

## LC1K09008W7

TeSys K contactor - 4P(2 NO + 2 NC) - AC-1 - <= 440 V 20 A - 256 V AC coil



### Main

|   |   |
|---|---|
| Range                                       | TeSys   |
| Product name                                | TeSys K   |
| Contacteur application                      | Resistive load  |
| Utilisation category                        | AC-1  |
| Poles description                           | 4P  |
| Pole contact composition                    | 2 NO + 2 NC   |
| [Ue] rated operational voltage              | 690 V AC 50/60 Hz for power circuit   |
| Control circuit type                        | AC 50/60 Hz   |
| Control circuit voltage                     | 256 V AC 50/60 Hz   |
| [Uimp] rated impulse withstand voltage      | 8 kV  |
| Overtoltage category                        | III   |
| [Ith] conventional free air thermal current | 20 A at <= 50 °C for power 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  |
| 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>20 A <= 50 °C >= 15 s power circuit   |
| Associated fuse rating                      | 25 A gG at <= 440 V for power circuit<br>25 aM for power circuit  |
| Average impedance                           | 3 mOhm at 50 Hz - Ith 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>600 V for power circuit conforming to CSA C22.2 No 14  |
| Electrical durability                       | 0.18 Mcycles 20 A AC-1 at Ue <= 440 V   |
| 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                     | Screw clamp terminals 1 cable(s) 1.5...4 mm <sup>2</sup> - cable stiffness: solid<br>Screw clamp terminals 1 cable(s) 0.75...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Screw clamp terminals 1 cable(s) 0.34...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Screw clamp terminals 2 cable(s) 1.5...4 mm <sup>2</sup> - cable stiffness: solid<br>Screw clamp terminals 2 cable(s) 0.75...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Screw clamp terminals 2 cable(s) 0.34...1.5 mm <sup>2</sup> - |

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|                          |   |
|--------------------------|---|
|                          | cable stiffness: flexible - with cable end  |
| 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   |
| Operating time           | 10...20 ms coil de-energisation and NO opening<br>5...15 ms coil energisation and NC opening<br>10...20 ms coil energisation and NO closing<br>15...25 ms coil de-energisation and NC 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    | 10 Mcycles  |
| Operating rate           | 3600 cyc/h  |

## 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   |
| Signalling circuit frequency    | <= 400 Hz   |

## 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 X axis 10 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 Z axis 15 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 opened, on Y axis 10 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 |
| Depth                                 | 57 mm   |

## Offer Sustainability

|                                  |   |
|----------------------------------|---|
| Sustainable offer status         | Not Green Premium product   |
| RoHS                             | Compliant - since 0640 - Schneider Electric declaration of conformity |
| Product end of life instructions | Need no specific recycling operations                                 |