

# LC1D80F7

Contacteur, TeSys Deca, 3P(3NO), AC-3/AC-3e, 440V, 80A, 110V AC 50/60Hz coil, screw clamp terminals



## Galvenā

|                                    |   |
|------------------------------------|---|
| Diapazons                          | TeSys   |
| Produkta sērija                    | TeSys Deca  |
| Produkta vai sastāvdaļas veids     | Contacteur  |
| Ieīces īsais nosaukums             | LC1D  |
| Contacteur application             | Motor control<br>Resistive load   |
| Utilisation category               | AC-3<br>AC-3e<br>AC-4<br>AC-1   |
| Polu skaits                        | 3P  |
| [Ue] nominālais darbības spriegums | Strāvas ķēde: <= 300 V DC 25...400 Hz<br>Strāvas ķēde: <= 690 V AC  |
| [Ie] rated operational current     | 125 A (at <60 °C) at <= 440 V AC AC-1 for strāvas ķēde<br>80 A (at <60 °C) at <= 440 V AC AC-3 for strāvas ķēde<br>80 A (at <60 °C) at <= 440 V AC AC-3e for strāvas ķēde |
| [Uc] control circuit voltage       | 110 V AC 50/60 Hz   |

## Papildinošs

|   |  |
|---|--|
| Motor power kW                              | 22 kW at 220...230 V AC 50/60 Hz (AC-3)<br>37 kW at 380...400 V AC 50/60 Hz (AC-3)<br>45 kW at 415...440 V AC 50/60 Hz (AC-3)<br>55 kW at 500 V AC 50/60 Hz (AC-3)<br>45 kW at 660...690 V AC 50/60 Hz (AC-3)<br>15 kW at 400 V AC 50/60 Hz (AC-4)<br>22 kW at 220...230 V AC 50/60 Hz (AC-3e)<br>37 kW at 380...400 V AC 50/60 Hz (AC-3e)<br>45 kW at 415...440 V AC 50/60 Hz (AC-3e)<br>55 kW at 500 V AC 50/60 Hz (AC-3e)<br>45 kW at 660...690 V AC 50/60 Hz (AC-3e) |
| Motor power hp                              | 7,5 Hp at 120 V AC 50/60 Hz for 1 fāzes motors<br>15 Hp at 230/240 V AC 50/60 Hz for 1 fāzes motors<br>30 Hp at 200/208 V AC 50/60 Hz for 3 fāzes motors<br>30 Hp at 230/240 V AC 50/60 Hz for 3 fāzes motors<br>60 Hp at 460/480 V AC 50/60 Hz for 3 fāzes motors<br>60 hp at 575/600 V AC 50/60 Hz for 3 fāzes motors  |
| Compatibility code                          | LC1D   |
| Pole contact composition                    | 3 NO   |
| Protective cover                            | With   |
| [Ith] conventional free air thermal current | 10 A (at 60 °C) for signalling circuit<br>125 A (at 60 °C) for strāvas ķēde  |
| Irms rated making capacity                  | 140 A AC for signalling circuit conforming to IEC 60947-5-1<br>250 A DC for signalling circuit conforming to IEC 60947-5-1<br>1100 A at 440 V for strāvas ķēde conforming to IEC 60947   |
| Rated breaking capacity                     | 1100 A at 440 V for strāvas ķēde conforming to IEC 60947   |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|   |  |
|---|--|
| [I <sub>cw</sub> ] rated short-time withstand current | 640 A 40 °C - 10 s for strāvas ķēde<br>990 A 40 °C - 1 s for strāvas ķēde<br>135 A 40 °C - 10 min for strāvas ķēde<br>320 A 40 °C - 1 min for strāvas ķēde<br>100 A - 1 s for signalling circuit<br>120 A - 500 ms for signalling circuit<br>140 A - 100 ms for signalling circuit   |
| Associated fuse rating                                | 10 A gG for signalling circuit conforming to IEC 60947-5-1<br>200 A gG at ≤ 690 V coordination type 1 for strāvas ķēde<br>160 A gG at ≤ 690 V coordination type 2 for strāvas ķēde   |
| Average impedance                                     | 0,8 mhm - I <sub>th</sub> 125 A 50 Hz for strāvas ķēde   |
| Power dissipation per pole                            | 5,1 W AC-3<br>12,5 W AC-1<br>5,1 W AC-3e   |
| [U <sub>i</sub> ] rated insulation voltage            | Strāvas ķēde 600 V CSA<br>Strāvas ķēde 600 V UL<br>Strāvas ķēde 1000 V IEC 60947-4-1<br>Signalling circuit 690 V IEC 60947-1<br>Signalling circuit 600 V CSA<br>Signalling circuit 600 V UL  |
| Pārsprieguma kategorija                               | III  |
| Piesārņojuma pakāpe                                   | 3  |
| [U <sub>imp</sub> ] rated impulse withstand voltage   | 8 kV IEC 60947   |
| Safety reliability level                              | B10d = 1369863 cikli contactor with nominal load EN/ISO 13849-1<br>B10d = 20000000 cikli contactor with mechanical load EN/ISO 13849-1   |
| Mehāniskā izturība                                    | 4 M cikli  |
| Electrical durability                                 | 0,8 M cikli 125 A AC-1 ≤ 440 V<br>1,5 M cikli 80 A AC-3 ≤ 440 V<br>1,5 M cikli 80 A AC-3e ≤ 440 V  |
| Control circuit type                                  | AC 50/60 Hz standard   |
| Coil technology                                       | Without built-in suppressor module   |
| Control circuit voltage limits                        | 0.85...1.1 U <sub>c</sub> -40...55 °C operational AC 60 Hz<br>0.3...0.6 U <sub>c</sub> -40...70 °C drop-out AC 50/60 Hz<br>0.8...1.1 U <sub>c</sub> -40...55 °C operational AC 50 Hz<br>1...1.1 U <sub>c</sub> 55...70 °C operational AC 50/60 Hz  |
| Inrush power in VA                                    | 245 VA 60 Hz cos phi 0,75 (at 20 °C)<br>245 VA 50 Hz cos phi 0,75 (at 20 °C)   |
| Hold-in power consumption in VA                       | 26 VA 60 Hz cos phi 0,3 (at 20 °C)<br>26 VA 50 Hz cos phi 0,3 (at 20 °C)   |
| Heat dissipation                                      | 6...10 W at 50/60 Hz   |
| Operating time  | 20...35 ms closing<br>6...20 ms opening  |
| Maximum operating rate                                | 3600 cikls/h 60 °C   |
| Connections - terminals                               | Control circuit: screw clamp terminals 2 1...2,5 mm <sup>2</sup> - cable stiffness: elastīgs with cable end<br>Control circuit: screw clamp terminals 1 1...2,5 mm <sup>2</sup> - cable stiffness: elastīgs with cable end<br>Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: elastīgs without cable end<br>Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: elastīgs without cable end<br>Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: ciets without cable end<br>Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: ciets without cable end<br>Strāvas ķēde: connector 1 4...50 mm <sup>2</sup> - cable stiffness: elastīgs without cable end<br>Strāvas ķēde: connector 2 4...25 mm <sup>2</sup> - cable stiffness: elastīgs without cable end<br>Strāvas ķēde: connector 1 4...50 mm <sup>2</sup> - cable stiffness: elastīgs with cable end<br>Strāvas ķēde: connector 2 4...16 mm <sup>2</sup> - cable stiffness: elastīgs with cable end<br>Strāvas ķēde: connector 1 4...50 mm <sup>2</sup> - cable stiffness: ciets without cable end<br>Strāvas ķēde: connector 2 4...25 mm <sup>2</sup> - cable stiffness: ciets without cable end |
| Tightening torque                                     | Control circuit 1,2 N.m screw clamp terminals flat Ø 6 mm<br>Control circuit 1,2 N.m screw clamp terminals Philips No 2<br>Strāvas ķēde 12 N.m connector flat Ø 6 to Ø 8 mm<br>Strāvas ķēde 12 N.m connector hexagonal 4 mm<br>Control circuit 1,2 N.m screw clamp terminals pozidriv No 2   |
| Papildkontakta veids                                  | 1 NO + 1 NC  |
| Auxiliary contacts type                               | Mechanically linked 1 NO + 1 NC IEC 60947-5-1<br>Mirror contact 1 NC IEC 60947-4-1   |
| Signalling circuit frequency                          | 25...400 Hz  |

|                           |   |
|---------------------------|---|
| Minimum switching voltage | 17 V for signalling circuit   |
| Minimum switching current | 5 mA for signalling circuit   |
| Insulation resistance     | > 10 MOhm for signalling circuit  |
| Non-overlap time          | 1,5 Ms on de-energisation between NC and NO contact<br>1,5 ms on energisation between NC and NO contact |
| Montāžas stiprinājums     | Rail<br>Plāksne   |

## Vide

|   |   |
|---|---|
| Standards   | CSA C22.2 No 14<br>EN 60947-4-1<br>EN 60947-5-1<br>IEC 60947-4-1<br>IEC 60947-5-1<br>UL 508   |
| Produkta sertifikācija                                | GL[RETURN]RINA[RETURN]BV[RETURN]DNV[RETURN]LROS (Lloyds register of shipping)[RETURN]CCC[RETURN]GOST[RETURN]UL[RETURN]CSA   |
| IP degree of protection                               | IP20 priekšpuse IEC&nbsp;60529  |
| Protective treatment                                  | THIEC 60068-2-30  |
| Climatic withstand                                    | IACS E10 exposure to damp heat  |
| Permissible ambient air temperature around the device | -40...60 °C<br>60...70 °C with derating   |
| Operating altitude                                    | 0...3000 m  |
| Fire resistance                                       | 850 °C IEC 60695-2-1  |
| Flame retardance                                      | V1 UL 94  |
| Mechanical robustness                                 | Vibrations contactor open 2 Gn, 5...300 Hz)<br>Shocks contactor open 8 Gn for 11 ms)<br>Vibrations contactor closed 3 Gn, 5...300 Hz)<br>Shocks contactor closed 10 Gn for 11 ms) |
| Augstums  | 127 mm  |
| Platums   | 85 mm   |
| Dziļums   | 130 mm  |
| Neto svars  | 1,59 kg   |

## Iepakojšanas vienības

|                                |            |
|--------------------------------|------------|
| Pirmā iepakojuma vienības tips | PCE        |
| Vienību skaits 1. iepakojumā   | 1          |
| 1. iepakojuma augstums         | 10,000 cm  |
| 1. iepakojuma platums          | 13,500 cm  |
| 1. iepakojuma garums           | 14,000 cm  |
| 1. iepakojuma svars            | 1,555 kg   |
| Otrā iepakojuma vienības tips  | S02        |
| Vienību skaits 2. iepakojumā   | 5          |
| 2. iepakojuma augstums         | 15,000 cm  |
| 2. iepakojuma platums          | 30,000 cm  |
| 2. iepakojuma garums           | 40,000 cm  |
| 2. iepakojuma svars            | 8,018 kg   |
| Trešā iepakojuma vienības tips | P06        |
| Vienību skaits 3. iepakojumā   | 80         |
| 3. iepakojuma augstums         | 75,000 cm  |
| 3. iepakojuma platums          | 80,000 cm  |
| 3. iepakojuma garums           | 60,000 cm  |
| 3. iepakojuma svars            | 136,288 kg |

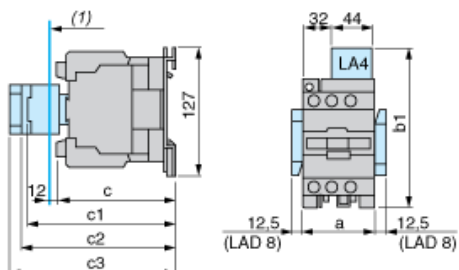
## Piedāvājiēt ilgtspēju

|                                  |  |
|----------------------------------|--|
| Ilgspējīgs piedāvājuma statuss   | Green Premium izstrādājums   |
| REACH regula                     | <a href="#">REACH Deklarācija</a>  |
| Nesatur REACH SVHC               | Jā   |
| ES RoHS direktīva                | Atbilstīgs <a href="#">ES RoHS Deklarācija</a>   |
| Nesatur toksiskus smagos metālus | Jā   |
| Nesatur dzīvsudrabu              | Jā   |
| Ķīnas RoHS regula                | <a href="#">Ķīnas RoHS Deklarācija</a>   |
| Informācija par RoHS izņēmumiem  | <a href="#">Jā</a>   |
| Vides informācijas publicēšana   | <a href="#">Produkta Ietekme Uz Vidi</a>   |
| Cirkularitātes profils           | Nav jāveic īpašas darbības, lai nodotu otrreizējai pārstrādei  |
| WEEE                             | Eiropas Savienības tirgū no šī produkta ir jāatbrīvojas, ievērojot noteiktu atkritumu savākšanas kārtību, un produkts nedrīkst nonākt sadzīves atkritumu tvertnēs. |
| Nesatur PVH                      | Jā   |

## Līguma garantija

|           |           |
|-----------|-----------|
| Garantija | 18 months |
|-----------|-----------|

Dimensions



(1) Minimum electrical clearance

| LC1                                |                                | D80 | D95 |
|------------------------------------|--------------------------------|-----|-----|
| a                                  |                                | 85  | 85  |
| b1                                 | with LA4 D•2                   | 135 | 135 |
| with LA4 DB3 or LAD 4BB3           | 135                            | —   |     |
| with LA4 DF, DT                    | 142                            | 142 |     |
| with LA4 DM, DW, DL                | 150                            | 150 |     |
| c                                  | without cover or add-on blocks | 125 | 125 |
| with cover, without add-on blocks  | 130                            | 130 |     |
| c1                                 | with LAD N (1 contact)         | 150 | 150 |
| with LAD N or C (2 or 4 contacts)  | 158                            | 158 |     |
| c2                                 | with LA6 DK10, LAD 6DK         | 170 | 170 |
| c3                                 | with LAD T, R, S               | 178 | 178 |
| with LAD T, R, S and sealing cover | 182                            | 182 |     |

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Wiring

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