

MECHANICAL FEATURES

Terminology according to NFC 63 140 and CEI 947.5.1
These features are given for bare microswitches (without auxiliary actuator)

- Dimensions according to DIN 41 635 shape A
- Mechanical life (at 2/3 of OT and 1 cycle/s) : 20 millions cycles
- Maximum frequency of operating cycles : 10 cycles/s
- Minimum speed of actuation : 0,1 mm/mn
- Contact force (rest or working positions) : 0,3 N
- Changeover time : 4 a 10 ms
 - including bounce time : 1.5 ms
 - time between bounces : 1 ms max
- Vibration resistance (according to NFC 20 706 or CEI 68-2-6) : 10g- 10 to 500Hz
 - with no micro opening of contact $\geq 10\mu s$ 3 axes
- Shock resistance (according to NFC 20 727 or CEI 68-2-27) : 100g 6 ms
 - with no micro opening of contact $\geq 10\mu s$ 3 axes
- Materials : enclosure: glass-reinforced polyamide
 - : button: polyamide
 - : movable blade: copper beryllium alloy
 - : terminals: brass (except terminals W2 copper-nickel alloy)
- solderability: in accordance with NFC 20 720 or CEI 68-2-20
- Ta and Tb tests with ageing
 - : contacts: GOLD-SILVER-PLATINUM alloy
- Tightening torque with M3 screw : 0.4 to 0.6 m.N
- Robustness of terminations according to NFC 20 721 or CEI 68.2.21
 - Ua =100N (45N lateral) Ub = method I
- Accuracy tripping point according to NFC 63 145 : 0.04 mm
- Weight : 5.6g

ENVIRONMENTAL FEATURES

- Climatic category (NFC 20 600 or CEI 68-1) : 25/125/56
- Operating temperature : -25°/+125°
- Storage temperature : -40°/+150°
- Tracking resistance : ITC: 250V
 - (according to NFC 26 220 or CEI 112)
- Mould growth: test according to NFC 20 710
 - or CEI 68-2-10 (severity 28 days)
- Damp heat: NFC 20 703 or CEI 68-2-3 severity 4
- Salt spray: according to NFC 20 711 or CEI 68-2-11 (duration : 96 hours)
- Resistance to sulphur dioxide atmosphere corrosion
 - (according to CEI 68.2.42 , severity 10 days)
- Flammability: UL 94 HB (UL 94 VO model: consult us)
- Rapid changes of temperature (NFC 20 714 or CEI 68-2-14)
 - Method Na (5 cycles)
- Degree of protection according to NFC 20 010 or CEI 529
 - IP 40 (with insulated connections)

APPROVALS

- UTE - VDE - ASE - SEMKO - NEMKO - FI - IMQ - KEMA (according to CEE 24)
- DEMKO (special model)
- UL-CSA (type U 83161...)
- BEAB (specific marking)

GENERAL FEATURES

LOW CURRENT MODEL - OPERATING FORCE: 0.8 N max

- Designed for use from 1 to 100mA at 4 to 30 VDC
- In these conditions, the electrical endurance exceeds the mechanical life
- Contact gap : 0.4 mm
- Contact resistance : 20 m Ω
 - (according to NFC 93 050) condition A measured with 1A, 5V
 - Maximum value < 10% of the load resistance
- Dielectric strength (according to NFC 93 050)
 - between open contacts : >1000 V
 - between contacts connected together and electric mass : >2500 V
- Insulation resistance at 500V= : >10000 M Ω
 - (according to NFC 93050)
- Short time overcurrent : 100 A during 30 ms
 - according to NFC 63 145 p.632
- Max electric shock (CEI 60) (1,2/50 μs)
 - between open contacts : 2000V
 - between contacts connected together and electric mass : 5000V

Note: unless otherwise specified, these are average values concerning new switches

SUBMINIATURE PROTECTED SWITCH "V3"

DATA SHEET

Edition N°: 3
du: 15.01.96



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