EAN code BR-216-10/230V: 8595188168854 BR-216-11/230V: 8595188168878 BR-216-20/230V: 8595188168861



- Bistable relays are used to switch electrical circuits by impulse command, especially for lighting control in ordinary houses, warehouses, production halls and other buildings.
- Faster and easier installation thanks to an unlimited number of buttons, connected in parallel by two wires, which is a practical replacement for AC and cross switches.
- Last but not least, they offer savings in the number of wires used and, in the case of the control circuit, the possibility of using wires with a smaller cross-section, where the power input is minimal compared to the power circuit.
- The state of the Bistable relay changes with a short control pulse. As a result of which the relay in the steady state has zero consumption.
- All relays can be controlled manually using a switch on the relay panel (I-O), which also serves as to signal the status of the contacts.
- For types BR-220 and BR-232, it is possible to disconnect the electrical switch control and as a result the state of the relay can then only be changed manually (service, maintenance).

Technical parameters	BR-216-10/11/20	BR-220-20	BR-232-20	Connection
Main circuit (contact)				DD 246.40
Rated insulation voltage (U <sub>i</sub> ):		440 V		BR-216-10
Thermal current (I <sub>th</sub> ):	16 A	20 A	32 A	A1 A2
Number of poles:	1, 2, 2	2	2	
Contact configuration:	10, 11, 20	20	20	
Operational Power (P <sub>e</sub> )				
AC-1, AC-7a for 230 V, 1 phase:	3.5 kW	4.4 kW	7 kW	2
AC-2 for 230 V, 1 phase:	1.2 kW	1.5 kW	2.4 kW	
AC-3, AC-7b for 230V, 1 phase:	0.37 kW	0.55 kW	1.1 kW	BR-216-11
DC-1 (L/R ≤ 1 ms)				A1 A2 1 3
Ue = 24V (1 contact/2 contacts in series):	16 A/16 A	20 A/20 A	32 A/32 A	~
Ue = 48V (1 contact/2 contacts in series):	12 A/5 A	15 A/18 A	25 A/28 A	<u> </u>
Ue = 60V (1 contact/2 contacts in series):	8 A/14 A	10 A/15 A	20 A/22 A	
Ue = 110V (1 contact/2 contacts in series):	4 A/7 A	5 A/8 A	7 A/12 A	2 4
Ue = 220V (1 contact/2 contacts in series):	0.4 A/3 A	0.5 A/4 A	0.7 A/6 A	2   4
Load capacity of light sources AC-5a, AC-5b				BR-216-20
Max. operating frequency (op./hr)				1  3
without load:	900	900	450	A1 A2
AC-1, AC-7a:	600	600	450	
AC-2:	120	120	120	
AC-3, AC-7b:	600	600	450	
AC-5a, AC-5b:	600	600	450	2   4
DC-1:		300		
Electrical endurance: DC-1, DC-3, DC-5,				BR-220-20
AC-1, AC-7a, AC-2, AC-3, AC-7b, AC-5a / AC-5b (I <sub>p</sub> = 10 A):	100 000 op. c.			A1 A2 1 3
Mechanical lifetime:		1 000 000 op. C		
Power dissipation per pole:	1 W	1.5 W	3 W	
Contact reliability:		>10 V, >100 mA		
Max. back-up fuse against short circuit gL/gG (I <sub>v</sub> )				2 4
- coordination type 1:	16 A	20 A	32 A	
Rated impulse withstand voltage (U <sub>imp</sub> ):		4 kV		BR-232-20
Overload current withstand capability: 10s:	48 A	56 A	80 A	A1 A2 1 3
Terminal capacity (solid and stranded):	1 to 10 mm <sup>2</sup>			, , , , , , , , , , , , , , , , , , ,
Maximum tightening torque:	1.2 Nm			
Screw head:		PZ2		
Control circuit (coil)				2 4
Rated control voltage:	AC 230 V AC 120 V		21 11	
Rated frequency:	50 Hz 60 Hz		E   ( ;; DD 046	
Impulse duration:		min. 50 ms/max. 1 h		Example of connection BR-216
Duration between two impulses (of control voltage):	min. 150 ms			
Maximum load of illuminated buttons (glow lamps, LEDs,	2,5 mA			L
Terminal capacity (solid and stranded):	1 to 4 mm <sup>2</sup>			"   T   L
Maximum tightening torque:	0.6 Nm			
Screw head:	PZ1			
General				
Mounting:	DIN Rail, TH35 (IEC/EN 60715)			
Number of contactors or switches side-by-side:	no limitation under 55	°C (55 70 °C max. 3)/	A1 A2	
Degree of protection:	IP20			
Operational temperature:	-25 +55 °C (> 55 +70 °C at max. pulse length - 1min)			
	(13 131 °F (> 131 158 °C at max. pulse length - 1min )			
Storing temperature:	-30 +80 °C (-22 °F to 176 °F)			
Disconnection of remote control (coil) by switch:		no yes yes		
Standards:	110	IEC/EN 60669-2-2	,cs	

## onnection R-216-10 R-216-11 R-216-20 R-220-20 R-232-20