

DTO

19.06.2013

**Modular contact block, momentary**



**General Data**

Type reference	DTO
Description	Modular contact block (positive opening contact), with Cage-Clamp technology
Approvals	CCC, cCSAus, DNVGL, ENEC10, VDE, CE, KEMA KEUR, TÜV_Süd, UKCA
Contact type	1 NC
Degree of protection	IP20
Operation travel	6 mm
Connection type	Cage-Clamp 0.08-2.5 mm <sup>2</sup>
Contact material	AgNi
Max. storage temperature	-40°C ... 70°C
Max. operating temperature	-25°C ... 55°C, with/without illumination
Mechanical life	1 million switching cycles
Electrical life (rated load)	50,000 switching cycles at rated load
Contact resistance NC	< 20 mOhm (new state)
Min. current	1 mA (under laboratory conditions)
Min. voltage	5 V
Bouncing time NC	< 10ms
Positive opening contact	acc. to EN60947-5-1, appendix K

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

	alternate current	direct current
Utilisation category	AC15 A600	DC13 Q300
Rated insulation voltage Ui	600 V	400 V
Rated operating voltage Ue	240 V / 120 V / 60 V / 24 V	250 V / 125 V / 60 V / 24 V
Rated operating current Ie	3 A / 1.9 A	0.27 A / 0.55 A / 1 A / 2 A
Breaking capacity	10Ie	1,1Ie
Continuous thermal current	16 A	-

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



Rated voltage Ue	250 V~ / 400 V~
Rated current Ie	16(10) A / 10(5) A

### Environmental / climatic tests

Vibration resistance	50m/s <sup>2</sup> at 5-150Hz according to DIN IEC 68 2-6
Shock resistance	30m/s <sup>2</sup> at 50ms acc. to DIN IEC 68 2-27
Constant climatic resistance	IEC 600-68-2-3 and 2-30

### Note

Contact block of type series D

- If combining the contact blocks D.... with key actuator, selector or toggle heads the type additionn ...\_497 has to be added to the type of the key actuator, selector and toggle head!

Additional test at ambient temperature = -40°C:  
 Mechanical life: 50,000 switching cycles (actuator: KRJMT)  
 Mechanical life: 6050 switching cycles (actuator KRJMV32)

### Additional electrical data

Overvoltage category	II
Pollution degree	3
Glow wire testing	750°C / 850°C

