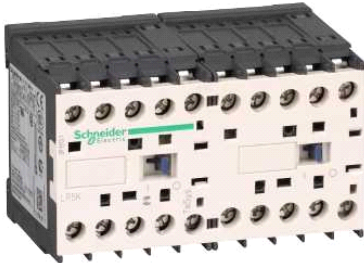


## LP5K09015BW3

TeSys K reversing contactor - 3P(3 NO) - AC-3 - <= 440 V 9 A - 24 V DC coil



### Main

|   |   |
|---|---|
| Range                                       | TeSys   |
| Product name                                | TeSys K   |
| Product or component type                   | Reversing contactor   |
| Device short name                           | LP5K  |
| Contactor application                       | Motor control<br>Resistive load   |
| Utilisation category                        | AC-1<br>AC-3<br>AC-4  |
| Device presentation                         | Preassembled with reversing power busbar  |
| 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              | 9 A at <= 440 V AC AC-3 for power circuit<br>20 A (<= 50 °C) at <= 440 V AC AC-1 for power circuit<br>16 A (<= 70 °C) at 690 V AC AC-1 for power circuit  |
| Motor power kW                              | 4 kW at 380...415 V AC 50/60 Hz<br>4 kW at 440 V AC 50/60 Hz<br>4 kW at 480 V AC 50/60 Hz<br>4 kW at 500...600 V AC 50/60 Hz<br>4 kW at 660...690 V AC 50/60 Hz<br>2.2 kW at 220...230 V AC 50/60 Hz  |
| Control circuit type                        | DC low consumption  |
| Control circuit voltage                     | 24 V DC   |
| 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 s power circuit |
| Associated fuse rating                      | 25 A gG at <= 440 V for power circuit<br>25 A aM for power circuit<br>10 A gG for signalling circuit conforming to IEC  |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

60947  
10 A gG for 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 V for power circuit conforming to UL 508<br>690 V for signalling circuit conforming to IEC 60947-4-1<br>690 V for signalling circuit conforming to IEC 60947-5-1<br>600 V for signalling circuit conforming to UL 508<br>600 V for power circuit conforming to CSA C22.2 No 14<br>600 V for signalling circuit conforming to CSA C22.2 No 14 |
| Electrical durability         | 0.18 Mcycles 20 A AC-1 at Ue <= 440 V<br>1.3 Mcycles 9 A AC-3 at Ue <= 440 V  |
| Interlocking type             | Mechanical  |
| Mounting support              | Plate<br>Rail   |
| Standards                     | BS 5424<br>IEC 60947<br>NF C 63-110<br>VDE 0660   |
| Product certifications        | CSA<br>UL   |
| Connections - terminals       | Solder pins 1.5 x 0.9 mm  |
| Operating time                | 10...20 ms coil de-energisation and NO opening<br>30...40 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  |
| Mechanical durability         | 5 Mcycles   |
| Operating rate                | 3600 cyc/h  |

## Complementary

|                                |  |
|--------------------------------|--|
| Coil technology                | Built-in bidirectional peak limiting diode suppressor                      |
| Control circuit voltage limits | 0.7...1.30 Uc at <= 50 °C operational<br>0.1...0.7 Uc at <= 50 °C drop-out |
| Inrush power in W              | 1.8 W at 20 °C   |
| Hold-in power consumption in W | 1.8 W at 20 °C   |
| Heat dissipation               | 1.8 W  |
| Auxiliary contacts type        | Type instantaneous 1 NC  |
| 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

|                                       |  |
|---------------------------------------|--|
| IP degree of protection               | IP2x conforming to VDE 0106  |
| Protective treatment                  | TC conforming to IEC 60068<br>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   |
| Mechanical robustness                 | Shocks contactor closed, on Z axis 15 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 |

Shocks contactor opened, on X axis 10 Gn for 11 ms IEC 60068-2-27  
Shocks contactor opened, on Y axis 6 Gn for 11 ms IEC 60068-2-27  
Shocks contactor closed, on X axis 15 Gn for 11 ms IEC 60068-2-27  
Shocks contactor closed, on Y axis 10 Gn for 11 ms IEC 60068-2-27

|                |         |
|----------------|---------|
| Height         | 58 mm   |
| Width          | 90 mm   |
| Depth          | 57 mm   |
| Product weight | 0.49 kg |

### Offer Sustainability

|                                  |   |
|----------------------------------|---|
| Sustainable offer status         | Green Premium product   |
| RoHS                             | Compliant - since 0825 - Schneider Electric declaration of conformity |
| REACH                            | Reference not containing SVHC above the threshold                     |
| Product environmental profile    | Available   |
| Product end of life instructions | Need no specific recycling operations                                 |