

# LATCHING RELAYS WITH COIL OVERVOLTAGE PROTECTION

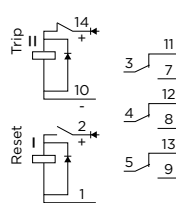
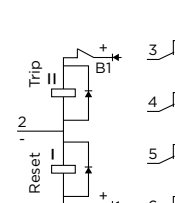
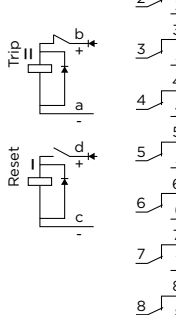
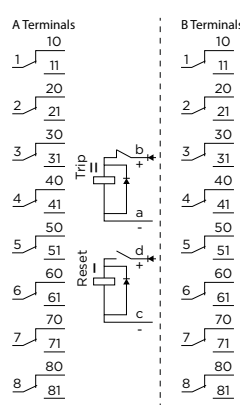
Model	BF-3BB	BF-4BB	BJ-8BB	BI-16BB*
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Applications

Intended to protect the contact of the equipment that feeds the coil in our relay.

Construction characteristics

Contacts no.	3 Changeover	4 Changeover	8 Changeover	16 Changeover
Connections				
Options	Options are not available			
Weight (g)	300		600	1400
Dimensions (mm)	45 x 45 x 96,5 (F large Type)		90 x 50 x 100,5 (J large Type)	120 x 110 x 105
<b>Coil characteristics</b>				
Standard voltages <sup>(1)</sup>	24, 48, 72, 110, 125, 220 Vdc <sup>(3)</sup>			24, 48, 72, 110, 125, 220 Vcc/Vca (50/60 Hz)
Voltage range	+25% -30% U <sub>N</sub>			+10% -20% U <sub>n</sub>
Pick-up voltage	See pick-up voltage / temperature curves for Latching relays			
Average consumptions only in the change-over	6 W		12 W	24 W
<b>Operating time</b>				
Pick-up time	<20 ms			
<b>Contacts</b>				
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			80 A during 200 ms / 150 A during 10 ms
Max. making capacity	40 A / 0,5 s / 110 Vdc			
Breaking capacity	See breaking capacity curves (Contact configuration)			
Max. breaking capacity	See value for 50.000 operations			
U <sub>max</sub> opened contact	250 Vdc / 400 Vac			
<b>Performance data</b>				
Mechanical endurance	10 <sup>7</sup> operations			
Operating temperature	-40°C +70°C			
Storage temperature	-40°C +85°C			
Max. operating humidity	93% / +40°C			
Operating altitude <sup>(2)</sup>	<2000 m			

<sup>(1)</sup> Other voltage upon request

<sup>(2)</sup> Ask for higher altitudes

<sup>(3)</sup> Vac voltages upon request

\* UL in progress