

## LC1K0601B7

sklopnik TeSys K – 3P (3 NO) – AC-3 – ≤ 440 V  
6 A – Zavojnica 24 V AC



### Glavno

|                           |               |
|---------------------------|---------------|
| Range                     | TeSys         |
| Product or component type | Contactors    |
| Product name              | TeSys K       |
| Device short name         | LC1K          |
| Device application        | Control       |
| Contactors application    | Motor control |

### Komplementarno

|   |   |
|---|---|
| Utilisation category                        | AC-3<br>AC-4  |
| Poles description                           | 3P  |
| Pole contact composition                    | 3 NO  |
| [Ue] rated operational voltage              | 690 V AC 50/60 Hz for power circuit<br>≤ 690 V AC 50/60 Hz for signalling circuit   |
| [Ie] rated operational current              | 6 A at ≤ 440 V AC AC-3 for power circuit  |
| Control circuit type                        | AC 50/60 Hz   |
| [Uc] control circuit voltage                | 24 V AC 50/60 Hz  |
| Motor power kW                              | 1.5 kW at 220...230 V AC 50/60 Hz AC-3<br>2.2 kW at 380...415 V AC 50/60 Hz AC-3<br>1.5 kW at 400 V AC 50/60 Hz AC-4<br>3 kW at 660...690 V AC 50/60 Hz AC-3<br>3 kW at 440 V AC 50/60 Hz AC-3<br>3 kW at 480 V AC 50/60 Hz AC-3<br>3 kW at 500...600 V AC 50/60 Hz AC-3  |
| Auxiliary contact composition               | 1 NC  |
| [Uimp] rated impulse withstand voltage      | 8 kV  |
| Overvoltage category                        | III   |
| [Ith] conventional free air thermal current | 20 A at ≤ 50 °C for power circuit<br>10 A at ≤ 50 °C for signalling circuit   |
| Irms rated making capacity                  | 110 A AC for power circuit conforming to NF C 63-110<br>110 A AC for power circuit conforming to IEC 60947<br>110 A AC for signalling circuit conforming to IEC 60947   |
| Rated breaking capacity                     | 110 A at 415 V conforming to IEC 60947<br>110 A at 440 V conforming to IEC 60947<br>80 A at 500 V conforming to IEC 60947<br>110 A at 220...230 V conforming to IEC 60947<br>110 A at 380...400 V conforming to IEC 60947<br>70 A at 660...690 V conforming to IEC 60947  |
| [Icw] rated short-time withstand current    | 90 A ≤ 50 °C 1 s power circuit<br>85 A ≤ 50 °C 5 s power circuit<br>80 A ≤ 50 °C 10 s power circuit<br>60 A ≤ 50 °C 30 s power circuit<br>45 A ≤ 50 °C 1 min power circuit<br>40 A ≤ 50 °C 3 min power circuit<br>80 A 1 s signalling circuit<br>90 A 500 ms signalling circuit<br>110 A 100 ms signalling circuit<br>20 A ≤ 50 °C ≥ 15 min power circuit |
| Associated fuse rating                      | 25 A gG at ≤ 440 V for power circuit<br>25 A aM for power circuit   |

Informacije dane u ovoj dokumentaciji sadrže opće opise i/ili tehničke karakteristike o performansama ovdje sadržanih proizvoda. Ova dokumentacija nije namijenjena kao zamjena za niti bi se trebala koristiti za određivanje prikladnosti ili pouzdanosti predmetnih proizvoda za konkretne korisničke primjene. Svaki takav korisnik ili integrator dužan je provesti odgovarajuću i poplunu analizu rizika, procjenu i ispitivanje proizvoda u odnosu na odgovarajuću specifičnu primjenu ili uporabu istog. Niti društvo Schneider Electric, Industries SAS niti bilo koje od njegovih povezanih poduzeća ili podružnica neće preuzeti obvezu ili snositi odgovornost za pogrešnu upotrebu ovdje sadržanih informacija.

10 A gGfor signalling circuit conforming to IEC 60947  
10 A gGfor signalling circuit conforming to VDE 0660

|                                 |  |
|---------------------------------|--|
| Average impedance               | 3 mOhm at 50 Hz - lth 20 A for power circuit   |
| [Ui] rated insulation voltage   | 690 V for power circuit conforming to IEC 60947-4-1<br>600 Vfor power circuit conforming to UL 508<br>690 Vfor signalling circuit conforming to IEC 60947-4-1<br>690 Vfor signalling circuit conforming to IEC 60947-5-1<br>600 Vfor signalling circuit conforming to UL 508<br>600 Vfor power circuit conforming to CSA C22.2 No 14<br>600 Vfor signalling circuit conforming to CSA C22.2 No 14  |
| Insulation resistance           | > 10 MOhmfor signalling circuit  |
| Inrush power in VA              | 30 VA at 20 °C   |
| Hold-in power consumption in VA | 4.5 VA at 20 °C  |
| Heat dissipation                | 1.3 W  |
| Control circuit voltage limits  | 0.2...0.75 U <sub>c</sub> at ≤ 50 °C drop-out<br>0.8...1.15 U <sub>c</sub> at ≤ 50 °C operational  |
| Connections - terminals         | Screw clamp terminals 1 cable(s) 1.5...4 mm <sup>2</sup> - cable stiffness: solid<br>Screw clamp terminals 1 cable(s) 0.75...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Screw clamp terminals 1 cable(s) 0.34...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Screw clamp terminals 2 cable(s) 1.5...4 mm <sup>2</sup> - cable stiffness: solid<br>Screw clamp terminals 2 cable(s) 0.75...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Screw clamp terminals 2 cable(s) 0.34...1.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end |
| Operating rate                  | 3600 cyc/h   |
| Auxiliary contacts type         | Type instantaneous (1 NC)  |
| Signalling circuit frequency    | ≤ 400 Hz   |
| Minimum switching current       | 5 mAfor signalling circuit   |
| Minimum switching voltage       | 17 Vfor signalling circuit   |
| Mounting support                | Plate<br>Rail  |
| Tightening torque               | 1.3 N.m - on screw clamp terminals - with screwdriver Philips No 2<br>1.3 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm  |
| Operating time                  | 10...20 ms coil de-energisation and NO opening<br>10...20 ms coil energisation and NO closing  |
| Safety reliability level        | B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1   |
| Non overlap distance            | 0.5 mm   |
| Mechanical durability           | 10 Mcycles   |
| Electrical durability           | 1.3 Mcycles 6 A AC-3 at U <sub>e</sub> ≤ 440 V   |
| Mechanical robustness           | Shocks contactor closed, on X axis 10 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor closed, on Y axis 15 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor closed, on Z axis 15 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor opened, on X axis 6 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor opened, on Y axis 10 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor opened, on Z axis 10 Gn for 11 ms IEC 60068-2-27<br>Vibrations contactor closed 4 Gn, 5...300 Hz IEC 60068-2-6<br>Vibrations contactor opened 2 Gn, 5...300 Hz IEC 60068-2-6  |
| Height                          | 58 mm  |
| Width                           | 45 mm  |
| Depth                           | 57 mm  |
| Product weight                  | 0.18 kg  |

## Okolina

|                         |   |
|-------------------------|---|
| standards               | BS 5424<br>IEC 60947<br>NF C 63-110<br>VDE 0660 |
| product certifications  | CSA<br>UL                                       |
| IP degree of protection | IP2x conforming to VDE 0106                     |
| protective treatment    | TC conforming to IEC 60068                      |

|                                       |  |
|---------------------------------------|--|
|                                       | TC conforming to DIN 50016   |
| ambient air temperature for operation | -25...50 °C  |
| ambient air temperature for storage   | -50...80 °C  |
| operating altitude                    | 2000 m without derating in temperature   |
| flame retardance                      | V1 conforming to UL 94<br>Requirement 2 conforming to NF F 16-101<br>Requirement 2 conforming to NF F 16-102 |

## Offer Sustainability

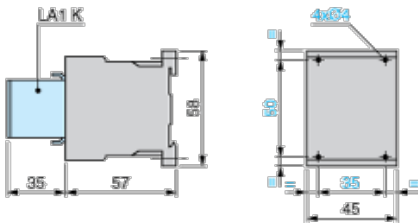
|   |   |
|---|---|
| Green Premium product   | Green Premium product   |
| Compliant - since 0633 - Schneider Electric declaration of conformity | Compliant - since 0633 - Schneider Electric declaration of conformity |
| Reference not containing SVHC above the threshold                     | Reference not containing SVHC above the threshold                     |
| Available   | Available   |
| Available   | Available   |

## Contractual warranty

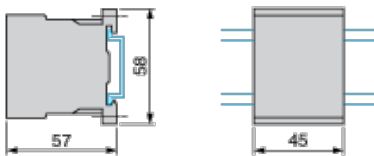
|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

## Dimensions

### Contactors LC1 K, LP1 K, LP4 K: Mounting on Panel

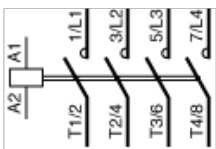


### Contactors LC1 K, LP1 K, LP4 K: Mounting on Rail AM1 DP200 or AM1 DE200 (35 mm)



## Wiring

### 3-Pole Contactors: 3P + N/O



### 3-Pole Contactors: 3P + N/C

