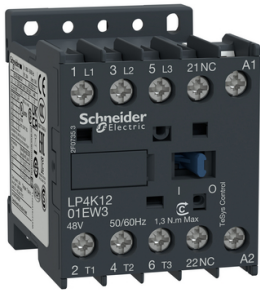


# Product datasheet

Specifications



Contactor, TeSys K, 3P, AC-3/  
AC-3e, 440V, 12A, 1NC aux, 48V  
DC low consumption coil

LP4K1201EW3

## Main

|                           |                                 |
|---------------------------|---------------------------------|
| Range                     | TeSys                           |
| Product or component type | Contactor                       |
| Device short name         | LP4K                            |
| Contactor application     | Resistive load<br>Motor control |

## Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Utilisation category                        | AC-3<br>AC-3e<br>AC-1<br>AC-4                                                                                                                                                                                                                                                                                                                                                                                                          |
| Poles description                           | 3P                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| power pole contact composition              | 3 NO                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| [Ue] rated operational voltage              | Power circuit: <= 690 V AC <= 400 Hz<br>Signalling circuit: <= 690 V AC <= 400 Hz                                                                                                                                                                                                                                                                                                                                                      |
| [Ie] rated operational current              | 12 A (at <60 °C) at <= 440 V AC AC-3 for power circuit<br>12 A (at <60 °C) at <= 440 V AC AC-3e for power circuit<br>20 A (at <60 °C) at <= 690 V AC AC-1 for power circuit                                                                                                                                                                                                                                                            |
| Control circuit type                        | DC wide range                                                                                                                                                                                                                                                                                                                                                                                                                          |
| [Uc] control circuit voltage                | 48 V DC                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Motor power kW                              | 3 kW at 220...230 V AC 50/60 Hz AC-3<br>5.5 kW at 380...415 V AC 50/60 Hz AC-3<br>5.5 kW at 440 V AC 50/60 Hz AC-3<br>4 kW at 690 V AC 50/60 Hz AC-3<br>3 kW at 220...230 V AC 50/60 Hz AC-3e<br>5.5 kW at 380...415 V AC 50/60 Hz AC-3e<br>5.5 kW at 440 V AC 50/60 Hz AC-3e<br>4 kW at 690 V AC 50/60 Hz AC-3e<br>3 kW at 220...230 V AC 50/60 Hz AC-4<br>5.5 kW at 380...415 V AC 50/60 Hz AC-4<br>5.5 kW at 440 V AC 50/60 Hz AC-4 |
| Auxiliary contact composition               | 1 NC                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| [Uimp] rated impulse withstand voltage      | 8 kV                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Overvoltage category                        | III                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| [Ith] conventional free air thermal current | 20 A (at 60 °C) for power circuit<br>10 A (at 50 °C) for signalling circuit                                                                                                                                                                                                                                                                                                                                                            |
| Irms rated making capacity                  | 144 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 440 V conforming to IEC 60947<br>80 A at 500 V conforming to IEC 60947<br>70 A at 660...690 V conforming to IEC 60947                                                                                                                                                                                                                                                                                                         |

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

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

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>[Icw] rated short-time withstand current</b> | 115 A 50 °C - 1 s for power circuit<br>105 A 50 °C - 5 s for power circuit<br>100 A 50 °C - 10 s for power circuit<br>75 A 50 °C - 30 s for power circuit<br>55 A 50 °C - 1 min for power circuit<br>50 A 50 °C - 3 min for power circuit<br>25 A 50 °C - >= 15 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                                                                                        |
| <b>Associated fuse rating</b>                   | 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                                                                                                                                                                                                                                                                                                              |
| <b>Average impedance</b>                        | 3 mOhm - lth 20 A 50 Hz for power circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>[Ui] rated insulation voltage</b>            | Power circuit: 600 V conforming to UL 508<br>Power circuit: 690 V conforming to IEC 60947-4-1<br>Signalling circuit: 690 V conforming to IEC 60947-4-1<br>Signalling circuit: 690 V conforming to IEC 60947-5-1<br>Signalling circuit: 600 V conforming to UL 508<br>Power circuit: 600 V conforming to CSA C22.2 No 14<br>Signalling circuit: 600 V conforming to CSA C22.2 No 14                                                                                                                 |
| <b>Insulation resistance</b>                    | > 10 MOhm for signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Inrush power in W</b>                        | 1.8 W (at 20 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Hold-in power consumption in W</b>           | 1.8 W at 20 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Heat dissipation</b>                         | 1.8 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Control circuit voltage limits</b>           | Operational: 0.7...1.3 Uc (at <50 °C)<br>Drop-out: >= 0.10 Uc (at <50 °C)                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Connections - terminals</b>                  | Screw clamp terminals 1 cable(s) 1.5...4 mm²solid<br>Screw clamp terminals 1 cable(s) 0.75...4 mm²flexible without cable end<br>Screw clamp terminals 1 cable(s) 0.34...2.5 mm²flexible with cable end<br>Screw clamp terminals 2 cable(s) 1.5...4 mm²solid<br>Screw clamp terminals 2 cable(s) 0.75...4 mm²flexible without cable end<br>Screw clamp terminals 2 cable(s) 0.34...1.5 mm²flexible with cable end<br>Power circuit: screw clamp terminals 2 cable(s) 1.5 mm²flexible with cable end |
| <b>Maximum operating rate</b>                   | 3600 cyc/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Coil technology</b>                          | With integral suppression device                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Auxiliary contacts type</b>                  | type instantaneous 1 NC                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Minimum switching current</b>                | 5 mA for signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Minimum switching voltage</b>                | 17 V for signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Mounting support</b>                         | Plate<br>Rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Tightening torque</b>                        | 0.8...1.3 N.m - on screw clamp terminals Philips No 2<br>0.8...1.3 N.m - on screw clamp terminals flat Ø 6 mm<br>0.8...1.3 N.m - on screw clamp terminals pozidriv No 2                                                                                                                                                                                                                                                                                                                            |
| <b>Operating time</b>                           | 10...20 ms coil de-energisation and NO opening<br>30...40 ms coil energisation and NO closing                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Safety reliability level</b>                 | 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                                                                                                                                                                                                                                                                                                                               |
| <b>Mechanical durability</b>                    | 30 Mcycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Electrical durability</b>                    | 1.3 Mcycles 12 A AC-3 at Ue <= 440 V<br>1.3 Mcycles 12 A AC-3e at Ue <= 440 V<br>0.3 Mcycles 20 A AC-1 at Ue <= 690 V<br>0.02 Mcycles 72 A AC-4 at Ue <= 440 V                                                                                                                                                                                                                                                                                                                                     |
| <b>Height</b>                                   | 58 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Width</b>                                    | 45 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

|            |          |
|------------|----------|
| Depth      | 57 mm    |
| Net weight | 0.235 kg |

## Environment

|                                       |                                                                                                                                          |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | EN/IEC 60947-4-1<br>EN/IEC 60947-5-1<br>UL 60947-4-1<br>UL 60947-5-1<br>CSA C22.2 No 60947-4-1<br>CSA C22.2 No 60947-5-1<br>GB/T 14048.4 |
| Product certifications                | CB Scheme<br>CCC<br>UL<br>CSA<br>EAC<br>CE<br>UKCA                                                                                       |
| IP degree of protection               | IP2X                                                                                                                                     |
| Ambient air temperature for operation | -25...50 °C                                                                                                                              |
| Ambient air temperature for storage   | -50...80 °C                                                                                                                              |
| Operating altitude                    | 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                             |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 6.500 cm  |
| Package 1 Width              | 4.600 cm  |
| Package 1 Length             | 6.100 cm  |
| Package 1 Weight             | 235.000 g |
| Unit Type of Package 2       | S02       |
| Number of Units in Package 2 | 40        |
| Package 2 Height             | 15.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 9.855 kg  |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

|                                                        |                |
|--------------------------------------------------------|----------------|
| Total lifecycle Carbon footprint                       | 77 kg CO2 eq.  |
| Carbon footprint of the manufacturing phase [A1 to A3] | 1 kg CO2 eq.   |
| Carbon footprint of the distribution phase [A4]        | 0.1 kg CO2 eq. |
| Carbon footprint of the installation phase [A5]        | 0 kg CO2 eq.   |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 75 kg CO2 eq.  |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 0.4 kg CO2 eq. |

## Use Better



### Materials and Substances

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| Packaging made with recycled cardboard | Yes                               |
| Packaging without single use plastic   | Yes                               |
| <a href="#">EU RoHS Directive</a>      | Compliant                         |
| REACH Regulation                       | <a href="#">REACH Declaration</a> |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



### Repack and remanufacture

|                                 |                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recyclability potential, in %   | 64                                                                                                                                                                                                              |
| End of life manual availability | <a href="#">End of Life Information</a>                                                                                                                                                                         |
| Take-back                       | No                                                                                                                                                                                                              |
| WEEE Label                      |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Offer Marketing Illustration

Product benefits / Features

TeSys K  
Technical Benefits



- Built-in in all 3 pole versions: 1NO or 1NC
- Up to 4 more by add-on blocks
- Up to 16 A for motor control (AC3/ AC3E) and 20A for resistive load control (AC1)
- Available as single contactors, star-delta, and reversing combos, with a wealth of options and accessories
- Control Options:
  - AC: 24 to 660/690 V, standard or low-noise versions
  - DC: 12 to 250V, standard or low consumption (1.8 W) versions
- Thermal protection relays
- It Features specific versions for railway (TeSys S207) and electrodomeestic (TeSys S335) applications

Offer Marketing Illustration

Product benefits / Features

TeSys K  
Contactors



Flexibility

Designed with control voltages, low consumption, minimal noise levels, robust power connections, and a range of auxiliaries, and application-specific variants to meet diverse needs.



Safety

It provide ultimate protection with IP20 finger-safe terminals, built-in NO/NC auxiliary contacts, and IEC-certified mirror and mechanically linked contacts for safety applications.



Compact size

Up to 50% less volume is captured in your panels. One of he smallest contactors offerings in the market



Technical Illustration

Assembly's dimensions

