANGE	4		ON	ON		B

Unit : mm

第一角画法

FIRST ANGLE METHOD

未注公差均按尺寸公差

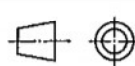
Tolerances for linear and angular dimensions without individual tolerance indications

GB/T 1804-m eqv ISO 2768-1'm

未注形位公差均按尺寸公差

Geometrical tolerances for features without individual tolerance indications

GB/T 1184-K eqv ISO 2768-2'K



批准 Approve

标准化 Standard

工艺 Technology

审核 Check

设计 Design

NAMES

SIGNATURE

DATE

MOONS'

moving in better ways

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A	原始版本 Original revision	2018.10.23
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UNLESS OTHERWISE SPECIFIED