

# LC1SK0600P7

TeSys SK mini contactor - 2P (2 NO) - AC-3 -  
690 V 6 A - 230 V AC coil



## Main

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                       | TeSys                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Product name                                | TeSys SK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Product or component type                   | Mini contactor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Device short name                           | LC1SK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Contactor application                       | Motor control<br>Resistive load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Utilisation category                        | AC-1<br>AC-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Power pole contact composition              | 2P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Pole contact composition                    | 2 NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| [Ue] rated operational voltage              | 690 V AC 50/60 Hz for power circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| [Ie] rated operational current              | 12 A ( $\leq 55^{\circ}\text{C}$ ) AC AC-1<br>6 A at $\leq 440$ V AC AC-3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Motor power kW                              | 2.2 kW at 660...690 V AC 50/60 Hz<br>2.2 kW at 380...415 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Control circuit type                        | AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Control circuit voltage                     | 230 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| [Ith] conventional free air thermal current | 12 A at $\leq 55^{\circ}\text{C}$ for power circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Irms rated making capacity                  | 66 A at 690 V AC conforming to NF C 63-110<br>66 A at 690 V AC conforming to IEC 60947                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Rated breaking capacity                     | 52 A at $\leq 400$ V for power circuit conforming to IEC 60947<br>52 A at $\leq 400$ V for power circuit conforming to NF C 63-110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| [Icw] rated short-time withstand current    | 50 A $\leq 55^{\circ}\text{C}$ power circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Associated fuse rating                      | 16 A gI at $\leq 440$ V for power circuit conforming to IEC 60947                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Average impedance                           | 4 mOhm at 50 Hz - Ith 12 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| [Ui] rated insulation voltage               | 690 V conforming to CSA C22.2 No 14<br>690 V conforming to UL 508<br>690 V conforming to BS 5424<br>690 V conforming to VDE 0110 group C<br>690 V conforming to IEC 60947                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Mounting support                            | Rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Standards                                   | BS 5424<br>IEC 60947<br>NF C 63-110<br>VDE 0660                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Product certifications                      | CSA<br>UL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Connections - terminals                     | Power circuit : connector 2 cable(s) 1.5...4 mm <sup>2</sup> - cable stiffness: solid<br>Power circuit : connector 2 cable(s) 0.35...2.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Power circuit : connector 2 cable(s) 0.35...1.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Power circuit : connector 1 cable(s) 1.5...6 mm <sup>2</sup> - cable stiffness: solid<br>Power circuit : connector 1 cable(s) 0.5...6 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Power circuit : connector 1 cable(s) 0.35...6 mm <sup>2</sup> - cable stiffness: flexible - with cable end |

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|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
| Tightening torque     | 0.8 N.m - on connector - with screwdriver pozidriv No 1                                    |
| Operating time        | 7...14 ms coil energisation and NO closing<br>6...8 ms coil de-energisation and NO opening |
| Mechanical durability | 10 Mcycles                                                                                 |
| Operating rate        | 1200 cyc/h                                                                                 |

## Complementary

|                                 |                                                                           |
|---------------------------------|---------------------------------------------------------------------------|
| Control circuit voltage limits  | 0.2...0.75 Uc at ≤ 50 °C drop-out<br>0.85...1.1 Uc at ≤ 50 °C operational |
| Inrush power in VA              | 16 VA at 20 °C                                                            |
| Hold-in power consumption in VA | 4.2 VA at 20 °C                                                           |
| Heat dissipation                | 1.4 W at 50/60 Hz                                                         |

## Environment

|                                       |                                                          |
|---------------------------------------|----------------------------------------------------------|
| IP degree of protection               | IP2x conforming to VDE 0106                              |
| Protective treatment                  | TC conforming to DIN 50015<br>TC conforming to IEC 60068 |
| Ambient air temperature for operation | -20...50 °C                                              |
| Ambient air temperature for storage   | -50...70 °C                                              |
| Operating altitude                    | 2000 m without derating in temperature                   |
| Height                                | 56 mm                                                    |
| Width                                 | 27 mm                                                    |
| Depth                                 | 55.5 mm                                                  |
| Product weight                        | 0.132 kg                                                 |