TeSys D changeover contactor - 4P(4NO) -AC-1 - <= $440 \mathrm{~V} 25 \mathrm{~A}-120 \mathrm{~V}$ AC coil


| Range of product | TeSys D |
| :---: | :---: |
| Product or component type | Changeover contactor |
| Device short name | LC2D |
| Contactor application | Resistive load |
| Utilisation category | AC-1 |
| Device presentation | Preassembled with reversing power busbar |
| Poles description | 4P |
| Power pole contact composition | 4 NO |
| [Ue] rated operational voltage | $\begin{aligned} & \text { <= } 690 \text { V DC for power circuit } \\ & <=690 \text { V AC } 25 . . .400 \mathrm{~Hz} \text { for power circuit } \end{aligned}$ |
| [le] rated operational current | $25 \mathrm{~A}\left(<=60^{\circ} \mathrm{C}\right.$ ) at $<=440$ V AC AC-1 for power circuit |
| Control circuit type | AC 50/60 Hz |
| Control circuit voltage | 120 V AC 50/60 Hz |
| Auxiliary contact composition | $1 \mathrm{NO}+1 \mathrm{NC}$ |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 60947 |
| Overvoltage category | III |
| [lth] conventional free air thermal current | 25 A at $<=60^{\circ} \mathrm{C}$ for power circuit 10 A at $<=60^{\circ} \mathrm{C}$ for signalling circuit |
| Irms rated making capacity | 250 A DC for signalling circuit conforming to IEC 60947-5-1 <br> 140 A AC for signalling circuit conforming to IEC 60947-5-1 <br> 250 A at 440 V for power circuit conforming to IEC 60947 |
| Rated breaking capacity | 250 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] rated short-time withstand current | 140 A 100 ms signalling circuit 120 A 500 ms signalling circuit 100 A 1 s signalling circuit $210 \mathrm{~A}<=40^{\circ} \mathrm{C} 1 \mathrm{~s}$ power circuit $105 \mathrm{~A}<=40^{\circ} \mathrm{C} 10$ s power circuit $61 \mathrm{~A}<=40^{\circ} \mathrm{C} 1 \mathrm{~min}$ power circuit $30 \mathrm{~A}<=40^{\circ} \mathrm{C} 10 \mathrm{~min}$ power circuit |
| Associated fuse rating | 25 A gG at <= 690 V coordination type 2 for power circuit <br> 40 A gG at <= 690 V coordination type 1 for power circuit <br> 10 A gG for signalling circuit conforming to IEC 60947-5-1 |
| Average impedance | 2.5 mOhm at 50 Hz - Ith 25 A for power circuit |
| [Ui] rated insulation voltage | $\begin{aligned} & 600 \mathrm{~V} \text { for signalling circuit certifications UL } \\ & 600 \mathrm{~V} \text { for signalling circuit certifications CSA } \\ & 690 \mathrm{~V} \text { for signalling circuit conforming to IEC } \\ & 60947-1 \\ & 600 \mathrm{~V} \text { for power circuit certifications UL } \\ & 600 \mathrm{~V} \text { for power circuit certifications CSA } \\ & 690 \mathrm{~V} \text { for power circuit conforming to IEC 60947-4-1 } \end{aligned}$ |
| Electrical durability | 0.8 Mcycles $25 \mathrm{~A} \mathrm{AC}-1$ at $\mathrm{Ue}<=440 \mathrm{~V}$ |
| Power dissipation per pole | 1.56 W AC-1 |
| Safety cover | With |
| Interlocking type | Mechanical |


| Mounting support | Plate Rail |
| :---: | :---: |
| Standards | EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 CSA C22.2 n ${ }^{\circ} 14$ |
| Product certifications | BV <br> CCC <br> CSA <br> DNV <br> GL <br> GOST <br> RINA <br> UL <br> LROS |
| Connections - terminals | Control circuit: screw clamp terminals 2 cable(s) <br> $1 . . .4 \mathrm{~mm}^{2}$ - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) <br> $1 . . .4 \mathrm{~mm}^{2}$ - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) <br> $1 . . .2 .5 \mathrm{~mm}^{2}$ - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) <br> $1 . .4 \mathrm{~mm}^{2}$ - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) <br> $1 . . .4 \mathrm{~mm}^{2}$ - cable stiffness: flexible - without cable end <br> Control circuit: screw clamp terminals 1 cable(s) <br> $1 . .4 \mathrm{~mm}^{2}$ - cable stiffness: flexible - without cable end <br> Power circuit: screw clamp terminals 2 cable(s) $1 . . .4$ $\mathrm{mm}^{2}$ - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 1 cable(s) $1 . . .4$ $\mathrm{mm}^{2}$ - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 2 cable(s) <br> $1 \ldots 2.5 \mathrm{~mm}^{2}$ - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) $1 . . .4$ $\mathrm{mm}^{2}$ - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) $1 . . .4$ $\mathrm{mm}^{2}$ - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable(s) $1 . . .4$ $\mathrm{mm}^{2}$ - cable stiffness: flexible - without cable end |
| Tightening torque | Control circuit: 1.7 N.m - on screw clamp terminals with screwdriver Philips No 2 <br> Control circuit: 1.7 N.m - on screw clamp terminals with screwdriver flat $\varnothing 6 \mathrm{~mm}$ <br> Power circuit: 1.7 N.m - on screw clamp terminals with screwdriver Philips No 2 <br> Power circuit: 1.7 N.m - on screw clamp terminals with screwdriver flat $\varnothing 6 \mathrm{~mm}$ |
| Operating time | $4 . .19 \mathrm{~ms}$ opening $12 . . .22 \mathrm{~ms}$ closing |
| Safety reliability level | B10d $=20000000$ cycles contactor with mechanical load conforming to EN/ISO 13849-1 <br> $B 10 d=1369863$ cycles contactor with nominal load conforming to EN/ISO 13849-1 |
| Mechanical durability | 15 Mcycles |
| Operating rate | $3600 \mathrm{cyc} / \mathrm{h}$ at $<=60^{\circ} \mathrm{C}$ |

Complementary

| Coil technology | Without built-in suppressor module |
| :--- | :--- |
| Control circuit voltage limits | $0.85 \ldots 1.1 \mathrm{Uc}$ at $60^{\circ} \mathrm{C}$ operational 60 Hz |
|  | $0.8 \ldots 1.1 \mathrm{Uc}$ at $60^{\circ} \mathrm{C}$ operational 50 Hz |
| Inrush power in VA | $0.3 \ldots 0.6 \mathrm{Uc}$ at $60^{\circ} \mathrm{C}$ drop-out $50 / 60 \mathrm{~Hz}$ |
|  | 70 VA at $20^{\circ} \mathrm{C}(\cos \phi 0.75) 50 \mathrm{~Hz}$ |
| Hold-in power consumption in VA | 70 VA at $20^{\circ} \mathrm{C}(\cos \phi 0.75) 60 \mathrm{~Hz}$ |
| Heat dissipation | 7 VA at $20^{\circ} \mathrm{C}(\cos \phi 0.3) 50 \mathrm{~Hz}$ |
| Auxiliary contacts type | 7.5 VA at $20^{\circ} \mathrm{C}(\cos \phi 0.3) 60 \mathrm{~Hz}$ |
|  | $2 \ldots .3 \mathrm{~W}$ at $50 / 60 \mathrm{~Hz}$ |


| Signalling circuit frequency | $25 \ldots 400 \mathrm{~Hz}$ |
| :--- | :--- |
| Minimum switching current | 5 mA for signalling circuit |
| Minimum switching voltage | 17 V for signalling circuit |
| Non-overlap time | 1.5 ms on energisation (between NC and NO contact) |
|  | 1.5 ms on de-energisation (between NC and NO contact) |
| Insulation resistance | $>10 \mathrm{MOhm}$ for signalling circuit |

Environment

| IP degree of protection | IP2x front face conforming to IEC 60529 |
| :--- | :--- |
| Protective treatment | TH conforming to IEC $60068-2-30$ |
| Pollution degree | 3 |
| Ambient air temperature for operation | $-5 \ldots . .60^{\circ} \mathrm{C}$ |
| Ambient air temperature for storage | $-60 \ldots 80^{\circ} \mathrm{C}$ |
| Permissible ambient air temperature around the de- | $-40 \ldots . .70^{\circ} \mathrm{C}$ at Uc |
| vice | 3000 m without derating in temperature |
| Operating altitude | $850^{\circ} \mathrm{C}$ conforming to IEC $60695-2-1$ |
| Fire resistance | V1 conforming to UL 94 |
| Flame retardance | Shocks contactor closed 15 Gn for 11 ms |
| Mechanical robustness | Shocks contactor open 10 Gn for 11 ms |
|  | Vibrations contactor closed $4 \mathrm{Gn}, 5 \ldots 300 \mathrm{~Hz}$ |
|  | Vibrations contactor open $2 \mathrm{Gn}, 5 \ldots 300 \mathrm{~Hz}$ |
| Height | 85 mm |
| Width | 90 mm |
| Depth | 90 mm |
| Product weight | 0.73 kg |

Offer Sustainability

| Sustainable offer status | Not Green Premium product |
| :--- | :--- |
| RoHS | Compliant - since 0711-Schneider Electric declaration of conformity <br> declaration of conformity |
| Product environmental profile | Available |
| Product end of life instruction | Need no specific recycling operations |

