Product data sheet Characteristics

LC1D258BL

Contactor, TeSys Deca, 4P(2NO+2NC), AC-1, 0 to 440V, 40A, 24VDC low consumption coil





Main

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: <= 690 V AC 25400 Hz	
[le] rated operational current	40 A (at <60 °C) at <= 440 V AC AC-1 for power circuit	
[Uc] control circuit voltage	24 V DC	

Complementary

2 MOhm - Ith 40 A 50 Hz for power circuit	
10 A gG for signalling circuit conforming to IEC 60947-5-1 63 A gG at <= 690 V coordination type 1 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit	
380 A 40 °C - 1 s for power circuit 50 A 40 °C - 10 min for power circuit 120 A 40 °C - 1 min for power circuit 100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit	
240 A 40 °C - 10 s for power circuit	
450 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 60947-5-1 450 A at 440 V for power circuit conforming to IEC 60947	
10 A (at 60 °C) for signalling circuit 40 A (at 60 °C) for power circuit	
With	
M5	
2 NO + 2 NC	
LC1D	
	2 NO + 2 NC M5 With 10 A (at 60 °C) for signalling circuit 40 A (at 60 °C) for power circuit 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 450 A at 440 V for power circuit conforming to IEC 60947 450 A at 440 V for power circuit conforming to IEC 60947 240 A 40 °C - 10 s for power circuit 380 A 40 °C - 1 s for power circuit 50 A 40 °C - 10 min for power circuit 120 A 40 °C - 1 min for power circuit 120 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1 63 A gG at <= 690 V coordination type 1 for power circuit

Il lil rated inculation voltage	Power circuit: 600 V conforming to IEC 60047.4.4
[Ui] rated insulation voltage	Power circuit: 690 V conforming to IEC 60947-4-1 Power circuit: 600 V CSA certified Power circuit: 600 V UL certified 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	6 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	30 Mcycles
Electrical durability	1.4 Mcycles 40 A AC-1 at Ue <= 440 V
Control circuit type	DC low consumption
Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.10.3 Uc (-4060 °C):drop-out DC 0.81.25 Uc (-4060 °C):operational DC
Inrush power in W	2.4 W (at 20 °C)
Hold-in power consumption in W	2.4 W at 20 °C
Operating time	65.4588.55 ms closing 2030 ms opening
Time constant	40 Ms
Maximum operating rate	3600 Cyc/H 60 °C
Connections - terminals	Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible withcable end
	Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible-with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without-cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without-cable end Power circuit: screw clamp terminals 1 2.510 mm² - cable stiffness: flexible-without cable end Power circuit: screw clamp terminals 2 2.510 mm² - cable stiffness: flexible-
	without cable end Power circuit: screw clamp terminals 1 2.510 mm² - cable stiffness: flexible- with cable end Power circuit: screw clamp terminals 2 2.510 mm² - cable stiffness: flexible- with cable end Power circuit: screw clamp terminals 1 2.516 mm² - cable stiffness: solid with- out cable end Power circuit: screw clamp terminals 2 2.516 mm² - cable stiffness: solid with- out 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 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver- pozidriv No 2 Power circuit: 1.8 N.m - on screw clamps terminals - with screwdriver flat Ø 6 mm Power circuit: 1.8 N.m - on screw clamps terminals - with screwdriver Philips No 2 Power circuit: 1.8 N.m - on screw clamp terminals - with screwdriver- pozidriv No 2
Auxiliary contact composition	1 NO + 1 NC
	Type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1
Auxiliary contacts type	type minor contact i the contenting to 120 ccc ii i i i
	25400 Hz
Auxiliary contacts type Signalling circuit frequency Minimum switching voltage	<u> </u>
Signalling circuit frequency Minimum switching voltage	25400 Hz
Signalling circuit frequency	25400 Hz 17 V for signalling circuit
Signalling circuit frequency Minimum switching voltage Minimum switching current	25400 Hz 17 V for signalling circuit 5 MA for signalling circuit



Standards	EN 60947-4-1
	EN 60947-5-1
	IEC 60947-4-1
	IEC 60947-5-1
	UL 60947-4-1
	UL 60947-5-1
	CSA C22.2 No 60947-4-1
	CSA C22.2 No 60947-5-1 GB/T 14048.4
Product certifications	UL
	CSA CCC
	EAC
	UKCA
	CB
	EU-RO-MR by DNV-GL
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 hea
Permissible ambient air temperature around the de-	-4060 °C
vice .	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 (8 Gn for 11 ms)
Height	91 Mm
Width	45 Mm
Depth	107 Mm
Net weight	0.585 Kg
Packing Units	
Unit Type of Package 1	PCE

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	5.5 Cm	
Package 1 Width	9.5 Cm	
Package 1 Length	12.0 Cm	
Package 1 Weight	637.0 G	

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
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
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 can cer. For more information go to www.P65Warnings.ca.gov
Contractual warranty	
Warranty	18 months
Draduct Life Ctatus	Commoncialiand
Product Life Status :	Commercialised

