Product datasheet

Specifications





Easy TeSys contactor 4P(4 NO) - AC-1 - <= 415 V 45A - 110 V AC coil

LC1E12004F7IN

! Discontinued on: 15-Mar-2023

! Discontinued

Main

Range	Easy TeSys	
Range Of Product	Easy TeSys Control	
Product Or Component Type	Contactor	
Device Short Name	LC1E	
Contactor Application	Resistive load	
Utilisation Category	AC-1	
Poles Description	4P	
[Ue] Rated Operational Voltage	Power circuit: <= 690 V AC 50/60 Hz	
[le] Rated Operational Current	32 A (at <40 °C) at <= 415 V AC AC-1 for power circuit	
[Uc] Control Circuit Voltage	110 V AC 50/60 Hz	

Complementary

<u> </u>		
Pole Contact Composition	4 NO	
Irms Rated Making Capacity	120 A at 440 V AC for power circuit conforming to IEC 60947-4-1	
Rated Breaking Capacity	96 A at 440 V for power circuit conforming to IEC 60947	
[Icw] Rated Short-Time Withstand Current	105 A 40 °C - 10 s for power circuit 61 A 40 °C - 60 s for power circuit 30 A 40 °C - 600 s for power circuit	
Associated Fuse Rating	32 A gG at <= 690 V coordination type 1 for power circuit conforming to IEC 60947-5-1	
Average Impedance	2.5 mOhm - Ith 32 A 50 Hz for power circuit	
Power Dissipation Per Pole	0.81 W AC-3 2.6 W AC-1	
[Ui] Rated Insulation Voltage	690 V conforming to IEC 60947-4-1	
Overvoltage Category	III	
Pollution Degree	3	
[Uimp] Rated Impulse Withstand Voltage	6 kV conforming to IEC 60947	
Mechanical Durability	10000000 cycles	
Electrical Durability	300000 cycles AC-1 1200000 cycles AC-3	
Control Circuit Type	AC at 50/60 Hz	
Control Circuit Voltage Limits	0.851.1 Uc (55 °C):operational 50/60 Hz 0.30.6 Uc (55 °C):drop-out 50/60 Hz	

Inrush Power In Va	95 VA 50 Hz cos phi 0.75 (at 20 °C) 95 VA 60 Hz cos phi 0.75 (at 20 °C)	
Hold-In Power Consumption In Va	8.5 VA 50 Hz cos phi 0.27 (at 20 °C) 8.5 VA 60 Hz cos phi 0.3 (at 20 °C)	
Heat Dissipation	23 W for control circuit	
Operating Time	1222 ms on closing 419 ms on opening	
Maximum Operating Rate	1800 cyc/h 60 °C	
Connections - Terminals	Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 16 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 16 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 16 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end	
Tightening Torque	Power circuit: 1.2 N.m Control circuit: 1.2 N.m	
Minimum Switching Voltage	17 V for control circuit	
Minimum Switching Current	5 mA for control circuit	
Insulation Resistance	> 10 MOhm for control circuit	
Non-Overlap Time	1.5 ms on energisation guaranteed between NC and NO contact 1.5 ms on de-energisation guaranteed between NC and NO contact	
Mounting Support	Plate DIN rail	
Environment		
Ip Degree Of Protection	IP2X conforming to IEC 60529	
Protective Treatment	TH (pollution degree 3) conforming to IEC 60068	
Permissible Ambient Air Temperature Around The Device	-2070 °C at Uc -6080 °C storage -555 °C operation	
Operating Altitude	3000 m	
Fire Resistance	850 °C conforming to IEC 60695-2-1	
Mechanical Robustness	Vibrations contactor open (1.5 Gn, 5300 Hz) Vibrations contactor closed (3 Gn, 5300 Hz) Shocks contactor open (7 Gn for 11 ms) Shocks contactor closed (10 Gn for 11 ms)	
Height	74 mm	
Width	45 mm	

Packing Units

Depth

Net Weight

80 mm

0.34 kg

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	8 cm
Package 1 Width	4.5 cm
Package 1 Length	7.4 cm
Package 1 Weight	340 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	36
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	12.24 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	576
Package 3 Height	150 cm
Package 3 Width	60 cm
Package 3 Length	80 cm
Package 3 Weight	195.84 kg



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Transparency RoHS/REACh

Well-being performance

Ø	Reach Free Of Svhc	
⊘	Toxic Heavy Metal Free	
⊘	Mercury Free	
⊘	Rohs Exemption Information	Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information