

# 86 mm sq.

1.8°/step RoHS

Bipolar



Custom options

Custom shaft

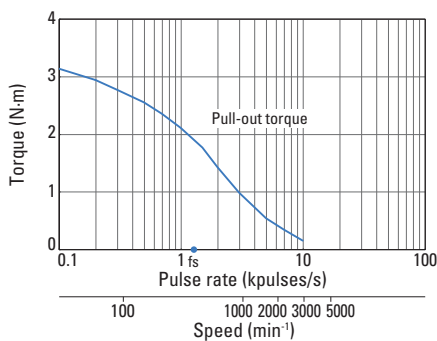
Note: Customization feasibility depends on the model number and quantity. Contact us for details.

Model no.		Holding torque at 2-phase excitation N·m or more	Rated current A/phase	Winding resistance		Winding inductance mH/phase	Rotor inertia ×10 <sup>-4</sup> kg·m <sup>2</sup>	Mass kg	Allowable thrust load N	Allowable radial load N
Cable type	Connector type			Ω/phase	Ω/phase					
SP2861-5060	SP2861-5000	3.3	2	2.1	2.05	15	1.48	1.95	60	200
SP2861-5160	SP2861-5100	3.3	4	0.61	0.56	3.7	1.48	1.95	60	200
SP2861-5260	–	3.3	6	0.36	–	1.7	1.48	1.95	60	200
SP2862-5060	SP2862-5000	6.4	2	3.2	3.2	25	3	3.1	60	200
SP2862-5160	SP2862-5100	6.4	4	0.85	0.83	6.4	3	3.1	60	200
SP2862-5260	–	6.4	6	0.41	–	2.8	3	3.1	60	200
SP2863-5060	SP2863-5000	9	2	4	4	32	4.5	4.2	60	200
SP2863-5160	SP2863-5100	9	4	1.05	1	7.9	4.5	4.2	60	200
SP2863-5260	–	9	6	0.53	–	3.8	4.5	4.2	60	200

- Models with a brake, encoder, or oil seal have different model nos., rotor inertia, and mass.
- Connector-type models are available for 4 A or lower rated voltages.

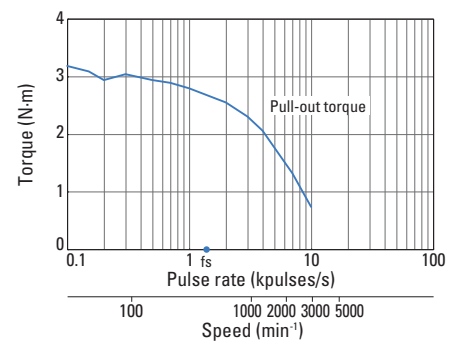
## Characteristics

SP2861-5000  
SP2861-5060



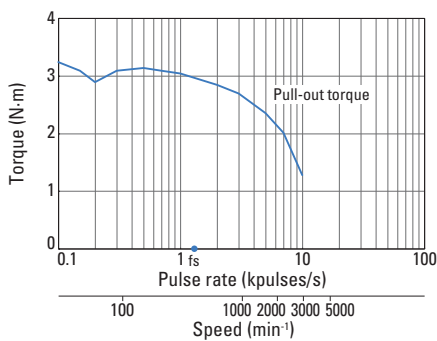
Constant current circuit  
Input voltage: 100 VAC,  
Winding current: 2 A/phase, At 2-phase excitation (full step)  
Pull-out torque:  $J_L=15.3 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (with rubber coupling used)  
 $f_s$ : Maximum starting pulse rate with no load

SP2861-5100  
SP2861-5160



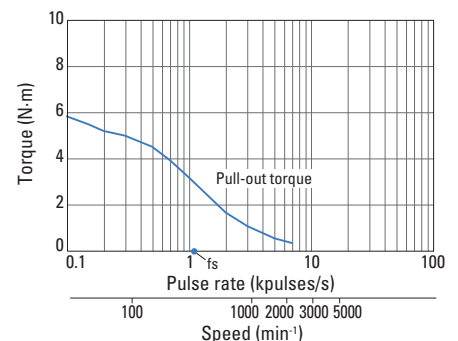
Constant current circuit  
Input voltage: 100 VAC,  
Winding current: 4 A/phase, At 2-phase excitation (full step)  
Pull-out torque:  $J_L=15.3 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (with rubber coupling used)  
 $f_s$ : Maximum starting pulse rate with no load

SP2861-5260



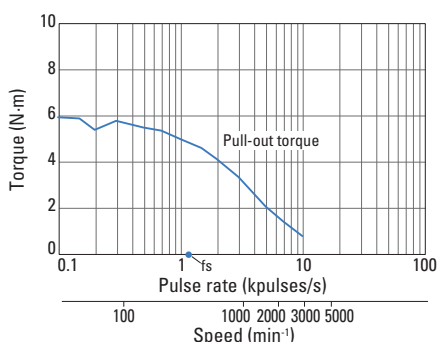
Constant current circuit  
Input voltage: 100 VAC  
Winding current: 6 A/phase, At 2-phase excitation (full step)  
Pull-out torque:  $J_L=15.3 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (with rubber coupling used)  
 $f_s$ : Maximum starting pulse rate with no load

SP2862-5000  
SP2862-5060



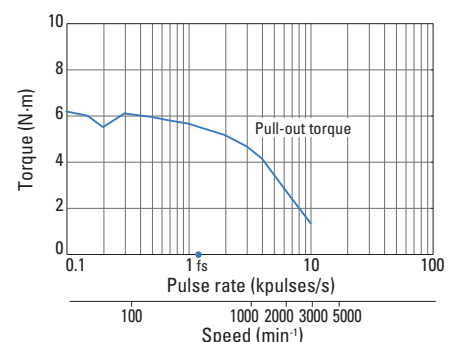
Constant current circuit  
Input voltage: 100 VAC  
Winding current: 2 A/phase, At 2-phase excitation (full step)  
Pull-out torque:  $J_L=15.3 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (with rubber coupling used)  
 $f_s$ : Maximum starting pulse rate with no load

SP2862-5100  
SP2862-5160



Constant current circuit  
Input voltage: 100 VAC,  
Winding current: 4 A/phase, At 2-phase excitation (full step)  
Pull-out torque:  $J_L=15.3 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (with rubber coupling used)  
 $f_s$ : Maximum starting pulse rate with no load

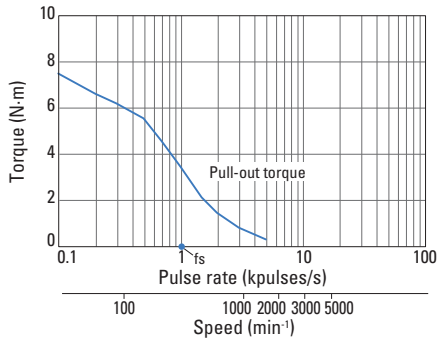
SP2862-5260



Constant current circuit  
Input voltage: 100 VAC  
Winding current: 6 A/phase, At 2-phase excitation (full step)  
Pull-out torque:  $J_L=15.3 \times 10^{-4} \text{kg} \cdot \text{m}^2$  (with rubber coupling used)  
 $f_s$ : Maximum starting pulse rate with no load

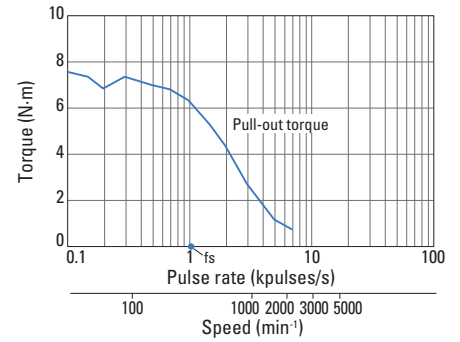
## Characteristics

**SP2863-5000**  
**SP2863-5060**



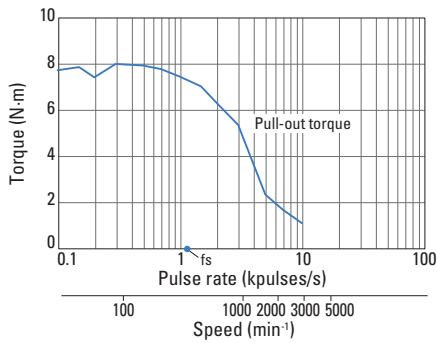
Constant current circuit  
Input voltage: 100 VAC  
Winding current: 2 A/phase, At 2-phase excitation (full step)  
Pull-out torque:  $J_s=44 \times 10^{-4} \text{ kg}\cdot\text{m}^2$  (with rubber coupling used)  
fs: Maximum starting pulse rate with no load

**SP2863-5100**  
**SP2863-5160**



Constant current circuit  
Input voltage: 100 VAC  
Winding current: 4 A/phase, At 2-phase excitation (full step)  
Pull-out torque:  $J_s=44 \times 10^{-4} \text{ kg}\cdot\text{m}^2$  (with rubber coupling used)  
fs: Maximum starting pulse rate with no load

**SP2863-5260**

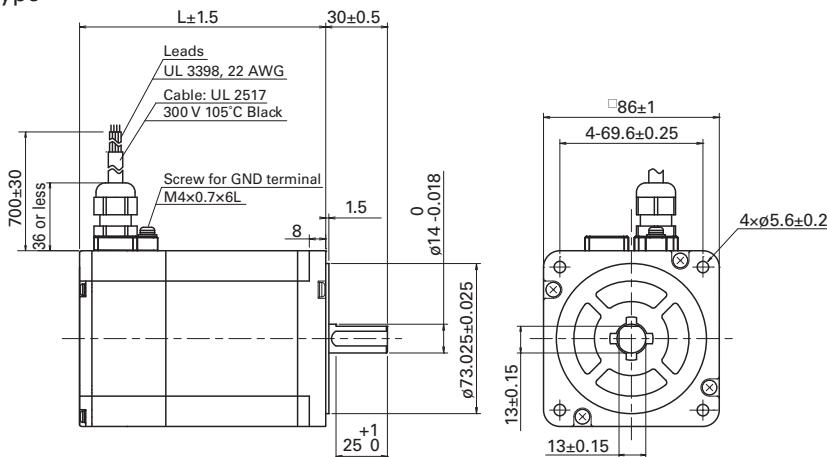


Constant current circuit  
Input voltage: 100 VAC  
Winding current: 6 A/phase, At 2-phase excitation (full step)  
Pull-out torque:  $J_s=44 \times 10^{-4} \text{ kg}\cdot\text{m}^2$  (with rubber coupling used)  
fs: Maximum starting pulse rate with no load

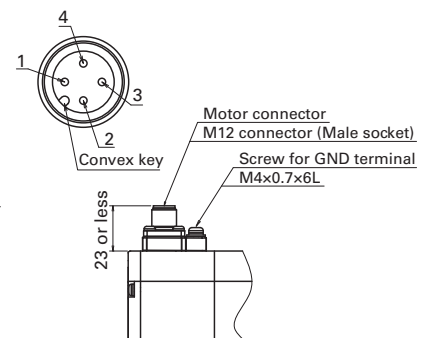
## Dimensions Unit: mm

### 86 mm sq.

Cable type



Connector type



Model no.	Motor length (L)
SP2861-5 □ 60	89.5
SP2862-5 □ 60	120
SP2863-5 □ 60	150

## Compatible drivers

A driver is to be provided by the customer.

Note: The characteristics shown above are calculated using our experimental circuit.