

BF_439

03.05.2021

Contact block, maintained

General Data

Type reference	BF_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_i	-	-
Rated operating voltage U_e	60V	60 V (ind.) / 60 V (R) / 50 V (R) / 40 V (R)
Rated operating current I_e	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	1,1Ie	-
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



