

# 86 mm sq. (3.39 inch sq.)

1.8° /step **RoHS**

Bipolar winding, Lead wire type  
 Bipolar winding, Lead wire type CE/UL model  
 Bipolar winding, Terminal block type CE/UL model  
 Unipolar winding, Lead wire type ▶ p. 78  
 Unipolar winding, Lead wire type CE/UL model ▶ p. 78

### Customizing

**Hollow** **Shaft modification**  
**Encoder**

Varies depending on the model number and quantity. Contact us for details.

### Bipolar winding, Lead wire type

Model number		Holding torque at 2-phase energization [N·m (oz·in) min.]	Rated current A/phase	Wiring resistance Ω /phase	Winding inductance mH/phase	Rotor inertia [ $\times 10^{-4}$ kg·m <sup>2</sup> (oz·in <sup>2</sup> )]	Mass (Weight) [kg (lbs)]	Motor length (L) mm (in)
Single shaft	Dual shaft							
SH2861-5041	SH2861-5011	3.3 (467.3)	2	2.2	15	1.48 (8.09)	1.75 (3.92)	66 (2.6)
SH2861-5141	SH2861-5111	3.3 (467.3)	4	0.56	3.7	1.48 (8.09)	1.75 (3.92)	66 (2.6)
SH2861-5241	SH2861-5211	3.3 (467.3)	6	0.29	1.7	1.48 (8.09)	1.75 (3.92)	66 (2.6)
SH2862-5041	SH2862-5011	6.4 (906.3)	2	3.2	25	3.0 (16.4)	2.9 (6.5)	96.5 (3.8)
SH2862-5141	SH2862-5111	6.4 (906.3)	4	0.83	6.4	3.0 (16.4)	2.9 (6.5)	96.5 (3.8)
SH2862-5241	SH2862-5211	6.4 (906.3)	6	0.36	2.8	3.0 (16.4)	2.9 (6.5)	96.5 (3.8)
SH2863-5041	SH2863-5011	9 (1274.4)	2	4.0	32	4.5 (24.6)	4.0 (8.96)	127 (5)
SH2863-5141	SH2863-5111	9 (1274.4)	4	1.0	7.9	4.5 (24.6)	4.0 (8.96)	127 (5)
SH2863-5241	SH2863-5211	9 (1274.4)	6	0.46	3.8	4.5 (24.6)	4.0 (8.96)	127 (5)

### Bipolar winding, Lead wire type CE/UL model

Model number		Holding torque at 2-phase energization [N·m (oz·in) min.]	Rated current A/phase	Wiring resistance Ω /phase	Winding inductance mH/phase	Rotor inertia [ $\times 10^{-4}$ kg·m <sup>2</sup> (oz·in <sup>2</sup> )]	Mass (Weight) [kg (lbs)]	Motor length (L) mm (in)
Single shaft	Dual shaft							
SM2861-5051	SM2861-5021	3.3 (467.3)	2	2.2	15	1.48 (8.09)	1.75 (3.92)	66 (2.6)
SM2861-5151	SM2861-5121	3.3 (467.3)	4	0.56	3.7	1.48 (8.09)	1.75 (3.92)	66 (2.6)
SM2861-5251	SM2861-5221	3.3 (467.3)	6	0.29	1.7	1.48 (8.09)	1.75 (3.92)	66 (2.6)
SM2862-5051	SM2862-5021	6.4 (906.3)	2	3.2	25	3.0 (16.4)	2.9 (6.5)	96.5 (3.8)
SM2862-5151	SM2862-5121	6.4 (906.3)	4	0.83	6.4	3.0 (16.4)	2.9 (6.5)	96.5 (3.8)
SM2862-5251	SM2862-5221	6.4 (906.3)	6	0.36	2.8	3.0 (16.4)	2.9 (6.5)	96.5 (3.8)
SM2863-5051	SM2863-5021	9 (1274.4)	2	4.0	32	4.5 (24.6)	4.0 (8.96)	127 (5)
SM2863-5151	SM2863-5121	9 (1274.4)	4	1.0	7.9	4.5 (24.6)	4.0 (8.96)	127 (5)
SM2863-5251	SM2863-5221	9 (1274.4)	6	0.46	3.8	4.5 (24.6)	4.0 (8.96)	127 (5)

### Bipolar winding, Terminal block type CE/UL model

Model number		Holding torque at 2-phase energization [N·m (oz·in) min.]	Rated current A/phase	Wiring resistance Ω /phase	Winding inductance mH/phase	Rotor inertia [ $\times 10^{-4}$ kg·m <sup>2</sup> (oz·in <sup>2</sup> )]	Mass (Weight) [kg (lbs)]	Motor length (L) mm (in)
Single shaft	Dual shaft							
SM2861-5066		3.3 (467.3)	2	2.03	15	1.48 (8.09)	1.9 (4.19)	97.9 (3.9)
SM2861-5166		3.3 (467.3)	4	0.52	3.7	1.48 (8.09)	1.9 (4.19)	97.9 (3.9)
SM2861-5266		3.3 (467.3)	6	0.27	1.7	1.48 (8.09)	1.9 (4.19)	97.9 (3.9)
SM2862-5066		6.4 (906.3)	2	3.08	25	3.0 (16.4)	3.05 (6.72)	128.4 (5.1)
SM2862-5166		6.4 (906.3)	4	0.79	6.4	3.0 (16.4)	3.05 (6.72)	128.4 (5.1)
SM2862-5266		6.4 (906.3)	6	0.33	2.8	3.0 (16.4)	3.05 (6.72)	128.4 (5.1)
SM2863-5066		9 (1274.4)	2	3.83	32	4.5 (24.6)	4.15 (9.15)	158.8 (6.3)
SM2863-5166		9 (1274.4)	4	0.96	7.9	4.5 (24.6)	4.15 (9.15)	158.8 (6.3)
SM2863-5266		9 (1274.4)	6	0.48	3.8	4.5 (24.6)	4.15 (9.15)	158.8 (6.3)

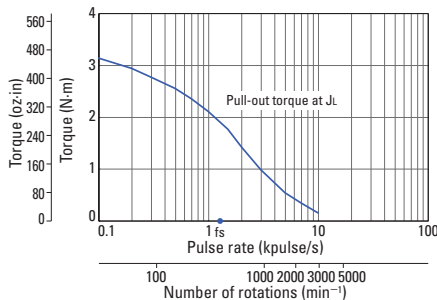
## Characteristics diagram

SH2861-5041  
SH2861-5011

SM2861-5051  
SM2861-5021

SM2861-5066

Constant current circuit  
 Source voltage: 100 VAC  
 Operating current:  
 2 A/phase, 2-phase  
 energization (full-step)  
 $J_L = [15.3 \times 10^{-4}$ kg·m<sup>2</sup> (83.65  
 oz·in<sup>2</sup>) use the rubber  
 coupling]  
 $f_s$ : Maximum self-start  
 frequency when not  
 loaded

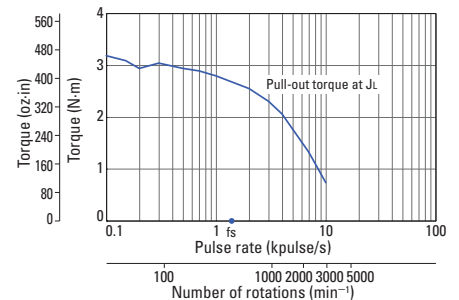


SH2861-5141  
SH2861-5111

SM2861-5151  
SM2861-5121

SM2861-5166

Constant current circuit  
 Source voltage: 100 VAC  
 Operating current:  
 4 A/phase, 2-phase  
 energization (full-step)  
 $J_L = [15.3 \times 10^{-4}$ kg·m<sup>2</sup> (83.65  
 oz·in<sup>2</sup>) use the rubber  
 coupling]  
 $f_s$ : Maximum self-start  
 frequency when not  
 loaded



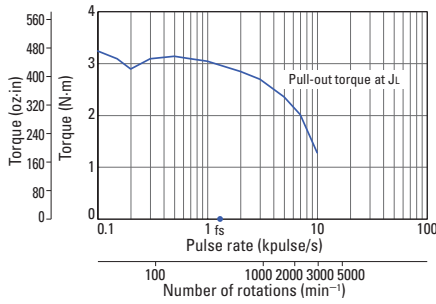
## Characteristics diagram

**SH2861-5241**  
**SH2861-5211**

**SM2861-5251**  
**SM2861-5221**

**SM2861-5266**

Constant current circuit  
Source voltage: 100 VAC  
Operating current:  
6 A/phase, 2-phase  
energization (full-step)  
 $J_L=[15.3 \times 10^{-4} \text{kg}\cdot\text{m}^2$  (83.65  
oz·in<sup>2</sup>) use the rubber  
coupling]  
fs: Maximum self-start  
frequency when not  
loaded

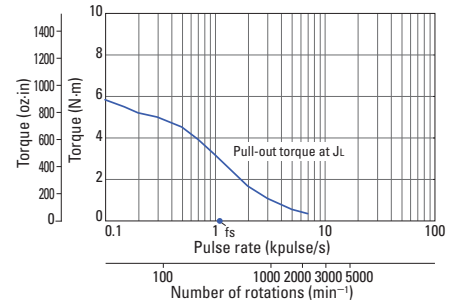


**SH2862-5041**  
**SH2862-5011**

**SM2862-5051**  
**SM2862-5021**

**SM2862-5066**

Constant current circuit  
Source voltage: 100 VAC  
Operating current:  
2 A/phase, 2-phase  
energization (full-step)  
 $J_L=[15.3 \times 10^{-4} \text{kg}\cdot\text{m}^2$  (83.65  
oz·in<sup>2</sup>) use the rubber  
coupling]  
fs: Maximum self-start  
frequency when not  
loaded

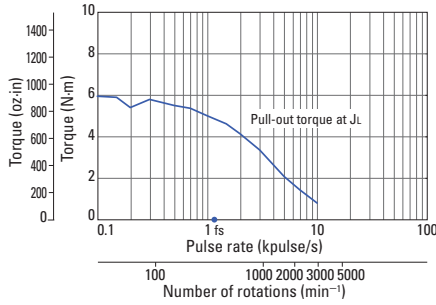


**SH2862-5141**  
**SH2862-5111**

**SM2862-5151**  
**SM2862-5121**

**SM2862-5166**

Constant current circuit  
Source voltage: 100 VAC  
Operating current:  
4 A/phase, 2-phase  
energization (full-step)  
 $J_L=[15.3 \times 10^{-4} \text{kg}\cdot\text{m}^2$  (83.65  
oz·in<sup>2</sup>) use the rubber  
coupling]  
fs: Maximum self-start  
frequency when not  
loaded

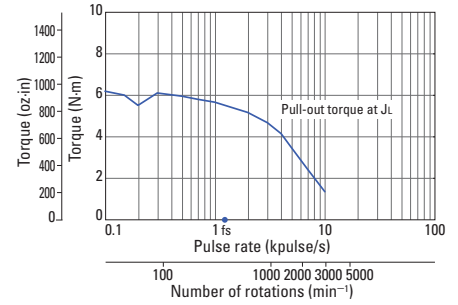


**SH2862-5241**  
**SH2862-5211**

**SM2862-5251**  
**SM2862-5221**

**SM2862-5266**

Constant current circuit  
Source voltage: 100 VAC  
Operating current:  
6 A/phase, 2-phase  
energization (full-step)  
 $J_L=[15.3 \times 10^{-4} \text{kg}\cdot\text{m}^2$  (83.65  
oz·in<sup>2</sup>) use the rubber  
coupling]  
fs: Maximum self-start  
frequency when not  
loaded

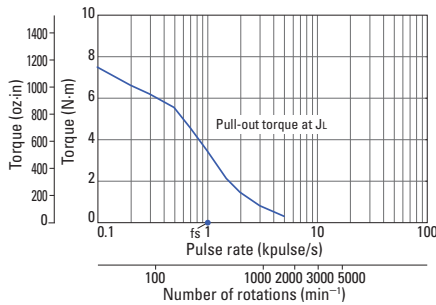


**SH2863-5041**  
**SH2863-5011**

**SM2863-5051**  
**SM2863-5021**

**SM2863-5066**

Constant current circuit  
Source voltage: 100 VAC  
Operating current:  
2 A/phase, 2-phase  
energization (full-step)  
 $J_L=[44 \times 10^{-4} \text{kg}\cdot\text{m}^2$  (240.56  
oz·in<sup>2</sup>) use the rubber  
coupling]  
fs: Maximum self-start  
frequency when not  
loaded

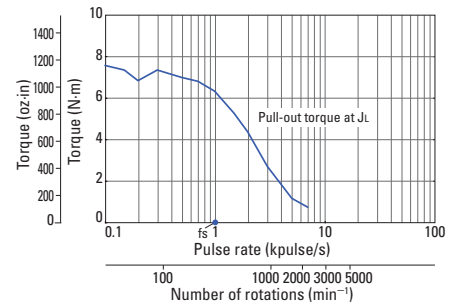


**SH2863-5141**  
**SH2863-5111**

**SM2863-5151**  
**SM2863-5121**

**SM2863-5166**

Constant current circuit  
Source voltage: 100 VAC  
Operating current:  
4 A/phase, 2-phase  
energization (full-step)  
 $J_L=[44 \times 10^{-4} \text{kg}\cdot\text{m}^2$  (240.56  
oz·in<sup>2</sup>) use the rubber  
coupling]  
fs: Maximum self-start  
frequency when not  
loaded

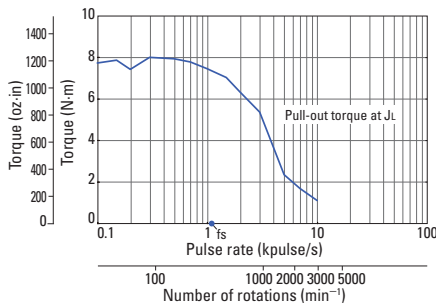


**SH2863-5241**  
**SH2863-5211**

**SM2863-5251**  
**SM2863-5221**

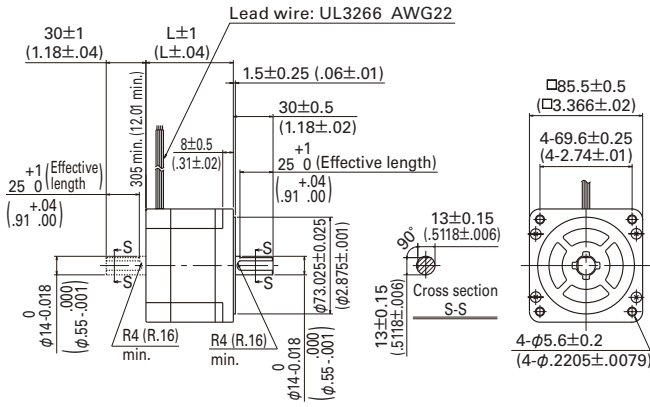
**SM2863-5266**

Constant current circuit  
Source voltage: 100 VAC  
Operating current:  
6 A/phase, 2-phase  
energization (full-step)  
 $J_L=[44 \times 10^{-4} \text{kg}\cdot\text{m}^2$  (240.56  
oz·in<sup>2</sup>) use the rubber  
coupling]  
fs: Maximum self-start  
frequency when not  
loaded

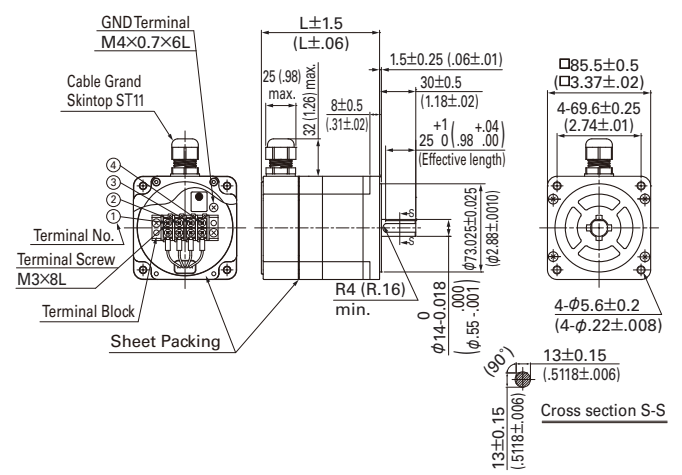


## Dimensions [Unit: mm (inch)]

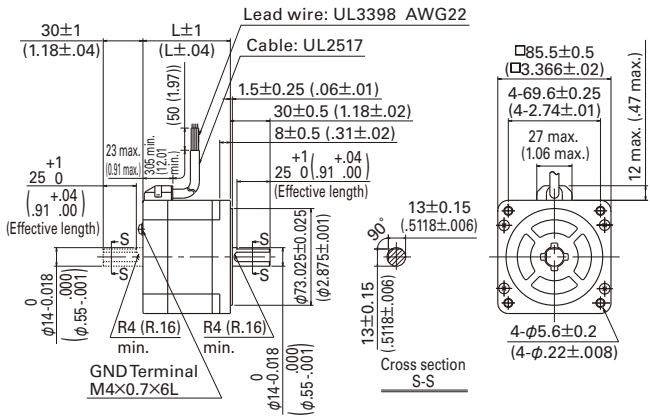
### Lead wire type



### Terminal block type CE/UL model

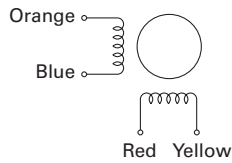


### Lead wire type CE/UL model



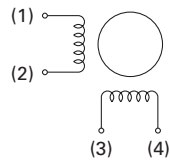
## Internal wiring

### Lead wire type



### Terminal block type

( ) terminal block number

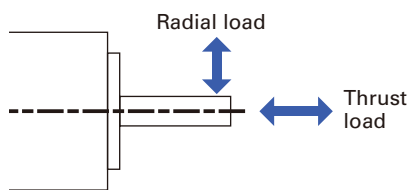


## Compatible drivers

Driver is not included.

If you require assistance finding a driver, contact us for details.

# Allowable Radial/Thrust Load



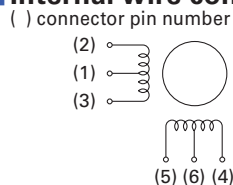
Flange size	Model number	Distance from end of shaft : mm (in)				Thrust load N (lbs)
		0	5	10	15	
Radial load : N (lbs)						
14 mm sq. (0.55 in sq.)	SH2141	10 (2.25)	11 (2.47)	13 (2.92)	-	0.7 (0.16)
28 mm sq. (1.10 in sq.)	SH228 □	42 (9)	48 (10)	56 (12)	66 (14)	3 (0.67)
35 mm sq. (1.38 in sq.)	SH353 □	40 (8)	50 (11)	67 (15)	98 (22)	10 (2.25)
42 mm sq. (1.65 in sq.)	103H52 □□ SH142 □	22 (4)	26 (5)	33 (7)	46 (10)	10 (2.25)
50 mm sq. (1.97 in sq.)	103H670 □	71 (15)	87 (19)	115 (25)	167 (37)	15 (3.37)
56 mm sq. (2.20 in sq.)	103H712 □	52 (11)	65 (14)	85 (19)	123 (27)	15 (3.37)
	103H7128	85 (19)	105 (23)	138 (31)	200 (44)	15 (3.37)
60 mm sq. (2.36 in sq.)	103H782 □	70 (15)	87 (19)	114 (25)	165 (37)	20 (4.50)
	SH160 □					15 (3.37)
86 mm sq. (3.39 in sq.)	SM286 □ SH286 □	167 (37)	193 (43)	229 (51)	280 (62)	60 (13.488)
	103H822 □					191 (43)
φ 106 mm (φ 4.17 in)	103H8922 □	321 (72)	356 (79)	401 (90)	457 (101)	100 (22.48)

## Internal Wiring and Rotation Direction

### Unipolar winding

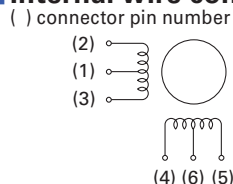
Connector type Model number: 103H52 □□

#### Internal wire connection



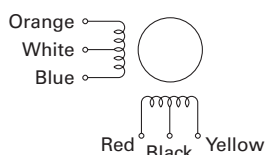
Connector type Model number: 103H782 □□

#### Internal wire connection



Lead wire type

#### Internal wire connection



#### Direction of motor rotation

When excited by a direct current in the order shown below, the direction of rotation is clockwise as viewed from the output shaft side.

Exciting order	Connector pin number				
	(1.6)	(5)	(3)	(4)	(2)
1	+	-	-	-	-
2	+	-	-	-	-
3	+	-	-	-	-
4	+	-	-	-	-

#### Direction of motor rotation

When excited by a direct current in the order shown below, the direction of rotation is clockwise as viewed from the output shaft side.

Exciting order	Connector pin number				
	(1.6)	(4)	(3)	(5)	(2)
1	+	-	-	-	-
2	+	-	-	-	-
3	+	-	-	-	-
4	+	-	-	-	-

#### Direction of motor rotation

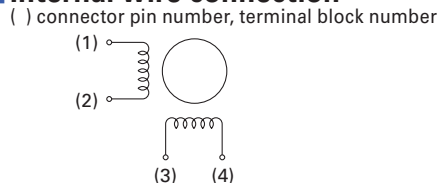
When excited by a direct current in the order shown below, the direction of rotation is clockwise as viewed from the output shaft side.

Exciting order	Lead wire color				
	White & black	Red	Blue	Yellow	Orange
1	+	-	-	-	-
2	+	-	-	-	-
3	+	-	-	-	-
4	+	-	-	-	-

### Bipolar winding

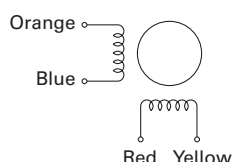
Connector type

#### Internal wire connection



Lead wire type

#### Internal wire connection



#### Direction of motor rotation

When excited by a direct current in the order shown below, the direction of rotation is clockwise as viewed from the output shaft side.

Exciting order	Connector pin number, terminal block number			
	(3)	(2)	(4)	(1)
1	-	-	+	+
2	+	-	-	+
3	+	+	-	-
4	-	+	+	-

#### Direction of motor rotation

When excited by a direct current in the order shown below, the direction of rotation is clockwise as viewed from the output shaft side.

Exciting order	Lead wire color			
	Red	Blue	Yellow	Orange
1	-	-	+	+
2	+	-	-	+
3	+	+	-	-
4	-	+	+	-

## General Specifications

Motor model number	SH2141	SH228 <input type="checkbox"/>	SH353 <input type="checkbox"/>	SS242 <input type="checkbox"/>	SH142 <input type="checkbox"/>	103H52 <input type="checkbox"/>	SS250 <input type="checkbox"/>	103H67 <input type="checkbox"/>	103H712 <input type="checkbox"/>
Type	-								
Operating ambient temperature	- 10°C to + 50°C								
Conversation temperature	- 20°C to + 65°C								
Operating ambient humidity	20 to 90% RH (no condensation)								
Conversation humidity	5 to 95% RH (no condensation)								
Operation altitude	1000 m (3281 feet) max. above sea level								
Vibration resistance	Vibration frequency 10 to 500 Hz, total amplitude 1.52 mm (10 to 70 Hz), vibration acceleration 150 m/s <sup>2</sup> (70 to 500 Hz), sweep time 15 min/cycle, 12 sweeps in each X, Y and Z direction.								
Impact resistance	500 m/s <sup>2</sup> of acceleration for 11 ms with half-sine wave applying three times for X, Y, and Z axes each, 18 times in total.								
Insulation class	Class B (+130°C)								
Withstandable voltage	At normal temperature and humidity, no failure with 500 VAC @50/60 Hz applied for one minute between motor winding and frame.						At normal temperature and humidity, no failure with 1000 VAC @50/60 Hz applied for one minute between motor winding and frame.		
Insulation resistance	At normal temperature and humidity, not less than 100 MΩ between winding and frame by 500 VDC megger.								
Protection grade	IP40								
Winding temperature rise	80 K max. (Based on Sanyo Denki standard)								
Static angle error	± 0.09°				± 0.054°		± 0.09°		
Thrust play *1	0.075 mm (0.003 in) max. (load: 0.35 N (0.08 lbs))	0.075 mm (0.003 in) max. (load: 1.5 N (0.34 lbs))	0.075 mm (0.003 in) max. (load: 5 N (1.12 lbs))	0.075 mm (0.003 in) max. (load: 4 N (0.9 lbs))	0.075 mm (0.003 in) max. (load: 5 N (1.12 lbs))	0.075 mm (0.003 in) max. (load: 5 N (1.12 lbs))	0.075 mm (0.003 in) max. (load: 4 N (0.9 lbs))	0.075 mm (0.003 in) max. (load: 10 N (2.25 lbs))	0.075 mm (0.003 in) max. (load: 10 N (2.25 lbs))
Radial play *2	0.025 mm (0.001 in) max. (load: 5 N (1.12 lbs))								
Shaft runout	0.025 mm (0.001 in)								
Concentricity of mounting pilot relative to shaft	φ 0.05 mm (φ 0.002 in)	φ 0.05 mm (φ 0.002 in)	φ 0.075 mm (φ 0.003 in)	φ 0.075 mm (φ 0.003 in)	φ 0.05 mm (φ 0.002 in)	φ 0.05 mm (φ 0.002 in)	φ 0.075 mm (φ 0.003 in)	φ 0.075 mm (φ 0.003 in)	φ 0.075 mm (φ 0.003 in)
Squareness of mounting surface relative to shaft	0.1 mm (0.004 in)	0.1 mm (0.004 in)	0.1 mm (0.004 in)	0.1 mm (0.004 in)	0.1 mm (0.004 in)	0.1 mm (0.004 in)	0.1 mm (0.004 in)	0.075 mm (0.003 in)	0.075 mm (0.003 in)
Direction of motor mounting	Can be freely mounted vertically or horizontally								

Motor model number	SH160 <input type="checkbox"/>	103H78 <input type="checkbox"/>	SH286 <input type="checkbox"/>	103H8922 <input type="checkbox"/>	SM286 <input type="checkbox"/>	103H712 <input type="checkbox"/> -6 <input type="checkbox"/> 0 <input type="checkbox"/> CE Model	103H822 <input type="checkbox"/> -6 <input type="checkbox"/> 0 <input type="checkbox"/> CE Model	103H8922 <input type="checkbox"/> -63 <input type="checkbox"/> 1 <input type="checkbox"/> CE Model	
Type	-				S1 (continuous operation)				
Operating ambient temperature	- 10°C to + 50°C				- 10°C to + 40°C				
Conversation temperature	- 20°C to + 65°C				- 20°C to + 60°C				
Operating ambient humidity	20 to 90% RH (no condensation)				95% max.: 40°C max., 57% max.: 50°C max., 35% max.: 60°C max. (no condensation)				
Conversation humidity	5 to 95% RH (no condensation)								
Operation altitude	1000 m (3280 feet) max. above sea level								
Vibration resistance	Vibration frequency 10 to 500 Hz, total amplitude 1.52 mm (10 to 70 Hz), vibration acceleration 150 m/s <sup>2</sup> (70 to 500 Hz), sweep time 15 min/cycle, 12 sweeps in each X, Y and Z direction.								
Impact resistance	500 m/s <sup>2</sup> of acceleration for 11 ms with half-sine wave applying three times for X, Y and Z axes each, 18 times in total.								
Insulation class	Class B (+130°C)				Class F (+155°C)		Class B (+130°C)		
Withstandable voltage	At normal temperature and humidity, no failure with 1000 VAC @50/60 Hz applied for one minute between motor winding and frame.				At normal temperature and humidity, no failure with 1500 VAC @50/60 Hz applied for one minute between motor winding and frame.				
Insulation resistance	At normal temperature and humidity, not less than 100 MΩ between winding and frame by 500 VDC megger.								
Protection grade	IP40				IP43				
Winding temperature rise	80 K max. (Based on Sanyo Denki standard)								
Static angle error	± 0.054°		± 0.09°						
Thrust play *1	0.075 mm (0.003 in) max. (load: 10 N (2.25 lbs))								
Radial play *2	0.025 mm (0.001 in) (load: 5 N (1.12 lbs))	0.025 mm (0.001 in) (load: 5 N (1.12 lbs))	0.025 mm (0.001 in) (load: 5 N (1.12 lbs))	0.025 mm (0.001 in) (load: 10 N (2.25 lbs))	0.025 mm (0.001 in) (load: 5 N (1.12 lbs))	0.025 mm (0.001 in) (load: 5 N (1.12 lbs))	0.025 mm (0.001 in) (load: 5 N (1.12 lbs))	0.025 mm (0.001 in) (load: 10 N (2.25 lbs))	
Shaft runout	0.025 mm (0.001 in)								
Concentricity of mounting pilot relative to shaft	φ 0.075 mm (φ 0.003 in)								
Squareness of mounting surface relative to shaft	0.1 mm (0.004 in)	0.075 mm (0.003 in)	0.15 mm (0.006 in)	0.1 mm (0.004 in)	0.15 mm (0.006 in)	0.075 mm (0.003 in)	0.1 mm (0.004 in)	0.1 mm (0.004 in)	
Direction of motor mounting	Can be freely mounted vertically or horizontally								

\*1 Thrust play: Shaft displacement under axial load.

\*2 Radial play: Shaft displacement under radial load applied 1/3rd of the length from the end of the shaft.

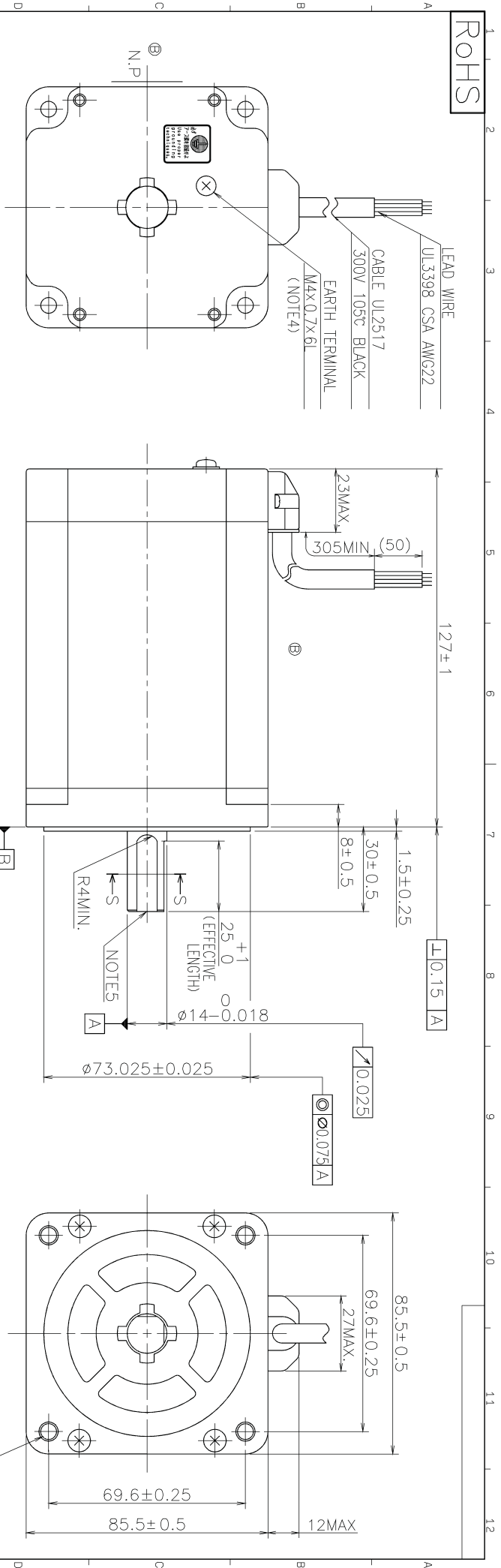
### Safety standards

Model Number: SM286  CE/UL marked models

CE (TÜV)	Standard category	Applicable standard	
	Low-voltage directives	EN60034-1, EN60034-5	
UL	Acquired standards	Applicable standard	File No.
	UL	UL1004-1, UL1004-6	E179832
	UL for Canada	CSA C22.2 No.100	

Model Number: 103H712  -6  0  0, 103H822  -6  0  0, 103H8922  -63  1  CE marked model

CE (TÜV)	Standard category	Applicable standard	
	Low-voltage directives	EN60034-1, EN60034-5	



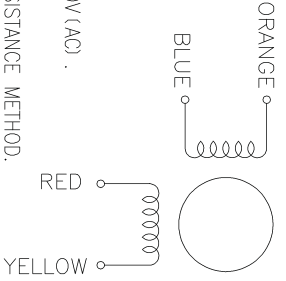
RATED CHARACTERISTICS (2EX.)

NOTE1 POWER INPUT 250 V (AC) MAX.

PHASES	2
FUNDAMENTAL STEP ANGLE	1.8 °
RATED VOLTAGE	2.76 V(DC)
AMPS	6 A/PHASE
WINDING RESISTANCE	0.46 Ω±10% at 25 °C
COIL INDUCTANCE	3.8 mH±20% at 1 kHz, 1 V(rms)
HOLDING TORQUE	9 N·m MIN. at I=6 A/PHASE 2EX.
NOTE2 PULL OUT TORQUE	6.4 N·m MIN. at 100 pulse/s INERTIAL LOAD 44x10 <sup>-4</sup> kg·m <sup>2</sup> (INERTIA OF RUBBER COUPLING IS INCLUDED.)



CONNECTION



DIRECTION OF ROTATION

WHEN A MOTOR IS SEQUENCED AS SHOWN IN THE TABLE BELOW, THE SHAFT ROTATION MUST BE CLOCKWISE WHEN YOU SEE FROM SURFACE [B] SIDE.

STEP	RED	BLUE	YELLOW	ORANGE
1	⊖	⊖	⊕	⊕
2	⊕	⊕	⊖	⊖
3	⊖	⊖	⊕	⊕
4	⊕	⊕	⊖	⊖

NOTE2 MAX. STARTING RATE 800 pulse/s MIN. at NO LOAD

NOTE2 MAX. SLEWING RATE 1400 pulse/s MIN. at NO LOAD

POSITIONAL ACCURACY ±0.09 ° (0.18 ° SPREAD MAX.) 2EX.

NOTE3 COIL TEMPERATURE RISE 80 K MAX.

ROTOR INERTIA 4.5x10<sup>-4</sup> kg·m<sup>2</sup> NOMINAL

INSULATION CLASS F (CLASS-F AS FOR UL RECOGNITION)

ALLOWABLE THRUST LOAD 60 N

ALLOWABLE RADIAL LOAD 200 N LOAD TO SHAFT END.

⊕ IP RATING IP40 EN60034-5

NOTE1. DRIVER INPUT VOLTAGE:  
NOTE2. SANYO STANDARD 2PHASE EXCITATION DRIVE CIRCUIT WAS USED. (PMM-BA-4804) E=100V(AC).

NOTE3. MOUNT A MOTOR ON 200X200X6 ALUMINUM HEAT SINK AND ENERGIZE THE COIL AT 2 PHASE EXCITATION, I=6 A/PHASE CONSTANTLY. MEASURED BY THE CHANGE OF RESISTANCE METHOD.

NOTE4. TIGHTENING TORQUE OF THE SCREWS SHOULD BE 1±0.1 N·m.

NOTE5. CENTER HOLE ON THE SHAFT END IS NOT ALWAYS MADE.

承認 承認者 承認日		承認 承認者 承認日	
B E0077028 06-05-22		M.M. 06-05-31	
A NEW DESIGN 05-09-01		R. SCALE 06-05-22	
設計 山崎 隆夫		設計 山崎 隆夫	
日付 06-05-22		日付 06-05-22	
山洋電気株式会社		山洋電気株式会社	
SANYO DENKI CO.,LTD.		SANYO DENKI CO.,LTD.	
A26-F-1		A26-F-1	
SM2863-5251B		SM2863-5251B	
REV.		REV.	