Product datasheet Characteristics

LC1DT32M7 TeSys D contactor - 4P(4 NO) - AC-1 - <= 440 V 32 A - 220 V AC 50/60 Hz coil



Main

Main Range of product TeSys D Range TeSys D Product or component type Contactor Device short name LC1D Contactor application Resistive load Utilisation category AC-1 Pole contact composition 4P Pole contact composition 4 NO [Ue] rated operational voltage << 300 V DC for power circuit << 690 V AC 25400 Hz for power circuit [Le] rated operational voltage << 300 V DC for power circuit [Le] rated operational current 32 A (<< 60 °C) at <= 440 V AC AC-1 for power circuit Control circuit type AC 50/60 Hz Control circuit voltage 220 V AC 50/60 Hz Auxiliary contact composition 1 NO + 1 NC [Uim] prated impulse withstand voltage Confroming to IEC 60947 [Uim] conventional free air thermal 32 A at <= 60 °C for signaling circuit [Uim] conventional free air thermal 32 A at <= 60 °C for signaling circuit [Uim] overvoltage category III [Uim] conventional free air thermal 32 A at <= 60 °C for signaling circuit [Uim] overvoltage category III [Uim] over			
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Product or component typeContactorDevice short nameLC1DContactor applicationResistive loadUtilisation categoryAC-1Poles description4PPole contact composition4 NO[Ue] rated operational voltage<= 300 V DC for power circuit <= 690 V AC 25400 Hz for power circuit <= 690 V AC 25400 Hz for power circuit	Range	TeSys	
Device short nameLC1DContactor applicationResistive loadUtilisation categoryAC-1Poles description4PPole contact composition4 NO[Ue] rated operational voltage<= 300 V DC for power circuit <= 690 V AC 25400 Hz for power circuit <= 690 V AC 25400 Hz for power circuit	Product name	TeSys D	
Contactor applicationResistive loadUtilisation categoryAC-1Poles description4 PPole contact composition4 NO[Ue] rated operational voltage<= 300 V DC for power circuit <= 690 V AC 25400 Hz for power circuit	Product or component type	Contactor	
Utilisation categoryAC-1Poles description4PPole contact composition4 NO(Ue) rated operational voltage<= 300 V DC for power circuit	Device short name	LC1D	
Poles description4PPoles description4 NO[Ue] rated operational voltage<= 300 V DC for power circuit <= 690 V AC 25400 Hz for power circuit	Contactor application	Resistive load	
Pole contact composition4 NOPole contact composition4 NO[Ue] rated operational voltage<= 300 V DC for power circuit <= 690 V AC 25400 Hz for power circuit	Utilisation category	AC-1	
[Ue] rated operational voltage<= 300 V DC for power circuit 	Poles description	4P	
<= 690 V AC 25400 Hz for power circuit[le] rated operational current 32 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit	Pole contact composition	4 NO	
Control circuit type AC 50/60 Hz Control circuit voltage 220 V AC 50/60 Hz Auxiliary contact composition 1 NO + 1 NC [Uimp] rated impulse withstand voltage Conforming to IEC 60947 Overvoltage category III [Ith] conventional free air thermal current 32 A at <= 60 °C for power circuit conforming to IEC 60947	[Ue] rated operational voltage	•	
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Auxiliary contact composition 1 NO + 1 NC [Uimp] rated impulse withstand voltage Conforming to IEC 60947 Overvoltage category III [Ith] conventional free air thermal 32 A at <= 60 °C for power circuit	Control circuit type	AC 50/60 Hz	
[Uimp] rated impulse withstand voltage Conforming to IEC 60947 Overvoltage category III [Ith] conventional free air thermal current 32 A at <= 60 °C for power circuit 10 A at <= 60 °C for signalling circuit	Control circuit voltage	220 V AC 50/60 Hz	
Overvoltage category III [Ith] conventional free air thermal current 32 A at <= 60 °C for power circuit	Auxiliary contact composition	1 NO + 1 NC	
[Ith] conventional free air thermal 32 A at <= 60 °C for power circuit	[Uimp] rated impulse withstand voltage	Conforming to IEC 60947	
current 10 A at <= 60 °C for signalling circuit	Overvoltage category	III	
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 300 A at 440 V for power circuit conforming to IEC 60947 [Icw] rated short-time withstand current 145 A <= 40 °C 10 s power circuit			
[Icw] rated short-time withstand current 145 A <= 40 °C 10 s power circuit 240 A <= 40 °C 1 s power circuit 40 A <= 40 °C 10 min power circuit 84 A <= 40 °C 10 min power circuit 100 A 1 s signalling circuit 120 A 500 ms signalling circuit	Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1	
240 A <= 40 °C 1 s power circuit 40 A <= 40 °C 10 min power circuit 84 A <= 40 °C 1 min power circuit 100 A 1 s signalling circuit 120 A 500 ms signalling circuit	Rated breaking capacity	300 A at 440 V for power circuit conforming to IEC 60947	
140 A 100 ms signalling circuit	[Icw] rated short-time withstand current	240 A <= 40 °C 1 s power circuit 40 A <= 40 °C 10 min power circuit 84 A <= 40 °C 1 min power circuit 100 A 1 s signalling circuit	
Associated fuse rating 35 A gG at <= 690 V coordination type 2 for power circuit	Associated fuse rating		



	50 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	2.5 mOhm at 50 Hz - Ith 32 A for power circuit		
[Ui] rated insulation voltage	600 V for power circuit certifications CSA 600 V for power circuit certifications UL 690 V for power circuit conforming to IEC 60947-4-1 690 V for signalling circuit conforming to IEC 60947-1 600 V for signalling circuit certifications CSA 600 V for signalling circuit certifications UL		
Electrical durability	1 Mcycles 32 A AC-1 at Ue <= 440 V		
Power dissipation per pole	2.5 W AC-1		
Protective cover	With		
Mounting support	Rail Plate		
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508		
Product certifications	GOST UL CSA CCC RINA BV DNV GL LROS		
Connections - terminals	Control circuit : screw clamp terminals 2 cable(s) 12.5 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) 14 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 2 cable(s) 14 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable(s) 14 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) 14 mm ² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 1 cable(s) 14 mm ² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable(s) 14 mm ² - cable stiffness: solid - without cable end Power circuit : connector 1 cable(s) 2.510 mm ² - cable stiffness: flexible - without cable end Power circuit : connector 2 cable(s) 2.510 mm ² - cable stiffness: flexible - without cable end Power circuit : connector 1 cable(s) 2.510 mm ² - cable stiffness: flexible - with cable end Power circuit : connector 1 cable(s) 2.510 mm ² - cable stiffness: flexible - with cable end Power circuit : connector 1 cable(s) 2.510 mm ² - cable stiffness: flexible - with cable end Power circuit : connector 1 cable(s) 2.510 mm ² - cable stiffness: solid - without cable end Power circuit : connector 2 cable(s) 2.510 mm ² - cable stiffness: solid - without cable end Power circuit : connector 1 cable(s) 2.516 mm ² - cable stiffness: solid - without cable end Power circuit : connector 2 cable(s) 2.516 mm ² - cable stiffness: solid - without cable end Power circuit : connector 2 cable(s) 2.516 mm ² - cable stiffness: solid - without cable end Power circuit : connector 2 cable(s) 2.516 mm ² - cable stiffness: solid - without cable end Power circuit : connector 2 cable(s) 2.516 mm ² - cable stiffness: solid - without cable end		
Tightening torque	Control circuit : 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit : 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit : 1.7 N.m - on connector - with screwdriver flat Ø 6 mm Power circuit : 1.7 N.m - on connector - with screwdriver Philips No 2		
Operating time	419 ms opening 1222 ms closing		
Safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1		
Mechanical durability	15 Mcycles		
Operating rate	3600 cyc/h at <= 60 °C		

Complementary

Coil technology	Without built-in suppressor module	
Control circuit voltage limits	0.30.6 Uc drop-out at 60 °C, AC 50/60 Hz 0.81.1 Uc operational at 60 °C, AC 50 Hz 0.851.1 Uc operational at 60 °C, AC 60 Hz	
Inrush power in VA	70 VA at 20 °C (cos φ 0.75) 60 Hz 70 VA at 20 °C (cos φ 0.75) 50 Hz	
Hold-in power consumption in VA	7.5 VA at 20 °C (cos φ 0.3) 60 Hz 7 VA at 20 °C (cos φ 0.3) 50 Hz	
Heat dissipation	23 W at 50/60 Hz	
Auxiliary contacts type	Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1	

	Type mirror contact (1 NC) conforming to IEC 60947-4-1	
Signalling circuit frequency	25400 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	

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	-560 °C
Ambient air temperature for storage	-6080 °C
Permissible ambient air temperature around the device	-4070 °C at Uc
Operating altitude	3000 m without derating in temperature
Fire resistance	850 °C conforming to IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Vibrations contactor open 2 Gn, 5300 Hz Vibrations contactor closed 4 Gn, 5300 Hz Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 8 Gn for 11 ms
Height	91 mm
Width	45 mm
Depth	99 mm
Product weight	0.425 kg

Contractual warranty		

Warranty period

18 months

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