





## Teknisk informasjon

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Serie                                     | TeSys                                                                                                                                                                                                                                                                                                                                                                                                   |
| Produktnavn                               | TeSys K                                                                                                                                                                                                                                                                                                                                                                                                 |
| Produkt eller type komponent              | Dreieretningskontaktør                                                                                                                                                                                                                                                                                                                                                                                  |
| Kortnavn utstyr                           | LP2K                                                                                                                                                                                                                                                                                                                                                                                                    |
| Applikasjon                               | Kontroll                                                                                                                                                                                                                                                                                                                                                                                                |
| Contacteur application                    | Motor control                                                                                                                                                                                                                                                                                                                                                                                           |
| Driftskategori                            | AC-4<br>AC-3                                                                                                                                                                                                                                                                                                                                                                                            |
| Enhetens utseende                         | Preassembled med rygging makt samleskinne                                                                                                                                                                                                                                                                                                                                                               |
| Antall poler                              | 3P                                                                                                                                                                                                                                                                                                                                                                                                      |
| Power pole contact composition            | 3 NO                                                                                                                                                                                                                                                                                                                                                                                                    |
| [Ue] merkespenning                        | Power circuit: 690 V AC 50/60 Hz<br>Signalling circuit: ≤ 690 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                             |
| [Ie] nominell driftsstrøm                 | 6 A at ≤ 440 V AC AC-3 for power circuit                                                                                                                                                                                                                                                                                                                                                                |
| Motoreffekt kW                            | 1.5 kW at 220...230 V AC 50/60 Hz<br>2.2 kW at 380...415 V AC 50/60 Hz<br>3 kW at 440 V AC 50/60 Hz<br>3 kW at 480 V AC 50/60 Hz<br>3 kW at 500...600 V AC 50/60 Hz<br>3 kW at 660...690 V AC 50/60 Hz                                                                                                                                                                                                  |
| Kontrollkretstype                         | DC Standard                                                                                                                                                                                                                                                                                                                                                                                             |
| Styrespenning                             | 24 V DC                                                                                                                                                                                                                                                                                                                                                                                                 |
| Hjelpekontakt sammensetning               | 1 NO                                                                                                                                                                                                                                                                                                                                                                                                    |
| [Uimp] Nominell impulsspenning            | 8 kV                                                                                                                                                                                                                                                                                                                                                                                                    |
| Overspenningskategori                     | III                                                                                                                                                                                                                                                                                                                                                                                                     |
| [Ith] fri luft termisk strøm              | 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] kort-tids/ kortslutnings merkestrøm | 90 A 50 °C - 1 s for power circuit<br>85 A 50 °C - 5 s for power circuit<br>80 A 50 °C - 10 s for power circuit<br>60 A 50 °C - 30 s for power circuit<br>45 A 50 °C - 1 min for power circuit<br>40 A 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 50 °C - ≥ 15 min for power circuit |
| Sikringsstørrelse                         | 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                                                                                                                                                                                                                    |
| Gjennomsnittlig impedanse                 | 3 mOhm - Ith 20 A 50 Hz for power circuit                                                                                                                                                                                                                                                                                                                                                               |

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| [Ui] isolasjonsspenning     | Hovedstrøm: 600 V i samsvar med UL 508<br>Hovedstrøm: 690 V i samsvar med 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                                                                                                                   |
| Elektrisk levetid           | 1.3 Mcycles 6 A AC-3 at $U_e \leq 440$ V                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Type låsing                 | Mechanical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Montering                   | Plate<br>Skinne                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Standarder                  | BS 5424<br>VDE 0660<br>NF C 63-110<br>IEC 60947                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Produktsertifikater         | UL<br>CSA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Tilkoblingsklemmer          | Screw clamp terminals 1 cable(s) 1.5...4 mm <sup>2</sup> solid<br>Screw clamp terminals 1 cable(s) 0.75...4 mm <sup>2</sup> flexible without cable end<br>Screw clamp terminals 1 cable(s) 0.34...2.5 mm <sup>2</sup> flexible with cable end<br>Screw clamp terminals 2 cable(s) 1.5...4 mm <sup>2</sup> solid<br>Screw clamp terminals 2 cable(s) 0.75...4 mm <sup>2</sup> flexible without cable end<br>Screw clamp terminals 2 cable(s) 0.34...1.5 mm <sup>2</sup> flexible with cable end |
| Tiltrekningsmoment          | 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                                                                                                                                                                                                                                                                                                                                                        |
| Driftstid                   | 30...40 ms spiral energitilførselen og NO lukking<br>10 ms spiral de-energitilførselen og ingen åpning                                                                                                                                                                                                                                                                                                                                                                                         |
| Sikkerhet pålitelighet nivå | B10d = 1369863 sykluser kontaktor med nominell last i samsvar med EN/ISO 13849-1<br>B10d = 20000000 sykluser kontaktor med mekanisk belastning i samsvar med EN/ISO 13849-1                                                                                                                                                                                                                                                                                                                    |
| Mekanisk levetid            | 5 Mcycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Bruksområde                 | 3600 cyc/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## Komplementær

|                                |                                                                                         |
|--------------------------------|-----------------------------------------------------------------------------------------|
| Control circuit voltage limits | Operational: 0.8...1.15 $U_c$ (at $<50$ °C)<br>Drop-out: 0.1...0.75 $U_c$ (at $<50$ °C) |
| Inrush power in W              | 3 W 20 °C)                                                                              |
| Hold-in strømforbruk i W       | 3 W at 20 °C                                                                            |
| Varmeavgivelse                 | 3 W                                                                                     |
| Auxiliary contacts type        | Type instantaneous 1 NO                                                                 |
| Minimum brytestrøm             | 5 mA for signale krets                                                                  |
| Minimum switching voltage      | 17 V for signale krets                                                                  |
| Non overlapping avstand        | 0.5 mm                                                                                  |
| Isolasjonsmotstand             | > 10 MOhm for signale krets                                                             |

## Miljø

|                                  |                                                                                                              |
|----------------------------------|--------------------------------------------------------------------------------------------------------------|
| IP-grad                          | IP20 conforming to VDE 0106                                                                                  |
| Protective treatment             | TC conforming to IEC 60068<br>TC conforming to DIN 50016                                                     |
| Omgivelsestemperatur drift       | -25...50 °C                                                                                                  |
| Omgivelsestemperatur for lagring | -50...80 °C                                                                                                  |
| Operating altitude               | 2000 m without derating                                                                                      |
| Flammehemming                    | V1 i samsvar med UL 94<br>Requirement 2 conforming to NF F 16-101<br>Requirement 2 conforming to NF F 16-102 |

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|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mekanisk robusthet | Shocks contactor closed, on Z axis: 15 Gn for 11 ms conforming to IEC 60068-2-27<br>Shocks contactor opened, on Z axis: 10 Gn for 11 ms conforming to IEC 60068-2-27<br>Vibrations contactor closed: 4 Gn, 5...300 Hz conforming to IEC 60068-2-6<br>Vibrations contactor opened: 2 Gn, 5...300 Hz conforming to IEC 60068-2-6<br>Shocks contactor opened, on X axis: 10 Gn for 11 ms conforming to IEC 60068-2-27<br>Shocks contactor opened, on Y axis: 6 Gn for 11 ms conforming to IEC 60068-2-27<br>Shocks contactor closed, on X axis: 15 Gn for 11 ms conforming to IEC 60068-2-27<br>Shocks contactor closed, on Y axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 |
| Høyde              | 58 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Bredde             | 90 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Dybde              | 57 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Vekt               | 0,48 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Packing Units

|                             |         |
|-----------------------------|---------|
| Enhetsstype forpakning 1    | PCE     |
| Antall enheter forpakning 1 | 1       |
| Forpakning 1 vekt           | 443 g   |
| Forpakning 1 høyde          | 6 cm    |
| Forpakning 1 bredde         | 6,5 cm  |
| Forpakning 1 lengde         | 9,2 cm  |
| Enhetsstype forpakning 2    | S02     |
| Antall enheter forpakning 2 | 20      |
| Forpakning 2 vekt           | 9,26 kg |
| Forpakning 2 høyde          | 15 cm   |
| Forpakning 2 bredde         | 30 cm   |
| Forpakning 2 lengde         | 40 cm   |

## Offer Sustainability

|                              |                                                                                                                                  |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Produktets miljøstatus       | Green Premium miljømerket produkt                                                                                                |
| REACH-regelverk              |  <a href="#">REACH-erklæring</a>              |
| REACH fri for SVHC           | Ja                                                                                                                               |
| EU RoHS-direktiv             | I samsvar  <a href="#">EU RoHS-erklæring</a>  |
| Fri for giftige tungmetaller | Ja                                                                                                                               |
| Kvikksølvfri                 | Ja                                                                                                                               |
| Informasjon om RoHS-unntak   |  Ja                                           |
| Kinas RoHS-forskrift         |  <a href="#">Kinas RoHS-Erklæring</a>         |
| Miljøinformasjon             |  <a href="#">Produktmiljøprofil</a>           |
| Produktets livssyklus        |  <a href="#">Informasjon Om Levetidsslutt</a> |
| WEEE                         | Innen EU må produktet avhendes i henhold til bestemte regler for avfallshåndtering og aldri kastes som husholdningsavfall.       |

## Garantiperiode

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|---------|-----------|
| Garanti | 18 months |
|---------|-----------|