

# Ficha técnica del producto

## Características

# LC1D09F7

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V  
9 A - 110 V AC coil



## Principal

|                                                      |                                                                                                                                                                                                                                                                                                                           |
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| Gama                                                 | TeSys                                                                                                                                                                                                                                                                                                                     |
| Nombre del producto                                  | TeSys D                                                                                                                                                                                                                                                                                                                   |
| Tipo de producto o componente                        | Conector                                                                                                                                                                                                                                                                                                                  |
| Nombre corto del dispositivo                         | LC1D                                                                                                                                                                                                                                                                                                                      |
| Aplicación del contactor                             | Control del motor<br>Carga resistiva                                                                                                                                                                                                                                                                                      |
| Categoría de empleo                                  | AC-1<br>AC-4<br>AC-3                                                                                                                                                                                                                                                                                                      |
| Número de polos                                      | 3P                                                                                                                                                                                                                                                                                                                        |
| Composición de los polos de contacto                 | 3 NA                                                                                                                                                                                                                                                                                                                      |
| [Ue] tensión asignada de empleo                      | <= 300 V DC for power circuit<br><= 690 V AC 25...400 Hz for power circuit                                                                                                                                                                                                                                                |
| [Ie] corriente asignada de empleo                    | 25 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit<br>9 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit                                                                                                                                                                                                             |
| Potencia del motor en kW                             | 2.2 kW at 400 V AC 50/60 Hz AC-4<br>2.2 kW at 220...230 V AC 50/60 Hz AC-3<br>4 kW at 380...400 V AC 50/60 Hz AC-3<br>5.5 kW at 500 V AC 50/60 Hz AC-3<br>5.5 kW at 660...690 V AC 50/60 Hz AC-3<br>4 kW at 415...440 V AC 50/60 Hz AC-3                                                                                  |
| Potencia del motor en HP                             | 0.33 hp at 115 V AC 50/60 Hz for 1 phase motors<br>1 hp at 230/240 V AC 50/60 Hz for 1 phase motors<br>2 hp at 200/208 V AC 50/60 Hz for 3 phases motors<br>2 hp at 230/240 V AC 50/60 Hz for 3 phases motors<br>5 hp at 460/480 V AC 50/60 Hz for 3 phases motors<br>7.5 hp at 575/600 V AC 50/60 Hz for 3 phases motors |
| Tipo de circuito de control                          | AC 50/60 Hz                                                                                                                                                                                                                                                                                                               |
| [Uc] tensión del circuito de control                 | 110 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                         |
| Composición de los contactos auxiliares              | 1 NA + 1 NC                                                                                                                                                                                                                                                                                                               |
| [Uimp] Tensión asignada de resistencia a los choques | 6 kV conforming to IEC 60947                                                                                                                                                                                                                                                                                              |

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| Categoría de sobretensión            | III                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| [Ith] corriente térmica convencional | 25 A at $\leq 60^{\circ}\text{C}$ for power circuit<br>10 A at $\leq 60^{\circ}\text{C}$ for signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Irms poder de conexión nominal       | 250 A at 440 V for power circuit conforming to IEC 60947<br>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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Poder asignado de corte              | 250 A at 440 V for power circuit conforming to IEC 60947                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| [Icw] Corriente temporal admisible   | 105 A $\leq 40^{\circ}\text{C}$ 10 s power circuit<br>210 A $\leq 40^{\circ}\text{C}$ 1 s power circuit<br>30 A $\leq 40^{\circ}\text{C}$ 10 min power circuit<br>61 A $\leq 40^{\circ}\text{C}$ 1 min power circuit<br>100 A 1 s signalling circuit<br>120 A 500 ms signalling circuit<br>140 A 100 ms signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Fusible asociado                     | 20 A gG en $\leq 690\text{ V}$ coordinación tipo 2 para circuito de alimentación<br>25 A gG en $\leq 690\text{ V}$ coordinación tipo 1 para circuito de alimentación<br>10 A gG para circuito de señalización acorde a IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Impedancia media                     | 2.5 mOhm en 50 Hz - Ith 25 A para circuito de alimentación                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| [Ui] tensión asignada de aislamiento | 600 V for power circuit certifications CSA<br>600 V for power circuit certifications UL<br>690 V for power circuit conforming to IEC 60947-4-1<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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Durabilidad eléctrica                | 0.6 Mcycles 25 A AC-1 at $U_e \leq 440\text{ V}$<br>2 Mcycles 9 A AC-3 at $U_e \leq 440\text{ V}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Potencia disipada por polo           | 0.2 W AC-3<br>1.56 W AC-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Cubierta protectora                  | Con                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Tipo de montaje                      | Carril<br>Placa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Normas                               | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Certificaciones de producto          | RINA<br>CCC<br>LROS (Lloyds register of shipping)<br>UL<br>DNV<br>BV<br>GOST<br>GL<br>CSA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Conexiones - terminales              | Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Power circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Power circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Power circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Power circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Power circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end<br>Power circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end |
| Par de apriete                       | Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm<br>Power 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 Ø 6 mm<br>Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Duración de maniobra                 | 4...19 ms opening<br>12...22 ms closing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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| Nivel de fiabilidad de seguridad | 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 |
| Endurancia mecánica              | 15 Mcycles                                                                                                                                                           |
| Rango de operación               | 3600 cyc/h at <= 60 °C                                                                                                                                               |

## Complementario

|                                            |                                                                                                                                            |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Característica de la bobina                | Sin filtro antiparasitario de serie                                                                                                        |
| Límites de tensión del circuito de control | 0.3...0.6 Uc drop-out at 60 °C, AC 50/60 Hz<br>0.8...1.1 Uc operational at 60 °C, AC 50 Hz<br>0.85...1.1 Uc operational at 60 °C, AC 60 Hz |
| Consumo a la llamada en VA                 | 70 VA at 20 °C (cos $\phi$ 0.75) 60 Hz<br>70 VA at 20 °C (cos $\phi$ 0.75) 50 Hz                                                           |
| Consumo de mantenimiento en VA             | 7.5 VA at 20 °C (cos $\phi$ 0.3) 60 Hz<br>7 VA at 20 °C (cos $\phi$ 0.3) 50 Hz                                                             |
| Disipación de calor                        | 2...3 W at 50/60 Hz                                                                                                                        |
| Tipo de contactos auxiliares               | Tipo unido mecánicamente (1 NA + 1 NC) acorde a IEC 60947-5-1<br>Tipo contacto espejo (1 NC) acorde a IEC 60947-4-1                        |
| Frecuencia del circuito de señalización    | 25...400 Hz                                                                                                                                |
| Corriente mínima de conmutación            | 5 mA for signalling circuit                                                                                                                |
| Tensión mínima de conmutación              | 17 V for signalling circuit                                                                                                                |
| Tiempo de no superposición                 | 1.5 ms on energisation between NC and NO contact<br>1.5 ms on de-energisation between NC and NO contact                                    |
| Resistencia de aislamiento                 | > 10 MOhm for signalling circuit                                                                                                           |

## Entorno

|                                                          |                                                                                                                                                                                |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Grado de protección IP                                   | IP20 front face conforming to IEC 60529                                                                                                                                        |
| Tratamiento de protección                                | TH conforming to IEC 60068-2-30                                                                                                                                                |
| Grado de contaminación                                   | 3                                                                                                                                                                              |
| Temperatura ambiente de funcionamiento                   | -5...60 °C                                                                                                                                                                     |
| Temperatura ambiente de almacenamiento                   | -60...80 °C                                                                                                                                                                    |
| Temperatura ambiente admisible alrededor del dispositivo | -40...70 °C at Uc                                                                                                                                                              |
| Altitud máxima de funcionamiento                         | 3000 m without derating in temperature                                                                                                                                         |
| Resistencia al fuego                                     | 850 °C conforming to IEC 60695-2-1                                                                                                                                             |
| Resistencia a las llamas                                 | V1 conforming to UL 94                                                                                                                                                         |
| Resistencia mecánica                                     | Vibrations contactor open 2 Gn, 5...300 Hz<br>Vibrations contactor closed 4 Gn, 5...300 Hz<br>Shocks contactor open 10 Gn for 11 ms<br>Shocks contactor closed 15 Gn for 11 ms |
| Altura                                                   | 77 mm                                                                                                                                                                          |
| Anchura                                                  | 45 mm                                                                                                                                                                          |
| Profundidad                                              | 86 mm                                                                                                                                                                          |
| Peso del producto                                        | 0,32 kg                                                                                                                                                                        |

## Sostenibilidad de la oferta

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|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Estado de la oferta sostenible                           | Producto Green Premium                                                                                                                                                                                                   |
| RoHS (código de fecha: AASS)                             | Conforme - desde 0627 - Schneider Electric declaration of conformity<br> <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                                                    | La referencia no contiene SVHC<br><a href="#">La referencia no contiene SVHC</a>                                                                                                                                         |
| Perfil ambiental del producto                            | Disponible<br> <a href="#">Perfil medioambiental</a>                                                                                  |
| Instrucciones para el fin del ciclo de vida del producto | Disponible                                                                                                                                                                                                               |

## Garantía contractual

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| Warranty period | 18 months |
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