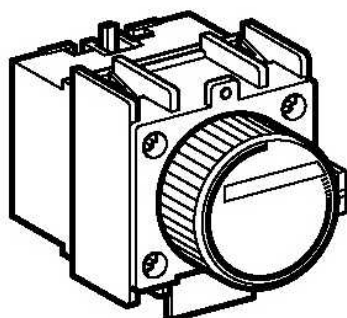




### Main

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product          | TeSys D<br>TeSys F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Product or component type | Time delay auxiliary contact block                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Product compatibility     | LC1F<br>TeSys D contactor<br>TeSys D control relays<br>TeSys D reversing contactor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Pole contact composition  | 1 NO + 1 NC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Connections - terminals   | Control circuit: screw clamp terminals 1 cable 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Control circuit: screw clamp terminals 1 cable 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Control circuit: screw clamp terminals 1 cable 1...2.5 mm <sup>2</sup> - cable stiffness: solid - with cable end<br>Control circuit: screw clamp terminals 1 cable 1...2.5 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Control circuit: screw clamp terminals 2 cable 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Control circuit: screw clamp terminals 2 cable 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Control circuit: screw clamp terminals 2 cable 1...2.5 mm <sup>2</sup> - cable stiffness: solid - with cable end<br>Control circuit: screw clamp terminals 2 cable 1...2.5 mm <sup>2</sup> - cable stiffness: solid - without cable end |

### Complementary

|                                             |                                                                                                                                                                  |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mounting location                           | Front                                                                                                                                                            |
| [Ui] rated insulation voltage               | 600 V - certifications CSA - for control circuit<br>600 V - certifications UL - for control circuit<br>690 V - conforming to IEC 60947-5-1 - for control circuit |
| [Ue] rated operational voltage              | <= 690 V AC 25...400 Hz for control circuit                                                                                                                      |
| [Ith] conventional free air thermal current | 10 A at <= 60 °C for control circuit                                                                                                                             |
| Irms rated making capacity                  | 140 A at <= 690 V AC for control circuit conforming to IEC 60947-5-1<br>250 A at <= 690 V DC for control circuit conforming to IEC 60947-5-1                     |
| Protection type                             | GG fuse <= 10 A rating according to operational current for Ue <= 690 V for control circuit                                                                      |
| Mechanical durability                       | 5000000 cycles                                                                                                                                                   |
| Minimum switching current                   | 5 mA for control circuit                                                                                                                                         |
| Minimum switching voltage                   | 17 V for control circuit                                                                                                                                         |
| Non-overlap time                            | 1.5 ms on de-energisation between NC and NO contacts<br>1.5 ms on energisation between NC and NO contacts                                                        |
| Time delay range                            | 10...180 s                                                                                                                                                       |
| Insulation resistance                       | > 10 MOhm for control circuit                                                                                                                                    |

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated operational power in VA | 100 VA at 600 V AC-14 - electrical durability: 10000000 cycles - for control circuit<br>100 VA at 600 V AC-15 - electrical durability: 10000000 cycles - for control circuit<br>1050 VA at 440 V AC-14 - electrical durability: 1000000 cycles - for control circuit<br>1050 VA at 440 V AC-15 - electrical durability: 1000000 cycles - for control circuit<br>120 VA at 48 V AC-14 - electrical durability: 1000000 cycles - for control circuit<br>120 VA at 48 V AC-15 - electrical durability: 1000000 cycles - for control circuit<br>1440 VA at 600 V AC-14 - electrical durability: 1000000 cycles - for control circuit<br>1440 VA at 600 V AC-15 - electrical durability: 1000000 cycles - for control circuit<br>16 VA at 24 V AC-14 - electrical durability: 3000000 cycles - for control circuit<br>16 VA at 24 V AC-15 - electrical durability: 3000000 cycles - for control circuit<br>160 VA at 230 V AC-14 - electrical durability: 3000000 cycles - for control circuit<br>160 VA at 230 V AC-15 - electrical durability: 3000000 cycles - for control circuit<br>20 VA at 115 V AC-14 - electrical durability: 10000000 cycles - for control circuit<br>20 VA at 115 V AC-15 - electrical durability: 10000000 cycles - for control circuit<br>280 VA at 115 V AC-14 - electrical durability: 1000000 cycles - for control circuit<br>280 VA at 115 V AC-15 - electrical durability: 1000000 cycles - for control circuit<br>280 VA at 400 V AC-14 - electrical durability: 3000000 cycles - for control circuit<br>280 VA at 400 V AC-15 - electrical durability: 3000000 cycles - for control circuit<br>300 VA at 440 V AC-14 - electrical durability: 3000000 cycles - for control circuit<br>300 VA at 440 V AC-15 - electrical durability: 3000000 cycles - for control circuit<br>32 VA at 48 V AC-14 - electrical durability: 3000000 cycles - for control circuit<br>32 VA at 48 V AC-15 - electrical durability: 3000000 cycles - for control circuit<br>4 VA at 24 V AC-14 - electrical durability: 10000000 cycles - for control circuit<br>4 VA at 24 V AC-15 - electrical durability: 10000000 cycles - for control circuit<br>40 VA at 230 V AC-14 - electrical durability: 10000000 cycles - for control circuit<br>40 VA at 230 V AC-15 - electrical durability: 10000000 cycles - for control circuit<br>420 VA at 600 V AC-14 - electrical durability: 3000000 cycles - for control circuit<br>420 VA at 600 V AC-15 - electrical durability: 3000000 cycles - for control circuit<br>560 VA at 230 V AC-14 - electrical durability: 1000000 cycles - for control circuit<br>560 VA at 230 V AC-15 - electrical durability: 1000000 cycles - for control circuit<br>60 VA at 24 V AC-14 - electrical durability: 1000000 cycles - for control circuit<br>60 VA at 24 V AC-15 - electrical durability: 1000000 cycles - for control circuit<br>70 VA at 400 V AC-14 - electrical durability: 10000000 cycles - for control circuit<br>70 VA at 400 V AC-15 - electrical durability: 10000000 cycles - for control circuit<br>8 VA at 48 V AC-14 - electrical durability: 10000000 cycles - for control circuit<br>8 VA at 48 V AC-15 - electrical durability: 10000000 cycles - for control circuit<br>80 VA at 115 V AC-14 - electrical durability: 3000000 cycles - for control circuit<br>80 VA at 115 V AC-15 - electrical durability: 3000000 cycles - for control circuit<br>80 VA at 440 V AC-14 - electrical durability: 10000000 cycles - for control circuit<br>80 VA at 440 V AC-15 - electrical durability: 10000000 cycles - for control circuit<br>960 VA at 400 V AC-14 - electrical durability: 1000000 cycles - for control circuit<br>960 VA at 400 V AC-15 - electrical durability: 1000000 cycles - for control circuit |
| Rated operational power in W  | 10 W at 440 V DC-13 - electrical durability: 10000000 cycles - for control circuit<br>12 W at 250 V DC-13 - electrical durability: 10000000 cycles - for control circuit<br>120 W at 24 V DC-13 - electrical durability: 1000000 cycles - for control circuit<br>14 W at 125 V DC-13 - electrical durability: 10000000 cycles - for control circuit<br>18 W at 48 V DC-13 - electrical durability: 10000000 cycles - for control circuit<br>25 W at 24 V DC-13 - electrical durability: 10000000 cycles - for control circuit<br>28 W at 440 V DC-13 - electrical durability: 3000000 cycles - for control circuit<br>33 W at 250 V DC-13 - electrical durability: 3000000 cycles - for control circuit<br>38 W at 125 V DC-13 - electrical durability: 3000000 cycles - for control circuit<br>50 W at 48 V DC-13 - electrical durability: 3000000 cycles - for control circuit<br>61 W at 440 V DC-13 - electrical durability: 1000000 cycles - for control circuit<br>68 W at 250 V DC-13 - electrical durability: 1000000 cycles - for control circuit<br>70 W at 24 V DC-13 - electrical durability: 3000000 cycles - for control circuit<br>75 W at 125 V DC-13 - electrical durability: 1000000 cycles - for control circuit<br>90 W at 48 V DC-13 - electrical durability: 1000000 cycles - for control circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Product weight                | 0.060 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Environment

|                                       |                                                                     |
|---------------------------------------|---------------------------------------------------------------------|
| Environmental characteristic          | Normal environment                                                  |
| Standards                             | BS 4794<br>EN 60947-5-1<br>IEC 60947-5-1<br>NF C 63-140<br>VDE 0660 |
| Product certifications                | CSA<br>UL                                                           |
| IP degree of protection               | IP2x conforming to VDE 0106                                         |
| Protective treatment                  | TH conforming to IEC 60068                                          |
| Ambient air temperature for operation | -5...60 °C                                                          |
| Ambient air temperature for storage   | -60...80 °C                                                         |
| Operating altitude                    | 3000 m without derating in temperature                              |