



$\varnothing 106$ mm

1.8°/step **RoHS**

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

Customizing

Hollow Shaft modification
Brake

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	$\times 10^{-4}$ kg·m ²	kg	mm
103H89222-0941	103H89222-0911	10.8	4	0.98	6.3	14.6	7.5	163.3
103H89223-0941	103H89223-0911	15.5	4	1.4	9.7	22	10.5	221.3

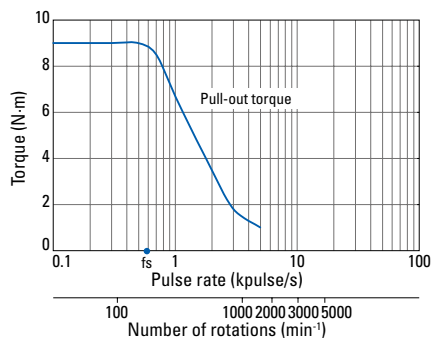
Bipolar winding, Lead wire type

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	$\times 10^{-4}$ kg·m ²	kg	mm
103H89222-5241	103H89222-5211	13.2	6	0.45	5.4	14.6	7.5	163.3
103H89223-5241	103H89223-5211	19	6	0.63	8	22	10.5	221.3

Characteristics diagram

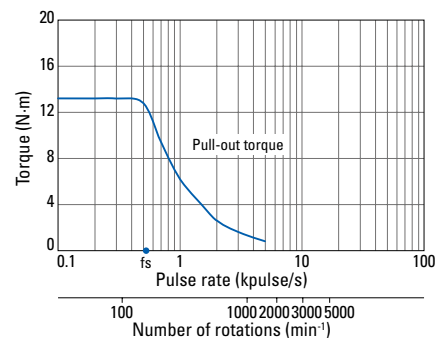
103H89222-0941 103H89222-0911

Constant current circuit
Source voltage: 100 VAC
Operating current:
4 A/phase, 2-phase
energization (full-step)
Pull-out torque:
 $J_L = 44 \times 10^{-4}$ kg·m² (use the
rubber coupling)
fs: Maximum self-start
frequency when not
loaded



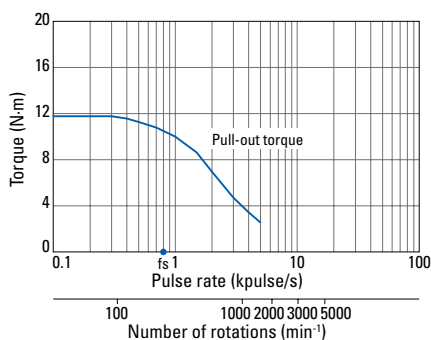
103H89223-0941 103H89223-0911

Constant current circuit
Source voltage: 100 VAC
Operating current:
4 A/phase, 2-phase
energization (full-step)
Pull-out torque:
 $J_L = 44 \times 10^{-4}$ kg·m² (use the
rubber coupling)
fs: Maximum self-start
frequency when not
loaded



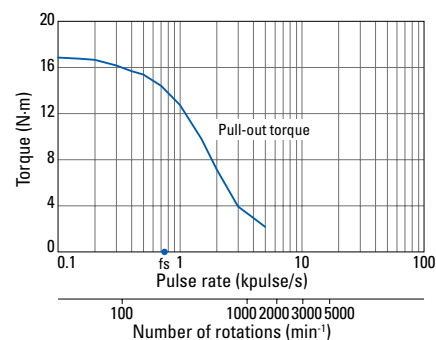
103H89222-5241 103H89222-5211

Constant current circuit
Source voltage: 100 VAC
Operating current:
6 A/phase, 2-phase
energization (full-step)
Pull-out torque:
 $J_L = 44 \times 10^{-4}$ kg·m² (use the
rubber coupling)
fs: Maximum self-start
frequency when not
loaded

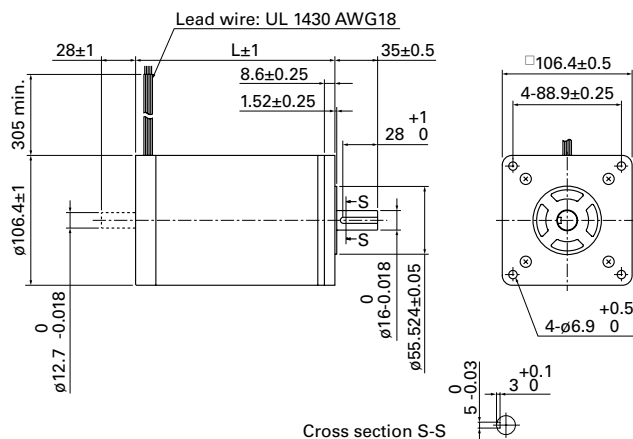


103H89223-5241 103H89223-5211

Constant current circuit
Source voltage: 100 VAC
Operating current:
6 A/phase, 2-phase
energization (full-step)
Pull-out torque:
 $J_L = 44 \times 10^{-4}$ kg·m² (use the
rubber coupling)
fs: Maximum self-start
frequency when not
loaded

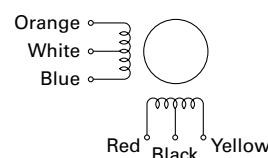


Dimensions (Unit: mm)

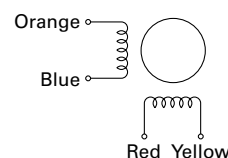


Internal wiring

Unipolar



Bipolar



Compatible drivers

Driver is not included.

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