

BXR-10 Safety brakes - Datasheet

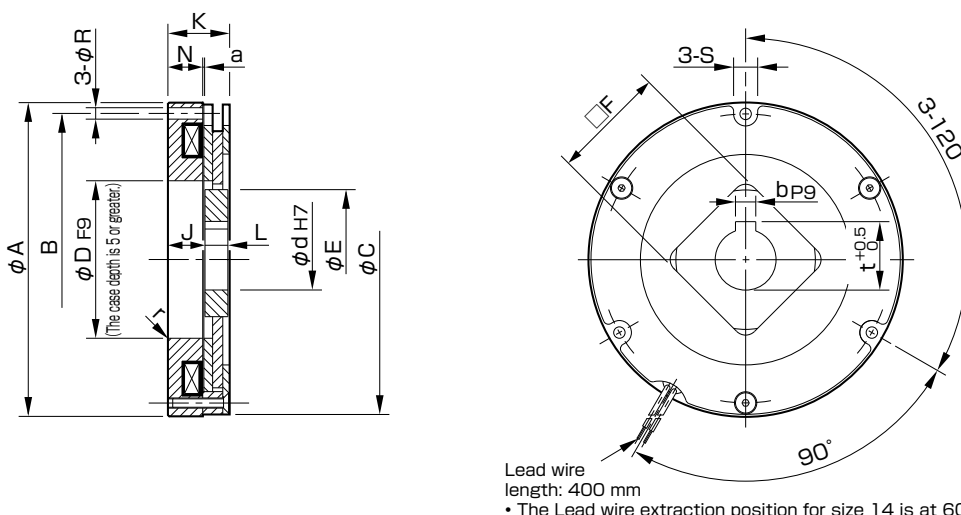
SQUARE ROTOR HUB

Specifications

Model	Size	Static friction torque T_s [N-m]	Coil [at 20 °C]				Heat resistance class	Lead wire		Max. rotation speed [min ⁻¹]	Rotating part moment of inertia J [kg-m ²]	Allowable braking energy rate $E_{ba\delta}$ [J]	Total braking energy E_T [J]	Armature pull-in time t_a [s]	Armature release time t_{ar} [s]	Backlash [°]	Mass [kg]
			Voltage [V]	Wattage [W]	Current [A]	Resistance [Ω]		UL style	Size								
BXR-06-10-005	06	5	24	17.6	0.73	32.7	F	UL1333	AWG20	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	UL1333	AWG20	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	UL1333	AWG20	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	UL1333	AWG20	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	UL1333	AWG20	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	UL1333	AWG20	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.

Dimensions

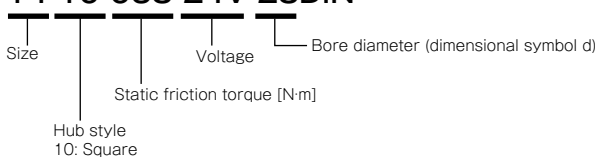


Size	Radial direction dimensions									Axial direction dimensions					Bore diameter			
	A	B	C	D	r	E	F	R	S	J	L	N	K	a	d	b	t	d max
06	83.5	76	82	47	R0.5	42	35	4.5	9	17.0	7	14.7	25.0	0.10	20	6	22.5	25
08	93.5	85	92	49	R0.5	42	35	4.5	10	19.0	7	15.7	27.0	0.10	20	6	22.5	25
10	123.5	115	122	62	R0.5	55	45	4.5	9.5	14.6	9	13.7	24.3	0.10	24	8	27	28
12	137.5	130	136	65	R1	62	50	4.5	12	15.4	9	12.5	25.0	0.15	24	8	27	30
14	167.5	158	166	80	R1	74	60	5.5	12	16.0	9	12.0	25.0	0.15	28	8	31	38
16	185	175	184	100	R1	86	65	5.5	12.5	21.3	11.5	19.4	32.8	0.20	28	8	31	45

Unit [mm]

How to Place an Order

BXR-14-10-038-24V-28DIN



• Further bore diameters possible on request.

BXR-20 Safety brakes - Datasheet

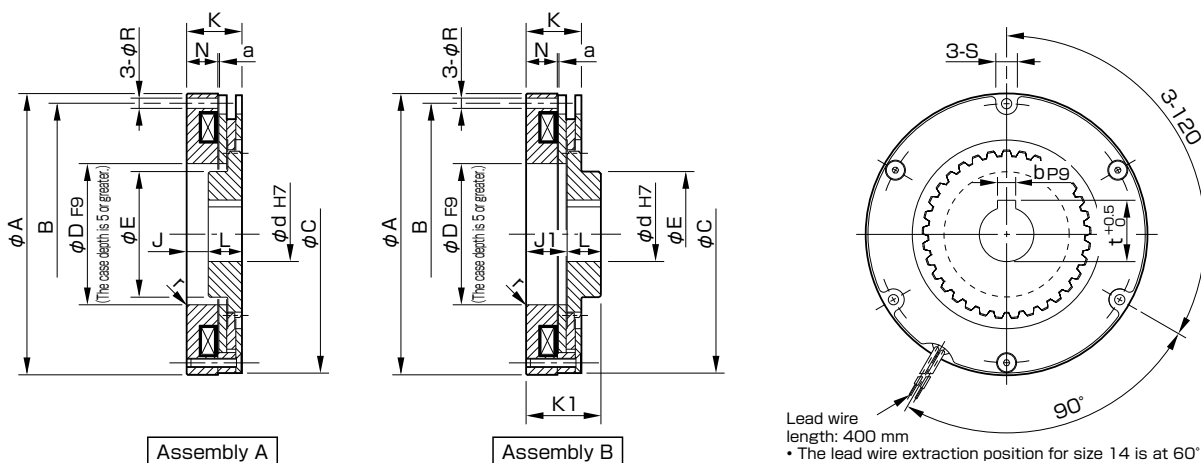
SPLINE ROTOR HUB

Specifications

Model	Size	Static friction torque T_s [N·m]	Coil [at 20 °C]				Heat resistance class	Lead wire		Max. rotation speed [min ⁻¹]	Rotating part moment of inertia J [kg·m ²]	Allowable braking energy rate $E_{ba\bar{z}}$ [J]	Total braking energy E_r [J]	Armature pull-in time t_a [s]	Armature release time t_{ar} [s]	Backlash [°]	Mass [kg]
			Voltage [V]	Wattage [W]	Current [A]	Resistance [Ω]		UL style	Size								
BXR-06-20-005	06	5	24	17.6	0.73	32.7	F	UL1333	AWG20	5000	3.39×10^{-5}	500	2.0×10^5	0.050	0.020	0.5	1.1
BXR-08-20-012	08	12	24	19.4	0.81	29.7	F	UL1333	AWG20	5000	7.56×10^{-5}	800	2.0×10^5	0.080	0.020	0.4	1.4
BXR-10-20-016	10	16	24	21.5	0.90	26.8	F	UL1333	AWG20	5000	3.02×10^{-4}	1500	2.2×10^6	0.110	0.050	0.3	1.6
BXR-12-20-030	12	30	24	23.7	0.99	24.3	F	UL1333	AWG20	5000	4.77×10^{-4}	1500	2.5×10^6	0.120	0.030	0.3	2.6
BXR-14-20-038	14	38	24	31.0	1.29	18.6	F	UL1333	AWG20	3600	11.3×10^{-4}	1800	3.0×10^6	0.120	0.030	0.2	3.5
BXR-16-20-055	16	55	24	19.0	0.79	30.3	F	UL1333	AWG20	3600	19.1×10^{-4}	2000	3.0×10^6	0.220	0.100	0.2	4.1

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

Dimensions



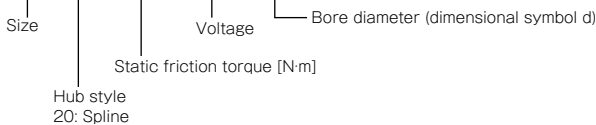
Lead wire length: 400 mm
 • The lead wire extraction position for size 14 is at 60°

Size	Radial direction dimensions								Axial direction dimensions							Bore diameter			
	A	B	C	D	r	E	R	S	J	J ₁	L	N	K	K ₁	a	d	b	t	d max
06	83.5	76	82	47	R0.5	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	R0.5	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	R0.5	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	R1	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	R1	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	R1	82	5.5	12.5	13.6	24.6	18	19.4	32.8	42.6	0.20	28	8	31	65

Unit [mm]

How to Place an Order

BXR-14-20-038-24V-28DIN



• Further bore diameters possible on request.