Product data sheet Characteristics

LC1D128G7

Contactor, TeSys Deca, 4P(2NO+2NC), AC-1, 0 to 440V, 25A, 120VAC 50/60Hz coil





Main

TeSys Deca
Contactor
LC1D
Resistive load
AC-1 AC-3 AC-3e AC-4
4P
Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC
25 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
120 V AC 50/60 Hz

Complementary

Complementary	
Compatibility code	LC1D
Pole contact composition	2 NO + 2 NC
Contact compatibility	M6
Protective cover	With
[lth] conventional free air thermal current	25 A (at 60 °C) for power circuit 10 A (at 60 °C) for signalling circuit
Irms rated making capacity	250 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	250 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand current	105 A 40 °C - 10 s for power circuit 210 A 40 °C - 1 s for power circuit 30 A 40 °C - 10 min for power circuit 61 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
Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947-5-1 40 A gG at <= 690 V coordination type 1 for power circuit 25 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	2.5 MOhm - Ith 25 A 50 Hz for power circuit
Power dissipation per pole	1.56 W AC-1
wer dissipation per pole	1.56 W AC-1

[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	15 Mcycles
Electrical durability	0.8 Mcycles 25 A AC-1 at Ue <= 440 V
Control circuit type	AC at 50/60 Hz
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	70 VA 60 Hz cos phi 0.75 (at 20 °C) 70 VA 50 Hz cos phi 0.75 (at 20 °C)
Hold-in power consumption in VA	7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7 VA 50 Hz cos phi 0.3 (at 20 °C)
Heat dissipation	23 W at 50/60 Hz
Operating time	1222 ms closing 419 ms opening
Maximum operating rate	3600 Cyc/H 60 °C
Tightening torque	Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without-cable end Power circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with-cable end Power circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with-cable end Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without-cable end Power circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end 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 with-cable end Control circuit: screw clamp terminals 1 14 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 1 14 mm² - cable stiffness: solid without-cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without-cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without-cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without-cable end
Tightening torque	Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power 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 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: 1.7 N.m - on screw clamp terminals - with screwdriver-pozidriv No 2
Auxiliary contact composition	1 NO + 1 NC
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 contact 1.5 Ms on energisation between NC and NO contact
Mounting support	Rail Plate

Environment

Charlant	00A 000 0 N - 44
Standards	CSA C22.2 No 14
	EN 60947-4-1 EN 60947-5-1
	IEC 60947-4-1
	IEC 60947-5-1
	UL 508
	IEC 60335-1
Product certifications	UL
	RINA
	GOST
	CSA
	GL
	DNV
	CCC
	BV
	LROS (Lloyds register of shipping) UKCA
IP degree of protection	IP20 front face conforming to IEC 60529
Protective treatment	<u>*</u>
	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 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 open (10 Gn for 11 ms)
	Shocks contactor closed (15 Gn for 11 ms)
Height	85 Mm
Width	45 Mm
Depth	92 Mm
Net weight	0.365 Kg

Packing Units

Facking Units	
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	11.8 Cm
Package 1 Weight	387.0 G
Unit Type of Package 2	S02
Number of Units in Package 2	16
Package 2 Height	15.0 Cm
Package 2 Width	30.0 Cm
Package 2 Length	40.0 Cm
Package 2 Weight	6.567 Kg
Unit Type of Package 3	P06
Number of Units in Package 3	240
Package 3 Height	77.0 Cm
Package 3 Width	80.0 Cm
Package 3 Length	60.0 Cm
Package 3 Weight	107.22 Kg



Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	☑ REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Compliant EEU 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 cancer. For more information go to www.P65Warnings.ca.gov

Contractual warranty

Product Life Status: Commercialised