



42 mm sq.

0.9°/step **RoHS**

Unipolar winding, Lead wire type
Bipolar winding, Lead wire type

Customizing

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

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

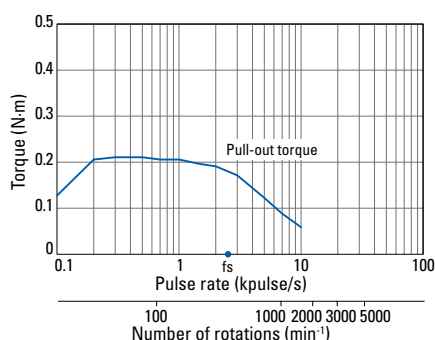
Unipolar winding, Lead wire type

Model no.		Holding torque at 2-phase energization	Rated current	Wiring resistance	Winding inductance	Rotor inertia	Mass	Motor length (L)
Single shaft	Dual shaft	N·m min.	A/phase	Ω/phase	mH/phase	$\times 10^{-4} \text{kg} \cdot \text{m}^2$	kg	mm
SH1421-0441	SH1421-0411	0.2	1.2	2.7	3.2	0.044	0.24	33
SH1422-0441	SH1422-0411	0.29	1.2	3.1	5.3	0.066	0.29	39
SH1424-0441	SH1424-0411	0.39	1.2	3.5	5.3	0.089	0.38	48

Characteristics diagram

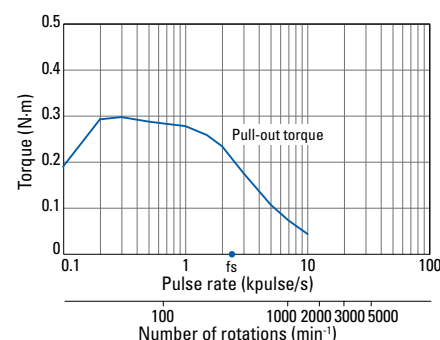
SH1421-0441 SH1421-0411

Constant current circuit
Source voltage: 24 VDC
Operating current:
1.2 A/phase, 2-phase
energization (full-step)
Pull-out torque:
 $J_L = 0.94 \times 10^{-4} \text{kg} \cdot \text{m}^2$ (use the
rubber coupling)
fs: Maximum self-start
frequency when not
loaded



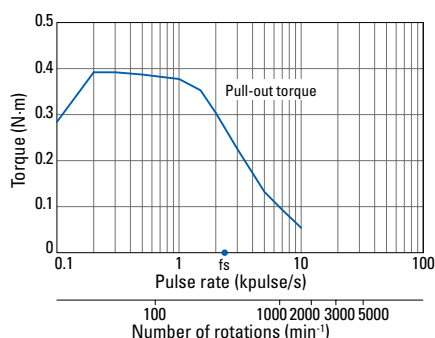
SH1422-0441 SH1422-0411

Constant current circuit
Source voltage: 24 VDC
Operating current:
1.2 A/phase, 2-phase
energization (full-step)
Pull-out torque:
 $J_L = 0.94 \times 10^{-4} \text{kg} \cdot \text{m}^2$ (use the
rubber coupling)
fs: Maximum self-start
frequency when not
loaded

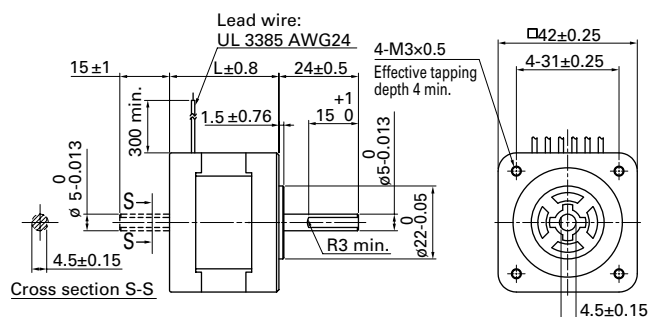


SH1424-0441 SH1424-0411

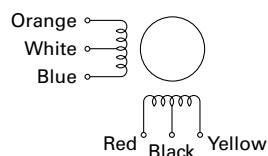
Constant current circuit
Source voltage: 24 VDC
Operating current:
1.2 A/phase, 2-phase
energization (full-step)
Pull-out torque:
 $J_L = 0.94 \times 10^{-4} \text{kg} \cdot \text{m}^2$ (use the
rubber coupling)
fs: Maximum self-start
frequency when not
loaded



Dimensions (Unit: mm)



Internal wiring



Compatible drivers

Model no.: US1D200P10 (DC input)

Operating current select switch setting: 8

The characteristics diagram shown above is from our experimental circuit.

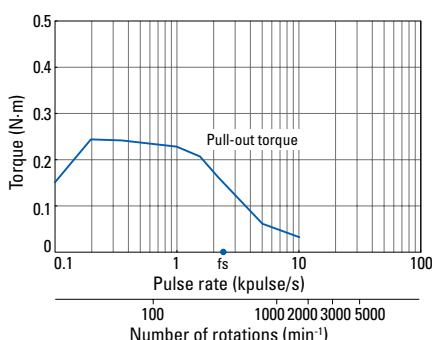
Bipolar winding, Lead wire type

Model no.		Holding torque at 2-phase energization	Rated current	Wiring resistance	Winding inductance	Rotor inertia	Mass	Motor length (L)
Single shaft	Dual shaft	N·m min.	A/phase	Ω/phase	mH/phase	×10 ⁻⁴ kg·m ²	kg	mm
SH1421-5041	SH1421-5011	0.23	1	3.3	8.0	0.044	0.24	33
SH1421-5241	SH1421-5211	0.23	2	0.85	2.1	0.044	0.24	33
SH1422-5041	SH1422-5011	0.34	1	4.0	14.0	0.066	0.29	39
SH1422-5241	SH1422-5211	0.34	2	1.05	3.6	0.066	0.29	39
SH1424-5041	SH1424-5011	0.48	1	4.7	15.0	0.089	0.38	48
SH1424-5241	SH1424-5211	0.48	2	1.25	3.75	0.089	0.38	48

Characteristics diagram

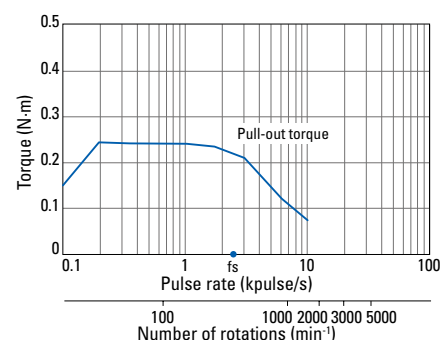
SH1421-5041 SH1421-5011

Constant current circuit
Source voltage: 24 VDC
Operating current:
1 A/phase, 2-phase
energization (full-step)
Pull-out torque:
 $J_L=0.94 \times 10^{-4} \text{ kg} \cdot \text{m}^2$ (use the
rubber coupling)
fs: Maximum self-start
frequency when not
loaded



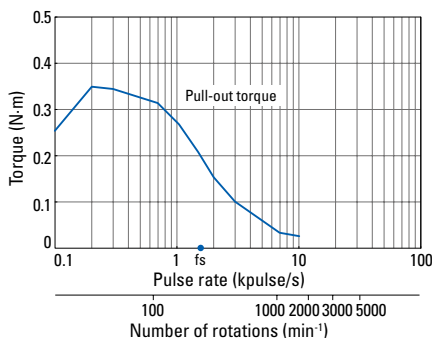
SH1421-5241 SH1421-5211

Constant current circuit
Source voltage: 24 VDC
Operating current:
2 A/phase, 2-phase
energization (full-step)
Pull-out torque:
 $J_L=0.94 \times 10^{-4} \text{ kg} \cdot \text{m}^2$ (use the
rubber coupling)
fs: Maximum self-start
frequency when not
loaded



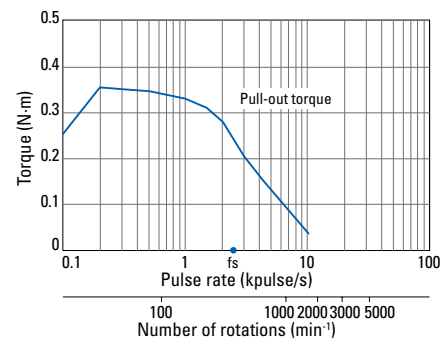
SH1422-5041 SH1422-5011

Constant current circuit
Source voltage: 24 VDC
Operating current:
1 A/phase, 2-phase
energization (full-step)
Pull-out torque:
 $J_L=0.94 \times 10^{-4} \text{ kg} \cdot \text{m}^2$ (use the
rubber coupling)
fs: Maximum self-start
frequency when not
loaded



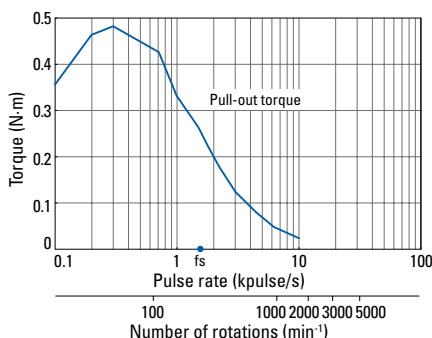
SH1422-5241 SH1422-5211

Constant current circuit
Source voltage: 24 VDC
Operating current:
2 A/phase, 2-phase
energization (full-step)
Pull-out torque:
 $J_L=0.94 \times 10^{-4} \text{ kg} \cdot \text{m}^2$ (use the
rubber coupling)
fs: Maximum self-start
frequency when not
loaded



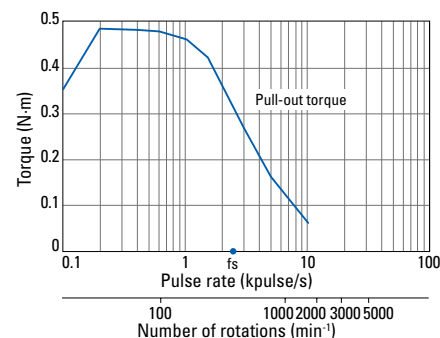
SH1424-5041 SH1424-5011

Constant current circuit
Source voltage: 24 VDC
Operating current:
1 A/phase, 2-phase
energization (full-step)
Pull-out torque:
 $J_L=0.94 \times 10^{-4} \text{ kg} \cdot \text{m}^2$ (use the
rubber coupling)
fs: Maximum self-start
frequency when not
loaded

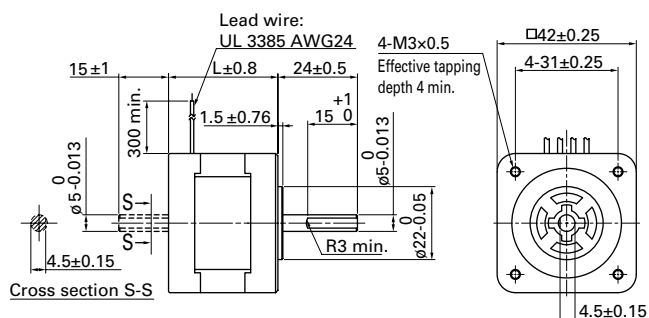


SH1424-5241 SH1424-5211

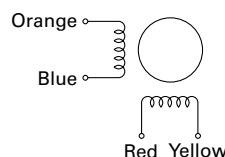
Constant current circuit
Source voltage: 24 VDC
Operating current:
2 A/phase, 2-phase
energization (full-step)
Pull-out torque:
 $J_L=0.94 \times 10^{-4} \text{ kg} \cdot \text{m}^2$ (use the
rubber coupling)
fs: Maximum self-start
frequency when not
loaded



Dimensions (Unit: mm)



Internal wiring



Compatible drivers

- For motor model no. SH142 □ -50 □ 1 (1 A/phase)
Driver is not included.
If you require assistance finding a driver, contact us for details.
- For model no. SH142 □ -52 □ 1 (2 A/phase)
Model no.: BS1D200P10 (DC input)
Operating current select switch setting: 0

The characteristics diagram shown above is from our experimental circuit.