



56 mm sq.

1.8°/step RoHS
Unipolar, connector type



Custom options

Hollow shaft | Custom shaft
Gear | Encoder
Brake

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

Unipolar, connector type

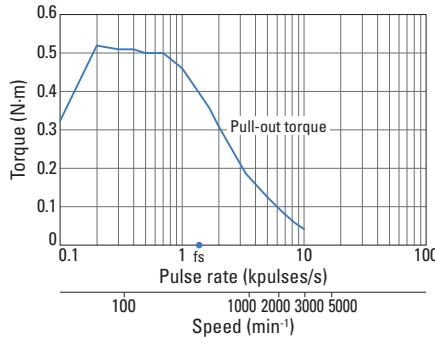
Model no.		Holding torque at 2-phase excitation	Rated current	Winding resistance	Winding inductance	Rotor inertia	Mass	Motor length (L)
Single shaft	Dual shaft	N·m or more	A/phase	Ω/phase	mH/phase	×10 ⁻⁴ kg·m ²	kg	mm
SM2561C10U41	SM2561C10U11	0.53	1	4.3	6.8	0.14	0.49	41.8
SM2561C20U41	SM2561C20U11	0.53	2	1.15	1.8	0.14	0.49	41.8
SM2561C30U41	SM2561C30U11	0.53	3	0.52	0.77	0.14	0.49	41.8
SM2562C10U41	SM2562C10U11	1.1	1	5.85	12.6	0.28	0.69	53.8
SM2562C20U41	SM2562C20U11	1.1	2	1.55	3.3	0.28	0.69	53.8
SM2562C30U41	SM2562C30U11	1.1	3	0.69	1.37	0.28	0.69	53.8
SM2563C10U41	SM2563C10U11	1.7	1	7.8	17	0.5	1.1	75.8
SM2563C20U41	SM2563C20U11	1.7	2	1.87	4.2	0.5	1.1	75.8
SM2563C30U41	SM2563C30U11	1.7	3	0.74	1.75	0.5	1.1	75.8
SM2564C10U41	SM2564C10U11	1.75	1	9	22	0.6	1.27	85.8
SM2564C20U41	SM2564C20U11	1.75	2	2.1	5.4	0.6	1.27	85.8
SM2564C30U41	SM2564C30U11	1.75	3	0.84	2.2	0.6	1.27	85.8

Motor cable model no.: 4837798-1

Characteristics

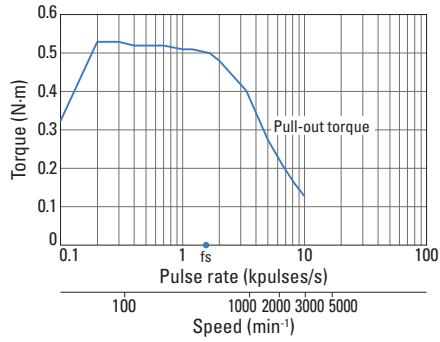
SM2561C10U41 SM2561C10U11

Constant current circuit
Input voltage: 24 VDC
Winding current:
1 A/phase
At 2-phase excitation (full step)
Pull-out torque:
 $J_o = 0.94 \times 10^{-4} \text{ kg}\cdot\text{m}^2$
(with rubber coupling used)
fs: Maximum starting pulse rate with no load



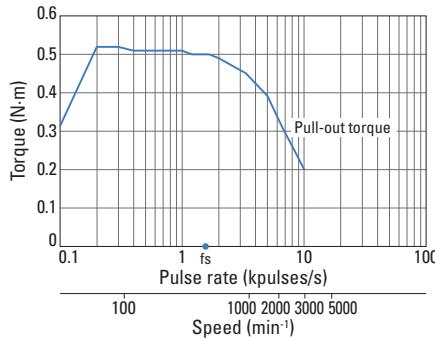
SM2561C20U41 SM2561C20U11

Constant current circuit
Input voltage: 24 VDC
Winding current:
2 A/phase
At 2-phase excitation (full step)
Pull-out torque:
 $J_o = 0.94 \times 10^{-4} \text{ kg}\cdot\text{m}^2$
(with rubber coupling used)
fs: Maximum starting pulse rate with no load



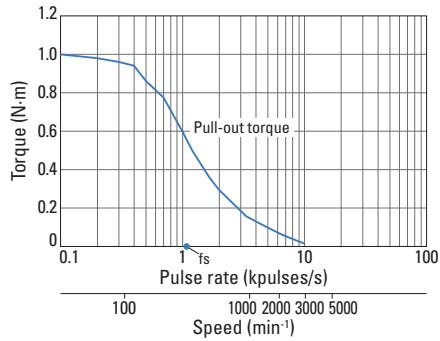
SM2561C30U41 SM2561C30U11

Constant current circuit
Input voltage: 24 VDC
Winding current:
3 A/phase
At 2-phase excitation (full step)
Pull-out torque:
 $J_o = 0.94 \times 10^{-4} \text{ kg}\cdot\text{m}^2$
(with rubber coupling used)
fs: Maximum starting pulse rate with no load



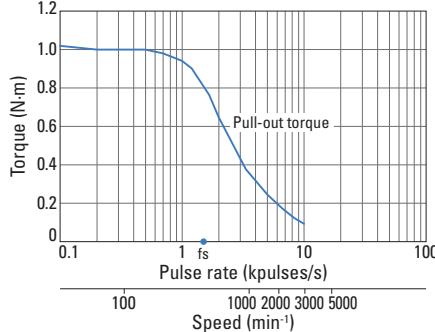
SM2562C10U41 SM2562C10U11

Constant current circuit
Input voltage: 24 VDC
Winding current:
1 A/phase
At 2-phase excitation (full step)
Pull-out torque:
 $J_o = 2.6 \times 10^{-4} \text{ kg}\cdot\text{m}^2$
(with rubber coupling used)
fs: Maximum starting pulse rate with no load



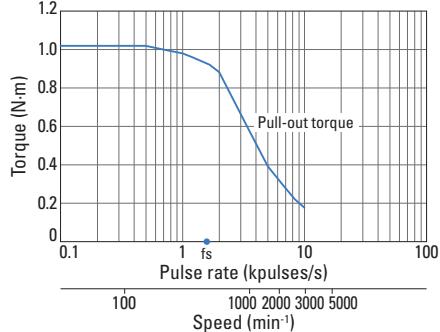
SM2562C20U41 SM2562C20U11

Constant current circuit
Input voltage: 24 VDC
Winding current:
2 A/phase
At 2-phase excitation (full step)
Pull-out torque:
 $J_o = 2.6 \times 10^{-4} \text{ kg}\cdot\text{m}^2$
(with rubber coupling used)
fs: Maximum starting pulse rate with no load



SM2562C30U41 SM2562C30U11

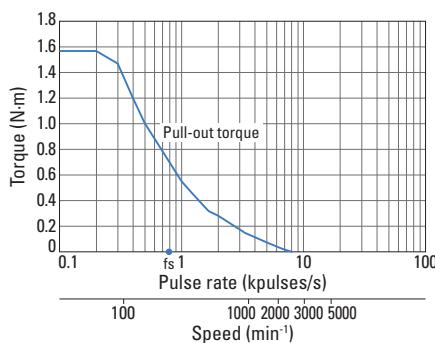
Constant current circuit
Input voltage: 24 VDC
Winding current:
3 A/phase
At 2-phase excitation (full step)
Pull-out torque:
 $J_o = 2.6 \times 10^{-4} \text{ kg}\cdot\text{m}^2$
(with rubber coupling used)
fs: Maximum starting pulse rate with no load



Characteristics

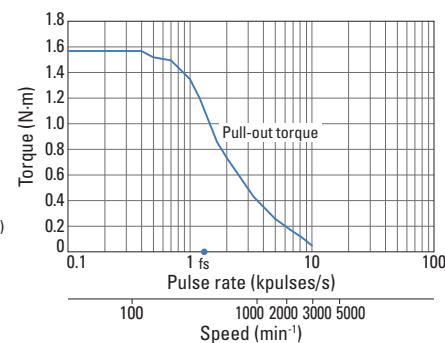
SM2563C10U41 SM2563C10U11

Constant current circuit
Input voltage: 24 VDC
Winding current:
1 A/phase
At 2-phase excitation (full step)
Pull-out torque:
 $J_L = 7.4 \times 10^{-4} \text{ kg}\cdot\text{m}^2$
(with rubber coupling used)
fs: Maximum starting pulse rate with no load



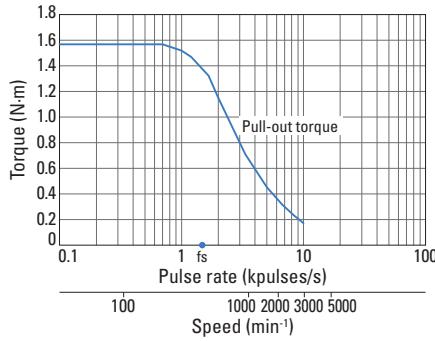
SM2563C20U41 SM2563C20U11

Constant current circuit
Input voltage: 24 VDC
Winding current:
2 A/phase
At 2-phase excitation (full step)
Pull-out torque:
 $J_L = 7.4 \times 10^{-4} \text{ kg}\cdot\text{m}^2$
(with rubber coupling used)
fs: Maximum starting pulse rate with no load



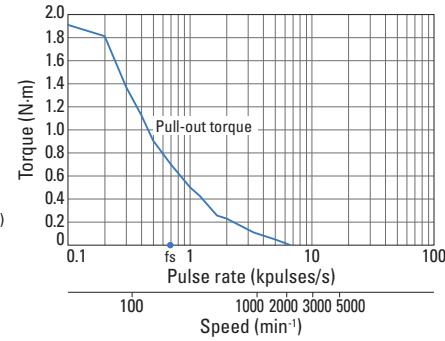
SM2563C30U41 SM2563C30U11

Constant current circuit
Input voltage: 24 VDC
Winding current:
3 A/phase
At 2-phase excitation (full step)
Pull-out torque:
 $J_L = 7.4 \times 10^{-4} \text{ kg}\cdot\text{m}^2$
(with rubber coupling used)
fs: Maximum starting pulse rate with no load



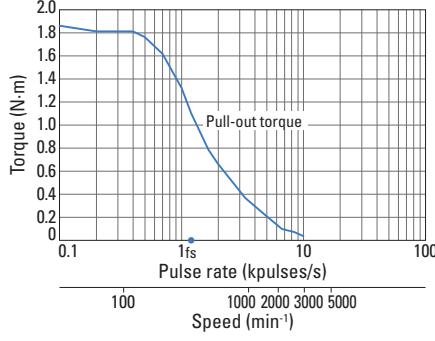
SM2564C10U41 SM2564C10U11

Constant current circuit
Input voltage: 24 VDC
Winding current:
1 A/phase
At 2-phase excitation (full step)
Pull-out torque:
 $J_L = 7.4 \times 10^{-4} \text{ kg}\cdot\text{m}^2$
(with rubber coupling used)
fs: Maximum starting pulse rate with no load



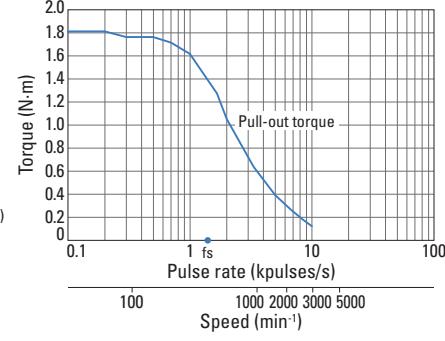
SM2564C20U41 SM2564C20U11

Constant current circuit
Input voltage: 24 VDC
Winding current:
2 A/phase
At 2-phase excitation (full step)
Pull-out torque:
 $J_L = 7.4 \times 10^{-4} \text{ kg}\cdot\text{m}^2$
(with rubber coupling used)
fs: Maximum starting pulse rate with no load

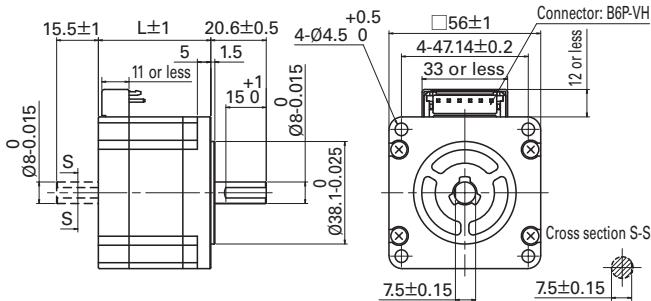


SM2564C30U41 SM2564C30U11

Constant current circuit
Input voltage: 24 VDC
Winding current:
3 A/phase
At 2-phase excitation (full step)
Pull-out torque:
 $J_L = 7.4 \times 10^{-4} \text{ kg}\cdot\text{m}^2$
(with rubber coupling used)
fs: Maximum starting pulse rate with no load



Dimensions (Unit: mm)



Separate option: Motor cable 4837798-1

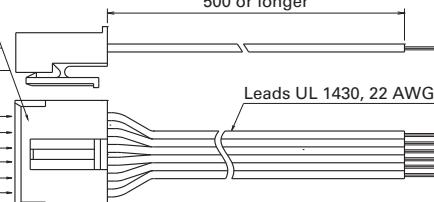
Mfr.: J.S.T.

Housing: VHR-6N

Terminal: SVH-21T-P1.1

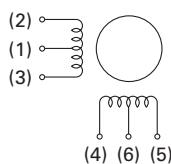
Terminal no. Lead color

6	Black
5	Yellow
4	Red
3	Blue
2	Orange
1	White



Internal wiring

In parentheses are connector pin nos.



Compatible drivers

- For motors SM256□C20U□1 (2 A/phase)...

Model no.: US1D200P10 (DC input)

Operating current selection switch setting: 0

- For motors other than above...

A driver is to be provided by the customer.

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

If considering replacing our conventional 56 mm sq. motors (103H712□),

→ See Models No Longer Listed and Their Replacement Models in p. 78 to 79