Product datasheet

Specifications

Easy TeSys contactor 4P(4 NO) - AC-1 - <= 415 V 100A - 110 V AC coil

LC1E25004F7IN

Discontinued on: 25-Oct-2021

End-of-service on: 30-Jun-2022

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
[Ie] Rated Operational Current	50 A (at <40 °C) at <= 415 V AC AC-1 for power circuit
[Uc] Control Circuit Voltage	110 V AC 50/60 Hz

Complementary

Pole Contact Composition	4 NO
[Ith] Conventional Free Air Thermal Current	50 A (at 40 °C) for power circuit
Irms Rated Making Capacity	250 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated Breaking Capacity	200 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand Current	240 A 40 °C - 10 s for power circuit 120 A 40 °C - 60 s for power circuit 50 A 40 °C - 600 s for power circuit
Associated Fuse Rating	50 A gG at <= 690 V coordination type 1 for power circuit conforming to IEC 60947-5-1
Average Impedance	2.5 mOhm - Ith 50 A 50 Hz for power circuit
Power Dissipation Per Pole	1.6 W AC-3 3.2 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	1200000 cycles AC-3 350000 cycles AC-1
Control Circuit Type	AC at 50/60 Hz

Control Circuit Voltage Limits	0.85...1.1 Uc (55 °C):operational 50/60 Hz 0.3...0.6 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 0.3 (at 20 °C) 8.5 VA 60 Hz cos phi 0.3 (at 20 °C)
Heat Dissipation	2…3 W for control circuit
Operating Time	12...22 ms on closing 4...19 ms on opening
Maximum Operating Rate	1800 cyc/h 60 °C
Connections - Terminals	Control circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1…4 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1…2.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1…4 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 1.5…10 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 1.5…10 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 1…10 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 1…6 mm² - cable stiffness: flexible with cable end
Tightening Torque	Control circuit: 1.2 N.m Power circuit: 1.5 N.m
Insulation Resistance	> 10 MOhm for control circuit
Mounting Support	Plate DIN rail

Environment

Standards	IEC 60947-5-1 IEC 60947-4-1
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	-20…70 °C at Uc -60…80 °C storage -5…55 °C operation
Operating Altitude	3000 m
Fire Resistance	850 °C conforming to IEC 60695-2-1
Mechanical Robustness	Vibrations contactor open (1.5 Gn, 5...300 Hz) Vibrations contactor closed (3 Gn, 5...300 Hz) Shocks contactor closed (10 Gn for 11 ms) Shocks contactor open (6 Gn for 11 ms)
Height	64 mm
Width	56 mm
Depth	93 mm
Net Weight	0.52 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	9.3 cm
Package 1 Width	5.6 cm
Package 1 Length	8.4 cm
Package 1 Weight	520 g

Sustainability

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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency

RoHS/REACh

Well-being performance

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