

# LA1KN31M

Auxiliary contact block, TeSys K, 3NO + 1NC,  
front mounting, screw clamp terminals, EN  
50012



## Main

|                                             |                                                                                                                     |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Range                                       | TeSys                                                                                                               |
| Product name                                | TeSys K                                                                                                             |
| Product or component type                   | Auxiliary contact block                                                                                             |
| Device short name                           | LA1                                                                                                                 |
| Range compatibility                         | TeSys K LC1K                                                                                                        |
| Product compatibility                       | 3P contactor                                                                                                        |
| Mounting location                           | Front                                                                                                               |
| Pole contact composition                    | 3 NO + 1 NC                                                                                                         |
| Contacts operation                          | Instantaneous                                                                                                       |
| [Ue] rated operational voltage              | 690 V AC 25...400 Hz                                                                                                |
| [Ie] rated operational current              | 6 A at 120 V AC-15<br>1.04 A at 690 V AC-15<br>0.55 A at 125 V DC-13<br>0.1 A at 600 V DC-13                        |
| [Ui] rated insulation voltage               | 690 V conforming to IEC 60947-5-1<br>600 V conforming to UL 60947-5-1<br>600 V conforming to CSA C22.2 No 60947-5-1 |
| [Ith] conventional free air thermal current | 10 A (at 50 °C)                                                                                                     |
| Standards                                   | EN/IEC 60947-5-1<br>UL 60947-5-1<br>CSA C22.2 No 60947-5-1<br>GB/T 14048.5                                          |
| Product certifications                      | IECEE CB Scheme<br>UL<br>CSA<br>CCC                                                                                 |

## Complementary

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Irms rated making capacity    | 110 A at ≤ 690 V AC conforming to IEC 60947                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Permissible short-time rating | 80 A 1 s<br>60 A 500 ms<br>110 A 100 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Associated fuse rating        | 10 A gG at ≤ 690 V conforming to IEC 60947                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Minimum switching current     | 5 mA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Minimum switching voltage     | 17 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Non overlap distance          | 0.5 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Insulation resistance         | > 10 MOhm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Connections - terminals       | Screw clamp terminals 1 cable(s) 0.34...1.5 mm <sup>2</sup> flexible with cable end<br>Screw clamp terminals 1 cable(s) 0.75...4 mm <sup>2</sup> flexible without cable end<br>Screw clamp terminals 1 cable(s) 1.5...4 mm <sup>2</sup> rigid<br>Screw clamp terminals 2 cable(s) 0.34...1.5 mm <sup>2</sup> flexible with cable end<br>Screw clamp terminals 2 cable(s) 0.75...4 mm <sup>2</sup> flexible without cable end<br>Screw clamp terminals 2 cable(s) 1.5...4 mm <sup>2</sup> rigid |
| Tightening torque             | 1.3 N.m - with screwdriver Philips No 2                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Height                        | 30 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Width                         | 38 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Depth                         | 35 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Net weight                    | 0.045 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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## Environment

|                                       |                              |
|---------------------------------------|------------------------------|
| Environmental characteristic          | Normal environment           |
| IP degree of protection               | IP20 conforming to IEC 60529 |
| Protective treatment                  | TC conforming to IEC 60068   |
| Ambient air temperature for storage   | -50...80 °C                  |
| Ambient air temperature for operation | -25...50 °C                  |
| Operating altitude                    | 2000 m                       |

## Packing Units

|                  |          |
|------------------|----------|
| Package 1 Weight | 0.041 kg |
| Package 1 Height | 0.360 dm |
| Package 1 width  | 0.350 dm |
| Package 1 Length | 0.400 dm |

## Offer Sustainability

|                            |                                                                                                                                 |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| REACH Regulation           |  <a href="#">REACH Declaration</a>             |
| REACH free of SVHC         | Yes                                                                                                                             |
| EU RoHS Directive          | Compliant  <a href="#">EU RoHS Declaration</a> |
| Toxic heavy metal free     | Yes                                                                                                                             |
| Mercury free               | Yes                                                                                                                             |
| RoHS exemption information |  <a href="#">Yes</a>                           |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>        |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins     |