

THE **BEST** MOTION PARTNER

SUNSO Website



SUNSO

SUNSO INDUSTRY., LTD

About Us

SUNSO INDUSTRY LTD.

Founded in 1974 and headquartered in Taiwan, Sunso Industry Ltd. is a leading company specializing in the development, production, and sales of electromagnetic brakes.

Since its establishment, the company has continuously enhanced its technology, manufacturing capabilities, and product innovation. It has successfully developed numerous market-leading braking products, providing customers worldwide with diversified options to meet their specific needs.

In 1980, Sunso Industry independently developed its first DC-type brake. This product quickly gained recognition in the braking market and became one of Sunso Industry's flagship products.



As Sunso Industry continued to expand globally, the company launched the SB series brakes in 1985. The SB series products meet the rigorous regulatory standards of Japan and Europe, successfully entering the international market.

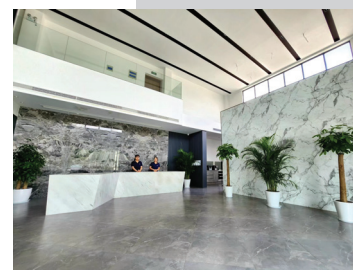


In 1989, Sunso Industry targeted the heavy vehicle braking market and introduced the SB05 model brake.

In 2008, Sunso Industry established a subsidiary in Shanghai—Shanghai Sunso Industry Ltd.—to provide high-quality braking products tailored to the rapidly growing Chinese market. In the same year, Sunso Industry's "SIMEX" brand obtained CE certification for its clutch and brake products, further solidifying its leadership position in the global braking market.

In 2018, the company expanded its Shanghai facility and relocated to Kunshan City, Jiangsu Province. The new 7,000-square-meter manufacturing plant enhanced production capacity and strengthened the company's competitiveness in the high-end market.

In 2020, Sunso Industry partnered with a well-known Italian brake company to jointly develop new products. This collaboration strengthened Sunso Industry's presence in the European market and reinforced its position as a leading brand in the braking industry.



Milestone

Since its establishment, Sunso Industry Ltd. has accumulated extensive experience in braking system design, development, and manufacturing technology. The company is committed to providing customers with high-quality sample products and ensuring fast and reliable delivery times.

Sunso Industry possesses advanced testing equipment and a stringent quality management system, enabling it to offer customized electromagnetic braking solutions tailored to the specific needs of customers worldwide.

Through continuous innovation and exceptional product quality, Sunso Industry not only supplies customers with high-performance electromagnetic brake and clutch products, but also strives to be the best transportation solutions partner for enterprises globally.

1974

Established Sunso Industry Ltd. (Taiwan)

1985

Developed and designed overload protection brakes for Japanese customers:

- SB01 series integrated brake system
- Complied with IEC and European stringent regulatory standards
- SB02 and SB03 models were adopted in elevator braking systems

1997

Expanded and relocated the factory

- New facility size: 2,000 square meters

2008

Established an overseas branch in Shanghai. (China)

- Founded Shanghai Sunso Co., Ltd.
- New factory size: 2,700 square meters

2011

Designed and developed AC multi-voltage brakes

- Successfully obtained patents in Taiwan and China

2015

Established a partnership with a renowned Japanese enterprise

2020

Successfully developed and launched brakes for wind-power generation systems

2023

Became a brake supplier for leading companies in Germany, Italy, Canada, Japan, and other countries

2024

Sunso Korea Set up

2018

Expanded and relocated the Shanghai factory to Jiangsu (Changshu)

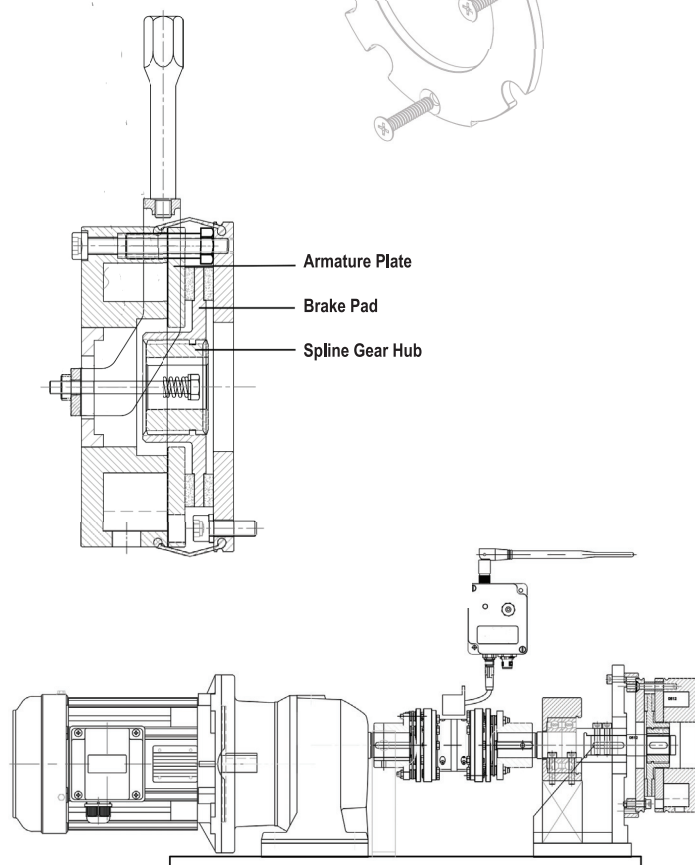
- New factory size: 7,000 square meters

Spring-Applied Electromagnetic Brake (Power-Off Brake)

Description of Spring-Applied Electromagnetic Brake Operation

The brake pad is mounted on the shaft (motor) through the gear hub sleeve, and the bottom plate is fixed to the motor end cover. The compressed brake spring presses against the brake pad, which is clamped between the armature plate and the bottom plate. The frictional force generated applies braking to the shaft.

After installation, both the coil and the armature plate maintain a specified air gap. When the coil is energized, the magnetic force overcomes the compression force of the brake spring and attracts the armature plate, causing the armature plate to separate from the brake pad. At the same time, the brake pad is released into a free state, allowing the shaft (motor) to rotate freely.



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SB01 Uni-Surface Electromagnetic Spring-Applied Brake

Basic Performance Range

Design Type: An electromagnetic spring-applied safety brake that can replace the motor's end cover to reduce space.

Standard Nominal Voltage: DC12V/24V/48V/96V/130V/190V/220V

Protection Class: IP00

Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Brake Torque: 0.9~52.5Nm

Options: Frame Materials/Protection Class/Braking Torque

Remarks: Refer to the table below for more details.



Specifications (Performance & Dimensions)

Type	A	B	C	D	E	F	G	H
Motor Frame Size	56	63	71	80	90	100	112	132
Motor Power (KW)	0.09	0.18	0.37	0.75	1.5	2.2	3.7	5.6
Nominal Torque (N.M)	0.9	1.8	3.6	7	14	21	35	52.5
Nominal Voltage (DC-V)	96	96	96	96	96	96	96	96
Brake Consumption Power (W)**	11	17	21	52.5	47	54	54	120
Brake Air Gap (mm)	Standard Value	0.2	0.2	0.25	0.25	0.35	0.35	0.35
	Limited Value	0.4	0.6	0.6	0.7	0.8	0.8	0.8
Weight (Kg)	1.2	1.8	2.9	3.2	5.8	8.3	8.6	12.3

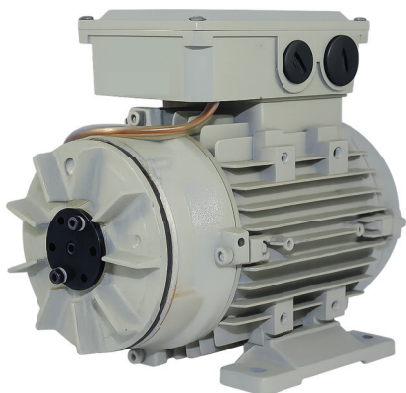
** Will be vary depending on the voltage.

Options

Frame Materials	Protection Class	Brake Power	Voltage
A: Iron/Aluminum-Reduction	A: Standard	A: 100%	A: 12VDC
B: Iron/Aluminum	B: Semi-Sealed	B: 180%	B: 24VDC
C: Cast Iron	C: Full-Sealed	C: 200%	C: 48VDC
D: Cast Iron-Series Y		D: 250%	D: 96VDC
		E: 300%	E: 130VDC
		F: 190VDC	G: 220VDC

Ordering Example

SB01DCACD	▶	Motor frame size	D: No. 80
		Frame materials	C: Cast Iron
		Protection class	A: Standard
		Brake power	C: 200%
		Voltage	D: 96VDC



SB02 Electromagnetic Spring-Splined Brake

Basic Performance Range

Design Type: An electromagnetic spring-applied safety brake that can be directly installed on the end cover of a motor

Standard Nominal Voltage: DC12/24V/48V/96V/130V/190V/220V

Protection Class: IP00

Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Brake Torque: 4~400Nm

Options: Frame Materials/Protection Class/Braking Torque

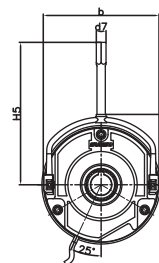
Remarks: Refer to the table below for more details.



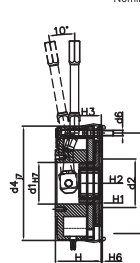
Specifications (Performance & Dimensions)

Type	6	8	10	12	14	16	18	20	25
Nominal Torque (N.m)*	4	8	16	32	60	80	150	260	400
Max. Torque (N.m)**	6	12	23	46	96	125	188	325	500
Nominal Voltage (DC-V)	96	96	96	96	96	96	96	96	96
Brake Consumption Power (W)	20	25	31	40	50	55	85	100	110
Insulation Class	F	F	F	F	F	F	F	F	F
Max. Speed (RPM)	6000	5000	4000	3600	3600	3600	3600	3600	3000
Moment of Inertia of Rotation Parts (J·kg.m²)	1.5X10 ⁻⁵	6.1X10 ⁻⁵	2X10 ⁻⁴	4.5X10 ⁻⁴	6.3X10 ⁻⁴	1.5X10 ⁻³	2.9X10 ⁻³	7.3X10 ⁻³	2.0X10 ⁻²
Suction Time of Amature Plate (s)	0.045	0.057	0.076	0.115	0.21	0.22	0.27	0.34	0.39
Release Time of Amature Plate (s)	0.025	0.029	0.035	0.045	0.05	0.071	0.033	0.065	0.11
Weight (kg)	1.1	1.9	3.8	5.7	8.6	12	15	21.5	33

Nominal Torque (N.m)* means the standard brake torque. / Max. Torque (N.m)** means the holding brake torque.



SB0206-SB0216 Stainless Base Plate



SB0206-SB0225 Standard Base Plate

SB02 Dimensions

Type	6	8	10	12	14	16	18	20	25
b	84	102	130	150	165	190	217	254	302
H	36.3	42.8	48.4	54.9	66.3	72.5	83.1	97.6	106.7
H1	1	1	2	2	2	2.25	3	3.5	4.5
H2	18	20	20	25	30	30	35	40	50
H3	15.8	16.3	27.4	29.4	33.8	37	41.6	48.1	57.7
H4	56	63	73.3	85	97.9	111	125	146	170
H5	107	116	132	161	195	240	279	319	445
H6	1.5	1.5	1.5	1.5	1.5	1.5	-	-	-
H7	6	7	9	9	11	11	11	11	12.5
d1H7	25	32	42	50	60	68	75	85	115
d2	36	45	52	68	78	90	-	-	-
d3	31	41	45	52	55	70	77	90	120
d4F	87	105	130	150	165	190	217	254	302
d5	72	90	112	132	145	170	196	230	278
d6	3-M4	3-M5	3-M6	3-M6	3-M8	3-M8	6-M8	6-M10	6-M10
d7	13	13	13	13	24	24	24	24	24
d17	10/11/12 /14/15	11/12/14 /15/20	11/12/14 /15/20	15/17/20 /25	20/25/30	25/30/35 /38	30/35/38 /40/45	35/38/40 /45/50	40/45/50 /55/60/65/70

※ Customization can be available according to customer's requirements.

SB03 Electromagnetic Spring-Splined Brake for Heavy Duty**Basic Performance Range**

Design Type: A high-torque electromagnetic spring-applied safety brake that can be directly installed on the end cover of a motor.

Standard Nominal Voltage: DC12/24V/48V/96V/130V/190V/220V

Protection Class: IP00

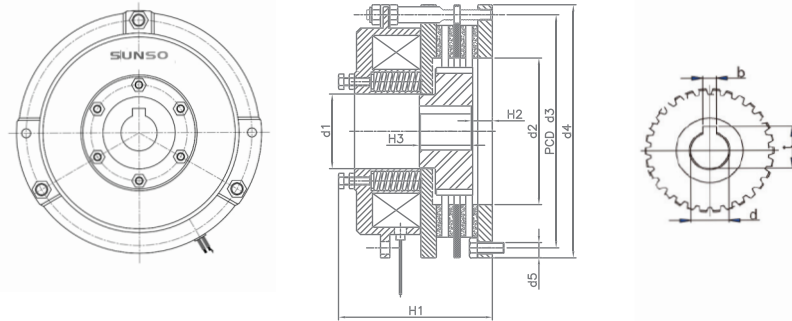
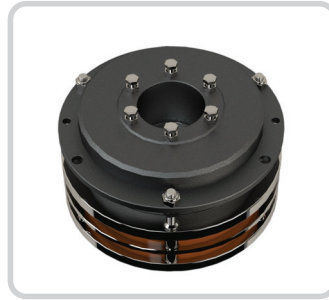
Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Brake Torque: 280~880Nm

Options: Braking Torque

Remarks: Refer to the table below for more details.

**Specifications (Performance & Dimensions)**

Unit: mm

Type	61	71	62	72
Nominal Torque (N.m)*	280	470	530	880
Max. Torque (N.m)**	300	500	550	900
Insulation Class	F	F	F	F
Max. Speed (RPM)	3000	3000	3000	3000
d	45	65	45	65
b	10	18	12	18
t	50	71	50	71
d1	85	105	85	105
d2	148	180	148	180
d3	252	305	252	305
d4	275	340	275	340
d5	6XM10	6XM16	6XM10	6XM16
H1	116	132	40	160
H2	18	16	21	16
H3	40	70	60	70
Weight (Kg)	27	100	34	103

* The SB0362/72 brakes are equipped with two brake pads.

Options

A. Standard / B. Standard+Hand-release

SB04 Servomotor Brake (SB04A: Standard)**Basic Performance Range**

Design Type: An electromagnetic spring-applied safety brake that can be installed into the servomotor.

Standard Nominal Voltage: 7/24/48VDC

Protection Class: IP00

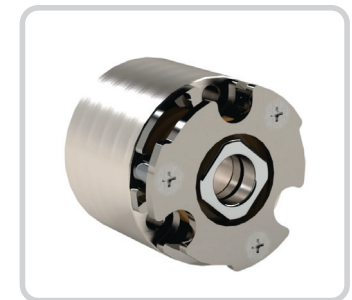
Insulation Class: F

Operational Ambient Temperature: -20~40°C

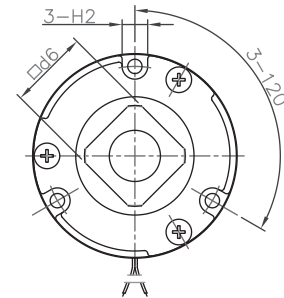
Nominal Brake Torque: 0.3~40Nm

Options: Customized can be available.

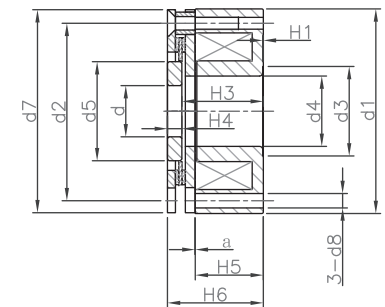
Remarks: Refer to the table below for more details.

**Performance**

Type	A01	A03	A05	A06	A08	A10	A12	A14
Static Friction Torque (N.m)	0.25	1.2	2.3	4.5	11	15	28	36
Coil (At 20°C)	Voltage (V)	24	24	24	24	24	24	24
	Power (W)	6.1	7.2	8.0	17.6	19.4	21.5	31.0
	Current (A)	0.25	0.30	0.33	0.73	0.81	0.90	1.30
	Resistance (Ω)	92	78	70	31	28	25	18
Insulation Class	F	F	F	F	F	F	F	F
Max. Speed (min ⁻¹)	6000	6000	6000	5000	5000	5000	5000	3600
Moment of Inertia of Rotation Parts J (kg·m ²)	1.38X10 ⁻⁷	1.2X10 ⁻⁶	3.8X10 ⁻⁶	2.4X10 ⁻⁵	3.5X10 ⁻⁵	1.2X10 ⁻⁴	2.0X10 ⁻⁴	4.6X10 ⁻⁴
Total Allowable Braking Energy E _t (J)	3000	17000	40000	2.0X10 ⁵	2.0X10 ⁵	2.2X10 ⁵	2.5X10 ⁵	3.0X10 ⁵
Suction Time of Amature Plate t _a (S)	0.035	0.050	0.060	0.05	0.08	0.11	0.12	0.12
Release Time of Amature Plate t _r (S)	0.020	0.020	0.020	0.02	0.02	0.05	0.03	0.03
Weight (kg)	0.12	0.33	0.55	1.0	1.3	1.5	2.5	3.3



A01, A03, A05

**▲ SB04A: A01- A05 / Dimensions**

Unit: mm

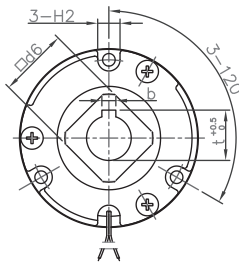
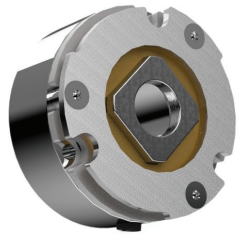
Series	A01	A03	A05
d1	33	48	64
d2	26.5	42	56
d3	16	26	28
d4	9	14	22
d5	14	23	31
d6	12	19	25
d7	32.5	47.5	63.5
d8	3.4	3.4	4.5

▲ SB04A: A01- A05 / Dimensions

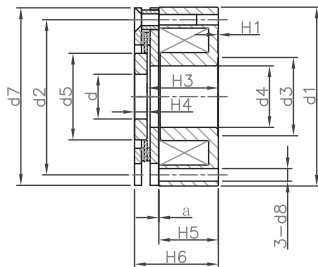
Unit: mm

Series	A01	A03	A05
H2	7	8	8
H3	26	26	25.5
H4	4	4	4.5
H6	31	31	31
a	0.15	0.15	0.15
d	8.5	11	16
b	NA	NA	NA
t	NA	NA	NA

※ Special performance & dimensions can be available.



A06~A16



▲ SB04A: A06- A14 / Dimensions

Unit: mm

Series	A06	A08	A10	A12	A14
d1	83.5	93.5	123.5	137.5	167.5
d2	76	85	115	130	158
d3	NA	NA	NA	NA	NA
d4	47	49	62	65	80
d5	42	42	55	62	74
d6	35	35	45	50	60
d7	82	92	122	136	166
d8	4.5	4.5	4.5	4.5	5.5
H2	9	10	9.5	12	12
H3	17	19	14.6	15.4	16
H4	7	7	9	9	9
H6	26	28	26	27	27
a	0.15	0.15	0.15	0.20	0.20
d	20	20	24	24	28
b	6	6	8	8	8
t	22.5	22.5	27	27	31

SB04 Servomotor Brake (SB04B: Slim Design)

Basic Performance Range

Design Type: An electromagnetic spring-applied safety brake that can be installed into the servomotor.

Standard Nominal Voltage: 7/24/48VDC

Protection Class: IP00

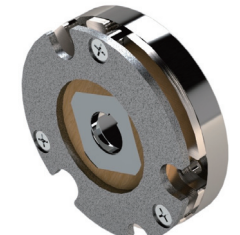
Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Brake Torque: 0.3~5.5Nm

Options: Customized can be available.

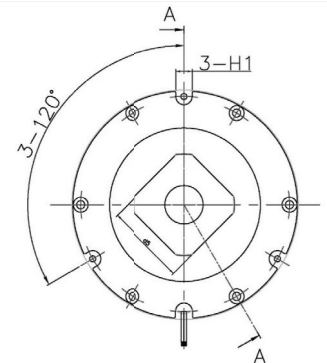
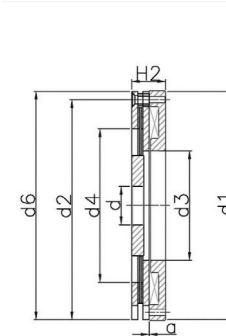
Remarks: Refer to the table below for more details.



■ Performance

Type		B01	B03	B05	B06	B08
Static Friction Torque (N.m)		0.32	0.62	1.5	3.5	5.5
Coil (At 20°C)	Volyage (V)*	24/7	24/7	24/7	24/7	24/7
	Power (W)	15.5/1.9	16.9/1.44	24.7/2.1	13.88/1.18	24.5/2.08
	Current (A)	0.79/0.23	0.72/0/2	1.03/0.3	0.58/0.17	1.02/0.29
	Resitance (Ω)	30.5	34	23.3	41.5	23.5
Insulation Class		F	F	F	F	F
Max. Speed (min ⁻¹)		6000	6000	6000	5000	5000
Moment of Inertia of Rotation Parts J (kg · m ²)		1.38X10 ⁻⁷	1.17X10 ⁻⁶	3.68X10 ⁻⁶	2.4X10 ⁻⁵	3.5X10 ⁻⁵
Total Allowable Braking Engery E _τ (J)		3000	17000	40000	2.0X10 ⁵	2.0X10 ⁵
Suction Time of Amature Plate t _a (S)		0.035	0.050	0.060	0.05	0.08
Release Time of Amature Plate t _r (S)		0.020	0.020	0.020	0.02	0.02
Weight (kg)		0.10	0.30	0.50	0.46	0.51

* 24/7 means that Actuation by 24VDC and then holding by 7VDC.



▲ Dimensions

Unit: mm

Series	B01	B03	B05	B06	B08
d1	39	48	64	83.5	93.5
d2	33.0	42	59	76	85.0
d3	9	16	24	33	49
d4	16	25	37	51	55.0
d5	12	19	25	35	45
d6	38.5	47.5	63.5	83.1	93.1
H1	5	6	8	9	10
H2	14	16	16	20	18~25
a	0.1	0.1	0.1	0.1	0.1
d	8	11	16	20	25

※ Special performance & dimensions can be available.

SB04 Servomotor Brake (SB04C: Zero-Backlash)

Basic Performance Range

Design Type: An electromagnetic spring-applied safety brake that can be installed into the servomotor.

Standard Nominal Voltage: 7/24/48VDC

Protection Class: IP00

Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Brake Torque: 1.5~13Nm

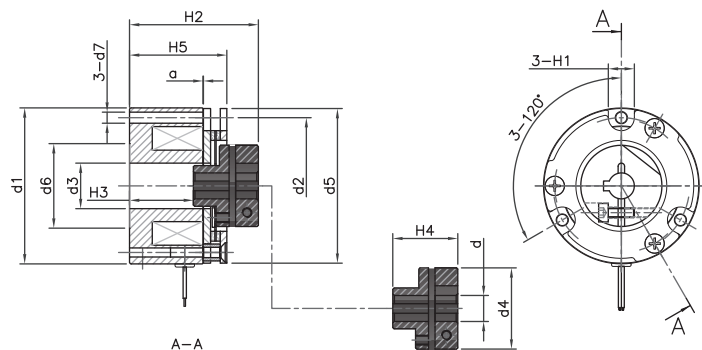
Options: Customized can be available.

Remarks: Refer to the table below for more details.



Performance

Type	C03	C05	C06	C08
Static Friction Torque (N.m)	1.5	2.5	5.2	13
Coil (At 20°C)	Volyage (V)	24	24	24
	Power (W)	7.2	8.8	24.2
Insulation Class	F	F	F	F
Max. Speed (min ⁻¹)	6000	6000	5000	5000
Moment of Inertia of Rotation Parts J (kg·m ²)	1.2X10 ⁻⁶	3.8X10 ⁻⁶	1.38X10 ⁻⁶	3.5X10 ⁻⁶
Total Allowable Braking Engery E _T (J)	17000	40000	2.0X10 ⁵	2.0X10 ⁵
Suction Time of Amature Plate t _a (S)	0.05	0.06	0.05	0.08
Release Time of Amature Plate t _r (S)	0.02	0.02	0.02	0.02
Weight (kg)	0.33	0.47	1.0	1.3



Dimensions

Unit: mm

Series	C03	C05	C06	C08
d1	48	64	83.5	93.5
d2	42	56	76	85.0
d3	14	22	47	49
d4	25	34	45	46.0
d5	48	64	83	93
d6	26.0	28.0	NA	NA
d7	3.4	4.5	4.5	4.5
H1	8	8	9	10
H2	40	42.15	40.3	43.4
H3	26	17.15	5.28	8.43
H4	20	25	35	35
H5	30	30	24.8	27
a	0.1~0.19	0.1~0.19	0.1~0.19	0.1~0.19
d	8	11	18	20

※ Special performance & dimensions can be available.

SB04 Servomotor Brake (SB04D: Zero-Backlash with Hollow Shaft)

Basic Performance Range

Design Type: An electromagnetic spring-applied safety brake that can be installed into the servomotor.

Standard Nominal Voltage: 7/24/48VDC

Protection Class: IP00

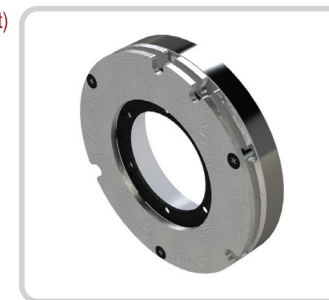
Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Brake Torque: 0.5~12Nm

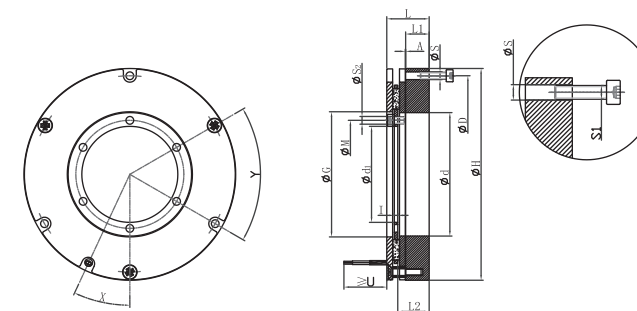
Options: Customized can be available.

Remarks: Refer to the table below for more details.



Performance

Type	D05	D06	D07	D08	D09	D10	D12
Static Friction Torque (N.m)	0.5	1.4	2.7	4	6	9	12
Coil (At 20°C)	Volyage (V)	24	24	24	24	24	24
	Power (W)	28.6	42.6	53.4	60.6	71.6	83.4
Insulation Class	F	F	F	F	F	F	F
Max. Speed (min ⁻¹)	8500	7000	6500	5500	5000	4500	4500
Moment of Inertia of Rotation Parts J (kg·m ²)	3.12X10 ⁻⁶	6.13X10 ⁻⁶	1.37X10 ⁻⁵	2.56X10 ⁻⁵	3.59X10 ⁻⁵	5.71X10 ⁻⁵	1.23X10 ⁻⁴
Total Allowable Braking Engery E _T (J)	3000	17000	40000	2.0X10 ⁵	2.0X10 ⁵	2.2X10 ⁵	2.5X10 ⁵
Suction Time of Amature Plate t _a (S)	0.035	0.035	0.045	0.05	0.08	0.11	0.12
Release Time of Amature Plate t _r (S)	0.020	0.020	0.020	0.02	0.02	0.05	0.03
Weight (kg)	0.17	0.26	0.43	0.52	0.67	0.81	1.10



Dimensions

Unit: mm

Series	D05	D06	D07	D08	D09	D10	D12
A	0.15	0.15	0.2	0.2	0.2	0.2	0.2
d	33.5	40.5	40.5	48.5	56	63	72
d1	22	29	29	33	40	47	56
D	53	62	70	80	90	100	115
G	33.5	40.5	40.5	48.5	56	63	73
H	58	68	78	88	98	108	123.5
L	16.35	18.35	20.9	20.9	21.9	22.4	24.8
I	1	1	1.5	1.5	1.5	1.5	2
L1	10	11	11.5	11.5	11.5	12	13.7
L2	12.85±0.1	14.35±0.1	15.65±0.2	15.65±0.2	16.15±0.2	16.65±0.2	18.3±0.2
M	27	34	34	40	47	54	63
S	2.4	2.9	3.4	3.4	4.5	4.5	4.5
S1	M2.5	M3	M4	M4	M5	M5	M5
S2	2.4	2.4	2.4	3.4	3.4	3.4	4.5
X	25°	25°	25°	25°	25°	25°	25°
Y	90°(4X)	60°(6X)	60°(6X)	60°(6X)	45°(8X)	45°(8X)	35°(10X)

※ Special performance & dimensions can be available.

SB06 Electromagnetic Spring-Applied Brake

Basic Performance Range

Design Type: An electromagnetic spring-applied safety brake that can replace the motor's end cover to reduce space.

Standard Nominal Voltage: 12/24/48/96/130/190/220VDC

Protection Class: IP00

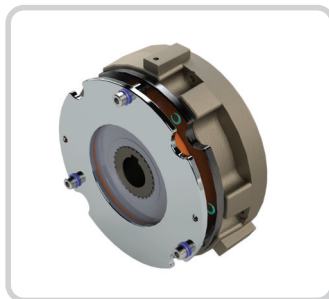
Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Brake Torque: 1.0~120Nm

Options: Customized can be available.

Remarks: Refer to the table below for more details.



Specifications (Performance & Dimensions)

Type	A	B	C	D	E	F	G	H	I
Motor Frame Size	56	63	71	80	90	100	112	132	160
Motor Power (KW)	0.09	0.18	0.37	0.75	1.5	2.2	3.7	5.6	11
Nominal Torque (N.M)	1	2	4	8	16	24	40	60	120
Nominal Voltage (DC-V)	96	96	96	96	96	96	96	96	96
Brake Consumption Power (W)	11	17	21	52.5	47	54	54	120	110
Brake Air Gap (mm)	Standard Value	0.2	0.2	0.25	0.35	0.35	0.35	0.35	0.35
	Limited Value	0.4	0.6	0.6	0.7	0.8	0.8	0.8	0.8
Weight (Kg)	1.2	1.8	2.9	3.2	5.8	8.3	8.6	12.3	23

※ Special performance & dimensions can be available.

Options

Frame Materials	Protection Class	Brake Force	Voltage
A: Iron/Aluminum-Reduction	A: Standard	A: 100%	A: 12VDC
B: Iron/Aluminum	B: Semi-Sealed	B: 180%	B: 24VDC
C: Cast Iron	C: Full-Sealed	C: 200%	C: 48VDC
D: Cast Iron-Series Y		D: 250%	D: 96VDC
E: Cast Iron-Reduction			E: 130VDC
			F: 190VDC
			G: 220VDC

Ordering Example

SB06 DCACD

▶ Motor frame size D: No. 80
Frame materials C: Cast Iron
Protection class A: Standard
Brake force C: 200%
Voltage D: 96VDC

SB07 AC Electromagnetic Spring-Applied Brake

Basic Performance Range

Design Type: An AC electromagnetic spring-applied safety brake that can be directly installed on the end cover of a motor

Standard Nominal Voltage: 220/380VAC

Protection Class: IP00

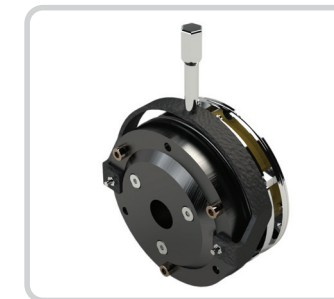
Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Brake Torque: 5~240Nm

Options: Hand-Release

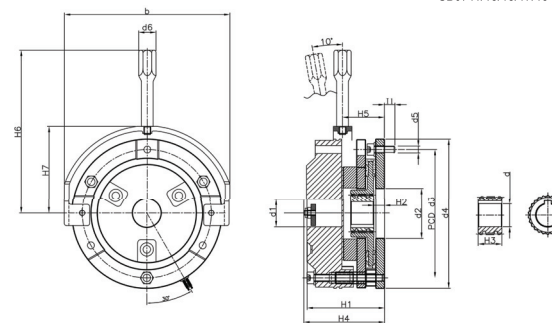
Remarks: Refer to the table below for more details.



Performance

Type	07	08	10	11	12	13	14	15	16	17	18	19
Nominal Torque (N.m)*	5	8	16	25	30	45	40	65	75	130	150	240
Nominal Voltage (AC)	AC220/230/380/400	AC220/230/380/400	AC220/230/380/400	AC220/230/380/400	AC220/230/380/400	AC220/230/380/400	AC220/230/380/400/690	AC220/230/380/400/690	AC220/230/380/400/690	AC220/230/380/400/690	AC220/230/380/400/690	AC220/230/380/400/690
Current(A) (AC230V)	0.2	0.2	0.4	0.4	0.5	0.5	1	1	1.2	1.2	1.5	1.5
Suction Voltage(AC) (AC230V)	184V	188V	188V	188V	189V	189V	186V	186V	185V	185V	187V	187V
Release Voltage(AC) (AC230V)	135V	136V	150V	150	150	150	145V	150V	145V	145V	145V	145V
Insulation Class	F	F	F	F	F	F	F	F	F	F	F	F
Max. Speed (RPM)	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Moment of Inertia of Rotation Parts J (Kg.m ²)	5.9X10 ⁻⁴	5.9X10 ⁻⁵	2X10 ⁻⁴	4X10 ⁻⁴	4X10 ⁻⁴	4X10 ⁻⁴	6.3X10 ⁻⁴	12.6X10 ⁻⁴	4X10 ⁻⁴	4X10 ⁻⁴	2.9X10 ⁻³	2.9X10 ⁻³

* SB0711/13/15/17/19 are equipped with two brake pads.



Dimensions

Type	07	08	10	11	12	13	14	15	16	17	18	19
b	112	112	143	143	165	165	180	180	209	209	238	238
d1	20	20	24	24	40	40	35	35	40	40	50	50
d2	42	42	44	44	52	52	60	60	70	70	77	77
d3	90	90	112	112	132	132	145	145	170	170	196	196
d4	102	102	130	130	150	150	165	165	190	190	217	217
d5	M5x16L	M5x16L	M6x18L	M6x20L	M6x25L	M6x25L	M8x22L	M8x25L	M8x25L	M8x25L	M8x25L	M8x25L
I1	8	8	9	11.1	16	16	11	11	12.1	13.1	13.1	13.1
d6	12.7	12.7	15	15	15	15	17	17	17	17	22	22
H1	55	55	69.2	81.2	72	88	86.3	102.3	105	118.7	128	146
H2	6.3	6.3	9.3	9.4	10.9	10.9	11.4	8	14.3	13.1	13.1	13.1
H3	20	20	20	20	25	25	30	30	30	30	35	35
H4	66.5	66.5	67.3	84	80	96	91.2	104.8	107	121.6	136	154
H5	28.7	28.7	70	50.2	27.5	43.5	44.1	57.7	53.1	67.7	71.4	89.4
H6	118	118	142	142	165	165	201	201	250	250	278	278
H7	60	60	76	76	89	89	97	97	111	111	128	128
Weight (kg)	2.8	2.8	3.9	4.6	6.3	8	8.7	10	14.5	16	19.5	22
d	10/11/12/14/15	10/11/12/14/15	11/12/14/15/20	11/12/14/15/20	11/12/14/15/20	11/12/14/15/20	20/25/30/31	20/25/30/31	25/30/35/38	25/30/35/38	30/35/38/40/45	30/35/38/40/45

Unit: mm

SB08 Electromagnetic Spring-Spplied Brake

Basic Performance Range

Design Type: An electromagnetic spring-applied safety brake that can be directly installed on the end cover of a motor

Standard Nominal Voltage: DC12/24V/48V/96V/130V/190V/220V

Protection Class: IP00

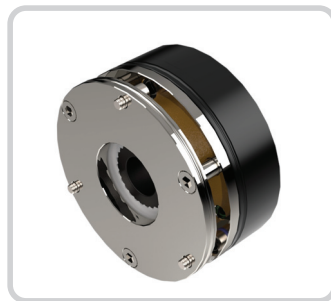
Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Brake Torque: 2~80Nm

Options: Hand-Release/Protection Class/Braking Torque

Remarks: Refer to the table below for more details.



SB10 AC Electromagnetic Spring-Spplied Brake

Basic Performance Range

Design Type: An AC electromagnetic spring-applied safety brake that can replace the motor's end cover to reduce space.

Standard Nominal Voltage: 230/400VAC

Protection Class: IP00

Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Brake Torque: 2~40Nm

Options:

Remarks: Refer to the table below for more details.

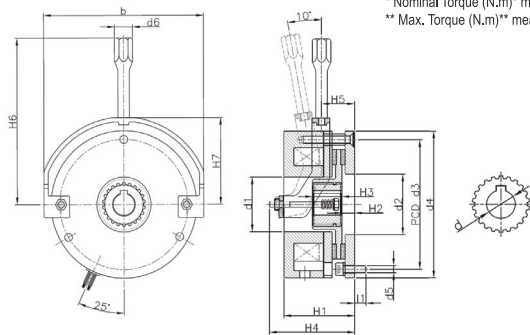


■ Performance

Type	05	06	08	10	12	14	16
Nominal Torque (N.m)*	2	4	8	16	32	60	80
Max. Torque (N.m)**	4	6	12	23	46	95	124
Nominal Voltage (DC-V)	DC96	DC96	DC96	DC96	DC96	DC96	DC96
Brake Consumption Power (W)	14	20	25	31	40	50	90
Insulation Class	F	F	F	F	F	F	F
Max. Speed (RPM)	3000	3000	3000	3000	3000	3000	3000
Moment of Inertia of Rotation Parts (J·kg.m ²)	21X10 ⁻⁴	1.5X10 ⁻⁴	6.1X10 ⁻⁴	2X10 ⁻⁴	4.5X10 ⁻⁴	6.3X10 ⁻⁴	1.5X10 ⁻³
Suction Time of Amature Plate (s)	0.030	0.045	0.057	0.076	0.115	0.210	0.220
Release Time of Amature Plate (s)	0.045	0.025	0.029	0.035	0.045	0.05	0.071
Weight (kg)	0.8	1.1	1.9	3.8	5.7	8.6	12

* Nominal Torque (N.m)* means the standard brake torque.

** Max. Torque (N.m)** means the holding brake torque.



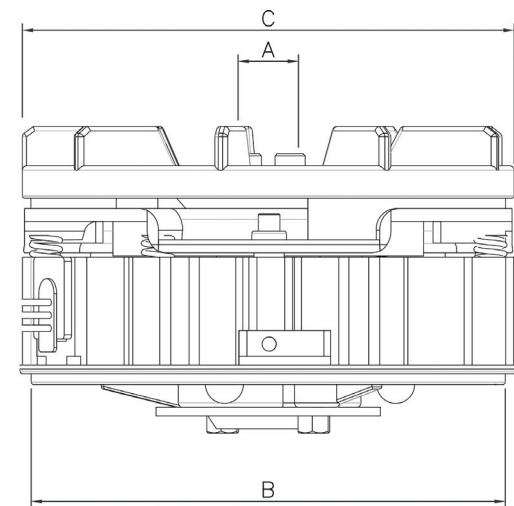
▲ Dimensions

Type	05	06	08	10	12	14	16
b	na	94	112	143	165	180	207
d1	28	31	38	44	52	60	70
d2	31	31	42	44	52	60	70
d3	66	72	90	112	132	145	170
d4	75	84	102	130	150	165	190
d5	3xM4	3xM4	3xM5	3xM6	3xM6	3xM8	3xM8
I1	6	8	8	16	14	14	16
d6	na	12.7	12.7	15	15	17	17
H1	35.9	43	49	58	69	75	86
H2	na	7	9	10	11	12	13
H3	15	18	20	20	25	30	30
H4	na	52	59	72	85	90	102
H5	na	21	23	35	39	43	48
H6	na	107	115	142	162	201	250
H7	na	52	60	76	89	97	111
d	8/10/11/12	10/11/12/14/15	11/12/14/15/20	11/12/14/15/20	15/17/20/25/27	20/25/30/31	25/30/35/38

Unit: mm

■ Performance

Type	63	71	80	90	100	112
Nominal Torque (N.m)	2	4	8	16	24	40
Nominal Voltage (AC)	AC230/400	AC230/400	AC230/400	AC230/400	AC230/400	AC230/400
Current(A)	0.11	0.35	0.35	0.5	1	1
Suction Voltage (AC)	163V	188V	188V	189V	186V	186V
Release Voltage (AC)	125V	150V	150V	150V	145V	145V
Insulation Class	F	F	F	F	F	F
Air Gap (MM)	Standard Value	0.2	0.2	0.2	0.25	0.3
	Limited Value	0.4	0.4	0.4	0.5	0.5
Max. Speed (RPM)	3000	3000	3000	3000	3000	3000
Weight (Kg)	1.8	2.9	3.2	5.8	8.3	8.6



▲ Dimensions

Type	63	71	80	90	100	112
A	14	14	18	22	22	27
B	109.9	125	140	160	180	190
C	118	125	136	162	180	180

※ Customization can be available according to customer's requirements.

SB12 Dual Electromagnetic Spring-Applied Brake

Basic Performance Range

Design Type: A dual electromagnetic spring-applied safety brake that can be directly installed on the end cover of a motor

Standard Nominal Voltage: DC12/24V/48V/96V/130V/190V/220V

Protection Class: IP00

Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Brake Torque: 4~144Nm

Options: Hand-Release/Protection Class/Braking Torque

Remarks: Refer to the table below for more details.

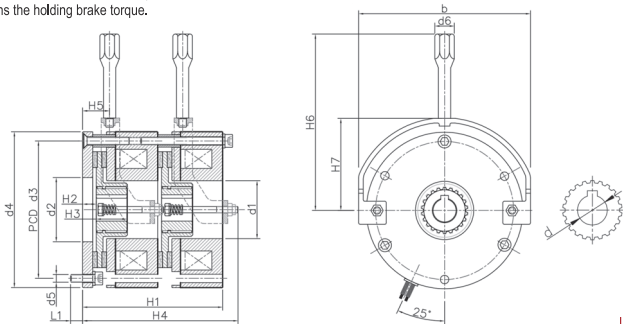


Performance

Type	05	06	08	10	12	14	16
Nominal Torque (N.m)*	4	7	14	29	57	108	144
Max. Torque (N.m)**	7	11	21	42	83	171	225
Nominal Voltage (DC-V)	DC96	DC96	DC96	DC96	DC96	DC96	DC96
Brake Consumption Power (W)	25.2	36	45	55.8	72	90	162
Insulation Class	F	F	F	F	F	F	F
Max. Speed (RPM)	3000	3000	3000	3000	3000	3000	3000
Moment of Inertia of Rotation Parts (J·kg·m ²)	4.2X10 ⁻⁶	3X10 ⁻⁶	1.22X10 ⁻⁴	4X10 ⁻⁴	9X10 ⁻⁴	1.26X10 ⁻³	3X10 ⁻³
Suction Time of Amature Plate (s)	0.030	0.045	0.057	0.076	0.115	0.210	0.220
Release Time of Amature Plate (s)	0.045	0.025	0.029	0.035	0.045	0.05	0.071
Weight (kg)	1.6	2.2	3.8	7.6	11.4	17.2	24

* Nominal Torque (N.m)* means the standard brake torque.

** Max. Torque (N.m)** means the holding brake torque.



Unit: mm

Dimensions

Type	05	06	08	10	12	14	16
b	/	94	112	143	165	180	207
d1	28	31	38	44	52	60	70
d2	31	31	42	44	52	60	70
d3	66	72	90	112	132	145	170
d4	75	84	102	130	150	165	190
d5	3xM4	3xM4	3xM5	3xM6	3xM6	3xM8	3xM8
L1	6	9.6	8	12	14	14	16
d6	/	12.7	12.7	15	15	17	17
H1	67.2	80.5	91.5	108.6	128.6	140.6	160.6
H2	/	7.5	9	10	11	12	13
H3	15	18	20	20	25	30	30
H4	71.8	86.1	98	116	138	150	172
H5	/	20.6	23	35	39	43	48
H6	/	107	115	142	162	201	250
H7	/	52	60	76	89	97	111
d	8/10/11/12	10/11/12/14/15	11/12/14/15/20	11/12/14/15/20	15/17/20/25	20/25/30	25/30/35/38

SB17 Full-Sealed Electromagnetic Spring-Applied Brake

Basic Performance Range

Design Type: An electromagnetic spring-applied safety brake that is full-sealed

Standard Nominal Voltage: DC12V/24V/48V/96V/130V/190V/220V

Protection Class: IP66

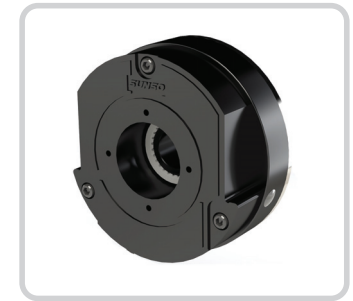
Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Brake Torque: 4~150Nm

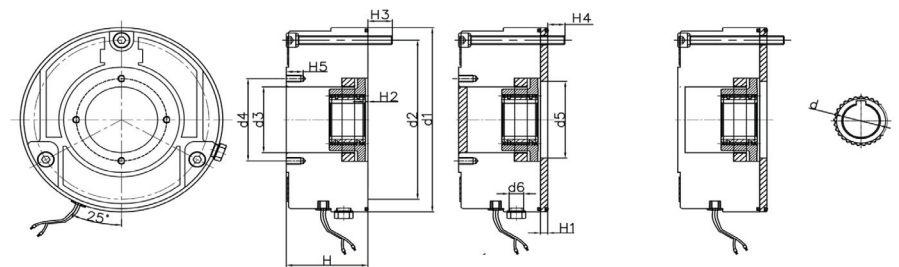
Options: Base plate/Water-proof cover

Remarks: Refer to the table below for more details.



Performance

Type	SB1706	SB1708	SB1710	SB1712	SB1714	SB1716	SB1718
Nominal Torque (N.m)*	4	8	16	32	60	80	150
Max. Torque (N.m)**	6	12	23	46	150	200	370
Nominal Voltage (DC-V)	96	96	96	96	96	96	96
Brake Consumption Power (W)	20	25	31	40	50	55	85
Insulation Class	F	F	F	F	F	F	F
Max. Speed (RPM)	3000	3000	3000	3000	3000	3000	2000
Moment of Inertia of Rotation Parts (J·kg·m ²)	1.5X10 ⁻⁵	6.1X10 ⁻⁵	2X10 ⁻⁴	4.5X10 ⁻⁴	6.3X10 ⁻⁴	1.5X10 ⁻³	2.9X10 ⁻³
Suction Time of Amature Plate (s)	0.045	0.057	0.076	0.115	0.21	0.22	0.27
Release Time of Amature Plate (s)	0.025	0.029	0.035	0.045	0.05	0.071	0.033
Weight (kg)	1.4	2.3	4.5	6.5	8.6	12.6	19



SB1714/SB1716/SB1718
(Water-proof cover and base plate can be optional)
Reserved holes of both air gap and encoder are included.

SB1706/SB1708/SB1710/SB1712
(Base plate can be optional)

Dimensions

Type	SB1706	SB1708	SB1710	SB1712	SB1714	SB1716	SB1718
H	39	43	51.2	57.2	67.1	73.1	83.1
H1	3.5	4.5	4.5	5	6	6	6
H2	1	1	2	2	2	2.25	3
H3	5.3	7.8	10.7	9.1	15.3	14.2	15.3
H4	6.8	7.3	10.2	9.1	14.3	13.2	19.3
H5	-	-	-	-	12	12	16
d1H7	89	106	130	148	168	200	226
d2	72	90	112	132	145	170	196
d3H8	24	322	42	52	60	68	75
d4	-	-	-	-	75-4-M6	85-4-M6	95-4-M8
d5	35	42	44	55	70	75	95
d6	-	-	-	-	12	12	12
d7	89	106	130	148	168	200	226
dH7	10/11/12/14/15	10/11/12/14/15/16/17/18/19/20	11/12/14/15/20	15/17/20/25	20/25/30	25/30/35/38	30/35/38/40/45

Unit: mm

SB19 Slim Electromagnetic Spring-Applied Brake

Basic Performance Range

Design Type: An electromagnetic spring-applied safety brake that can be directly installed on the end cover of a motor

Standard Nominal Voltage: DC12V/24V/48V/96V/130V/190V/220V

Protection Class: IP00

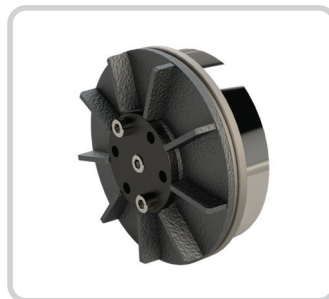
Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Brake Torque: 2~36Nm

Options: Frame materials/Protection class/Braking torque

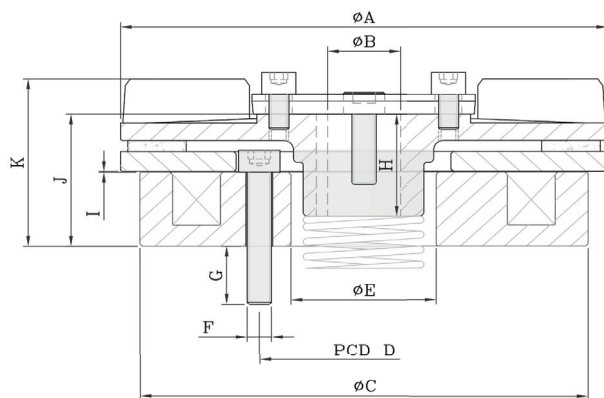
Remarks: Refer to the table below for more details.



Specifications (Performance & Dimensions)

Type	SB1906	SB1907	SB1908	SB1909	SB1910	SB1911	SB1912
Nominal Torque (N.M)	2	4	8	10	16	22	36
Nominal Voltage (DC-V)	99	99	99	99	99	99	99
Brake Consumption Power (W)*	-	-	-	-	-	-	-
Brake Air Gap(mm)	Standard Value	0.2	0.2	0.2	0.2	0.3	0.3
	Limited Value	0.7	0.7	0.7	0.7	0.8	0.8
Weight (Kg)	1	1.3	2.2	2.2	3.5	3.7	4.5

* Will be vary depending on the voltage.



▲ Dimensions

Unit: mm

Type	SB1906	SB1907	SB1908	SB1909	SB1910	SB1911	SB1912
A	100	118	136	136	162	186	220
B	15	17	20	20	25	30	35
C	92	104	126	126	154	154	180
D	43	93	116	116	139	139	165
E	30	30	45	45	60	60	60
F	M5	M5	M5	M5	M5	M5	M5
G	13.2	11.3	12.7	12.7	12.7	12.7	10
K	38	41.5	42	42	49.5	50	56.5

SB20 Front-Inserted Electromagnetic Spring-Applied Brake

Basic Performance Range

Design Type: An electromagnetic spring-applied safety brake that can be directly installed on the front cover of a motor

Standard Nominal Voltage: DC24V

Protection Class: IP66

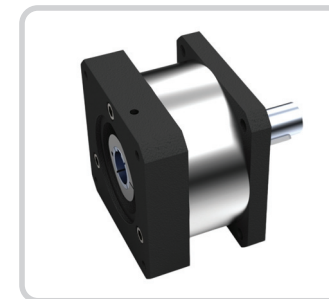
Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Brake Torque: 2.5~80Nm

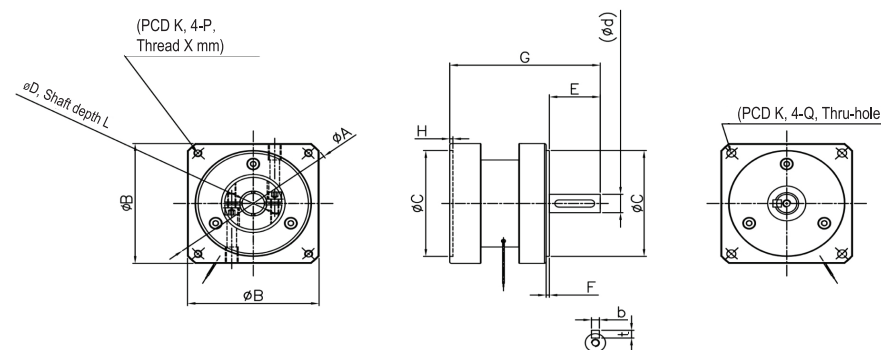
Options: Frame materials/Protection class

Remarks: Refer to the table below for more details.



■ Performance

Type	SB2005	SB2006	SB2010	SB2014	SB2016
Nominal Torque (N.m)	2.5	10	21	50	80
Nominal Voltage (DC-V)	24	24	24	24	24
Brake Consumption Power (W)	12.5	18	26	30	34



▲ Dimensions

Unit: mm

Type	SB2005	SB2006	SB2010	SB2014	SB2016
Shaft Diameter (φd)	14	19	22	35	32
Key Way (bxt)	5X5	6X6	8X7	10X8	12X8
A	80.5	115	166	230	250
B	60	80	130	176	196
C	50	70	110	113.4	180
D	14	19	22	35	32
E	30	37	50	75.5	58
F	3	3	3	3	5
G	91	114	142	207	205
H	3.5	3.5	6.5	5	5
L	32	40	45	75	79
K	70	90	145	200	215
P	M5	M6	M8	M12	M12
Q	5.5	6.5	9	13	13
X	15	18	16	18	18
Weight(Kg)	0.83	1.60	4.50	11.50	18.00

SB20B Front-Inserted Electromagnetic Spring-Applied Brake

Basic Performance Range

Design Type: An electromagnetic spring-applied safety brake that can be directly installed on the front cover of a motor

Standard Nominal Voltage: DC24/99/103/170/198V

Protection Class: IP00

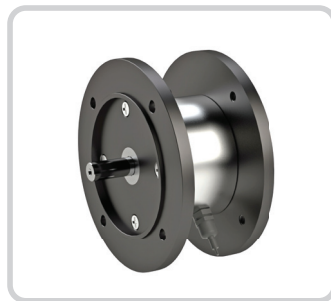
Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Brake Torque: 5~40Nm

Options:

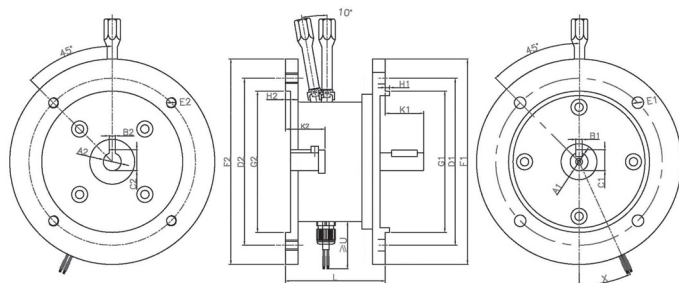
Remarks: Refer to the table below for more details.



■ Performance

Type	SB20B06-003	SB20B06-003A	SB20B08-003	SB20B08-003A	SB20B10-002	SB20B10-002A	SB20B12-002	SB20B12-002A
Nominal Torque (N.m)	5	5	10	10	20	20	40	40
Nominal Voltage (DC-V)	99	99	99	99	99	99	99	99
Brake Consumption Power (W)	22.66	22.66	26.8	26.8	41.2	41.2	34	34
Insulation Class	F	F	F	F	F	F	F	F
Max. Speed (RPM)	3000	3000	3000	3000	3000	3000	3000	3000
Moment of Inertia of Rotation Parts (J·kg·m ²)	1.5X10 ⁻⁵	1.5X10 ⁻⁵	6.1X10 ⁻⁴	6.1X10 ⁻⁴	2X10 ⁻⁴	2X10 ⁻⁴	4.5X10 ⁻⁴	4.5X10 ⁻⁴
Weight (kg)	3.4	3.5	6.05	6.2	9.35	9.4	14.5	15

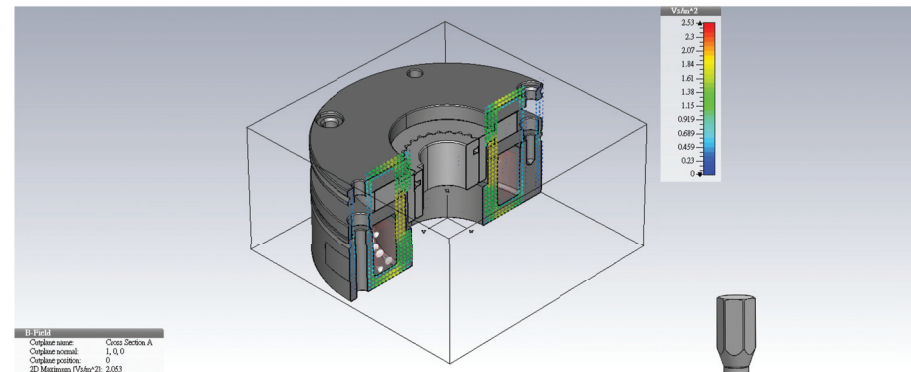
* SB20BXX-XXXX: Equipped with hand release device.



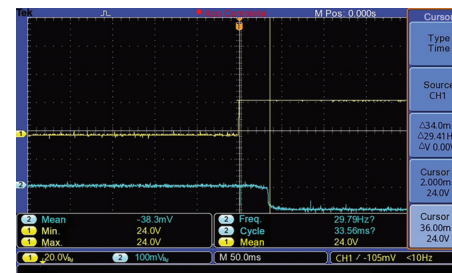
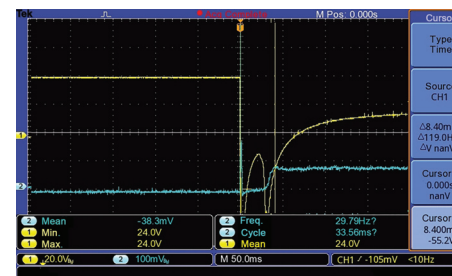
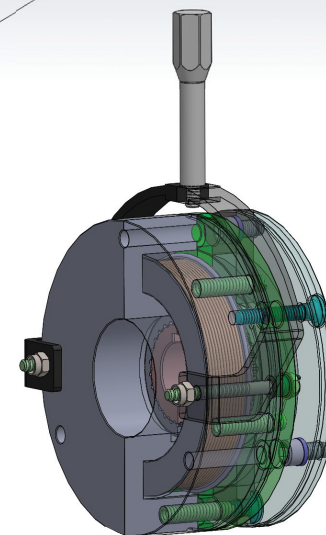
▲ Dimensions

Unit: mm

Type	SB20B06-003	SB20B06-003A	SB20B08-003	SB20B08-003A	SB20B10-002	SB20B10-002A	SB20B12-002	SB20B12-002A
A1	14	14	19	19	24	24	28	228
B1	5	5	6	6	8	8	8	8
C1	16	16	21.5	21.5	27	27	31	31
D1	130	130	165	165	165	165	215	215
E1	± 9	± 9	± 11	± 11	± 11	± 11	± 13	± 13
F1	160	160	200	200	200	200	250	250
G1	110	110	130	130	130	130	180	180
H1	3.5	3.5	3.5	3.5	3.5	3.5	4	4
K1	30	30	40	40	50	50	60	60
A2	14	14	19	19	24	24	28	28
B2	5	5	6	6	8	8	8	8
C2	16.3	16.3	21.8	21.8	27.3	27.3	31.3	31.3
D2	130	130	165	165	165	165	215	215
E2	M8	M8	M10	M10	M10	M10	M12	M12
F2	160	160	200	200	200	200	250	250
G2	110	110	130	130	130	130	180	180
H2	4	4	4	4	4	4	4.5	4.5
K2	30.9	30.9	41	41	51	51	61	61
L	77.95	77.95	96	96	111.4	111.4	130	130
U	300	300	400	400	400	400	500	500
X	32°	32°	27°	27°	29°	29°	29°	29°



0-Field
 Coil wire: Cross Section A
 Coil wire: 1.0/0
 Coil wire: 0
 2D Measure (Polar): 2.053



Model | P-03


Frequency(Hz)	50HZ / 60HZ
Input Voltage	AC200-240V
Output Voltage	NONE
Output Voltage(Holding)	DC90-108V
Impact Voltage(Hi-Pot)	AC-1300V
Current(AMP)	1.2A
Braking Frequency	16 times/min.
Braking Time/Life Cycle	1 Million times above

Dimension(mm)	53,5x44x26,7
Mounting/Position(mm)	2- ϕ 4,5-PCD55
Wire connection	2 inputs & 2 outputs
Application for Motor Brake	Below 10HP brake
Features	Equipped w/ point-type relay
Terminals/Marks	2-yellow wires from input voltage 2-black wires to brake

Model | P-16B


Frequency(Hz)	50HZ / 60HZ
Input Voltage	AC0-240V
Output Voltage	NONE
Output Voltage(Holding)	DC0-108V
Impact Voltage(Hi-Pot)	AC-1000V
Current(AMP)(Diode BY-255)	1,6A
Braking Frequency	12 times/min.
Braking Time/Life Cycle	1 Million times above

Dimension(mm)	32,5x22x17
Mounting/Position(mm)	1- ϕ 3
Wire connection	2 inputs & 2 outputs
Application for Motor Brake	Below 3HP brake
Features	Fast brakinf needs to apply with DC-switching.
Terminals/Marks	2-yellow wires from input voltage 2-black wires to brake

Model | P-03+


Frequency(Hz)	50HZ / 60HZ
Input Voltage	AC200-240V
Output Voltage	NONE
Output Voltage(Holding)	DC90-108V
Impact Voltage(Hi-Pot)	AC-1300V
Current(AMP)	1,6A
Braking Frequency	20 times/min.
Braking Time/Life Cycle	1 Million times above

Dimension(mm)	62,5x50x26,7
Mounting/Position(mm)	2- ϕ 5-PCD55
Wire connection	2 inputs & 2 outputs
Application for Motor Brake	Below 40HP brake
Features	Equipped w/ point-type relay
Terminals/Marks	2-yellow wires from input voltage 2-black wires to brake

Model | P-18
(Electrical type)


Frequency(Hz)	50HZ / 60HZ
Input Voltage	AC 200-240V
Output Voltage	NONE
Output Voltage(Holding)	DC 90-108V
Impact Voltage(Hi-Pot)	AC-1600V/1 Sec.
Current(AMP)	1,2A
Braking Frequency	20 times/min.
Braking Time/Life Cycle	1 Million times above

Dimension(mm)	53,5x44x27,7
Mounting/Position(mm)	2-ϕ4,5-PCD55
Wire connection	2 inputs & 2 outputs
Application for Motor Brake	Below 3HP brake
Features	Electrical Type Rectifier
Terminals/Marks	2-yellow wires from input voltage 2-black wires to brake

Model | P-07


Frequency(Hz)	50HZ / 60HZ
Input Voltage	AC0-460V
Output Voltage	NONE
Output Voltage(Holding)	DC0-220V
Impact Voltage(Hi-Pot)	AC-1300V
Current(AMP)	1,6A
Braking Frequency	20 times/min.
Braking Time/Life Cycle	1 Million times above

Dimension(mm)	53x38x21,5
Mounting/Position(mm)	2- ϕ 4,2-PCD42
Wire connection	2-Input points, 2-Output points & 2 Switching Points
Application for Motor Brake	Below 60HP brake
Features	Fast braking needs to apply with DC switching
Terminals/Marks	~ AC Input-connection to commerial power. + - Output-connection to brake. ○---○ Connection to control circuit.

Model | P-23


Frequency(Hz)	50HZ / 60HZ
Input Voltage	AC0-240V
Output Voltage	NONE
Output Voltage(Holding)	DC0-216V
Impact Voltage(Hi-Pot)	AC-1300V
Current(AMP)(Diode BY-255)	1,6A
Braking Frequency	16 times/min.
Braking Time/Life Cycle	1 Million times above

Dimension(mm)	53x25,2x17,5
Mounting/Position(mm)	2-ϕ4,2-PCD43,8/46,4
Wire connection	2 inputs & 2 outputs
Application for Motor Brake	Below 15P brake
Features	Fast braking needs to apply with DC-side switching
Terminals/Marks	~ AC Input-connection to commerial power. + - Output-connection to brake.

Model | P-08


Frequency(Hz)	50HZ / 60HZ
Input Voltage	AC0-460V
Output Voltage	NONE
Output Voltage(Holding)	DC0-220V
Impact Voltage(Hi-Pot)	AC-1300V
Current(AMP)(Diode BY-255)	1,6A
Braking Frequency	16 times/min.
Braking Time/Life Cycle	1 Million times above

Dimension(mm)	53x25,2x17,5
Mounting/Position(mm)	2- ϕ 4-PCD43,8/46,4
Wire connection	2 inputs & 2 outputs
Application for Motor Brake	Below 15HP brake
Features	Fast braking needs to apply with DC switching
Terminals/Marks	~ AC Input-connection to commerial power. + - Output-connection to brake.

Model | P-25


Frequency(Hz)	50HZ / 60HZ
Input Voltage	AC0-240V
Output Voltage	DC0-243V
Output Voltage(Holding)	DC0-216V
Impact Voltage(Hi-Pot)	AC-1300V
Current(AMP)(Diode BY-255)	1,6A
Braking Frequency	20 times/min.
Braking Time/Life Cycle	1 Million times above

Dimension(mm)	53x38x21,5
Mounting/Position(mm)	2-ϕ4,2-PCD42
Wire connection	2-Input points, 2-Output points & 2 Switching Points
Application for Motor Brake	Below 100HP brake
Features	Fast starting, Inching operation and fast braking are needed to apply with DC switching.
Terminals/Marks	~ AC Input-connection to commerial power. + - Output-connection to brake. ○---○ Connection to control circuit.

Model | P-13


Frequency(Hz)	50HZ / 60HZ
Input Voltage	AC0-460V
Output Voltage(Started 0.5 Sec.)	DC0-440V
Output Voltage(Holding)	DC0-220V
Impact Voltage(Hi-Pot)	AC-1300V
Current(AMP)(Diode BY-255)	1,6A
Braking Frequency	20 times/min.
Braking Time/Life Cycle	1 Million times above

Dimension(mm)	53x38x21,5
Mounting/Position(mm)	2- ϕ 4,2-PCD42
Wire connection	2-Input points, 2-Output points & 2 Switching Points
Application for Motor Brake	Below 100HP brake
Features	Fast starting, Inching operation and fast braking are needed to apply with DC switching.
Terminals/Marks	~ AC Input-connection to commerial power. + - Output-connection to brake. ○---○ Connection to control circuit.

Model | P-26
(Electrical type)


Frequency(Hz)	50HZ / 60HZ
Input Voltage	AC220V-460V
Output Voltage	NONE
Output Voltage(Holding)	DC99-207V
Impact Voltage(Hi-Pot)	AC-1600V
Current(AMP)(Diode BY-255)	1,6A
Braking Frequency	20 times/min.
Braking Time/Life Cycle	1 Million times above

Dimension(mm)	53x38x21,5
Mounting/Position(mm)	2- ϕ 4,2-PCD42
Wire connection	2-Input points, 2-Output points & 2 Switching Points
Application for Motor Brake	Below 10HP brake
Features	Fast electrical braking rectifier
Terminals/Marks	~ AC Input-connection to commerial power. + - Output-connection to brake. ○---○ Connection to control circuit.

SC01 Electromagnetic Clutch (Standard Model)

Basic Performance Range

Design Type: An electromagnetic spring-applied clutch that can be directly installed on the shaft of motor

Standard Nominal Voltage: DC24V/48V/96V/130V/190V/220V

Protection Class: IP00

Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Static Brake Torque: 6~2000Nm

Options:

Remarks: Refer to the table below for more details.



■ Performance

Type	006	015	025	050	100	200	400	650	1000	2000
Dynamic Friction Torque (N.m)	5	10	20	40	80	160	320	520	800	1600
Static Friction Torque (N.m)	6	15	25	50	100	200	400	650	1000	2000
Power (W at 20°C)	11	15	20	25	35	45	60	80	100	135
Reaction Time (ms)	35	40	50	60	80	100	140	170	220	400
Max. Speed (r.p.m)	2000	2000	2000	2000	2000	2000	2000	1000	1000	1000

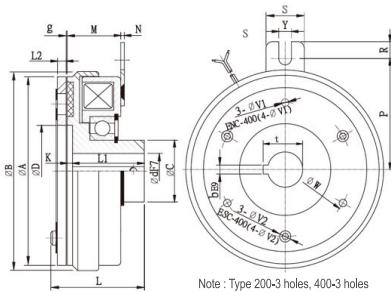


Fig. 1: Type SC01-006-400

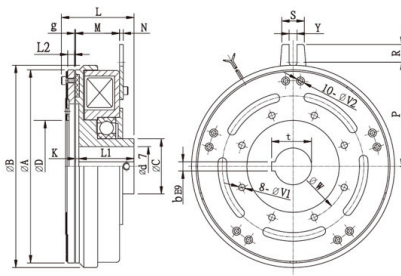


Fig. 2: Type SC01-650-2000

▲ SC01 Dimensions

Unit: mm

	Type	006	015	025	050	100	200	400	650	1000	2000
Radial Direction	A	70	85	107	131	160	216	260	315	380	440
	B	74.5	90	113	139	169	216	272	330	380	440
	C	20	25	35	40	50	60	75	90	100	100
	D	35	42	52	62	80	110	136	150	187	187
	d	12	15	20	25	30	40	50	60	70	70
	W	46	60	76	95	120	158	210	180	220	220
	V1	3.1	4.1	5.1	6.1	8.1	8.1	12.2	10.5	12.5	12.5
	V2	5	7	8.5	10	13	13	16	16	16	16
Axial Direction	K	2	3	3	3	N/A	N/A	6	N/A	N/A	N/A
	L	33	47.3	55	62.5	71.5	80.3	104.3	117.3	116.3	165.2
	L1	25	37	43	49	55	60	81	89.5	87	136
	L2	3.5	4	5	6	8	9	11	11	16	16
	M	24	28	30	34	38	44	48	71.5	59.5	61
	N	1.5	1.5	2	2	3	3	6	6	6	6
	P	41	47.5	61	71	94	124	146	170	199	228
	R	10	10	12	12	16	16	29	29	29	29
	S	15	15	16	16	24	24	36	36	36	36
	Y	7	7	7	7	9	9	13	13	13	13
	g ^{+0.1} / ₋₀	0.2	0.2	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.8
Weight(kg)		0.84	0.99	1.81	3.2	5.3	10.8	18.62	35	48.7	77
Keyway (b* ^t)		4*13.8	5*17.3	5*22.3	7*28.3	7*33.3	10*43.5	12*53.5	15*65.3	18*76.3	18*76.3

(Note): The yoke and turntable of this model have been combined with the bearings, so there is no need to consider the installation clearance and center. Suitable for use in general industrial machinery with higher precision.

SC02 Electromagnetic Clutch (Flange Model)

Basic Performance Range

Design Type: An electromagnetic spring-applied clutch that can be directly installed on the shaft of motor

Standard Nominal Voltage: DC12/24V/48V/96V/130V/190V/220V

Protection Class: IP00

Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Static Brake Torque: 6~400Nm

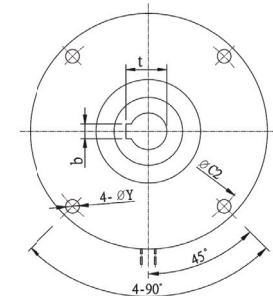
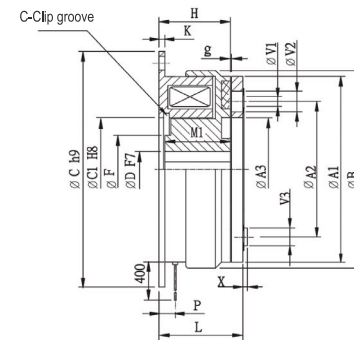
Options:

Remarks: Refer to the table below for more details.



■ Performance

Type	006	015	025	050	100	200	400
Dynamic Friction Torque (N.m)	5	10	20	40	80	160	320
Static Friction Torque (N.m)	6	15	25	50	100	200	400
Power (W at 20°C)	11	15	20	25	35	45	60
Reaction Time (ms)	35	40	50	60	80	100	140
Max. Speed (r.p.m)	2000	2000	2000	2000	2000	2000	2000



▲ SC02 Dimensions

Unit: mm

	Type	006	015	025	050	100	200	400
Radial Direction	A1	63	80	100	125	160	200	250
	A2	46	60	76	95	120	158	210
	A3	35	42	52	62	80	100	125
	B	67	85	106	133	169	211	264
	C	80	100	125	150	190	230	290
	C1	35	42	52	62	80	100	125
	C2	72	90	112	137	175	215	270
Axial Direction	D	12/15	15/20	20/25	25/30	30/40	40/50	50/60
	F	23	29	35	42	55	80	95
	V1	3-3.1	3-4.1	3-5.1	3-6.1	3-8.1	3-8.1	4-12.2
	V2	3-7	3-10	3-12	3-13	3-18	3-18	4-23
	V3	3-5	3-7	3-9	3-10	3-13	3-13	4-18
	Y	4.5	6	7	7	9.5	9.5	11.5
	H	24	27	30	33.5	38	44.5	51
	K	2	2.5	3	3.5	4	5	6
	L	28.2	31.2	35.2	39.8	46.5	54	62.5
	M	22	24	27	30	34	40	47
	P	5.5	6.5	7	8	10	11	12
	X	1.3	2.2	2.7	8	10.5	11	15.5
g ^{+0.05} / _{-0.05}		0.2	0.2	0.2	0.3	0.3	0.5	0.5
Weight(kg)		0.56	0.96	1.65	2.79	5.52	10.06	17.93
Keyway (b* ^t)		"4*13.8/5*17.3"	"5*17.3/5*22.3"	"5*22.3/7*28.3"	"7*28.3/7*33.3"	"7*33.3/10*43.5"	"10*43.5/12*53.5"	"12*53.5/15*65.0"

SC03 Electromagnetic Clutch (Flange Model)

Basic Performance Range

Design Type: An electromagnetic spring-applied clutch that can be directly installed on the shaft of motor

Standard Nominal Voltage: DC12/24V/48V/96V/130V/190V/220V

Protection Class: IP00

Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Static Brake Torque: 6~400Nm

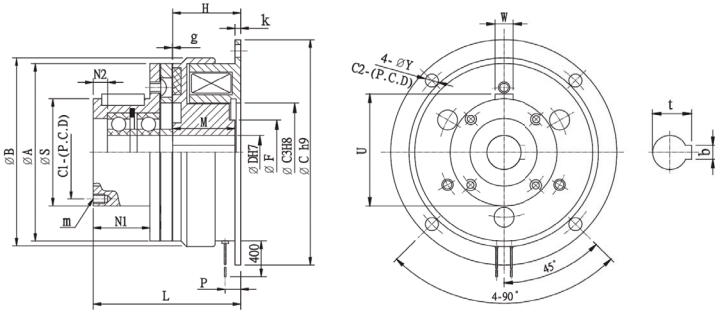
Options:

Remarks: Refer to the table below for more details.



■ Performance

Type	006	015	025	050	100	200	400
Dynamic Friction Torque (N.m)	5	10	20	40	80	160	320
Static Friction Torque (N.m)	6	15	25	50	100	200	400
Power (W at 20°C)	11	15	20	25	35	45	60
Reaction Time (ms)	35	40	50	60	80	100	140
Max. Speed (r.p.m)	2000	2000	2000	2000	2000	2000	2000



▲ SC03 Dimensions

Unit: mm

Type	006	015	025	050	100	200	400
A	63	80	100	125	160	200	250
B	67	85	106	133	169	211	264
C	80	100	125	150	190	230	290
C1	33	40	49	56	65	79	101.5
C2	72	90	112	137	175	215	270
C3	35	42	52	62	80	100	125
D	12	15	20	25	30	40	50
F	23	29	35	42	55	80	95
S	38	45	55	64	75	90	115
m	4-M4-Depth 6	4-M4-Depth 8	4-M5-Depth 8	4-M5-Depth 8	4-M5-Depth 8	4-M6-Depth12	4-M6-Depth12
Y	4.5	6	7	7	9.5	9.5	11.5
H	24	27	30	33.5	38	44.5	51
K	2	2.5	3	3.5	4	5	6
L	52	61.8	73	88.7	106.5	125.6	145
M	22	24	27	30	34	40	47
N1	20	25	30	40	50	60	70
N2	5	4	7	10	11	12	12
P	5.5	6.5	7	8	10	11	12
U	39.5	47	57	67	78	93.5	118
W	4	5	5	7	7	10	12
g	0.2 +0.05 -0.05	0.2 +0.05 -0.05	0.2 +0.05 -0.05	0.3 +0.05 -0.10	0.3 +0.05 -0.10	0.5 0 -0.10	0.5 0 -0.10
Weight(kg)	1.63	2.11	4.27	5.03	8.51	14.64	25.8
Keyway (b*1)	4*13.8	5*17.3	5*22.3	7*28.3	7*33.3	10*43.5	12*53.5

SC04 Electromagnetic Clutch (Flange Model)

Basic Performance Range

Design Type: An electromagnetic spring-applied clutch that can be directly installed on the shaft of motor

Standard Nominal Voltage: DC12/24V/48V/96V/130V/190V/220V

Protection Class: IP00

Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Static Brake Torque: 6~400Nm

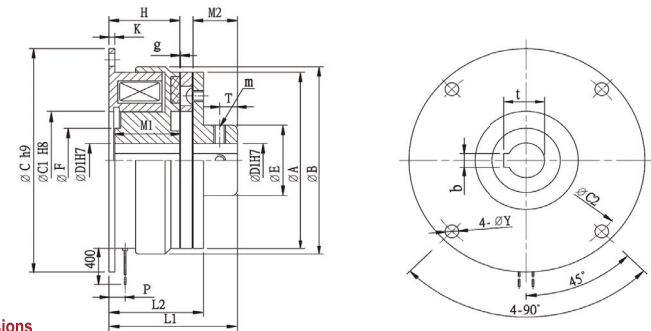
Options:

Remarks: Refer to the table below for more details.



■ Performance

Type	006	015	025	050	100	200	400
Dynamic Friction Torque (N.m)	5	10	20	40	80	160	320
Static Friction Torque (N.m)	6	15	25	50	100	200	400
Power (W at 20°C)	11	15	20	25	35	45	60
Reaction Time (ms)	35	40	50	60	80	100	140
Max. Speed (r.p.m)	2000	2000	2000	2000	2000	2000	2000



▲ SC04 Dimensions

Unit: mm

Type	006	015	025	050	100	200	400
A	63	80	100	125	160	200	250
B	67	85	106	133	169	211	264
C	80	100	125	150	190	230	290
C1	35	42	52	62	80	100	125
C2	72	90	112	137	175	215	270
D1	12/15	15/20	20/25	25/30	30/40	40/50	50/60
E	26	31	41	49	65	80	105
F	23	29	35	42	55	80	95
Y	4.5	6	7	7	9.5	9.5	11.5
m	2-M4	2-M5	2-M5	2-M6	2-M8	2-M8	2-M10
H	24	27	30	33.5	38	44.5	51
K	2	2.5	3	3.5	4	5	6
L1	43.5	51.8	61	70.7	85.5	100.6	118
L2	32	36.8	42	47.7	55.5	64.6	75
M1	22	24	27	30	34	40	47
M2	15	20	25	30	38	45	54
P	5.5	6.5	7	8	10	11	12
T	6	8	12	13	15	18	22
g	0.2 +0.05 -0.05	0.2 +0.05 -0.05	0.2 +0.05 -0.05	0.3 +0.05 -0.10	0.3 +0.05 -0.10	0.5 0 -0.10	0.5 0 -0.10
Weight(kg)	0.63	1.01	1.82	3.18	6.45	11.05	20.05
Keyway (b*1)	4*13.8/5*17.3	5*17.3/5*22.3	5*22.3/7*28.3	7*28.3/7*33.3	7*33.3/10*43.5	10*43.5/12*53.5	12*53.5/15*65.0

SCB01 Electromagnetic Clutch & Brake Unit (Dual Flange)

Basic Performance Range

Design Type: An electromagnetic spring-applied clutch-brake that can be directly installed on the shaft of motor

Standard Nominal Voltage: DC24V/48V/96V/130V/190V/220V

Protection Class: IP00

Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Static Brake Torque: 6~15Nm

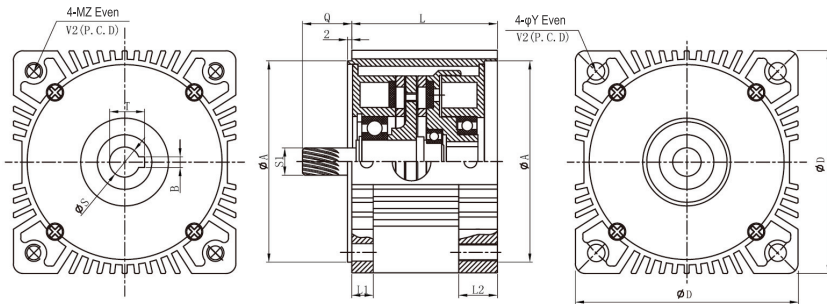
Options:

Remarks: Refer to the table below for more details.



■ Performance

Type	006	015
Dynamic Friction Torque (N.m)	5	10
Static Friction Torque (N.m)	6	15
Power (W at 20°C)	11	15
Load on shaft-end (kg)	32	48
Max. Speed (r.p.m)	2000	2000



▲ SCB01 Dimensions

Unit: mm

	Type	006	015
	A	83	94
Radial Direction	D	90	104
	S	11.8	14
	S1	11.7	12.7
	L1/L2	10/10	10/18
	V2	104	120
	Y	6.2	8.2
	Z	M6	M8
Axial Direction	L	60.5	68
	Q	18.25	22.5
	Matched with motor	5K	6K
	Weight (kg)	1.25	2.02
	Keyway (B*T)	4*11/ ψ 12.7*12 Helical gear	5*16.3/ ψ 12.7*12 Helical gear
	Keyway (b*t)	ϕ 11.7*12 Spur gear	5* ϕ 16.3

Notes: 1. The specifications in the above table are the same for both clutch and brake parts. The maximum values of speed and torque transmission are listed in the table. Appropriate consideration must be given to the design of the service life to avoid high wear and tear.
2. The load on the shaft-end is the value of force applied at the middle point of the shaft.

SCB02 Electromagnetic Clutch & Brake Unit (Dual Flange)

Basic Performance Range

Design Type: An electromagnetic spring-applied clutch & brake that can be directly installed on the shaft of motor

Standard Nominal Voltage: DC24V/48V/96V/130V/190V/220V

Protection Class: IP00

Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Static Brake Torque: 15~200Nm

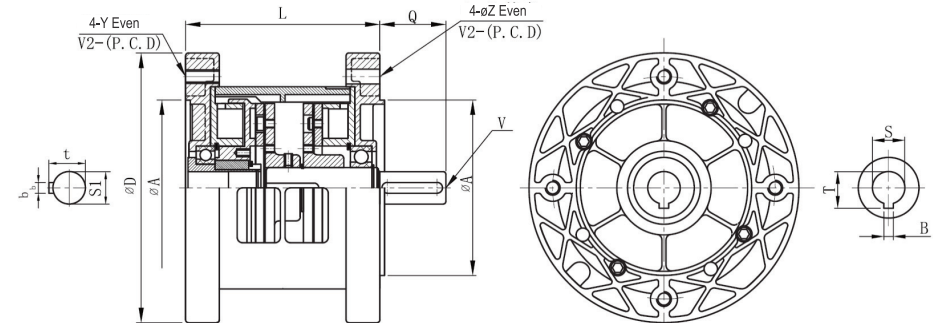
Options:

Remarks: Refer to the table below for more details.



■ Performance

Type	015	025	050	100	200
Dynamic Friction Torque (N.m)	10	20	40	80	160
Static Friction Torque (N.m)	15	25	50	100	200
Power (W at 20°C)	15	20	25	35	45
Load on shaft-end (kg)	48	70	90	130	180
Max. Speed (r.p.m)	2000	2000	2000	2000	2000



▲ SCB02 Dimensions

Unit: mm

	Type	015	025	050	100	200
	A	110	110/130	130	180	230
Radial Direction	D	160	163/200	200	250	300
	S	11 / 14	14 / 19	19 / 24	28	38
	S1	11 / 14	14 / 19	19 / 24	28	38
	V	M4-Depth15	M6-Depth15	M6-Depth15	M6-Depth15	M6-Depth15
	V2	130	130/165	165	215	265
	Y	M8	M8/ M10	M10	M12	M14
	Z	9	9 / 11	11	13	15
Axial Direction	L	120	140	144	181	215
	Q	23 / 30	30 / 40	39 / 49	63.5	80
	Matched with motor	4-1/4HP&4-1/2HP	4-1/2HP & 4-1HP	4-1HP & 4-2HP	4-3HP & 4-5HP	N/A
	Weight(kg)	4.36	6.82	9.65	17.95	32.4
	Keyway (B*T)	4*12.8 / 5*16.3	5*16.3 / 6*21.8	6*21.8 / 8*27.3	8*31.3	10*41.5
	Keyway (b*t)	4*12.8 / 5*16.3	5*16.3 / 6*21.8	6*21.8 / 8*27.3	8*31.3	10*41.5

Notes: 1. The specifications in the above table are the same for both clutch and brake parts. The maximum values of speed and torque transmission are listed in the table. Appropriate consideration must be given to the design of the service life to avoid high wear and tear.
2. The load on the shaft-end is the value of force applied at the middle point of the shaft.
3. Shaft diameter tolerance (S1): ϕ 11- ϕ 28 j6 , ϕ 38- ϕ 48: k6 , ϕ 55- ϕ 95: m6

SCB03 Electromagnetic Clutch & Brake Unit (Dual Flange)

Basic Performance Range

Design Type: An electromagnetic spring-applied clutch-brake that can be directly installed on the shaft of motor

Standard Nominal Voltage: DC24V/48V/96V/130V/190V/220V

Protection Class: IP00

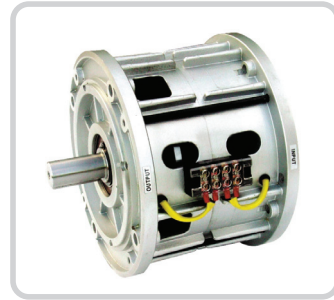
Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Static Brake Torque: 15~50Nm

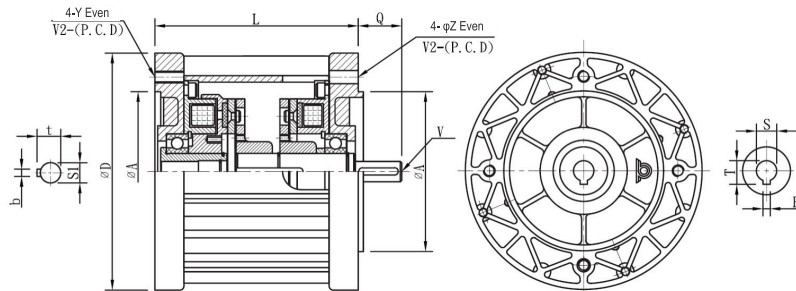
Options:

Remarks: Refer to the table below for more details.



■ Performance

Type	015	025	050
Dynamic Friction Torque (N.m)	10	20	40
Static Friction Torque (N.m)	15	25	50
Power (W at 20°C)	15	20	25
Load on shaft-end (kg)	48	70	90
Max. Speed (r.p.m)	2000	2000	2000



▲ SCB03 Dimensions

Unit: mm

Radial Direction	Type	015	025	050
	A	110	110/130	130
	D	160	163/200	200
	S	11 / 14	14 / 19	19 / 24
	S1	11 / 14	14 / 19	19 / 24
	V	M4-Depth 15	M6-Depth 15	M6-Depth 15
	V2	130	130/165	165
	Y	M8	M8 / M10	M10
	Z	9	9 / 11	11
Axial Direction	L	120	140	164
	Q	23 / 30	30 / 40	39 / 49
	Matched with motor	4-1/4HP&4-1/2HP	4-1/2HP & 4-1HP	4-1HP & 4-2HP
	Weight (kg)	4.39	7.35	10.7
	Keyway (B*T)	4*12.8 / 5*16.3	5*16.3 / 6*21.8	6*21.8 / 8*27.3
	Keyway (b*t)	4*12.8 / 5*16.3	5*16.3 / 6*21.8	6*21.8 / 8*27.3

Notes: 1. The specifications in the above table are the same for both clutch and brake parts. The maximum values of speed and torque transmission are listed in the table.
Appropriate consideration must be given to the design of the service life to avoid high wear and tear.
2. The load on the shaft-end is the value of force applied at the middle point of the shaft.
3. Shaft diameter tolerance (S1): ø11-ø28 j6 , ø38-ø48: k6 , ø55-ø95: m6

SCB04 Electromagnetic Clutch & Brake Unit (Single Flange)

Basic Performance Range

Design Type: An electromagnetic spring-applied clutch-brake that can be directly installed on the shaft of motor

Standard Nominal Voltage: DC24V/48V/96V/130V/190V/220V

Protection Class: IP00

Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Static Brake Torque: 15~100Nm

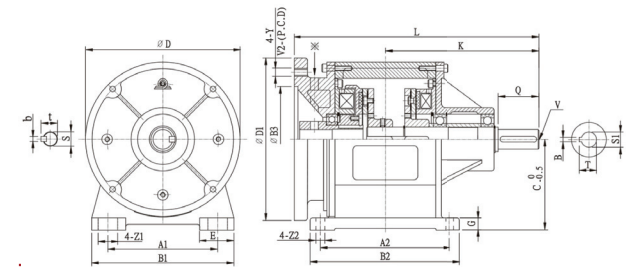
Options:

Remarks: Refer to the table below for more details.



■ Performance

Type	015	025	050	100
Dynamic Friction Torque (Nm)	10	20	40	80
Static Friction Torque (Nm)	15	25	50	100
Power(W at 20°C)	15	20	25	35
Load on shaft-end (kg)	48	70	90	130
Max. Speed(r.p.m)	2000	2000	2000	2000



▲ SCB04 Dimensions

Unit: mm

Radial Direction	Type	015	025	050	100
	B3	95/110	110/130	130	180
	D	127	153	190	230
	D1	140/160	160/200	200	250
	S	14	19	24	28
	S1	11/14	14/19	19/24	28
	V	M4-Depth 8	M6-Depth 11	M6-Depth 11	M6-Depth 11
	V2	115/130	130/165	165	215
	Y	M8	M8/M10	M10	M12
	Z1	15	18	24	28
	Z2	9	11	11	13
Axial Direction	A1	80	105	135	155
	A2	110	135	160	200
	B1	110	140	175	200
	B2	130	160	185	230
	C	80	90	112	132
	E	32	35	42	45
	G	12	15	15	18
	K	118	148	190	247
	L	211	245	302	383.5
	Q	30	40	50	60
	Matched with motor	4-1/4HP&4-1/2HP	4-1/2HP & 4-1HP	4-1HP & 4-2HP	4-3HP & 4-5HP
	Weight (kg)	4.39	8.12	14.32	25.22
	Keyway (B*T)	4*12.8 / 5*16.3	5*16.3 / 6*21.8	6*21.8 / 8*27.3	8*31.3
	Keyway (b*t)	5*16	5*21	7*27	7*31

Notes: 1. The specifications in the above table are the same for both clutch and brake parts. The maximum values of speed and torque transmission are listed in the table.
Appropriate consideration must be given to the design of the service life to avoid high wear and tear.
2. The load on the shaft-end is the value of force applied at the middle point of the shaft. Install a screw with Nylok onto the hole (※) and tighten it after installation.
3. Shaft diameter tolerance (S1): ø11-ø28 j6 , ø38-ø48: k6 , ø55-ø95: m6

SCB05 Electromagnetic Clutch & Brake Unit (String Axis)

Basic Performance Range

Design Type: An electromagnetic spring-applied clutch-brake that can be directly installed on the shaft of motor

Standard Nominal Voltage: DC24V/48V/96V/130V/190V/220V

Protection Class: IP00

Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Static Brake Torque: 6~650Nm

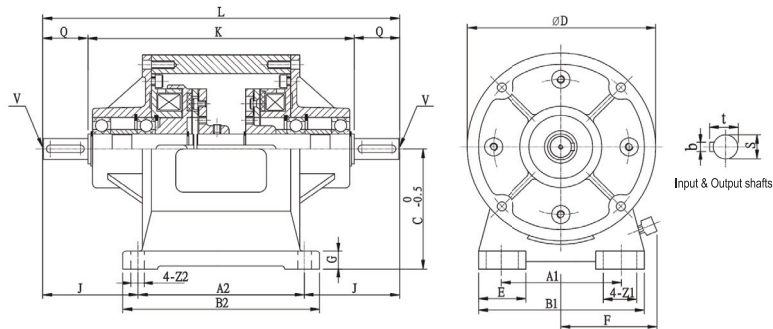
Options:

Remarks: Refer to the table below for more details.



■ Performance

Type	006	015	025	050	100	200	400	650
Dynamic Friction Torque (Nm)	5	10	20	40	80	160	320	600
Static Friction Torque (Nm)	6	15	25	50	100	200	400	650
Power(W at 20°C)	11	15	20	25	35	45	60	90
Load on shaft-end (kg)	32	48	70	90	130	180	260	N/A
Max. Speed(r.p.m)	2000	2000	2000	2000	2000	2000	2000	2000



▲ SCB05 Dimensions

Unit: mm

Radial Direction	Type	006	015	025	050	100	200	400	650
	D	100	125	150	190	230	290	350	350
Axial Direction	V	M4-Depth 10	M5-Depth 10	M6-Depth 12	M6-Depth 12	M6-Depth 15	M10-Depth 20	M10-Depth 20	M10-Depth 25
	S	11	14	19	24	28	38	42	60
Axial Direction	A1	65	80	105	135	155	195	250	250
	A2	90	110	135	160	200	240	300	300
Axial Direction	B1	90	110	140	175	200	240	300	300
	B2	105	130	160	185	230	270	340	340
Axial Direction	C	65	80	90	112	132	160	195	195
	E	27.5	32	35	42	45	47	50	50
Axial Direction	F	62	76	85	107	117	129	165	165
	G	10	12	15	15	18	20	23	23
Axial Direction	J	48.5	63	80.5	110	147	190	236	170
	K	137	176	216	280	374	460	552	452
Axial Direction	L	187	236	296	380	494	620	772	640
	Z1	18.5	22	22	24	28	27	34	34
Axial Direction	Z2	8	9	11	11	13	13	17	17
	Q	25	30	40	50	60	80	110	94
Axial Direction	Weight (kg)	2.1	4.4	7.86	13.61	25.71	58.1	90	133.2
	Keyway (b*l)	4*12.5	5*16	5*21.5	7*27	7*31	10*41.5	12*45.5	15*64

Notes: 1. The specifications in the above table are the same for both clutch and brake parts. The maximum values of speed and torque transmission are listed in the table.

Appropriate consideration must be given to the design of the service life to avoid high wear and tear.

2. The load on the shaft-end is the value of force applied at the middle point of the shaft.

3. Shaft diameter tolerance (S1): ø11-ø28 j6 , ø38-ø48: k6 , ø55-ø95: m6

SCB06 Electromagnetic Clutch & Brake Unit (Axis)

Basic Performance Range

Design Type: An electromagnetic spring-applied clutch-brake that can be directly installed on the shaft of motor

Standard Nominal Voltage: DC24V/48V/96V/130V/190V/220V

Protection Class: IP00

Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Static Brake Torque: 6~400Nm

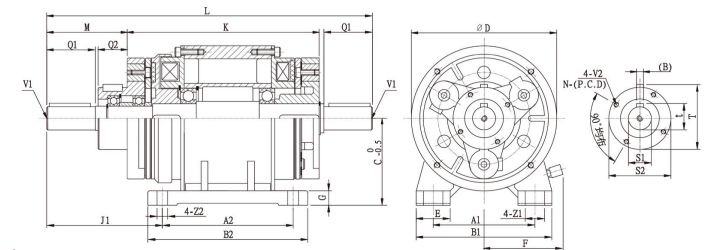
Options:

Remarks: Refer to the table below for more details.



■ Performance

Type	006	015	025	050	100	200	400	
Dynamic Friction Torque (N.m)	5	10	20	40	80	160	320	
Static Friction Torque (N.m)	6	15	25	50	100	200	400	
Power (W at 20°C)	11	15	20	25	35	45	60	
Load on shaft-end (kg)	Clutch	30	45	70	90	140	200	290
	Brake	14	25	45	70	100	180	260
Max. Speed (r.p.m)	2000	2000	2000	2000	2000	2000	2000	



▲ SCB06 Dimensions

Unit: mm

Radial Direction	Type	006	015	025	050	100	200	400
	D	80	100	125	150	190	230	290
Radial Direction	N	33	40	49	56	65	79	101.5
	V1	M4-Depth 10	M4-Depth 10	M6-Depth 10	M6-Depth 15	M6-Depth 15	M10-Depth 20	M10-Depth 20
Radial Direction	V2	4-M4Depth 4	4-M4Depth 6	4-M5Depth 8	4-M5Depth 8	4-M5Depth 8	4-M6Depth 12	4-M6Depth 12
	S1	11	14	19	24	28	38	42
Radial Direction	S2	38	45	55	64	75	90	115
	A1	52.5	65	80	105	135	155	195
Axial Direction	A2	75	90	110	135	160	200	240
	B1	80	90	110	140	175	200	240
Axial Direction	B2	95	105	130	165	185	230	270
	C	55	65	80	90	112	132	160
Axial Direction	E	27.5	27.5	32	35	42	45	47
	F	57	60	68	81	97	110	129
Axial Direction	G	10	10	12	15	15	18	20
	J1	66.5	79	97	119	150	190	237
Axial Direction	K	108	128	149	177/199	220/242	277/298.7	334.6
	L	183	218	267	325/336	399/410	507/518	633
Axial Direction	M	47	56.7	73	93/82.5	114/103	144/133.5	181.7
	Z1	13.5	13.5	15	20	24	28	28
Axial Direction	Z2	6.5	6.5	9	11	11	14	14
	Q1	25	30	40	50	60	80	110
Axial Direction	Q2	20	25	30	40/30	50/40	60/50	70
	Weight (kg)	1.5	3.5	8	12.5	25	45.5	85
Axial Direction	Keyway (B*T)	4*39.8	5*47	5*57.5	7*67.3	7*78.3	10*93.5	12*118.5
	Keyway (b*l)	4*12.8	5*16	5*21	7*27	7*31	10*41.5	12*45.5

Notes: 1. The specifications in the above table are the same for both clutch and brake parts. The maximum values of speed and torque transmission are listed in the table.

Appropriate consideration must be given to the design of the service life to avoid high wear and tear.

2. The load on the shaft-end is the value of force applied at the middle point of the shaft.

3. Shaft diameter tolerance (S1): ø11-ø28 j6 , ø38-ø48: k6 , ø55-ø95: m6

SCB07 Dual Electromagnetic Clutch & Brake Unit (Axis)

Basic Performance Range

Design Type: An electromagnetic spring-applied clutch-brake that can be directly installed on the shaft of motor

Standard Nominal Voltage: DC24V/48V/96V/130V/190V/220V

Protection Class: IP00

Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Static Brake Torque: 6~400Nm

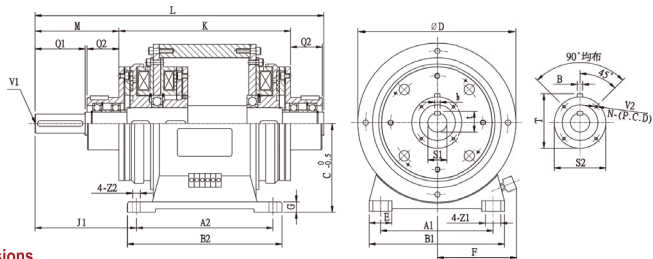
Options:

Remarks: Refer to the table below for more details.



■ Performance

Type	006	015	025	050	100	200	400
Dynamic Friction Torque (N.m)	5	10	20	40	80	160	320
Static Friction Torque (N.m)	6	15	25	50	100	200	400
Power (W at 20°C)	11	15	20	25	35	45	60
Load on shaft-end (kg)	Clutch	30	45	70	90	140	200
	Brake	14	25	45	70	100	180
Max. Speed (r.p.m)	2000	2000	2000	2000	2000	2000	2000



Unit: mm

▲ SCB07 Dimensions

Radial Direction	Type	006	015	025	050	100	200	400
	D	100	125	150	190	230	290	350
Axial Direction	N	33	40	49	56	65	79	101.5
	V1	M4-Depth 8	M4-Depth 8	M6-Depth 110	M6-Depth 15	M6-Depth 15	M10-Depth 20	M10-Depth 20
Axial Direction	V2	4-M4Depth 4	4-M4Depth 6	4-M5Depth 8	4-M5Depth 8	4-M5Depth 8	4-M6Depth 12	4-M6Depth 12
	S1	11	14	19	24	28	38	42
Axial Direction	S2	38	45	55	64	75	90	115
	A1	65	80	105	135	155	195	250
Axial Direction	A2	90	110	135	160	200	240	300
	B1	90	110	140	175	200	240	300
Axial Direction	B2	105	130	160	185	230	270	340
	C	65	80	90	112	132	160	195
Axial Direction	E	27.5	32	35	42	45	47	50
	F	60	68	81	97	110	129	165
Axial Direction	G	10	12	15	15	18	20	23
	J1	73	83	107.5	134.3	150	187.8	223
Axial Direction	K	142	162	204	240	273	328	376.6
	L	211	246	310	380	440	537	635
Axial Direction	M	47	57	73	94.4	113.3	144	184.7
	Z1	18.5	22	22	24	28	28	34
Axial Direction	Z2	8	9	11	11	13	13	17
	Q1	25	30	40	50	60	80	110
Axial Direction	Q2	20	25	30	40	50	60	70
	Weight (kg)	1.9	3.5	8	20.6	5	77.2	85
Axial Direction	Keyway (B"t)	4*39.8	5*47	5*57.5	7*67.3	10*93.5	12*118.5	
	Keyway (b"t)	4*12.8	5*16	5*21	7*27	7*31	10*41.5	12*45.5

Notes: 1. The specifications in the above table are the same for both clutch and brake parts. The maximum values of speed and torque transmission are listed in the table.

Appropriate consideration must be given to the design of the service life to avoid high wear and tear.

2. The load on the shaft-end is the value of force applied at the middle point of the shaft.

SCB08 Dual Electromagnetic Clutch Unit (Axis)

Basic Performance Range

Design Type: An electromagnetic spring-applied clutch that can be directly installed on the shaft of motor

Standard Nominal Voltage: DC24V/48V/96V/130V/190V/220V

Protection Class: IP00

Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Static Brake Torque: 6~400Nm

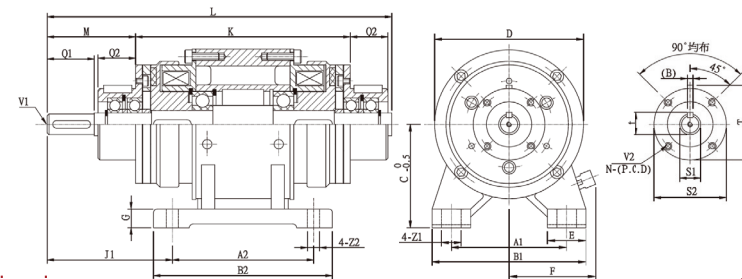
Options:

Remarks: Refer to the table below for more details.



■ Performance

Type	006	015	025	050	100	200	400
Dynamic Friction Torque (N.m)	5	10	20	40	80	160	320
Static Friction Torque (N.m)	6	15	25	50	100	200	400
Power (W at 20°C)	11	15	20	25	35	45	60
Load on shaft-end (kg)	14	25	45	70	105	180	260
Max. Speed (r.p.m)	2000	2000	2000	2000	2000	2000	2000



Unit: mm

▲ SCB08 Dimensions

Radial Direction	Type	006	015	025	050	100	200	400
	D	80	100	125	150	190	230	290
Axial Direction	N	33	40	49	56	65	79	101.5
	V1	M4-Depth 10	M4-Depth 10	M6-Depth 15	M6-Depth 15	M6-Depth 15	M10-Depth 20	M10-Depth 20
Axial Direction	V2	4-M4Depth 4	4-M4Depth 6	4-M5Depth 8	4-M5Depth 8	4-M5Depth 8	4-M6Depth 12	4-M6Depth 12
	S1	11	14	19	24	28	38	42
Axial Direction	S2	38	45	55	64	75	90	115
	A1	52.5	65	80	105	135	155	195
Axial Direction	A2	75	90	110	135	160	200	240
	B1	80	90	110	140	175	200	240
Axial Direction	B2	95	105	130	165	185	230	270
	C	55	65	80	90	112	132	160
Axial Direction	E	27.5	27.5	32	35	42	45	47
	F	57	60	68	81	97	110	129
Axial Direction	G	10	10	12	15	15	18	20
	J1	66.5	79	97	119.5	150	190	238
Axial Direction	K	114	135	158	187.5	232	292	350.6
	L	183	218	264	324	400	500	606
Axial Direction	M	47	56.5	73	93	114	144	182.7
	Z1	13.5	13.5	15	20	24	28	28
Axial Direction	Z2	6.5	6.5	9	11	11	14	14
	Q1	25	30	40	50	60	80	110
Axial Direction	Q2	20	25	30	40	50	60	70
	Weight (kg)	1.7	3.1	6.5	10.5		38.5	70
Axial Direction	Keyway (B"t)	4*39.8	5*47	5*57.5	7*67.3	7*78.3	10*93.5	12*118.5
	Keyway (b"t)	4*12.8	5*16	5*21	7*27	7*31	10*41.5	12*45.5

Notes: 1. The specifications in the above table are the same for both clutch and brake parts. The maximum values of speed and torque transmission are listed in the table.

Appropriate consideration must be given to the design of the service life to avoid high wear and tear.

2. The load on the shaft-end is the value of force applied at the middle point of the shaft.

3. Shaft diameter tolerance (S1): $\phi 11\text{--}\phi 28\text{ j6}$, $\phi 38\text{--}\phi 48\text{ k6}$, $\phi 55\text{--}\phi 95\text{ m6}$

SCB09 Electromagnetic Reversible Shaft Clutch Unit

Basic Performance Range

Design Type: An electromagnetic spring-applied clutch that can be directly installed on the reversible shaft of motor

Standard Nominal Voltage: DC24V/48V/96V/130V/190V/220V

Protection Class: IP00

Insulation Class: F

Operational Ambient Temperature: -20~40°C

Nominal Static Brake Torque: 15~100Nm

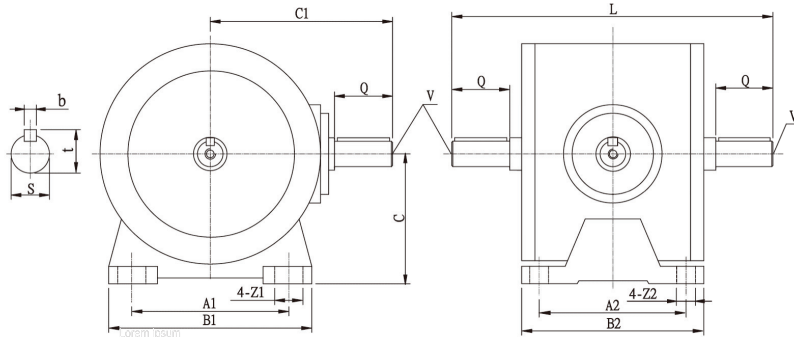
Options:

Remarks: Refer to the table below for more details.



Performance

Type	015	025	050	100
Dynamic Friction Torque (Nm)	10	20	40	80
Static Friction Torque (Nm)	15	25	50	100
Power(W at 20°C)	15	20	25	35
Load on shaft-end (kg)	25	45	70	100
Max. Speed(r.p.m)	500 (Input Shaft)	500 (Input Shaft)	500 (Input Shaft)	500 (Input Shaft)



SCB09 Dimensions

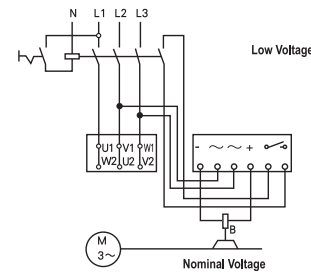
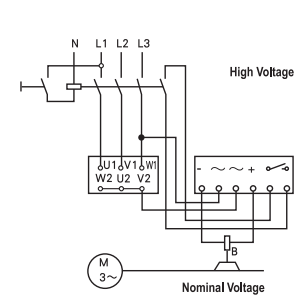
Unit: mm

Radial Direction	Type	015	025	050	100
	Q	30	40	50	60
Axial Direction	V	M6-Depth 15	M6-Depth 15	M6-Depth 15	M6-Depth 15
	A1	80	105	135	155
	A2	110	135	160	200
	B1	110	140	175	200
	B2	130	160	185	230
	C	80	90	112	132
	C1	106	134	157	204
	L	212	262	303	370
	S	14	18	22	28
	Z1	15	20	24	28
Weight(kg)	Z2	9	11	14	14
	Weight(kg)	7	12	21	35
Keyway(b*l)	Keyway(b*l)	5*16	5*20	7*25	7*31

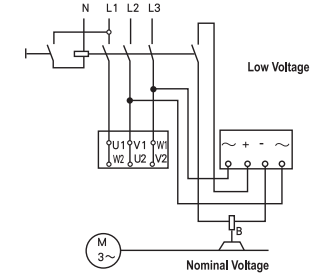
Notes: 1. The maximum values of speed and torque transmission are listed in the table. The load on the shaft-end is the value of force applied at the middle point of the shaft. Appropriate consideration must be given to the design of the service life to avoid high wear and tear.
2. The speed ratio of both input and output shafts is 2:1 and angle is at 90 degree. The brake can be installed onto the output shaft for positioning.
3. Shaft diameter tolerance (S1): ø11-ø28 j6, ø38-ø48: k6, ø55-ø95: m6

POWER SUPPLY DEVICE OF BRAKE | Wiring Diagrams of Rectifiers

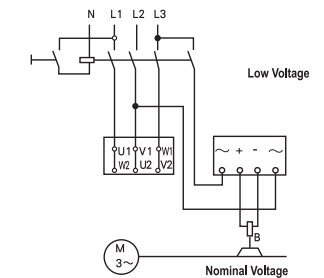
P-07/P-13/P-25(6P Rectifiers) wiring: Equipped with DC switch



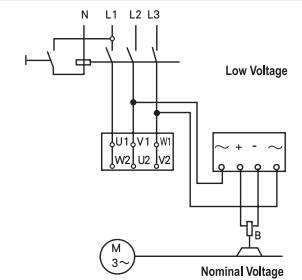
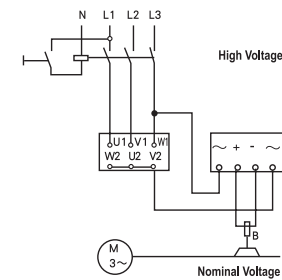
P-08/P-16B/P-23(4P Rectifiers) wiring: Equipped with DC switch



P-08/P-16B/P-23/P-25(4P Rectifiers) wiring: Equipped with AC switch



P-03/P-03+/P-08/P-16B/P-18 rectifier wiring: Equipped with 6-wire motor of synchronous starting AC switch.



P-03/P-03+/P-08/P-16B/P-18 rectifier wiring: Equipped with 9-wire motor of synchronous starting AC switch.

