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Products **Technical Support**

WLCA2-TS

Global Network

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Two-circuit Limit Switch/Long-life Two-circuit Limit Switch

No Image

Available

Standard Load Type, Roller Lever (R38), With Ground Terminal, 1/2-14NPT

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| | Ratings / Performance | | Mounting holes | | Circuits configuration | |
|--|-----------------------|--|----------------|--|------------------------|--|
|--|-----------------------|--|----------------|--|------------------------|--|

Ratinge

| Ratings | |
|----------------------------------|--|
| Shape / Structure | General-purpose Limit switches |
| service life | General type |
| Operating mechanism | Snap action |
| Actuator | Roller lever 💹 17.5 dia. * 7, Sintered stainless steel roller, 38 R 🖾 |
| Frequency | 50/60 Hz |
| Switching mechanism | Self-reset mechanism |
| Contact configuration | 2-circuit double break type |
| Contact form | SPST-NO / SPST-NC |
| Load | General load |
| Ratings (AC): Non-Inductive load | Rated voltage: 125 VAC, Resistive load: 10 A (NC) 10 A (NO), Lamp load: 3 A (NC) 1.5 A (NO) Rated voltage: 250 VAC, Resistive load: 10 A (NC) 10 A (NO), Lamp load: 2 A (NC) 1 A (NO) Rated voltage: 500 VAC, Resistive load: 10 A (NC) 10 A (NO), Lamp load: 1.5 A (NC) 0.8 A (NO) |
| Ratings (AC): Inductive load | Rated voltage: 125 VAC, Inductive load: 10 A (NC) 10 A (NO), Motor load: 5 A (NC) 2.5 A (NO) Rated voltage: 250 VAC, Inductive load: 10 A (NC) 10 A (NO), Motor load: 3 A (NC) 1.5 A (NO) Rated voltage: 500 VAC, Inductive load: 3 A (NC) 3 A (NO), Motor load: 1.5 A (NC) 0.8 A (NO) |
| Ratings (DC): Non-Inductive load | Rated voltage: 8 VDC, Resistive load: 10 A (NC) 10 A (NO), Lamp load: 6 A (NC) 3 A (NO) Rated voltage: 14 VDC, Resistive load: 10 A (NC) 10 A (NO), Lamp load: 6 A (NC) 3 A (NO) Rated voltage: 30 VDC, Resistive load: 6 A (NC) 6 A (NO), Lamp load: 4 A (NC) 3 A (NO) Rated voltage: 125 VDC, Resistive load: 0.8 A (NC) 0.8 A (NO), Lamp load: 0.2 A (NC) 0.2 A (NO) Rated voltage: 250 VDC, Resistive load: 0.4 A (NC) 0.4 A (NO), Lamp load: 0.1 A (NC) 0.1 A (NO) |
| Ratings (DC): Inductive load | Rated voltage: 8 VDC, Inductive load: 10 A (NC) 10 A (NO), Motor load: 6 A (NC) 6 A (NO) Rated voltage: 14 VDC, Inductive load: 10 A (NC) 10 A (NO), Motor load: 6 A (NC) 6 A (NO) Rated voltage: 30 VDC, Inductive load: 6 A (NC) 6 A (NO), Motor load: 4 A (NC) 4 A (NO) Rated voltage: 125 VDC, Inductive load: 0.8 A (NC) 0.8 A (NO), Motor load: 0.2 A (NC) 0.2 A (NO) Rated voltage: 250 VDC, Inductive load: 0.4 A (NC) 0.4 A (NO), Motor load: 0.1 A (NC) 0.1 A (NO) |
| Explanation | The above values indicate the steady-state current. Lamp load has an inrush current of 10 times the steady-state current. Inductive load has a power factor of 0.4 Min. (AC) and a time constant of 7 ms Max. (DC). Motor load has an inrush current of 6 times the steady-state current. |
| Inrush current | NC: 30 A NO: 20 A |
| Protective circuit | Classification of protection against electric shock: Class I Short-circuit protective device: 10 A fuse type gl or gG (IEC269) |
| Conduit size | 1/2-14NPT |
| Earth terminal | With ground terminal |
| | 2 11 121 22 251 |

Operating: -10 to 80 CEL

Operating: 35 to 95%RH

(with no icing or condensation)

(with no icing or condensation)

Characteristics

Ambient temperature

Ambient humidity

| Permissible operating speed | 1 mm/s to 1 m/s |
|---|--|
| Permissible operating frequency (Mechanically) | 120 operations / 1 minute Max. |
| Permissible operating frequency (Electrically) | 30 operations / 1 minute Max. |
| Contact resistance | 25 mOhm Max. (Initial value) (Measuring method is contact resistance meter.) |
| Insulation resistance | Between each terminal of the same polarities: 100 MOhm Min. Between live-metallic part and ground: 100 MOhm Min. Between each terminal and non-live-metallic part: 100 MOhm Min. (at 500 VDC Megger) |
| Dielectric strength | Between each terminal of the same polarities: 1,000 VAC Between live-metallic part and ground: 2,200 VAC Between each terminal and non-live-metallic part: 2,200 VAC (50/60 Hz for 1 min) |
| Durability (Mechanically) | 15,000,000 operations Min. (No load) (Temperature, Humidity conditions: 5 CEL to 35 CEL, 40 %RH to 70 %RH) |
| Durability (Electrically) | 750,000 operations Min. (Resistive load 10 A at 125 VAC) (Temperature, Humidity conditions: 5 CEL to 35 CEL, 40 %RH to 70 %RH) |
| Pollution degree | 3 (EN60947-5-1) |
| Vibration resistance (Malfunction) | Vibration frequency range: 10 to 55 Hz, Double amplitude: 1.5 mm, Contact opening: 1 ms Max. at the free position and the total travel position. |
| Shock resistance (Destruction) | 1,000 m/s2 |
| Shock resistance (Malfunction) | Contact opening is 1 ms Max. at the free position and the total travel position at 300 m/s2. |
| Degree of protection | IEC60529 (JEM): IP67 NEMA250: Type3, 4, 13 |
| Applicable standard (UL) | Standard No.: UL508 File number: E76675 |
| Applicable standard (CSA) | Standard No.: C22.2 NO.14 File number: LR45746 |
| Applicable standard (TUV) | Standard No.: EN60947-5-1 File number: J50022353 |
| Applicable standard (CCC(CQC)) | Standard No.: GB14048.5 File number: 2004010305128675 |
| Applicable standard (EC Directive (Low Voltage Directive)) | 2006/95/EC |
| | i |

Operating characteristics

Mounting specification

| Operating Force (OF) | Standard value 13.34 N Max. | |
|----------------------------|-----------------------------|--|
| Release Force (RF) | Standard value 2.23 N Min. | |
| Pre-Travel (PT) | Standard value 15 +/- 5 DEG | |
| Over-Travel (OT) | Standard value 30 DEG Min. | |
| Movement Differential (MD) | Standard value 12 DEG Max. | |

Front mounting, Back mounting

As of April 16, 2012

realizing