LC1D115004F7

TeSys D contactor - 4P(4 NO) - AC-1 - <= 440 V 200 A - 110 V AC 50 Hz coil





Main

Range	TeSys
Range of product	TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Resistive load
Utilisation category	AC-1 AC-3 AC-3e AC-4
Poles description	4P
[Ue] rated operational voltage	Power circuit: <= 1000 V AC 25400 Hz Power circuit: <= 460 V DC
[le] rated operational current	200 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
[Uc] control circuit voltage	110 V AC 50/60 Hz

Complementary

Complementary			
Compatibility code	LC1D		
Pole contact composition	4 NO		
Protective cover	With		
[lth] 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		
Rated breaking capacity	1100 A at 440 V for power circuit conforming to IEC 60947		
[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		
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		
Average impedance	0.6 mOhm - Ith 200 A 50 Hz for power circuit		
Power dissipation per pole	24 W AC-1		
[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		
Overvoltage category	III		
Pollution degree	3		
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947		
Safety reliability level	B10d = 684932 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 10000000 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		
Control circuit type	AC at 50/60 Hz		
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 mm ² - 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 2 12.5 mm ² - 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 without cable end		
	Power circuit: connector 1 10120 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 2 1050 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		
Mounting support	Plate Rail		

Environment

Standards	CSA C22.2 No 14	
Otalidalds	EN 60947-4-1	
	EN 60947-5-1	
	IEC 60947-4-1	
	IEC 60947-5-1	
	UL 508	
Product certifications	UL[RETURN]BV[RETURN]GL[RETURN]CCC[RETURN]LROS	
	(Lloyds register of shipping)	
	[RETURN]DNV[RETURN]CSA[RETURN]GOST[RETURN]RINA[RETURN]UKCA	
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	150 mm	
Depth	132 mm	
Net weight	2.86 kg	
Depth	132 mm	

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	16.8 cm	
Package 1 Width	21.2 cm	
Package 1 Length	18.5 cm	
Package 1 Weight	2.77 kg	

Offer Sustainability

Sustainable offer status	Green Premium product		
REACh Regulation	☑ REACh Declaration		
EU RoHS Directive	Compliant with Exemptions		
Mercury free	Yes		
China RoHS Regulation	☐ China RoHS Declaration		
RoHS exemption information	₫Yes		
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		
PVC free	Yes		

Contractual warranty

Contraction warranty		
Warranty	18 months	