

# LP1K0910GD

TeSys K contactor - 3P - AC-3  $\leq$  440 V 9 A - 1  
NO aux. - 125 V DC coil



Price\* : 30.84 GBP



## Main

|                                |                                                                                                                                                                                |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product               | TeSys K                                                                                                                                                                        |
| Range                          | TeSys                                                                                                                                                                          |
| Product or component type      | Contactor                                                                                                                                                                      |
| Device short name              | LP1K                                                                                                                                                                           |
| Contactor application          | Motor control<br>Resistive load                                                                                                                                                |
| Utilisation category           | AC-4<br>AC-3<br>AC-1                                                                                                                                                           |
| Poles description              | 3P                                                                                                                                                                             |
| Pole contact composition       | 3 NO                                                                                                                                                                           |
| [Ie] rated operational current | 20 A (at $\leq 50$ °C) at $\leq 440$ V AC AC-1 for power circuit<br>9 A at $\leq 440$ V AC AC-3 for power circuit<br>16 A (at $\leq 70$ °C) at 690 V AC AC-1 for power circuit |
| Auxiliary contact composition  | 1 NO                                                                                                                                                                           |

## Complementary

|                                        |                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Auxiliary contacts type                | type instantaneous 1 NO                                                                                                                                                                                                                                                                                                                                                            |
| Control circuit voltage limits         | Operational: 0.8...1.15 $U_c$ (at $\leq 50$ °C)<br>Drop-out: 0.1...0.75 $U_c$ (at $\leq 50$ °C)                                                                                                                                                                                                                                                                                    |
| [Ui] rated insulation voltage          | 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 |
| [Uimp] rated impulse withstand voltage | 8 kV                                                                                                                                                                                                                                                                                                                                                                               |
| Overvoltage category                   | III                                                                                                                                                                                                                                                                                                                                                                                |
| Mounting support                       | Plate                                                                                                                                                                                                                                                                                                                                                                              |

## Rail

|                                             |                                                                                                                                                                                                                                                                          |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                                             |
| Tightening torque                           | 1.3 N.m - on screw clamp terminals - with screwdriver Philips No 2<br>1.3 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm                                                                                                                                  |
| [Ue] rated operational voltage              | Power circuit: 690 V AC 50/60 Hz<br>Signalling circuit: ≤ 690 V AC 50/60 Hz                                                                                                                                                                                              |
| [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 |
| 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 - Ith 20 A 50 Hz for power circuit                                                                                                                                                                                                                                |
| Inrush power in W                           | 3 W (at 20 °C)                                                                                                                                                                                                                                                           |
| Hold-in power consumption in W              | 3 W at 20 °C                                                                                                                                                                                                                                                             |
| Operating time                              | 30...40 ms coil energisation and NO closing<br>10 ms coil de-energisation and NO opening                                                                                                                                                                                 |
| 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                       | 10 Mcycles                                                                                                                                                                                                                                                               |
| Maximum operating rate                      | 3600 cyc/h                                                                                                                                                                                                                                                               |
| Minimum switching current                   | 5 mA for signalling circuit                                                                                                                                                                                                                                              |
| Minimum switching voltage                   | 17 V for signalling circuit                                                                                                                                                                                                                                              |
| Insulation resistance                       | > 10 MOhm for signalling circuit                                                                                                                                                                                                                                         |
| Height                                      | 58 mm                                                                                                                                                                                                                                                                    |
| Width                                       | 45 mm                                                                                                                                                                                                                                                                    |
| Depth                                       | 57 mm                                                                                                                                                                                                                                                                    |
| Product weight                              | 0.225 kg                                                                                                                                                                                                                                                                 |

## Environment

|                                       |                |
|---------------------------------------|----------------|
| Product certifications                | UL<br>CSA      |
| Ambient air temperature for operation | -25...50 °C    |
| Ambient air temperature for storage   | -50...80 °C    |
| Operating altitude                    | 2000 m without |

## Offer Sustainability

|                            |                                                                                                                       |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                 |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                     |
| REACH free of SVHC         | Yes                                                                                                                   |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a>                                                                      |
| Mercury free               | Yes                                                                                                                   |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                   |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                         |

|                     |                                                                                                                             |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Circularity Profile | <a href="#">End of Life Information</a>                                                                                     |
| WEEE                | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

### Contractual warranty

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