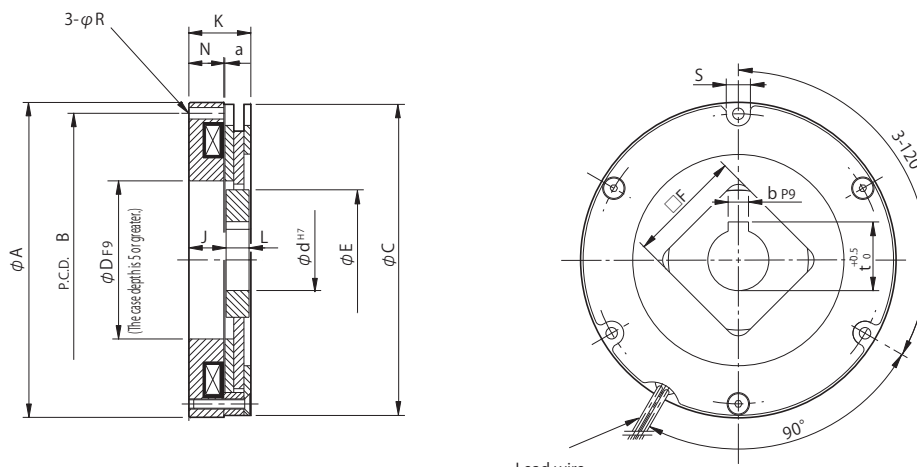


SPRING-ACTUATED BRAKES

BXR-10 - Datasheet

SQUARE HUB TYPE

■ Dimensions



Lead wire length: 400
 The lead wire extraction position for size 14 is 60°.

Unit [mm]

Size	Radial direction dimensions							Axial direction dimensions					Bore diameter			
	A	B	C	D	E	R	S	J	L	N	K	a	d	b	t	d max
06	83.5	76	82	47	42	4.5	9	17.0	7	14.7	25.0	0.10	20	6	22.5	25
08	93.5	85	92	49	42	4.5	10	19.0	7	15.7	27.0	0.10	20	6	22.5	25
10	123.5	115	122	62	55	4.5	9.5	14.6	9	13.7	24.3	0.10	24	8	27	28
12	137.5	130	136	65	62	4.5	12	15.4	9	12.5	25.0	0.15	24	8	27	30
14	167.5	158	166	80	74	5.5	12	16.0	9	12.0	25.0	0.15	28	8	31	38
16	185	175	184	100	86	5.5	12.5	21.3	11.5	19.4	32.8	0.20	28	8	31	45

■ Specifications

Model	Size	Static friction torque Ts [N·m]	Coil (at 20°C)				Heat resistance class	Max. rotation speed [min ⁻¹]	Rotating part moment of inertia J [kg·m ²]	Allowable braking energy rate Eba Δ [J]	Total braking energy Er [J]	Armature pull-in time ta [s]	Armature release time tar [s]	Backlash [°]	Mass [kg]
			Voltage [V]	Wattage [W]	Current [A]	Resistance [Ω]									
BXR-06-10-005	06	5	24	17.6	0.73	32.7	F	5000	2.35 × 10 ⁻⁵	500	2.0 × 10 ⁵	0.050	0.020	1.2	0.9
BXR-08-10-012	08	12	24	19.4	0.81	29.7	F	5000	3.45 × 10 ⁻⁵	800	2.0 × 10 ⁵	0.080	0.020	1.2	1.2
BXR-10-10-016	10	16	24	21.5	0.90	26.8	F	5000	1.12 × 10 ⁻⁴	1500	2.2 × 10 ⁶	0.110	0.050	0.9	1.3
BXR-12-10-030	12	30	24	23.7	0.99	24.3	F	5000	1.88 × 10 ⁻⁴	1500	2.5 × 10 ⁶	0.120	0.030	0.8	2.3
BXR-14-10-038	14	38	24	31.0	1.29	18.6	F	3600	4.22 × 10 ⁻⁴	1800	3.0 × 10 ⁶	0.120	0.030	0.5	3.0
BXR-16-10-055	16	55	24	19.0	0.79	30.3	F	3600	7.10 × 10 ⁻⁴	2000	3.0 × 10 ⁶	0.220	0.100	0.5	3.6

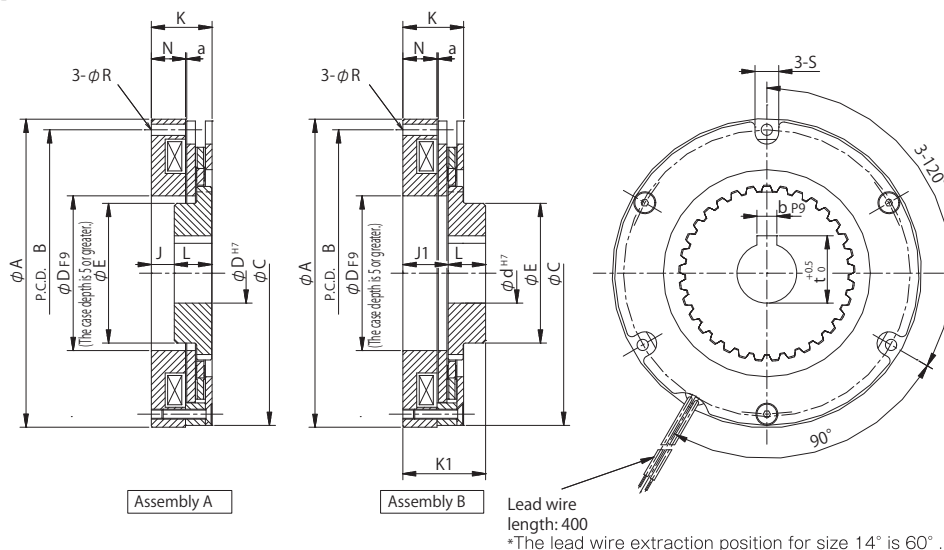
* The armature pull-in time and armature release time are taken during DC switching.
 * Backlash is the value between the rotor and rotor hub.

SPRING-ACTUATED BRAKES

BXR-20 - Datasheet

SPLINE HUB TYPE

■ Dimensions



Unit [mm]

Size	Radial direction dimensions							Axial direction dimensions							Bore diameter				
	A	B	C	D	E	R	S	J	J1	L	N	K	K1	a	d	b	t	d max	
06	83.5	76	82	47	36	4.5	9	10.5	18	12.5	14.7	25.0	30.5	0.10	20	6	22.5	25	
08	93.5	85	92	49	42	4.5	10	11.5	20	13.5	15.7	27.0	33.5	0.10	20	6	22.5	30	
10	123.5	115	122	62	56	4.5	9.5	9	18	15	13.7	24.3	33	0.10	24	8	27	40	
12	137.5	130	136	65	61	4.5	12	8.7	17.7	15	12.5	25.0	32.7	0.15	24	8	27	45	
14	167.5	158	166	80	75	5.5	12	7.2	17.2	16	12.0	25.0	33.2	0.15	28	8	31	55	
16	185	175	184	100	82	5.5	12.5	13.6	24.6	18	19.4	32.8	42.6	0.20	28	8	31	65	

■ Specifications

Model	Size	Static friction torque Ts [N·m]	Coil (at 20°C)				Heat resistance class	Max. rotation speed [min ⁻¹]	Rotating part moment of inertia J [kg·m ²]	Allowable braking energy rate Eba Δ [J]	Total braking energy Et [J]	Armature pull-in time ta [s]	Armature release time tar [s]	Backlash [°]	Mass [kg]
			Voltage [V]	Wattage [W]	Current [A]	Resistance [Ω]									
BXR-06-20-005	06	5	24	17.6	0.73	32.7	F	5000	3.43 × 10 ⁻⁵	500	2.0 × 10 ⁵	0.050	0.020	0.5	1.0
BXR-08-20-012	08	12	24	19.4	0.81	29.7	F	5000	6.75 × 10 ⁻⁵	800	2.0 × 10 ⁵	0.080	0.020	0.4	1.3
BXR-10-20-016	10	16	24	21.5	0.90	26.8	F	5000	2.32 × 10 ⁻⁴	1500	2.2 × 10 ⁶	0.110	0.050	0.3	1.5
BXR-12-20-030	12	30	24	23.7	0.99	24.3	F	5000	3.02 × 10 ⁻⁴	1500	2.5 × 10 ⁶	0.120	0.030	0.3	2.5
BXR-14-20-038	14	38	24	31.0	1.29	18.6	F	3600	9.41 × 10 ⁻⁴	1800	3.0 × 10 ⁶	0.120	0.030	0.2	3.4
BXR-16-20-055	16	55	24	19.0	0.79	30.3	F	3600	15.2 × 10 ⁻⁴	2000	3.0 × 10 ⁶	0.220	0.100	0.2	4.0

* The armature pull-in time and armature release time are taken during DC switching.

* Backlash is the value between the rotor and rotor hub.