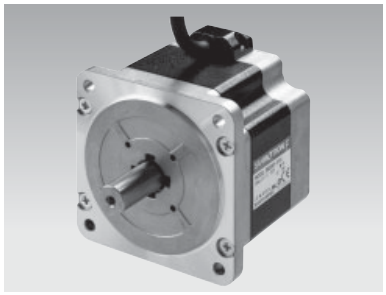


86 mm sq.

1.8°/step RoHS

Bipolar, lead-type, CE/UKCA/UL models

Bipolar, terminal block-type, CE/UKCA/UL models

Unipolar, lead-type, CE/UKCA/UL models ▶p. 64

ECO PRODUCTS

Custom options

Hollow shaft | Custom shaft | Encoder

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

Bipolar, lead-type, CE/UKCA/UL models

Model no.		Holding torque at 2-phase excitation	Rated current	Winding resistance	Winding inductance	Rotor inertia	Mass	Motor length (L)
Single shaft	Dual shaft	N·m or more	A/phase	Ω/phase	mH/phase	×10⁻⁴kg·m²	kg	mm
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
SM2862-5251	**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

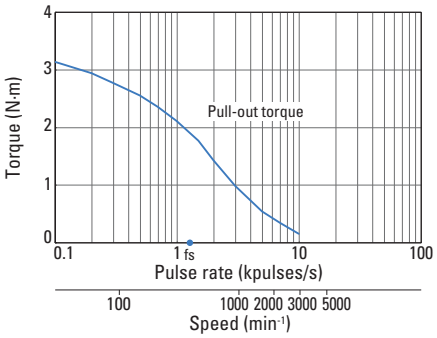
Bipolar, terminal block-type, CE/UKCA/UL models

Model no.	Holding torque at 2-phase excitation	Rated current	Winding resistance	Winding inductance	Rotor inertia	Mass	Motor length (L)
Single shaft	N·m or more	A/phase	Ω/phase	mH/phase	×10⁻⁴kg·m²	kg	mm
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

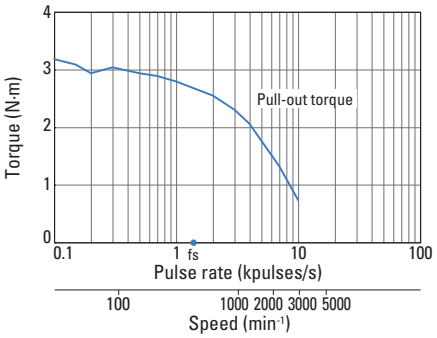
SM2861-5051
SM2861-5021
SM2861-5066

Constant current circuit
Input voltage: 100 VAC
Winding current:
2 A/phase
At 2-phase excitation (full step)
Pull-out torque:
$J_L = 15.3 \times 10^{-4}$kg·m²
(with rubber coupling used)
fs: Maximum starting pulse rate with no load



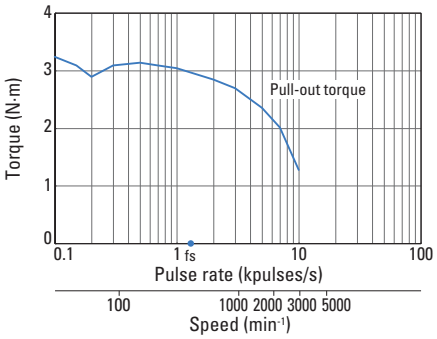
SM2861-5151
SM2861-5121
SM2861-5166

Constant current circuit
Input voltage: 100 VAC
Winding current:
4 A/phase
At 2-phase excitation (full step)
Pull-out torque:
$J_L = 15.3 \times 10^{-4}$kg·m²
(with rubber coupling used)
fs: Maximum starting pulse rate with no load



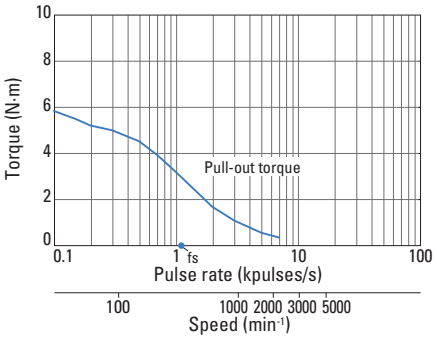
SM2861-5251
SM2861-5221
SM2861-5266

Constant current circuit
Input voltage: 100 VAC
Winding current:
6 A/phase
At 2-phase excitation (full step)
Pull-out torque:
$J_L = 15.3 \times 10^{-4}$kg·m²
(with rubber coupling used)
fs: Maximum starting pulse rate with no load



SM2862-5051
SM2862-5021
SM2862-5066

Constant current circuit
Input voltage: 100 VAC
Winding current:
2 A/phase
At 2-phase excitation (full step)
Pull-out torque:
$J_L = 15.3 \times 10^{-4}$kg·m²
(with rubber coupling used)
fs: Maximum starting pulse rate with no load



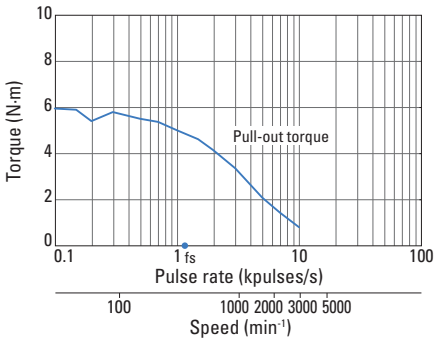
Allowable loads... ▶p. 69 Internal wiring and rotational directions... ▶p. 70 General specifications... ▶p. 71

Data is measured under the drive conditions of SANYO DENKI. Drive torque may vary depending on the actual machine precision.

Characteristics

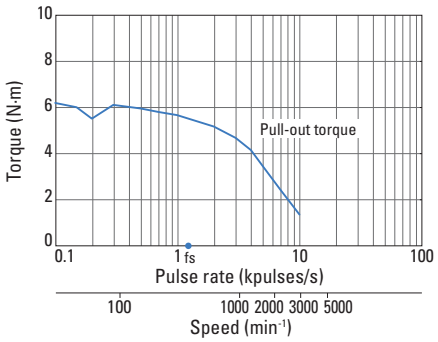
SM2862-5151 SM2862-5121
SM2862-5166

Constant current circuit
Input voltage: 100 VAC
Winding current:
4 A/phase
At 2-phase excitation (full step)
Pull-out torque:
$J_L = 15.3 \times 10^{-4}$kg·m²
(with rubber coupling used)
f_S: Maximum starting pulse rate with no load



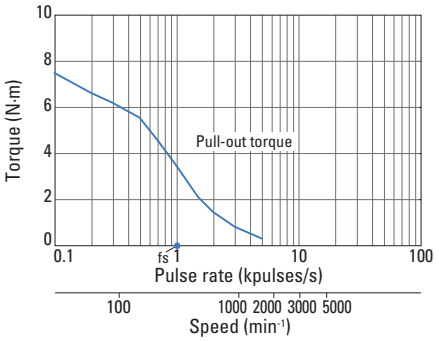
SM2862-5251 SM2862-5221
SM2862-5066

Constant current circuit
Input voltage: 100 VAC
Winding current:
6 A/phase
At 2-phase excitation (full step)
Pull-out torque:
$J_L = 15.3 \times 10^{-4}$kg·m²
(with rubber coupling used)
f_S: Maximum starting pulse rate with no load



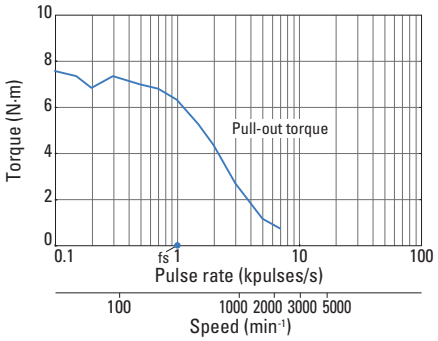
SM2863-5051 SM2863-5021
SM2863-5066

Constant current circuit
Input voltage: 100 VAC
Winding current:
2 A/phase
At 2-phase excitation (full step)
Pull-out torque:
$J_L = 44 \times 10^{-4}$kg·m²
(with rubber coupling used)
f_S: Maximum starting pulse rate with no load



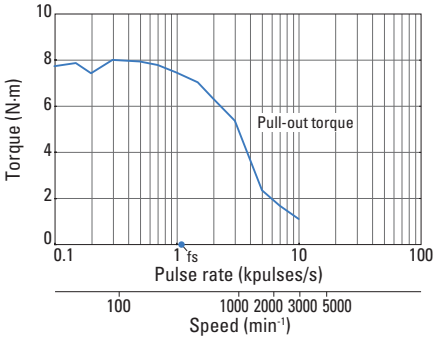
SM2863-5151 SM2863-5121
SM2863-5166

Constant current circuit
Input voltage: 100 VAC
Winding current:
4 A/phase
At 2-phase excitation (full step)
Pull-out torque:
$J_L = 44 \times 10^{-4}$kg·m²
(with rubber coupling used)
f_S: Maximum starting pulse rate with no load



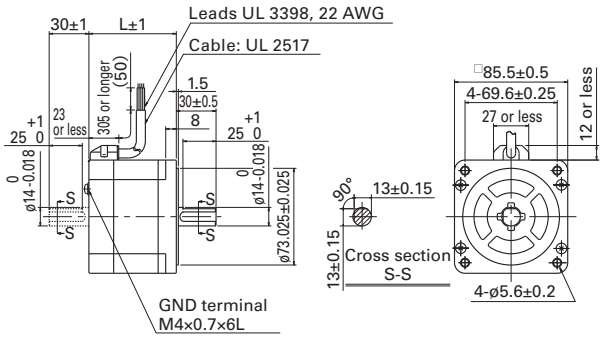
SM2863-5251 SM2863-5221
SM2863-5266

Constant current circuit
Input voltage: 100 VAC
Winding current:
6 A/phase
At 2-phase excitation (full step)
Pull-out torque:
$J_L = 44 \times 10^{-4}$kg·m²
(with rubber coupling used)
f_S: Maximum starting pulse rate with no load

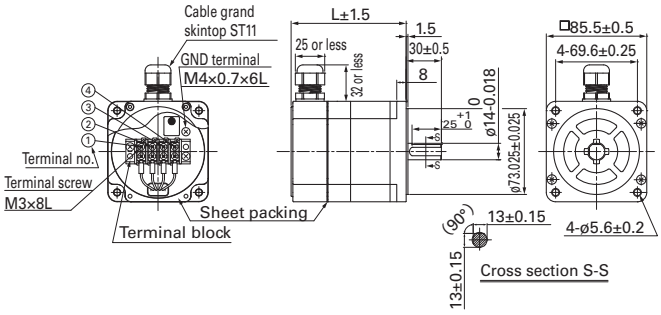


Dimensions (Unit: mm)

Lead type

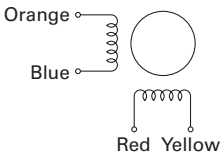


Terminal block type



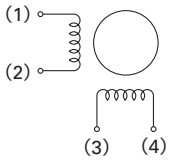
Internal winding

Lead type



Terminal block type

Inside parentheses are terminal numbers



Compatible drivers

A driver is to be provided by the customer.

Allowable loads... ▶p. 69 Internal wiring and rotational directions... ▶p. 70 General specifications... ▶p. 71

Data is measured under the drive conditions of SANYO DENKI. Drive torque may vary depending on the actual machine precision.