

BJ-8

GENERAL PURPOSE LATCHING RELAYS

Applications	Relays with two stable positions. Required when the position memory (open-close, automatic-manual, local-remote) is needed.			
Construction characteristics	(open close, duton	natio mandai, local remotes.	, is needed.	
Contacts no.	3 Changeover	3 Changeover 4 Changeover		
Connections	Set 13 5 10 + 14 8 4 1 12 7 3 Reset 2 11	Set + 9 5 B1 13 Reset 7 3	Set 30 31 3 3 3 41 4 40 5 5 5 60 60 71 7 70 81 8 8	
Options	Op	Options are not available		
Weight (g)	300	300		
Dimensions (mm)	45 x 45 x 96,5 (F short Type)		90 x 50 x 100,5 (J short Type)	
Coil characteristics			(o shore type)	
Standard voltages ⁽¹⁾	24, 48, 72, 110, 125, 220	0 Vdc / 63,5, 110, 127, 230) Vac (50-60 Hz)	
Voltage range	24, 48, 72, 110, 125, 220 Vdc / 63,5, 110, 127, 230 Vac (50-60 Hz) +25% -30% U _N			
Pick-up voltage	See pick-up voltage /	See pick-up voltage / temperature curves for Latching relays		
Consumptions only in the change-over	The second secon		≤12 W	
Operating time				
Pick-up time	<20 ms			
Contacts				
Contact material		AgNi		
Distance between contacts		1,8 mm		
Permanent current	10 A			
Instantaneous current	80 A during	200 ms / 200 A during	10 ms	
Max. making capacity	4	40 A / 0,5 s / 110 Vdc		
Breaking capacity	See breaking capa	acity curves (1 contact co	onfiguration)	
Max. breaking capacity	See value for 50.000 operations			
U _{max} opened contact		250 Vdc / 400 Vac		
Performance data				
Mechanical endurance		10 ⁷ operations		
Operating temperature		-40°C +70°C		
Storage temperature		-40°C +70°C		
Max. operating humidity	93% / +40°C			
Operating altitude ⁽²⁾	<2000 m			

⁽¹⁾ Other voltage upon request ⁽²⁾ Ask for higher altitudes

Model





TRIP AND LOCKOUT RELAYS (I)

Model	BF-3R	BF-4R	BJ-8R	
Applications		t applications where high demanding		
	time and breaking capacity are needed.			
Construction characteristics				
Contacts no.	3 Changeover	4 Changeover	8 Changeover	
Connections	Set $\frac{9}{13}$ $\frac{5}{14}$ $\frac{12}{8}$ $\frac{4}{11}$ $\frac{12}{7}$ $\frac{3}{11}$ Reset	Set 10 6 14 9 5 13 13 Reset 11 3	Set 21 2 2 20 31 3 30 30 41 4 40 40 51 5 50 60 60 71 7 70 81 80 8	
Options		Options are not available		
Weight (g)	30	00	600	
Dimensions (mm)	45 x 45 x 96,5	45 x 45 x 96,5 (F short Type) 90 x 50 x (J short T		
Coil characteristics				
Standard voltages ⁽¹⁾	24, 48, 72, 110, 12	25, 220 Vdc / 63,5, 110, 127, 230) Vac (50-60 Hz)	
Voltage range		+10% -20% U _N		
Pick-up voltage	See pick-up vol	See pick-up voltage / temperature curves for Latching relays		
Consumptions only in the change-over	27 W	23 W	35,5 W	
Operating time				
Pick-up time	<10 ms (Vdc) <20 ms (Vac)		<10 ms (Vdc) <20 ms (Vac)	
Contacts				
Contact material	AgNi			
Distance between contacts		1,8 mm		
Permanent current		10 A		
Instantaneous current	80 A 0	80 A during 200 ms / 200 A during 10 ms		
Max. making capacity		40 A / 0,5 s / 110 Vdc		
Breaking capacity	See breaking	See breaking capacity curves (1 contact configuration)		
Max. breaking capacity	S	See value for 50,000 operations		
U _{max} opened contact		250 Vdc / 400 Vac		
Performance data				
Mechanical endurance		10 ⁷ operations		
Operating temperature	<u> </u>	-40°C +70°C		
Storage temperature		-40°C +70°C		
Max. operating humidity		93% / +40°C		
Operating altitude ⁽²⁾		<2000 m		

⁽¹⁾ Other voltage upon request ⁽²⁾ Ask for higher altitudes





TRIP AND LOCKOUT RELAYS (II)

BJ-8RP





Applications

Intended for tripping and locking applications where high quality requirements in operating time and breaking capacity are needed, with manual reset.

Construction characteristics		ire needed, with manual reset.		
Contacts no.	4 Changeover	8 Changeover		
Connections	Set $\frac{10}{14}$ $\frac{6}{9}$ $\frac{1}{5}$ $\frac{1}{8}$ $\frac{4}{12}$ $\frac{1}{3}$ Reset $\frac{10}{14}$ $\frac{1}{3}$ $\frac{1}{3}$	Set 41 4 4 40 51 5 50 61 6 60 71 7 70 81 8 8 80 8		
Options	Options are not available			
Weight (g)	300	600		
Dimensions (mm)	45 x 45 x 96,5 (F short Type)	90 x 50 x 100,5 (J short Type)		
Coil characteristics				
Standard voltages ⁽¹⁾	24, 48, 72, 110, 125, 220 Vdc 63,5, 110, 127, 230 Vac (50-60 Hz)			
Voltage range	+10% -	+10% -20% U _N		
Pick-up voltage (20°C)	See pick-up voltage / temperature curves for Latching relays			
Consumptions only in the change-over	23 W	35,5 W		
Operating time				
Pick-up time	<10 ms (Vdc) <13 ms (Vac)	<10 ms (Vdc) <20 ms (Vac)		
Contacts				
Contact material	A	AgNi		
Distance between contacts	1,8	mm		
Permanent current	10	10 A		
Instantaneous current	80 A during 200 ms	80 A during 200 ms / 200 A during 10 ms		
Max. making capacity	40 A / 0,5	s / 110 Vdc		
Breaking capacity	See breaking capacity curv	See breaking capacity curves (1 contact configuration)		
Max. breaking capacity	See value for 50	See value for 50,000 operations		
U _{max} opened contact	250 Vdc	250 Vdc / 400 Vac		
Performance data				
Mechanical endurance	10 ⁷ ope	erations		
Operating temperature	-40°C	-40°C +70°C		
Storage temperature	-40°C +70°C			
Max. operating humidity	93% / +40°C			
Operating altitude ⁽²⁾	<2000 m			

⁽¹⁾ Other voltage upon request (2) Ask for higher altitudes





LATCHING RELAYS WITH COIL **OVERVOLTAGE PROTECTION**

Model	BF-3BB	BF-4BB	BJ-8BB	
			Bridge Br	
Applications	Intended to protect the	e contact of the equipment that fe	eds the coil in our relay.	
Construction characteristics				
Contacts no.	3 Changeover	3 Changeover 4 Changeover		
Connections	Set	Set 10 6 14 9 5 Reset 11 3 Reset 7 11	Set 31 3 3 3 3 4 41 4 40 5 5 5 5 6 6 6 6 6 6 6 7 7 7 7 7 7 7 8 8 1 8	
Options		Options are not available	80_1	
Weight (g)	30	00	600	
Dimensions (mm)	45 x 45 x 96,5	(F large Type)	90 x 50 x 100,5 (J large Type)	
Coil characteristics			(5 large Type)	
Standard voltages ⁽¹⁾		24, 48, 72, 110, 125, 220 Vdc ⁽³⁾	x	
Voltage range	<u>%</u>	+25% -30% U _N		
Pick-up voltage	See pick-up vol	tage / temperature curves for	r Latching relays	
Consumptions only in the change-over		≤6 W ≤12 W		
Operating time				
Pick-up time		<20 ms		
Contacts				
Contact material		AgNi		
Distance between contacts	272	1.8 mm		
Permanent current		10 A		
Instantaneous current	80 A G	80 A during 200 ms / 200 A during 10 ms		
Max. making capacity	1	40 A / 0,5 s / 110 Vdc		
Breaking capacity	See breaking	See breaking capacity curves (1 contact configuration)		
Max. breaking capacity	S	See value for 50,000 operations		
U _{max} opened contact	2/4	250 Vdc / 400 Vac		
Performance data				
Mechanical endurance		10 ⁷ operations		
Operating temperature		-40°C +70°C		
Storage temperature		-40°C +70°C		
Max. operating humidity		93% / +40°C		
Operating altitude ⁽²⁾		<2000 m		

⁽¹⁾ Other voltage upon request (2) Ask for higher altitudes (3) Vac voltages upon request

