

**BT\_439**

08.06.2021

**Contact Block, momentary**



**General Data**

Type reference	BT_439
Description	Contact block
Approvals	CCC, CE, UKCA
Contact type	2 NC + 2 NO
Degree of protection	IP00
Operation travel	3 mm
Connection type	Faston terminals 2.8 x 0.8 mm
Contact material	AgNi
Max. storage temperature	-50°C ... 85°C
Max. operating temperature	-30°C ... 70°C
Mechanical life	1 million switching cycles
Contact resistance NO	< 20 mOhm (new state)
Contact resistance NC	< 20 mOhm (new state)
Min. current	1 mA (under laboratory conditions)
Min. voltage	5 V
Bouncing time NO	< 10ms
Bouncing time NC	< 10ms

**Electrical data acc. to IEC/EN 60947-5-1 (VDE 0660 Sect. 200)**

	alternate current	direct current
Utilisation category	-	-
Rated insulation voltage U <sub>i</sub>	-	-
Rated operating voltage U <sub>e</sub>	60V~	60 V (ind.) / 60 V (R) / 50 V (R) / 40 V (R)
Rated operating current I <sub>e</sub>	3 A (inductive)	1 A / 3 A / 4 A / 5 A
Breaking capacity	-	-
Continuous thermal current	6 A	-

**Additional electrical data**



Overvoltage category

II

### Note

Electrical life data:  
 AC15 60V/3A 1000.000  
 DC13 24V/5A 35.000  
 DC13 60V/1A 100.000  
 DC 40V/5A 100.000 (ohmic load)  
 DC 50V/4A 100.000 (ohmic load)  
 DC 60V/3A 100.000 (ohmic load)

Using a flyback diode, the DC lifetime can be considerably increased at inductive load.  
 The contacts of the "BZ...439" are, as defined in EN 60947-5-1 app. K, not designed as positive opening contacts. Hence, they are not suitable for emergency-stop applications.

### Electrical data acc. to IEC/EN 60947-5-1 (VDE 0660 Sect. 200)

	alternate current	direct current
Utilisation category	DC13	-
Rated insulation voltage $U_i$	-	-
Rated operating voltage $U_e$	12 V	-
Rated operating current $I_e$	6 A	-
Breaking capacity	1,1I <sub>e</sub>	-
Continuous thermal current	-	-

### Electrical data acc. to IEC/EN 61058-1 (VDE 0630 Sect. 1)

Rated voltage $U_e$	12 V DC
Rated current $I_e$	6[6] A



