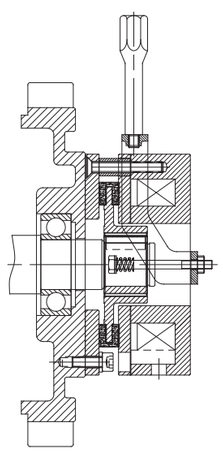
SB08 Spring-Applied Brake

Product Overview

SB08 Brake is a practical spring-applied safety brake. Its main purpose is to make the machine stop instantly. However, the selection & application of the SB08 brake needs to fit with the operation of the designed machine requirement, so as to guarantee normal operation of the brake.

Its major features are:

- Solid Structure
- Operation with Silent
- Simplified Installation & Maintenance easily
- The brake coil is covered and encircled by epoxy resin, while mechanical parts are also protected by heat-resistant coating materials so that can enhance the protection capacity of its inner structure.
- Heat Radiation Smoothly: The impurity generated from frictions during operation is blown away the fan easily.
- The brake can be installed onto the motor end-cap directly. (i.e. The motor end-cap is served as the brake surface which shall be composed of steel or cast iron coupled with precisely machining and smoothly in its surface.)

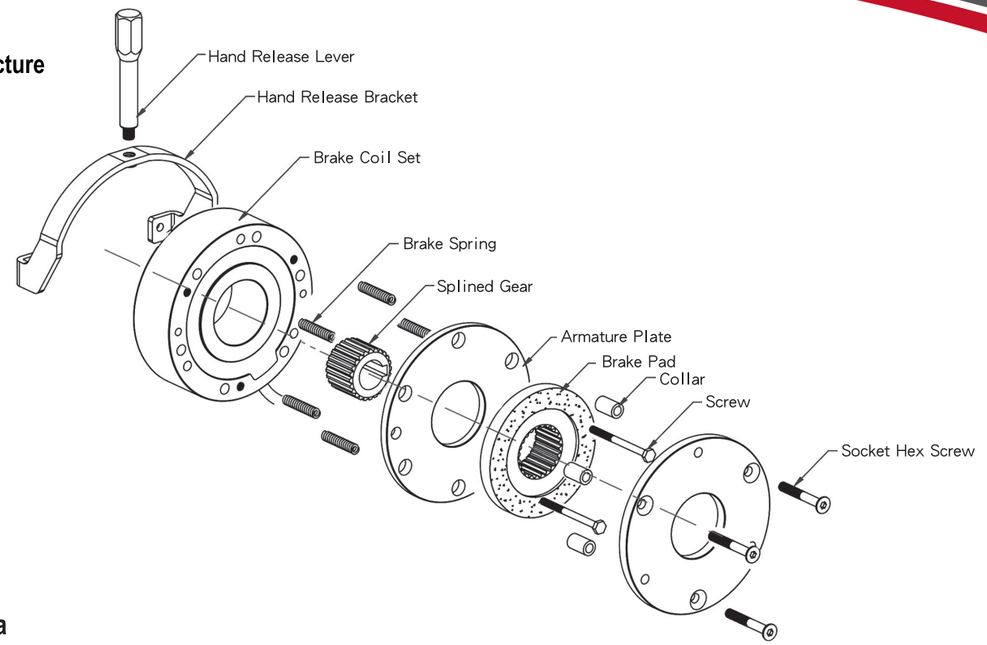


Brake Working Principle

The brake pad is installed onto the motor shaft through the splined gear, coupled with the flange fastened onto the motor end cap. Also, the brake pad is suppressed by the armature plate through the force of compressed brake springs so that the brake pad is hold between the armature plate and base plate by means of friction.

After installation, an air gap between the brake coil set and the armature plate is kept in specified value. When the power is connected to the brake coil, the force of the magnetic field is used for torque transmission. Then the armature plate is pulled in axial direction towards the brake coil set so that the brake pad is released and can be free rotation with the motor shaft.

Structure



Technincal Data

Model : SB08

Series	A5	A6	05	06	08	10	12	14	16
Rated Torque (N.M)	0.5	1	2	4	8	16	32	60	80
Max. Torque (Max-N.M)	1	2	4	6	12	23	46	95	125
Rated Voltage(DC-V)	DC96	DC96	DC96	DC96	DC96	DC96	DC96	DC96	DC96
Consumption Power (W)	7.6	8.3	14	20	25	31	40	50	55
Insulation Class	F	F	F	F	F	F	F	F	F
Max. Rotation Speed (RPM)	5000	5000	3000	3000	3000	3000	3000	3000	3000
Moment of Inertia of Rotation Parts (J-kg.m²)	3.8×10^{-6}	12×10^{-6}	21×10^{-6}	1.5×10^{-5}	6.1×10^{-5}	2×10^{-4}	4.5×10^{-4}	6.3×10^{-4}	1.5×10^{-3}
Suction Time of Amarture Plate (S)	0.025	0.030	0.030	0.045	0.057	0.076	0.115	0.210	0.220
Release Time of Amarture Plate (S)	0.035	0.045	0.045	0.025	0.029	0.035	0.045	0.050	0.071

Product Series Selection As Ordering

Model	Size Spec	Options	Brake Power	Brake Power
SB08	14	B Hand Release	0.0.6	C DC96V
SB08	A5 A6 05 06 08 10 12 14 16	A Standard B Hand Release C Hand Release & Dust-proof D Standard w/o Base Plate E Hand Release w/o Base Plate F Hand Release & Dust-proof w/o Base Plate	Customezation is available, Please contact with Sunso Industry Ltd.	A DC12V B DC24V C DC48V D DC96V E DC130V F DC190V G DC220V

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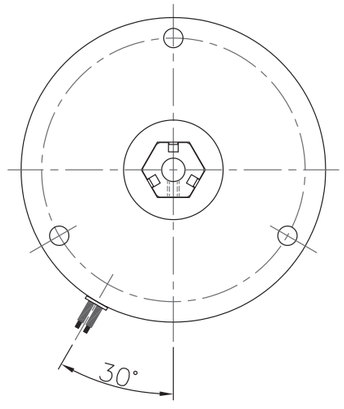
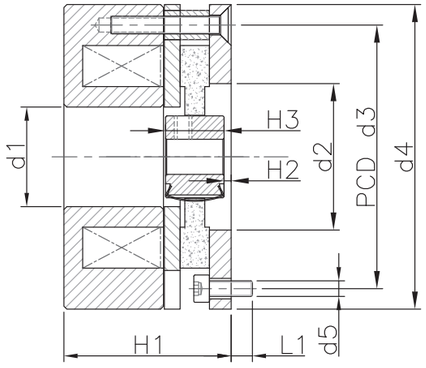
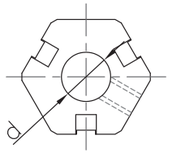
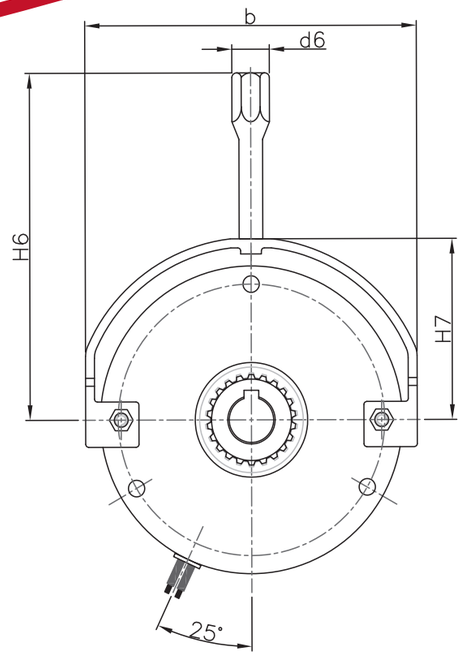
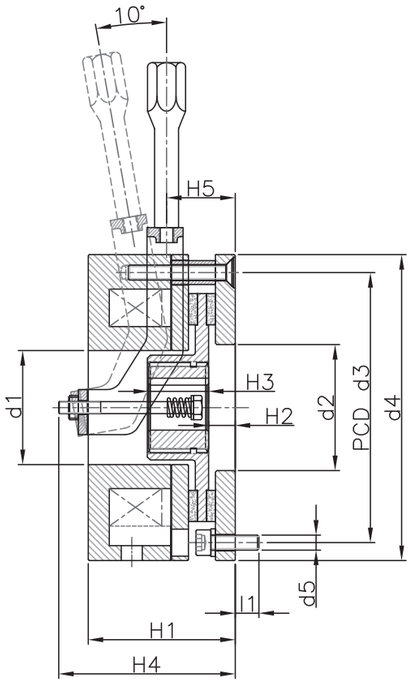
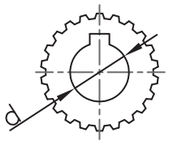












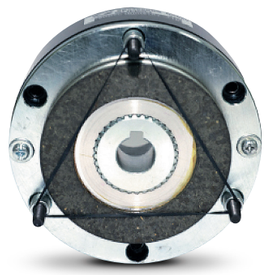
Customization can be available for the special specifications.

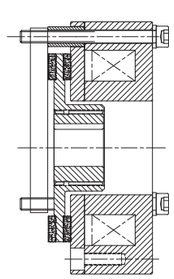
Dimensions

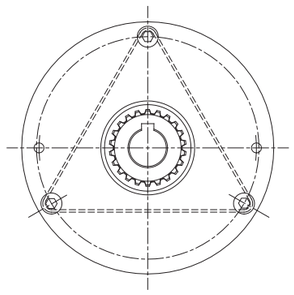
Model : SB08

Unit: mm

Series	A5	A6
d1	17	21
d2	25	30
d3	45	54
d4	52	62
d5	3xM3	3xM4
11	4	4
H1	28.5	28.5
H2	1.2	0.45
H3	10	11.5
Weight (Kg)	0.5	0.7







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Dimensions

Model : SB08

Unit: mm

Series	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
11	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	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
Weight (Kg)	0.8	1.1	1.9	3.8	5.7	8.6	12