Product datasheet

Specifications





Easy TeSys contactor 4P(4NO) 60A AC-1 up to 415V coil 110V AC 50/60Hz

LC1E18004F7IN

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

Complementary

complementary		
Pole Contact Composition	4 NO	
Irms Rated Making Capacity	180 A at 440 V AC for power circuit conforming to IEC 60947-4-1	
Rated Breaking Capacity	144 A at 440 V for power circuit conforming to IEC 60947	
[Icw] Rated Short-Time Withstand Current	d 145 A 40 °C - 10 s for power circuit 84 A 40 °C - 60 s for power circuit 40 A 40 °C - 600 s for power circuit	
Associated Fuse Rating	40 A gG at <= 690 V coordination type 1 for power circuit conforming to IEC 60947-5-1	
Average Impedance	2.5 mOhm - Ith 40 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	1000000 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 (-555 °C):operational 50/60 Hz 0.30.6 Uc (-555 °C):drop-out 50/60 Hz	

...0.6 Uc (-5...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) a 8.5 VA 50 Hz cos phi 0.21 (at 20 °C) 8.5 VA 60 Hz cos phi 0.3 (at 20 °C)	
Hold-In Power Consumption In Va		
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 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 12.5 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 14 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 12.5 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 12.5 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 16 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 1.56 mm ² - 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	
Depth	80 mm	
Net Weight	0.34 kg	

Packing Units

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

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

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