TeSys D reversing contactor - 3P(3 NO) - AC-3 - <= 440 V 12 A - 24 V DC coil


| Commercial Status | Commercialised |
| :---: | :---: |
| Range of product | TeSys D |
| Product or component type | Reversing contactor |
| Device short name | LC2D |
| Contactor application | Motor control Resistive load |
| Utilisation category | $\begin{aligned} & \text { AC-1 } \\ & \text { AC-3 } \end{aligned}$ |
| Device presentation | Preassembled with reversing power busbar |
| Poles description | 3P |
| Power pole contact composition | 3 NO |
| [Ue] rated operational voltage | <= 300 V DC for power circuit <br> <= 690 V AC $25 . . .400 \mathrm{~Hz}$ for power circuit |
| [le] rated operational current | $12 \mathrm{~A}\left(<=60^{\circ} \mathrm{C}\right.$ ) at $<=440 \mathrm{~V}$ AC AC-3 for power circuit <br> $25 \mathrm{~A}\left(<=60^{\circ} \mathrm{C}\right)$ at $<=440 \mathrm{~V}$ AC AC-1 for power circuit |
| Motor power kW | 7.5 kW at 660 ... 690 V AC $50 / 60 \mathrm{~Hz}$ 7.5 kW at 500 V AC $50 / 60 \mathrm{~Hz}$ 5.5 kW at $415 . . .440 \mathrm{~V}$ AC $50 / 60 \mathrm{~Hz}$ 5.5 kW at 380 ... 400 V AC $50 / 60 \mathrm{~Hz}$ 3 kW at $220 \ldots 230 \mathrm{~V}$ AC $50 / 60 \mathrm{~Hz}$ |
| Motor power HP (UL / CSA) | 10 hp at 575/600 V AC $50 / 60 \mathrm{~Hz}$ for 3 phases motors <br> 7.5 hp at $460 / 480 \mathrm{~V}$ AC $50 / 60 \mathrm{~Hz}$ for 3 phases motors <br> 3 hp at 230/240 V AC 50/60 Hz for 3 phases motors 3 hp at 200/208 V AC $50 / 60 \mathrm{~Hz}$ for 3 phases motors 2 hp at $230 / 240 \mathrm{~V}$ AC $50 / 60 \mathrm{~Hz}$ for 1 phase motors 1 hp at 115 V AC $50 / 60 \mathrm{~Hz}$ for 1 phase motors |
| Control circuit type | DC low consumption |
| Control circuit voltage | 24 V DC |
| Auxiliary contact composition | 1 NO + 1 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 | ```6 0 0 ~ V ~ f o r ~ s i g n a l l i n g ~ c i r c u i t ~ c e r t i f i c a t i o n s ~ U L ~ 6 0 0 \mathrm { V } \text { for signalling circuit certifications CSA} 690 V for signalling circuit conforming to IEC 60947-1 6 0 0 \mathrm { V } \text { for power circuit certifications UL} 600 V for power circuit certifications CSA 690 V for power circuit conforming to IEC 60947-4-1``` |
| Electrical durability | 0.8 Mcycles $25 \mathrm{~A} \mathrm{AC}-1$ at $\mathrm{Ue}<=440 \mathrm{~V}$ 2 Mcycles 12 A AC-3 at Ue <= 440 V |
| Power dissipation per pole | $\begin{aligned} & 0.36 \text { W AC-3 } \\ & 1.56 \text { W AC-1 } \end{aligned}$ |
| Safety cover | With |
| Interlocking type | Mechanical |
| Mounting support | Plate <br> Rail |
| Standards | EN 60947-4-1 <br> EN 60947-5-1 <br> IEC 60947-4-1 <br> IEC 60947-5-1 <br> UL 508 <br> CSA C22.2 No 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) $1 . . .4 \mathrm{~mm}^{2}$ - 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> $1 . .2 .5 \mathrm{~mm}^{2}$ - 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 $\varnothing 6 \mathrm{~mm}$ 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 | $20 . .30 \mathrm{~ms}$ opening 65.45 ... 88.55 ms closing |


| Safety reliability level | B10d $=20000000$ cycles contactor with mechanical <br> load conforming to EN/ISO 13849-1 <br> B10d $=1369863$ cycles contactor with nominal load <br> conforming to EN/ISO 13849-1 |
| :--- | :--- |
| Mechanical durability | 30 Mcycles |
| Operating rate | 3600 cyc $/ \mathrm{h}$ at $<=60^{\circ} \mathrm{C}$ |

Complementary

| Coil technology | Built-in bidirectional peak limiting diode suppressor |
| :--- | :--- |
| Control circuit voltage limits | $0.8 \ldots 1.25 \mathrm{Uc}$ at $60^{\circ} \mathrm{C}$ operational |
|  | $0.1 \ldots 0.3 \mathrm{Uc}$ at $60^{\circ} \mathrm{C}$ drop-out |
| Time constant | 40 ms |
| Inrush power in W | 2.4 W at $20^{\circ} \mathrm{C}$ |
| Hold-in power consumption in W | 2.4 W at $20^{\circ} \mathrm{C}$ |
| Auxiliary contacts type | Type mirror contact (1 NC) conforming to IEC 60947-4-1 |
|  | Type mechanically linked (1 NO $+1 \mathrm{NC})$ conforming to IEC 60947-5-1 |
| 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 | V 1 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 | 77 mm |
| Width | 90 mm |
| Depth | 95 mm |
| Product weight | 1.027 kg |

RoHS compliance

| RoHS EUR status | Compliant |
| :--- | :--- |
| RoHS EUR conformity date(YYWW) | 0721 |
|  |  |
| Contractual warranty | 18 months |
| Period |  |

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