Product data sheet Characteristics

LC1D40008E7

TeSys D contactor - 4P(2 NO + 2 NC) - AC-1 <= 440 V 60 A - 48 V AC 50/60 Hz coil





Main

TeSys	
resys	•
TeSys D	
Contactor	
LC1D	
Resistive load	
AC-1	:
4P	
2 NO + 2 NC	
Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC	
60 A (at <60 °C) at <= 440 V AC AC-1 for power circuit	
AC at 50/60 Hz	:
48 V AC 50/60 Hz	
6 kV conforming to IEC 60947	
III	
60 A (at 60 °C) for power circuit	
800 A at 440 V for power circuit conforming to IEC 60947	
800 A at 440 V for power circuit conforming to IEC 60947	
320 A 40 °C - 10 s for power circuit 720 A 40 °C - 1 s for power circuit 72 A 40 °C - 10 min for power circuit 165 A 40 °C - 1 min for power circuit	
80 A gG at <= 690 V coordination type 1 for power circuit 80 A gG at <= 690 V coordination type 2 for power circuit	
1.5 mOhm - Ith 60 A 50 Hz for power circuit	
Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Power circuit: 690 V conforming to IEC 60947-4-1	
	TeSys D Contactor LC1D Resistive load AC-1 4P 2 NO + 2 NC Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC 60 A (at <60 °C) at <= 440 V AC AC-1 for power circuit AC at 50/60 Hz 48 V AC 50/60 Hz 6 kV conforming to IEC 60947 III 60 A (at 60 °C) for power circuit 800 A at 440 V for power circuit conforming to IEC 60947 800 A at 440 V for power circuit conforming to IEC 60947 320 A 40 °C - 10 s for power circuit 720 A 40 °C - 10 min for power circuit 72 A 40 °C - 10 min for power circuit 80 A gG at <= 690 V coordination type 1 for power circuit 80 A gG at <= 690 V coordination type 2 for power circuit 1.5 mOhm - Ith 60 A 50 Hz for power circuit Power circuit: 600 V CSA certified Power circuit: 600 V UL certified

Electrical durability	1.4 Mcycles 60 A AC-1 at Ue <= 440 V
Power dissipation per pole	5.4 W AC-1
Front cover	Without
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	CCC CSA BV UL DNV RINA LROS (Lloyds register of shipping) GOST GL
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end Power circuit: screw connection 1 cable(s) 135 mm²flexible without cable end Power circuit: screw connection 2 cable(s) 125 mm²flexible without cable end Power circuit: screw connection 1 cable(s) 135 mm²flexible with cable end Power circuit: screw connection 2 cable(s) 125 mm²flexible with cable end Power circuit: screw connection 1 cable(s) 135 mm²solid without cable end Power circuit: screw connection 2 cable(s) 125 mm²solid 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: 8 N.m - on screw clamp terminals - cable 2535 mm² hexagonal screw head 4 mm Power circuit: 5 N.m - on screw clamp terminals - cable 125 mm² hexagonal screw head 4 mm
Operating time	419 ms opening 1226 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	6 Mcycles
Maximum operating rate	3600 cyc/h 60 °C

Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz 0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 50/60 Hz
Inrush power in VA	140 VA 60 Hz cos phi 0.75 (at 20 °C) 160 VA 50 Hz cos phi 0.75 (at 20 °C)
Hold-in power consumption in VA	13 VA 60 Hz cos phi 0.3 (at 20 °C) 15 VA 50 Hz cos phi 0.3 (at 20 °C)
Heat dissipation	45 W at 50/60 Hz

Environment

IP degree of protection	IP20 front face conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	-4060 °C 6070 °C with derating
Ambient air temperature for storage	-6080 °C
Operating altitude	03000 m

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: 10 Gn for 11 ms	
Height	127 mm	
Width	85 mm	
Depth	125 mm	
Net weight	1.44 ka	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	1.466 kg
Package 1 Height	11 cm
Package 1 width	13.8 cm
Package 1 Length	15.5 cm
Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Weight	7.639 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Unit Type of Package 3	P06
Number of Units in Package 3	80
Package 3 Weight	133.06 kg
Package 3 Height	80 cm
Package 3 width	80 cm
Package 3 Length	60 cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Contractual warranty

Warranty	18 months