

60mm cir.

0.72°/step

PMM-MA
50064

Model number		Holding torque at 5-phase energization	Rated current	Wiring resistance	Wiring inductance	Rotor inertia	Weight
Single-axis	Dual-axis	N.m or more	A/phase	Ω/phase	mH/phase	x 10 ⁻⁴ kg-m ²	kg
103H7521-6050	-6020	0.46	0.75	2.4	4.3	0.148	0.51
103H7521-6250	-6220	0.46	1.5	0.6	1.1	0.148	0.51
103H7522-6050	-6020	0.735	0.75	3.3	7.5	0.18	0.6
103H7522-6250	-6220	0.735	1.5	0.75	2	0.18	0.6
103H7523-6050	-6020	1.568	0.75	5.2	21	0.423	1.1
103H7523-6250	-6220	1.568	1.5	1.4	5.4	0.423	1.1

21-602076220 (Double shaft)

Lead wire UL1430 AWG24

15.5±1

44.8±0.8

20.6±0.5

15±0.5

30.5 Min.

15±0.5

(Effective length)

(Effective length)

R4 Min.

R4 Min.

ø8 -0.015

ø35 -0.020

ø6 -0.015

Earth terminal

M3.0×5.6L

7.5±0.15

7.5±0.15

Cross section S-S

60±0.5

4-50±0.13

30±1

5.5 Max.

4-ø4.5±0.5

SH7522-6020/6220 (Double shaft)

Lead wire UL1430 AWG24

Dimensions (mm):

- 15.5 ± 0.5
- 53.8 ± 0.8
- 20.6 ± 0.5
- 1.5
- 5
- 395 Min.
- 15 ± 0.5 (Effective length)
- 0 ± 0.015
- ø8 ± 0.015
- R4 Min.
- S
- R4 Min.
- 0 ± 0.015
- 0 ± 0.030

Cross section S-S

Dimensions (mm):

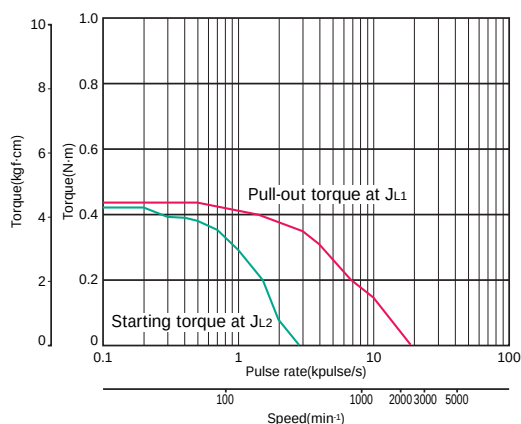
- 60 ± 0.5
- 4-50 ± 0.13
- 29 Max.
- 4 Max.
- 4 - ø4.5 ± 0.5

The technical drawing illustrates the cable gland assembly from two perspectives:

- Side View (Left):** Shows the profile of the gland. Key dimensions include:
 - Total length: $15.5^{+0.1}_{-0}$
 - Lead wire UL1430 AWG24 connection point.
 - Internal thread section: 85.8 ± 0.8
 - Threaded section length: 20.6 ± 0.5
 - Flange thickness: 1.5
 - Effective length of the threaded part: 15^{+1}_{-0}
 - Minimum internal diameter: $\phi 8_{-0.015}^0$
 - Minimum flange outer diameter: $\phi 36_{-0.09}^0$
 - Earth terminal specification: M3×0.5×6L
 - Minimum R4 radius at the bend.
 - Minimum internal diameter at the bend: $R4 \text{ Min.}$
 - Minimum internal diameter at the base: $\phi 8_{-0.015}^0$
 - Minimum flange outer diameter at the base: $\phi 36_{-0.09}^0$
- Cross Section S-S (Right):** Shows the internal arrangement of components:
 - Outer diameter of the main body: $\phi 60 \pm 0.5$
 - Inner diameter of the main body: $4-50 \pm 0.13$
 - Length of the inner sleeve: 30 ± 1
 - Number of screws securing the inner sleeve: 4
 - Screw specification: $4 - \phi 4.5^{+0.05}_{-0}$
 - Overall height of the assembly: 5.5 Max.
 - Top view shows 8 mounting holes arranged in a circle.

Pulse rate-torque characteristics

●103H7521-6050



Sanyo constant current circuit

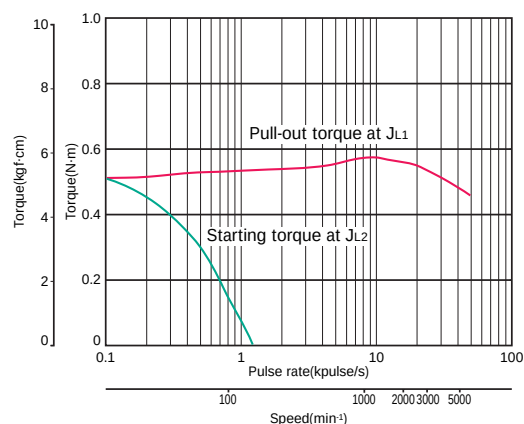
Source voltage : 24V DC · Winding current : 0.75A/phase

5-phase excitation (Full step)

$J_{L1}=0.94 \times 10^{-4} \text{ kg} \cdot \text{m}^2$ (With rubber coupling)

$J_{L2}=0.51 \times 10^{-4} \text{ kg} \cdot \text{m}^2$ (Pulley balancer system)

●103H7521-6250



Sanyo constant current circuit

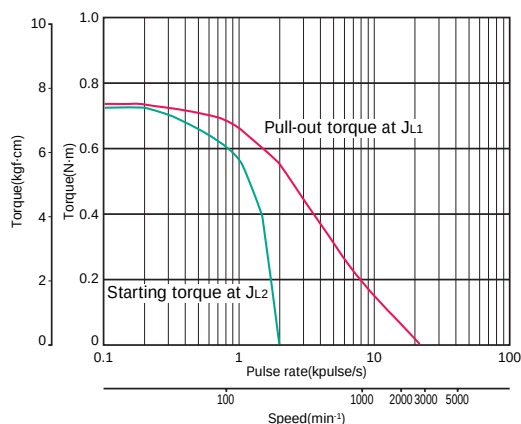
Source voltage : 100V AC · Winding current : 1.5A/phase

5-phase excitation (Full step)

$J_{L1}=0.94 \times 10^{-4} \text{ kg} \cdot \text{m}^2$ (With rubber coupling)

$J_{L2}=0.8 \times 10^{-4} \text{ kg} \cdot \text{m}^2$ (With direct-coupled coupling)

●103H7522-6050



Sanyo constant current circuit

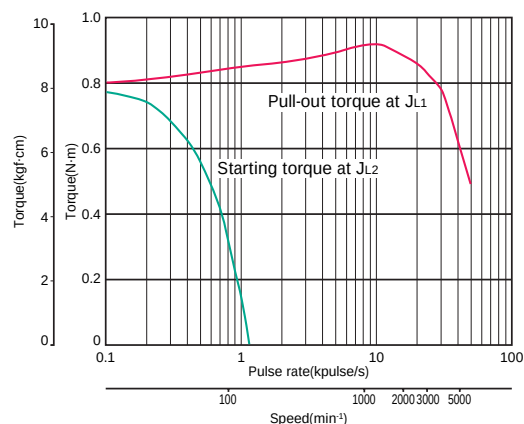
Source voltage : 24V DC · Winding current : 0.75A/phase

5-phase excitation (Full step)

$J_{L1}=2.6 \times 10^{-4} \text{ kg} \cdot \text{m}^2$ (With rubber coupling)

$J_{L2}=0.6 \times 10^{-4} \text{ kg} \cdot \text{m}^2$ (Pulley balancer system)

●103H7522-6250



Sanyo constant current circuit

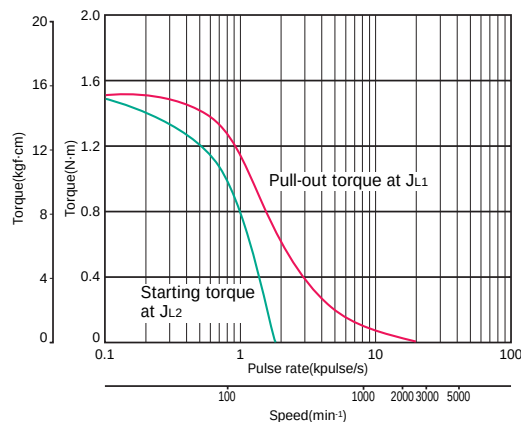
Source voltage : 100V AC · Winding current : 1.5A/phase

5-phase excitation (Full step)

$J_{L1}=2.6 \times 10^{-4} \text{ kg} \cdot \text{m}^2$ (With rubber coupling)

$J_{L2}=2.6 \times 10^{-4} \text{ kg} \cdot \text{m}^2$ (With direct-coupled coupling)

●103H7523-6050



Sanyo constant current circuit

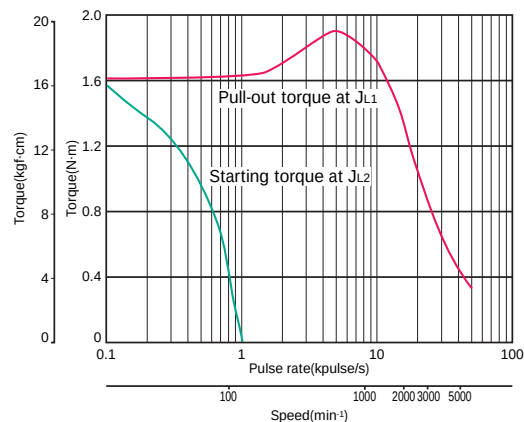
Source voltage : 24V DC · Winding current : 0.75A/phase

5-phase excitation (Full step)

$J_{L1}=7.4 \times 10^{-4} \text{ kg} \cdot \text{m}^2$ (With rubber coupling)

$J_{L2}=1.1 \times 10^{-4} \text{ kg} \cdot \text{m}^2$ (Pulley balancer system)

●103H7523-6250



Sanyo constant current circuit

Source voltage : 100V AC · Winding current : 1.5A/phase

5-phase excitation (Full step)

$J_{L1}=7.4 \times 10^{-4} \text{ kg} \cdot \text{m}^2$ (With rubber coupling)

$J_{L2}=7.4 \times 10^{-4} \text{ kg} \cdot \text{m}^2$ (With direct-coupled coupling)

□39mm
(0.36")

□60mm
(0.45")

□28mm
(0.72")

□42mm
(0.72")

□50mm
(0.72")

□60mm
(0.72")

□60mm
(0.72")

□86mm
(0.72")

□106mm
(0.72")

CE marked

Specifications of
5-phase stepping motor

In-vacuum
stepping motor