

86 mm 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. 62
 Unipolar winding, Lead wire type CE/UL model ▶ p. 62

Customizing

Hollow Shaft modification
Encoder

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

Bipolar winding, Lead wire type

| Model no. | | Holding torque at 2-phase energization N·m min. | Rated current A/phase | Wiring resistance Ω/phase | Winding inductance mH/phase | Rotor inertia ×10 ⁻⁴ kg·m ² | Mass kg | Motor length (L) mm |
|--------------|-------------|--|--------------------------|------------------------------|--------------------------------|--|------------|------------------------|
| Single shaft | Dual shaft | | | | | | | |
| SH2861-5041 | SH2861-5011 | 3.3 | 2 | 2.2 | 15 | 1.48 | 1.75 | 66 |
| SH2861-5141 | SH2861-5111 | 3.3 | 4 | 0.56 | 3.7 | 1.48 | 1.75 | 66 |
| SH2861-5241 | SH2861-5211 | 3.3 | 6 | 0.29 | 1.7 | 1.48 | 1.75 | 66 |
| SH2862-5041 | SH2862-5011 | 6.4 | 2 | 3.2 | 25 | 3.0 | 2.9 | 96.5 |
| SH2862-5141 | SH2862-5111 | 6.4 | 4 | 0.83 | 6.4 | 3.0 | 2.9 | 96.5 |
| SH2862-5241 | SH2862-5211 | 6.4 | 6 | 0.36 | 2.8 | 3.0 | 2.9 | 96.5 |
| SH2863-5041 | SH2863-5011 | 9 | 2 | 4.0 | 32 | 4.5 | 4.0 | 127 |
| SH2863-5141 | SH2863-5111 | 9 | 4 | 1.0 | 7.9 | 4.5 | 4.0 | 127 |
| SH2863-5241 | SH2863-5211 | 9 | 6 | 0.46 | 3.8 | 4.5 | 4.0 | 127 |

Bipolar winding, Lead wire type CE/UL model

| Model no. | | Holding torque at 2-phase energization N·m min. | Rated current A/phase | Wiring resistance Ω/phase | Winding inductance mH/phase | Rotor inertia ×10 ⁻⁴ kg·m ² | Mass kg | Motor length (L) mm |
|--------------|-------------|--|--------------------------|------------------------------|--------------------------------|--|------------|------------------------|
| Single shaft | Dual shaft | | | | | | | |
| SM2861-5051 | SM2861-5021 | 3.3 | 2 | 2.2 | 15 | 1.48 | 1.75 | 66 |
| SM2861-5151 | SM2861-5121 | 3.3 | 4 | 0.56 | 3.7 | 1.48 | 1.75 | 66 |
| SM2861-5251 | SM2861-5221 | 3.3 | 6 | 0.29 | 1.7 | 1.48 | 1.75 | 66 |
| SM2862-5051 | SM2862-5021 | 6.4 | 2 | 3.2 | 25 | 3.0 | 2.9 | 96.5 |
| SM2862-5151 | SM2862-5121 | 6.4 | 4 | 0.83 | 6.4 | 3.0 | 2.9 | 96.5 |
| SM2862-5255 | SM2862-5221 | 6.4 | 6 | 0.36 | 2.8 | 3.0 | 2.9 | 96.5 |
| SM2863-5051 | SM2863-5021 | 9 | 2 | 4.0 | 32 | 4.5 | 4.0 | 127 |
| SM2863-5151 | SM2863-5121 | 9 | 4 | 1.0 | 7.9 | 4.5 | 4.0 | 127 |
| SM2863-5251 | SM2863-5221 | 9 | 6 | 0.46 | 3.8 | 4.5 | 4.0 | 127 |

Bipolar winding, Terminal block type CE/UL model

| Model no. | | Holding torque at 2-phase energization N·m min. | Rated current A/phase | Wiring resistance Ω/phase | Winding inductance mH/phase | Rotor inertia ×10 ⁻⁴ kg·m ² | Mass kg | Motor length (L) mm |
|--------------|--|--|--------------------------|------------------------------|--------------------------------|--|------------|------------------------|
| Single shaft | | | | | | | | |
| SM2861-5066 | | 3.3 | 2 | 2.03 | 15 | 1.48 | 1.9 | 97.9 |
| SM2861-5166 | | 3.3 | 4 | 0.52 | 3.7 | 1.48 | 1.9 | 97.9 |
| SM2861-5266 | | 3.3 | 6 | 0.27 | 1.7 | 1.48 | 1.9 | 97.9 |
| SM2862-5066 | | 6.4 | 2 | 3.08 | 25 | 3.0 | 3.05 | 128.4 |
| SM2862-5166 | | 6.4 | 4 | 0.79 | 6.4 | 3.0 | 3.05 | 128.4 |
| SM2862-5266 | | 6.4 | 6 | 0.33 | 2.8 | 3.0 | 3.05 | 128.4 |
| SM2863-5066 | | 9 | 2 | 3.83 | 32 | 4.5 | 4.15 | 158.8 |
| SM2863-5166 | | 9 | 4 | 0.96 | 7.9 | 4.5 | 4.15 | 158.8 |
| SM2863-5266 | | 9 | 6 | 0.48 | 3.8 | 4.5 | 4.15 | 158.8 |

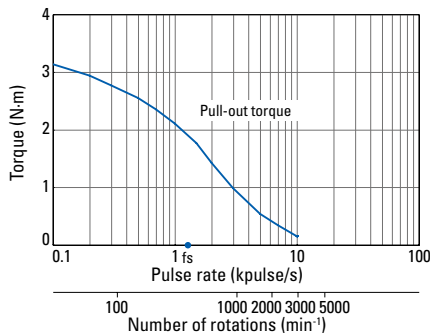
Characteristics diagram

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)
 Pull-out torque:
 $J_L=15.3 \times 10^{-4} \text{kg} \cdot \text{m}^2$ (use the
 rubber coupling)
 fs: Maximum self-start
 frequency when not
 loaded

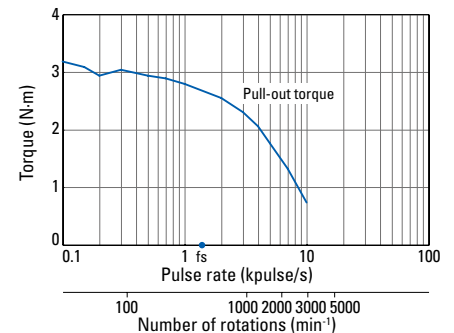


SH2861-5141
SH2861-5111

SM2861-5151
SM2861-5121

SM2861-5166

Constant current circuit
 Source voltage: 100 VAC
 Operating current:
 4 A/phase, 2-phase
 energization (full-step)
 Pull-out torque:
 $J_L=15.3 \times 10^{-4} \text{kg} \cdot \text{m}^2$ (use the
 rubber coupling)
 fs: Maximum self-start
 frequency when not
 loaded



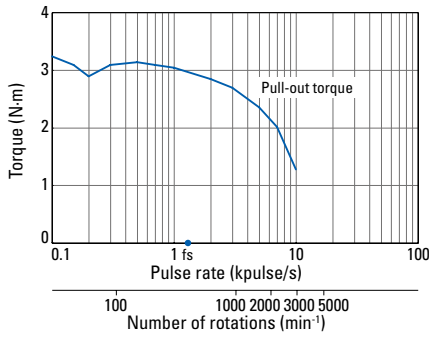
Characteristics diagram

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)
Pull-out torque:
 $J_L=15.3 \times 10^{-4} \text{kg} \cdot \text{m}^2$ (use the
rubber coupling)
 f_s : Maximum self-start
frequency when not
loaded

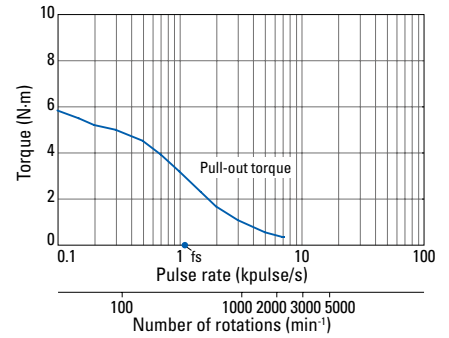


SH2862-5041
SH2862-5011

SM2862-5051
SM2862-5021

SM2862-5066

Constant current circuit
Source voltage: 100 VAC
Operating current:
2 A/phase, 2-phase
energization (full-step)
Pull-out torque:
 $J_L=15.3 \times 10^{-4} \text{kg} \cdot \text{m}^2$ (use the
rubber coupling)
 f_s : Maximum self-start
frequency when not
loaded

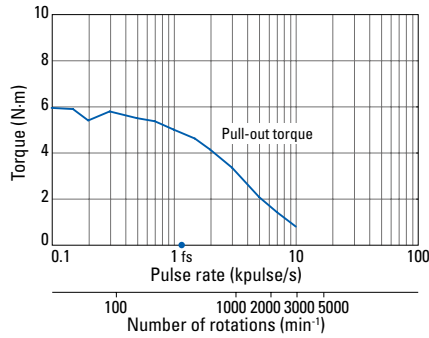


SH2862-5141
SH2862-5111

SM2862-5155
SM2862-5121

SM2862-5166

Constant current circuit
Source voltage: 100 VAC
Operating current:
4 A/phase, 2-phase
energization (full-step)
Pull-out torque:
 $J_L=15.3 \times 10^{-4} \text{kg} \cdot \text{m}^2$ (use the
rubber coupling)
 f_s : Maximum self-start
frequency when not
loaded

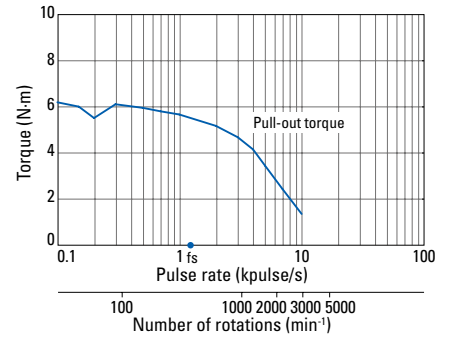


SH2862-5241
SH2862-5211

SM2862-5255
SM2862-5225

SM2862-5266

Constant current circuit
Source voltage: 100 VAC
Operating current:
6 A/phase, 2-phase
energization (full-step)
Pull-out torque:
 $J_L=15.3 \times 10^{-4} \text{kg} \cdot \text{m}^2$ (use the
rubber coupling)
 f_s : Maximum self-start
frequency when not
loaded

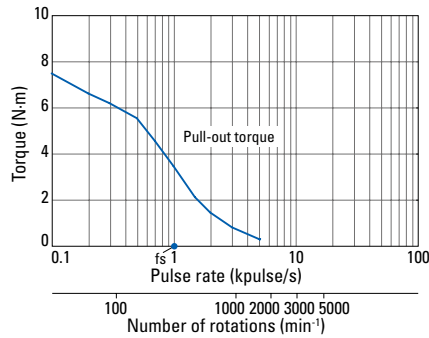


SH2863-5041
SH2863-5011

SM2863-5051
SM2863-5021

SM2863-5066

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

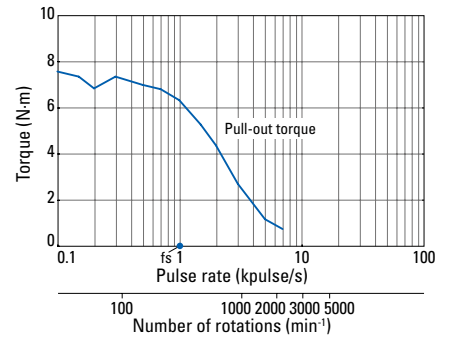


SH2863-5141
SH2863-5111

SM2863-5151
SM2863-5121

SM2863-5166

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

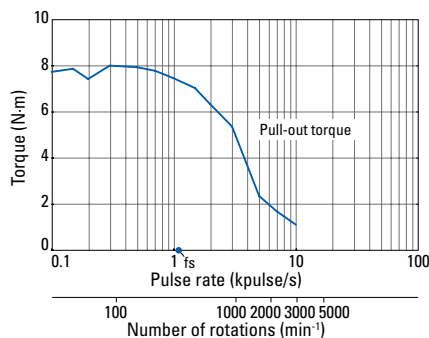


SH2863-5241
SH2863-5211

SM2863-5251
SM2863-5221

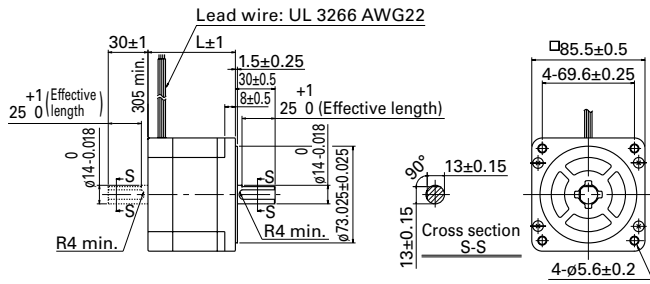
SM2863-5266

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

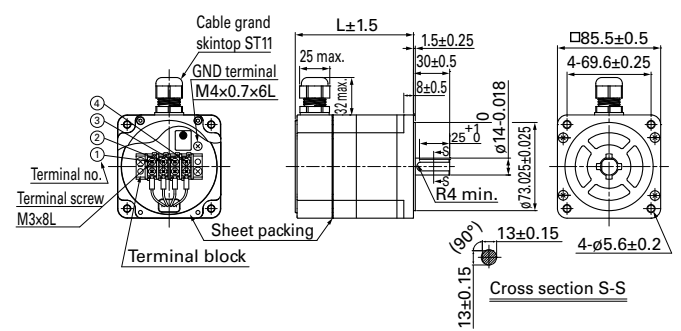


Dimensions (Unit: mm)

Lead wire type



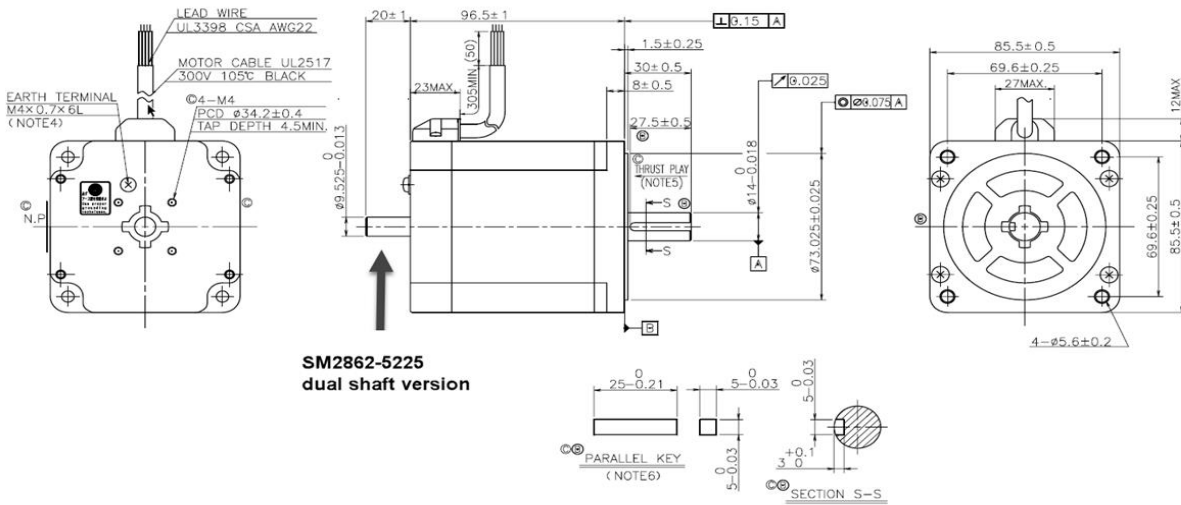
Terminal block type CE/UL model



Lead wire type CE/UL model

Drawings for model numbers :

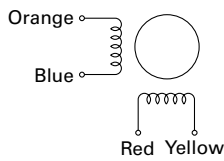
- SM2862-5155 4A/phase single shaft**
- SM2862-5255 6A/phase single shaft**
- SM2862-5225 6A/phase dual shaft**



SM2862-5225
dual shaft version

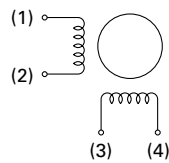
Internal wiring

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.

