LC1D115F7

Contactor, TeSys Deca, 3P(3NO), AC-3/AC-3e, <=440V, 115A, 110V AC 50/60Hz coil, screw clamp terminals





Main Range TeSys Range of product TeSys Deca Product or component Contactor type LC1D Device short name Contactor application Resistive load Motor control AC-3 Utilisation category AC-4 AC-1 AC-3e 3P Poles description [Ue] rated operational Power circuit: <= 1000 V AC 25...400 Hz voltage Power circuit: <= 300 V DC [le] rated operational 200 A (at <60 °C) at <= 440 V AC AC-1 for power current 115 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 115 A (at <60 °C) at <= 440 V AC AC-3e for power [Uc] control circuit 110 V AC 50/60 Hz

Complementary

Motor power kW	30 KW at 220230 V AC 50/60 Hz (AC-3)	
Motor power KVV	55 KW at 380400 V AC 50/60 Hz (AC-3)	
	59 KW at 415440 V AC 50/60 Hz (AC-3)	
	75 KW at 500 V AC 50/60 Hz (AC-3)	
	80 KW at 660690 V AC 50/60 Hz (AC-3)	
	65 KW at 1000 V AC 50/60 Hz (AC-3)	
	18.5 KW at 400 V AC 50/60 Hz (AC-4)	
	30 KW at 220230 V AC 50/60 Hz (AC-3e)	
	55 KW at 380400 V AC 50/60 Hz (AC-3e)	
	59 KW at 415440 V AC 50/60 Hz (AC-3e)	
	75 KW at 500 V AC 50/60 Hz (AC-3e)	
	80 KW at 660690 V AC 50/60 Hz (AC-3e)	
	65 kW at 1000 V AC 50/60 Hz (AC-3e)	
Motor power hp	30 Hp at 200/208 V AC 50/60 Hz for 3 phases motors	
·	40 Hp at 230/240 V AC 50/60 Hz for 3 phases motors	
	75 Hp at 460/480 V AC 50/60 Hz for 3 phases motors	
	100 hp at 575/600 V AC 50/60 Hz for 3 phases motors	
Compatibility code	LC1D	
Pole contact composition	3 NO	
Contact compatibility	M13	
Protective cover	With	
[Ith] conventional free air thermal current	200 A (at 60 °C) for power circuit	
Irms rated making capacity	1260 A at 440 V for power circuit conforming to IEC 60947	
	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	1100 A at 440 V for power circuit conforming to IEC 60947	

voltage

[lcw] rated short-time withstand current	250 A 40 °C - 10 min for power circuit 550 A 40 °C - 1 min for power circuit 950 A 40 °C - 10 s for power circuit 1100 A 40 °C - 1 s for power circuit 1100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit	
Associated fuse rating	250 A gG at <= 690 V coordination type 1 for power circuit 200 A gG at <= 690 V coordination type 2 for power circuit 10 A gG for signalling circuit	
Average impedance	0.6 mOhm - Ith 200 A 50 Hz for power circuit	
Power dissipation per pole	24 W AC-1 7.9 W AC-3 7.9 W AC-3e	
[Ui] rated insulation voltage	Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Power circuit: 1000 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified	
Overvoltage category	III	
Pollution degree	3	
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947	
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	8 Mcycles	
Electrical durability	0.8 Mcycles 200 A AC-1 at Ue <= 440 V 0.95 Mcycles 115 A AC-3 at Ue <= 440 V 0.95 Mcycles 115 A AC-3e at Ue <= 440 V	
Control circuit type	AC at 50/60 Hz standard	
Coil technology	Built-in bidirectional peak limiting diode suppressor	
Control circuit voltage limits	0.30.5 Uc (-4070 °C):drop-out AC 50/60 Hz 0.81.15 Uc (-4055 °C):operational AC 50/60 Hz 11.15 Uc (5570 °C):operational AC 50/60 Hz	
Inrush power in VA	280350 VA 60 Hz cos phi 0.8 (at 20 °C) 280350 VA 50 Hz cos phi 0.8 (at 20 °C)	
Hold-in power consumption in VA	218 VA 60 Hz cos phi 0.3 (at 20 °C) 218 VA 50 Hz cos phi 0.3 (at 20 °C)	
Heat dissipation	38 W at 50/60 Hz	
Operating time	620 ms opening 2050 ms closing	
Maximum operating rate	2400 cyc/h 60 °C	
Connections - terminals	Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 12.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 12.5 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 12.5 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 12.5 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: solid without cable end Power circuit: connector 1 10120 mm² - cable stiffness: flexible without cable end Power circuit: connector 2 1050 mm² - cable stiffness: flexible with cable end Power circuit: connector 2 1050 mm² - cable stiffness: flexible with cable end Power circuit: connector 1 10120 mm² - cable stiffness: solid without cable end Power circuit: connector 1 10120 mm² - cable stiffness: solid without cable end Power circuit: connector 1 10120 mm² - cable stiffness: solid without cable end	
Tightening torque	Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 12 N.m - on connector hexagonal screw head 4 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver pozidriv No 2	

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 voltage	17 V for signalling circuit	
Minimum switching current	5 mA for signalling circuit	
Insulation resistance	> 10 MOhm for signalling circuit	
Non-overlap time	1.5 Ms on de-energisation between NC and NO contact1.5 ms on energisation between NC and NO contact	
Mounting support	Rail Plate	

Environment

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	BV	
	UL	
	GL	
	DNV	
	LROS (Lloyds register of shipping)	
	RINA CSA	
	CCC	
	GOST	
	UKCA	
	CE	
ID decree of contention		
IP degree of protection	IP20 front face conforming to IEC 60529	
Protective treatment	TH conforming to IEC 60068-2-30	
Climatic withstand	Conforming to IACS E10 exposure to damp heat	
	Conforming to IEC 60947-1 Annex Q category D exposure to damp heat	
Permissible ambient air temperature around the	-4060 °C	
device	6070 °C with derating	
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 (6 Gn for 11 ms)	
Height	158 mm	
Width	120 mm	
Depth	136 mm	
Product weight	2.5 kg	

Packing Units

PCE
1
19.500 cm
17.500 cm
21.500 cm
2.495 kg
P06
27
75.000 cm
60.000 cm
80.000 cm
80.311 kg

Offer Sustainability

Warranty

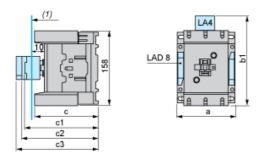
Green Premium product	
REACh Declaration	
Compliant E EU RoHS Declaration	
Yes	
China RoHS Declaration	
₫Yes	
Product Environmental Profile	
☐ End Of Life Information	
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
Yes	
WARNING: 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	

18 months

Product data sheet Dimensions Drawings

LC1D115F7

Dimensions



(1) Minimum electrical clearance

LC1		D115 and D150 (3-pole)
а		120
b1	with LA4 DA2	174
with LA4 DF, DT	185	
with LA4 DM, DL	188	
with LA4 DW	188	
С	without cover or add-on blocks	132
with cover, without add-on blocks	136	
c1	with LAD N or C (2 or 4 contacts)	150
c2	with LA6 DK20	155
с3	with LAD T, R, S	168
with LAD T, R, S and sealing cover	172	

Wiring

