

# LC1K0910P7

TeSys K contactor - 3P(3 NO) - AC-3 -  $\leq 440$   
V 9 A - 230 V AC coil



## Main

|                                                          |                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                                    | TeSys                                                                                                                                                                                                                                                                    |
| Product name                                             | TeSys K                                                                                                                                                                                                                                                                  |
| Contact application                                      | Motor control<br>Resistive load                                                                                                                                                                                                                                          |
| Utilisation category                                     | AC-1<br>AC-3<br>AC-4                                                                                                                                                                                                                                                     |
| Power pole contact composition                           | 3 NO                                                                                                                                                                                                                                                                     |
| [I <sub>e</sub> ] rated operational current              | 9 A at $\leq 440$ V AC AC-3 for power circuit<br>16 A ( $\leq 70$ °C) at 690 V AC AC-1 for power circuit<br>20 A ( $\leq 50$ °C) at $\leq 440$ V AC AC-1 for power circuit                                                                                               |
| Motor power kW                                           | 4 kW at 660...690 V AC 50/60 Hz<br>4 kW at 500...600 V AC 50/60 Hz<br>4 kW at 480 V AC 50/60 Hz<br>4 kW at 440 V AC 50/60 Hz<br>4 kW at 380...415 V AC 50/60 Hz<br>2.2 kW at 220...230 V AC 50/60 Hz                                                                     |
| Control circuit type                                     | AC 50/60 Hz                                                                                                                                                                                                                                                              |
| Control circuit voltage                                  | 230 V AC 50/60 Hz                                                                                                                                                                                                                                                        |
| Auxiliary contact composition                            | 1 NO                                                                                                                                                                                                                                                                     |
| Overvoltage category                                     | III                                                                                                                                                                                                                                                                      |
| [I <sub>th</sub> ] conventional free air thermal current | 10 A at $\leq 50$ °C for signalling circuit<br>20 A at $\leq 50$ °C for power circuit                                                                                                                                                                                    |
| I <sub>rms</sub> rated making capacity                   | 110 A AC for signalling circuit conforming to IEC 60947<br>110 A AC for power circuit conforming to IEC 60947<br>110 A AC for power circuit conforming to NF C 63-110                                                                                                    |
| Rated breaking capacity                                  | 70 A at 660...690 V conforming to IEC 60947<br>110 A at 380...400 V conforming to IEC 60947<br>110 A at 220...230 V conforming to IEC 60947<br>80 A at 500 V conforming to IEC 60947<br>110 A at 440 V conforming to IEC 60947<br>110 A at 415 V conforming to IEC 60947 |
| Associated fuse rating                                   | 10 A gG for signalling circuit conforming to VDE 0660<br>10 A gG for signalling circuit conforming to IEC 60947<br>25 A aM for power circuit<br>25 A gG at $\leq 440$ V for power circuit                                                                                |
| Average impedance                                        | 3 mOhm at 50 Hz - I <sub>th</sub> 20 A for power circuit                                                                                                                                                                                                                 |
| Product certifications                                   | CSA<br>UL                                                                                                                                                                                                                                                                |
| Operating time                                           | 10...20 ms coil energisation and NO closing<br>10...20 ms coil de-energisation and NO opening                                                                                                                                                                            |
| Safety reliability level                                 | B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1<br>B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1                                                                                                     |
| Operating rate                                           | 3600 cyc/h                                                                                                                                                                                                                                                               |

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## Complementary

|                                 |                                                                           |
|---------------------------------|---------------------------------------------------------------------------|
| Control circuit voltage limits  | 0.2...0.75 Uc at ≤ 50 °C drop-out<br>0.8...1.15 Uc at ≤ 50 °C operational |
| 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                                                                     |
| Auxiliary contacts type         | Type instantaneous (1 NO)                                                 |
| Signalling circuit frequency    | ≤ 400 Hz                                                                  |
| Minimum switching current       | 5 mA for signalling circuit                                               |
| Minimum switching voltage       | 17 V for signalling circuit                                               |
| Non overlap distance            | 0.5 mm                                                                    |
| Insulation resistance           | > 10 MOhm for signalling circuit                                          |

## Environment

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective treatment  | TC conforming to DIN 50016<br>TC conforming to IEC 60068                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Operating altitude    | 2000 m without derating in temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Flame retardance      | Requirement 2 conforming to NF F 16-102<br>Requirement 2 conforming to NF F 16-101<br>V1 conforming to UL 94                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Mechanical robustness | Vibrations contactor opened 2 Gn, 5...300 Hz IEC 60068-2-6<br>Vibrations contactor closed 4 Gn, 5...300 Hz IEC 60068-2-6<br>Shocks contactor opened, on Z axis 10 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 X axis 6 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 closed, on Y axis 15 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor closed, on X axis 10 Gn for 11 ms IEC 60068-2-27 |

## Offer Sustainability

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                 |
| RoHS (date code: YYWW)           | Compliant - since 0633 - <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold                                     |
| Product environmental profile    | Available <a href="#">Download Product Environmental</a>                              |
| Product end of life instructions | Need no specific recycling operations                                                 |

## Contractual warranty

|        |           |
|--------|-----------|
| Period | 18 months |
|--------|-----------|