

The types B01 and F01 are switches with connection cables, automatically resetting, with Expoxy

- **B01 fully insulated in Ryton® cap**
- **F01 fully insulated in Nomex® cap**

Possible applications in switch cabinets, on motor housings or heat sinks

Thermal Protectors type B01 / F01; 1.6 - 7.5 A

B01	F01
	

Note

The data and information provided are based on tests and test series. They are intended as a guide, which is why there may be deviations for individual applications and uses. The suitability in a specific application must be checked by the user in each individual case.

Switch type:	**NC contact B01 resetting**	**NC contact F01 resetting**
isolated:	yes	yes
Temperature		
Nominal switching temperature (NST), in 5 K steps [°C]	60 -200	
Tolerance range -Standard- Tol [[K]	+/- 5	
Reverse Switch Temperature (RST below NST) UL [K] Reverse Switch Temperature (RST below NST) VDE [°C]	-35 ± 15 ≥35	
Tension		
max. operating voltage range up to ...	500 V AC / 14 V DC	
Rated voltage AC [VAC]	250 (VDE), 277 (UL)	
Current/switching cycles		
Rated current AC - cos ϕ = 1.0 [A] / [n]	2,5 / 10'000	
Rated current AC - cos ϕ = 0.6 [A] / [n]	1,6 / 10'000	
Max. Switching current AC- cos ϕ = 1.0 [A] / [n]	6,3 / 3'000 7,5 / 300	
Rated current AC - cos ϕ = 0.4 [A] / [n]	1,8 / 10'000	
Max. Switching current AC- cos ϕ = 0.4 [A] / [n]	7,2 / 1'000	
Rated voltage DC [V]	12	
Max. Switching current DC [A] / [n]	40,0 / 10'000	
Additional specifications		
High-voltage strength [kV]	2	
Total bounce time [ms]	< 1	
Contact resistance (according to MIL-STD R5757) [mΩ]	50	
Vibration resistance 10 ... 60 Hz [m/s2]	100	
Compressive strength of the switch housing [N]	450	
Suitable for installation in protection class	I + II	
Impregnation resistance	suitable	
Available Licenses and Approvals		
please specify	IEC, ENEC, VDE, UL, CSA, CQC	
Dimensions (standard)		
Diameter Ø d [mm]	10,0	9,4
Overall height h [mm]	from 5.1	from 5.4
Standard stranded wire connection:	0.25 mm2/AWG 22	
Characteristics of current dependence		
The special feature of the 01 and 02 series is that they are temperature-sensitive switches. In their rated operation (rated current), they exhibit very low self-heating due to the current. Therefore, a switching point reduction takes place at most within the nominal switching temperature tolerance.		

B01	**F01**
	