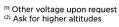


TRIP AND LOCKOUT RELAYS (I) Model BF-3R BF-4R

Model	BF-3R	BF-4R	BJ-8R	BI-16R	
			Description of the second of t		
Applications	Intended for trip and lockout applications where high demanding requirements in operating time and breaking capacity are needed.				
High burden configuration	not available	See page 15 for technical details	I See page 15 for technical details	See page 15 for technical details	
Construction characteristics					
Contacts no.	3 Changeover	4 Changeover	8 Changeover	16 Changeover	
Connections	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 11 12 2 4 8 13 5 9 14 6 10	10 1 11 20 2 21 30 3 31 40 4 4 41 50 50 6 6 6 6 70 7 71 80	A Terminals 10 1 11 2 20 2 21 30 3 31 40 40 4 41 5 50 5 51 60 6 61 7 70 7 71 80	
Options		Options are not available	8 81	8 81	
Weight (g)	300		600	1250	
Dimensions (mm)	(A) 45 x (B) 45 x (C) 96,5 (F large Type)		(A) 90 x (B) 50 x (C) 100,5 (J large Type)	(A) 120 x (B) 110 x (C) 105	
Coil characteristics	(0.0130.1360)				
Standard voltages ⁽¹⁾	24, 48, 72, 110, 125, 220 Vdc / 63,5, 110, 127, 230 Vac (50-60 Hz)				
Voltage range	+10% -20% U _N				
Pick-up voltage	See pick-up voltage / temperature curves for Latching relays				
Average consumptions only in the change-over	17 W	17 W	45 W	90 W	
Operating time					
Pick-up time	<10 ms (Vdc) <20 ms (Vac)				
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	40 A / 0,5 s / 110 Vdc				
Breaking capacity	See breaking capacity curves (Contact configuration type A)				
Max. breaking capacity	See value for 50.000 operations 250 Vdc / 400 Vac				
U _{max} opened contact Performance data		250 Vac / 2	400 Vac		
Mechanical endurance		107 operations		106 aparations	
Operating temperature				10 ⁶ operations	
Storage temperature	-40°C +70°C -40°C +85°C				
Max. operating humidity	93% / +40°C				
Operating altitude ⁽²⁾	<2000 m				
		12000			







TRIP AND LOCKOUT RELAYS (II)

Model	BF-4RP	BJ-8RP	BI-16RP			
Applications	Intended for tripping and locking applications where high quality requirements in operating time and breaking capacity are needed, with manual reset.					
High burden configuration	See page 15 for technical details					
Construction characteristics						
Contacts no.	4 Changeover	8 Changeover	16 Changeover			
Connections	2 11 2 12 4 8 13 5 9 14 6 10	10 1 11 20 2 21 30 40 40 41 5 51 60 6 61 70 7 71 80	A Terminals 10 1 11 20 2 21 30 3 31 40 4 41 50 50 60 6 61 70 7 71 80 80 81			
Options	Options are	not available	<u> </u>			
Weight (g)	300 600 1400					
Dimensions (mm)	(A) 45 x (B) 45 x (C) 96,5 (F large Type)	(A) 90 x (B) 50 x (C) 100,5 (J large Type)	(A) 120 x (B) 110 x (C) 105			
Coil characteristics						
Standard voltages(1)	24, 48, 72, 110 63,5, 110, 127, 230	0, 125, 220 Vdc 48, 110, 125, 220 Vcc 50 Vac (50-60 Hz)				
Voltage range	+10% -20% U _N					
Pick-up voltage (20°C)	See pick-up voltage / temperature curves for Latching relays					
Average consumptions only in the change-over	17 W	45 W 90W				
Operating time Pick-up time Contacts	<10 ms (Vdc) <13 ms (Vac)	<10 ms (Vdc) <20 ms (Vac)	<10 ms			
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	40 A / 0,5 s / 110 Vdc					
Breaking capacity Max. breaking capacity	See breaking capacity curves (Contact configuration type A)					
Max. breaking capacity	See value for 50,000 operations					
U _{max} opened contact		250 Vdc / 400	U vac			
Performance data	107	ations	106			
Mechanical endurance	10 ⁷ opera	7. VALUE (1903)	10 ⁶ operations			
Operating temperature	-40°C +95°C					
Storage temperature	-40°C +85°C					
Max. operating humidity	93% / +40°C					
Operating altitude(2)	<2000 m					

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

