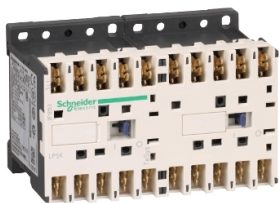


# Product data sheet

Specifications



Reversing contactor, TeSys K, 3P,  
AC-3, It or eq to 440V 6A, 1 NO,  
12VDC coil

LP5K06107JW3

! Discontinued

## Main

|                                             |                                                                                                                                                                                                                                                                          |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                       | TeSys                                                                                                                                                                                                                                                                    |
| Product Name                                | TeSys K                                                                                                                                                                                                                                                                  |
| Product Or Component Type                   | Reversing contactor                                                                                                                                                                                                                                                      |
| Device Short Name                           | LP5K                                                                                                                                                                                                                                                                     |
| Device Application                          | Control                                                                                                                                                                                                                                                                  |
| Contactor Application                       | Motor control                                                                                                                                                                                                                                                            |
| Utilisation Category                        | AC-3<br>AC-4                                                                                                                                                                                                                                                             |
| Device Presentation                         | Preassembled with reversing power busbar                                                                                                                                                                                                                                 |
| Poles Description                           | 3P                                                                                                                                                                                                                                                                       |
| Power Pole Contact Composition              | 3 NO                                                                                                                                                                                                                                                                     |
| [Ue] Rated Operational Voltage              | Power circuit 690 V AC 50/60 Hz<br>Signalling circuit <= 690 V AC 50/60 Hz                                                                                                                                                                                               |
| [Ie] Rated Operational Current              | 6 A at <= 440 V AC AC-3 for power circuit                                                                                                                                                                                                                                |
| Motor Power Kw                              | 1.5 kW 220...230 V AC 50/60 Hz<br>2.2 kW 380...415 V AC 50/60 Hz<br>3 kW 440 V AC 50/60 Hz<br>3 kW 480 V AC 50/60 Hz<br>3 kW 500...600 V AC 50/60 Hz<br>3 kW 660...690 V AC 50/60 Hz                                                                                     |
| Control Circuit Type                        | DC low consumption                                                                                                                                                                                                                                                       |
| [Uc] Control Circuit Voltage                | 12 V DC                                                                                                                                                                                                                                                                  |
| Auxiliary Contact Composition               | 1 NO                                                                                                                                                                                                                                                                     |
| [Uimp] Rated Impulse Withstand Voltage      | 8 kV                                                                                                                                                                                                                                                                     |
| Overvoltage Category                        | III                                                                                                                                                                                                                                                                      |
| [Ith] Conventional Free Air Thermal Current | 20 A (at 122 °F (50 °C)) for power circuit<br>10 A (at 122 °F (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 |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: 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

|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Icw] Rated Short-Time Withstand Current | 90 A 122 °F (50 °C) - 1 s for power circuit<br>85 A 122 °F (50 °C) - 5 s for power circuit<br>80 A 122 °F (50 °C) - 10 s for power circuit<br>60 A 122 °F (50 °C) - 30 s for power circuit<br>45 A 122 °F (50 °C) - 1 min for power circuit<br>40 A 122 °F (50 °C) - 3 min for power circuit<br>80 A - 1 s for signalling circuit<br>90 A - 500 ms for signalling circuit<br>110 A - 100 ms for signalling circuit<br>20 A 122 °F (50 °C) - >= 15 min for 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 60947<br>10 A gG for signalling circuit conforming to VDE 0660                                                                                                                                                                                                                                                                                   |
| Average Impedance                        | 3 mOhm - lth 20 A 50 Hz for power circuit                                                                                                                                                                                                                                                                                                                                                                                                                               |
| [Ui] Rated Insulation Voltage            | Power circuit 600 V UL 508<br>Power circuit 690 V IEC 60947-4-1<br>Signalling circuit 690 V IEC 60947-4-1<br>Signalling circuit 690 V IEC 60947-5-1<br>Signalling circuit 600 V UL 508<br>Power circuit 600 V CSA C22.2 No 14<br>Signalling circuit 600 V CSA C22.2 No 14                                                                                                                                                                                               |
| Electrical Durability                    | 1.3 Mcycles 6 A AC-3 <= 440 V                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Interlocking Type                        | Mechanical                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Mounting Support                         | Plate<br>Rail                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Standards                                | VDE 0660<br>IEC 60947<br>NF C 63-110<br>BS 5424                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Product Certifications                   | CB Scheme<br>CCC<br>UL<br>CSA<br>EAC<br>CE<br>UKCA                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Connections - Terminals                  | Faston terminals 2 2.8 mm<br>Faston terminals 1 6.35 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 EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1                                                                                                                                                                                                                                                                                                                                |
| Mechanical Durability                    | 5 Mcycles                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Maximum Operating Rate                   | 3600 cyc/h                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## Complementary

|                                |                                                                                                |
|--------------------------------|------------------------------------------------------------------------------------------------|
| Coil Technology                | Built-in bidirectional peak limiting diode suppressor                                          |
| Control Circuit Voltage Limits | Operational: 0.7...1.30 Uc (at <122 °F (50 °C))<br>Drop-out: 0.1...0.7 Uc (at <122 °F (50 °C)) |
| Inrush Power In W              | 1.8 W 68 °F (20 °C))                                                                           |
| Hold-In Power Consumption In W | 1.8 W 68 °F (20 °C)                                                                            |
| Heat Dissipation               | 1.8 W                                                                                          |
| Auxiliary Contacts Type        | Instantaneous 1 NO                                                                             |
| Minimum Switching Current      | 5 mA for signalling circuit                                                                    |
| Minimum Switching Voltage      | 17 V for signalling circuit                                                                    |
| Non Overlap Distance           | 0.02 in (0.5 mm)                                                                               |

|                       |                                  |
|-----------------------|----------------------------------|
| Insulation Resistance | > 10 MOhm for signalling circuit |
|-----------------------|----------------------------------|

## Environment

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ip Degree Of Protection               | IP20 VDE 0106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Protective Treatment                  | TC IEC 60068<br>TC DIN 50016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Ambient Air Temperature For Operation | -13...122 °F (-25...50 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Ambient Air Temperature For Storage   | -58...176 °F (-50...80 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Operating Altitude                    | 6561.68 ft (2000 m) without derating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 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 axis15 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27<br>Vibrations contactor closed4 Gn, 5...300 Hz IEC 60068-2-6<br>Vibrations contactor opened2 Gn, 5...300 Hz IEC 60068-2-6<br>Shocks contactor opened, on X axis10 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor opened, on Y axis6 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor closed, on X axis15 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor closed, on Y axis10 Gn for 11 ms IEC 60068-2-27 |
| Height                                | 2.28 in (58 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Width                                 | 3.54 in (90 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Depth                                 | 2.24 in (57 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Net Weight                            | 1.08 lb(US) (0.49 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Ordering and shipping details

|                   |                              |
|-------------------|------------------------------|
| Category          | 22322-CTR,K-LINE,DC,OPEN,REV |
| Discount Schedule | I12                          |
| Gtin              | 3389110501445                |
| Returnability     | No                           |

## Packing Units

|                              |     |
|------------------------------|-----|
| Unit Type Of Package 1       | PCE |
| Number Of Units In Package 1 | 1   |

## Contractual warranty

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