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## LC1D95M7

TeSys D contactor - 3P(3 NO) - AC-3 - <= $440 \mathrm{~V} 95 \mathrm{~A}-220 \mathrm{~V} \mathrm{AC} \mathrm{50/60} \mathrm{~Hz} \mathrm{coil}$

## Download your LC1D95M7 datasheet

Characteristics | Documents \& Downloads

| Main | $\square$ Hide |
| :---: | :---: |
| Range | TeSys |
| Product name | TeSys D |
| Product or component type | Contactor |
| Device short name | LC1D |
| Contactor application | Motor control Resistive load |
| Utilisation category | $\begin{aligned} & \mathrm{AC}-1 \\ & \mathrm{AC}-3 \end{aligned}$ |
| Poles description | 3P |
| Pole contact composition | 3 NO |
| [Ue] rated operational voltage | <= 1000 V AC for power circuit <= 300 V DC $25 . . .400 \mathrm{~Hz}$ for power circuit |
| [le] rated operational current | $125 \mathrm{~A}\left(<=60^{\circ} \mathrm{C}\right)$ at $<=440 \mathrm{~V}$ AC AC-1 for power circuit $95 \mathrm{~A}\left(<=60^{\circ} \mathrm{C}\right)$ at $<=440 \mathrm{~V}$ AC AC-3 for power circuit |
| Motor power kW | 25 kW at $220 \ldots . .230 \mathrm{~V}$ AC $50 / 60 \mathrm{~Hz}$ 45 kW at 1000 V AC $50 / 60 \mathrm{~Hz}$ 45 kW at $380 \ldots . .400 \mathrm{~V}$ AC $50 / 60 \mathrm{~Hz}$ 45 kW at $660 \ldots 690 \mathrm{~V}$ AC $50 / 60 \mathrm{~Hz}$ 55 kW at 500 V AC $50 / 60 \mathrm{~Hz}$ 45 kW at $415 . . .440 \mathrm{~V} \mathrm{AC} 50 / 60 \mathrm{~Hz}$ |
| Motor power hp | 20 hp at 200/208 V AC $50 / 60 \mathrm{~Hz}$ for 3 phases motors 7.5 hp at 115 V AC $50 / 60 \mathrm{~Hz}$ for 1 phase motors 15 hp at $230 / 240 \mathrm{~V}$ AC $50 / 60 \mathrm{~Hz}$ for 1 phase motors 25 hp at $230 / 240$ V AC $50 / 60 \mathrm{~Hz}$ for 3 phases motors 60 hp at $460 / 480 \mathrm{~V}$ AC $50 / 60 \mathrm{~Hz}$ for 3 phases motors 60 hp at $575 / 600 \mathrm{~V}$ AC $50 / 60 \mathrm{~Hz}$ for 3 phases motors |
| Control circuit type | AC $50 / 60 \mathrm{~Hz}$ |
| Control circuit voltage | 220 V AC 50/60 Hz |
| Auxiliary contact composition | $1 \mathrm{NO}+1 \mathrm{NC}$ |
| [Uimp] rated impulse withstand voltage | 8 kV conforming to IEC 60947 |
| Overvoltage category | III |
| [lth] conventional free air thermal current | 125 A at $<=60^{\circ} \mathrm{C}$ for power circuit 10 A at $<=60^{\circ} \mathrm{C}$ for signalling circuit |
| Irms rated making capacity | 1100 A at 440 V for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 |
| Rated breaking capacity | 1100 A at 440 V for power circuit conforming to IEC 60947 |
| [lcw] rated short-time withstand current | $1100 \mathrm{~A}<=40^{\circ} \mathrm{C} 1$ s power circuit $135 \mathrm{~A}<=40^{\circ} \mathrm{C} 10 \mathrm{~min}$ power circuit $400 \mathrm{~A}<=40^{\circ} \mathrm{C} 1 \mathrm{~min}$ power circuit $800 \mathrm{~A}<=40^{\circ} \mathrm{C} 10 \mathrm{~s}$ power circuit 100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit |
| Associated fuse rating | 160 A gG at <= 690 V coordination type 2 for power circuit 200 A gG at <= 690 V coordination type 1 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1 |
| Average impedance | 0.8 mOhm at 50 Hz - Ith 125 A for power circuit |


| [Ui] rated insulation voltage | 1000 V for power circuit conforming to IEC 60947-4-1 <br> 600 V for power circuit certifications CSA <br> 600 V for power circuit certifications UL <br> 690 V for signalling circuit conforming to IEC 60947-1 <br> 600 V for signalling circuit certifications CSA <br> 600 V for signalling circuit certifications UL |
| :---: | :---: |
| Electrical durability | 1.2 Mcycles 95 A AC-3 at $\mathrm{Ue}<=440 \mathrm{~V}$ 1.3 Mcycles 125 A AC-1 at $\mathrm{Ue}<=440 \mathrm{~V}$ |
| Power dissipation per pole | $\begin{aligned} & \text { 7.2 W AC-3 } \\ & \text { 12.5 W AC-1 } \end{aligned}$ |
| Protective cover | With |
| 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> DNV <br> GL <br> GOST <br> RINA <br> LROS |
| Connections - terminals | Control circuit : screw clamp terminals 2 cable(s) $1 . . .2 .5 \mathrm{~mm}^{2}$ cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) $1 . . .4 \mathrm{~mm}^{2}$ cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 2 cable(s) $1 \ldots 4 \mathrm{~mm}^{2}$ cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable(s) $1 \ldots 4 \mathrm{~mm}^{2}$ cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable(s) $1 . . .4 \mathrm{~mm}^{2}$ cable stiffness: solid - without cable end Control circuit : screw clamp terminals 1 cable(s) $1 . . .2 .5 \mathrm{~mm}^{2}$ cable stiffness: flexible - with cable end <br> Power circuit : connector 1 cable(s) $4 \ldots . .50 \mathrm{~mm}^{2}$ - cable stiffness: flexible - without cable end <br> Power circuit : connector 2 cable(s) $4 \ldots .25 \mathrm{~mm}^{2}$ - cable stiffness: flexible - without cable end <br> Power circuit : connector 1 cable(s) $4 \ldots 50 \mathrm{~mm}^{2}$ - cable stiffness: flexible - with cable end <br> Power circuit : connector 2 cable(s) $4 . . .16 \mathrm{~mm}^{2}$ - cable stiffness: flexible - with cable end <br> Power circuit : connector 1 cable(s) 4 ... $50 \mathrm{~mm}^{2}$ - cable stiffness: solid - without cable end <br> Power circuit : connector 2 cable(s) $4 . . .25 \mathrm{~mm}^{2}$ - cable stiffness: solid - without cable end |
| Tightening torque | Power circuit : $9 \mathrm{~N} . \mathrm{m}$ - on connector - with screwdriver flat $\varnothing 6$ to $\varnothing 8$ mm <br> Power circuit : $9 \mathrm{~N} . \mathrm{m}$ - on connector hexagonal 4 mm <br> Control circuit : 1.2 N.m - on screw clamp terminals - with screwdriver flat $\varnothing 6 \mathrm{~mm}$ <br> Control circuit : 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 |
| Operating time | $20 . .35 \mathrm{~ms}$ closing $6 . . .20 \mathrm{~ms}$ 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 | 4 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 | $0.3 \ldots . .6 \mathrm{Uc}$ at $55^{\circ} \mathrm{C}$ drop-out $50 / 60 \mathrm{~Hz}$ |
|  | $0.8 \ldots 1.1 \mathrm{Uc}$ at $55^{\circ} \mathrm{C}$ operational 50 Hz |
|  | $0.85 \ldots 1.1 \mathrm{Uc}$ at $55^{\circ} \mathrm{C}$ operational 60 Hz |
| Inrush power in VA | 245 VA at $20^{\circ} \mathrm{C}(\cos \phi 0.75) 60 \mathrm{~Hz}$ |
|  | 245 VA at $20^{\circ} \mathrm{C}(\cos \phi 0.75) 50 \mathrm{~Hz}$ |
| Hold-in power consumption | 26 VA at $20^{\circ} \mathrm{C}(\cos \phi 0.3) 60 \mathrm{~Hz}$ |
| in VA | 26 VA at $20^{\circ} \mathrm{C}(\cos \phi 0.3) 50 \mathrm{~Hz}$ |
| Heat dissipation | $6 . .10 \mathrm{~W}$ at $50 / 60 \mathrm{~Hz}$ |


| Auxiliary contacts type | Type mechanically linked (1 NO + 1 NC ) conforming to IEC <br> $60947-5-1$ <br> Type mirror contact (1 NC) conforming to IEC 60947-4-1 |
| :--- | :--- |
| 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 de-energisation (between NC and NO contact) |
|  | 1.5 ms on energisation (between NC and NO contact) |
| Insulation resistance | $>10$ MOhm for signalling circuit |



## Contractual warranty

Period 18 months

