

Product data sheet Characteristics

LC1D40004E7

Contactor, TeSys Deca, 4P(4NO),AC-1 440V 60A,48V AC coil, screw clamp terminal





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	60 A (at <60 °C) AC AC-1 for power circuit
[Uc] control circuit voltage	48 V AC 50/60 Hz

Complementary

Compatibility code	LC1D	
Pole contact composition	4 NO	
Protective cover	With	
[lth] conventional free air thermal current	10 A (at 60 °C) for control circuit 60 A (at 60 °C) for power circuit	
Irms rated making capacity	140 A AC for control circuit conforming to IEC 60947-5-1 800 A at 440 V for power circuit conforming to IEC 60947	
Rated breaking capacity	800 A at 440 V for power circuit conforming to IEC 60947	
Associated fuse rating	10 A gG for control circuit conforming to IEC 60947-5-1 80 A gG at <= 690 V coordination type 1 for power circuit 80 A gG at <= 690 V coordination type 2 for power circuit	
Average impedance	1.5 mOhm - Ith 60 A 50 Hz for power circuit	
Power dissipation per pole	5.4 W AC-1	
[Ui] rated insulation voltage	Control circuit: 600 V CSA certified Control circuit: 600 V UL certified Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Control circuit: 690 V conforming to IEC 60947-1 Power circuit: 690 V conforming to IEC 60947-1	
Overvoltage category	III	
[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	6000000 cycles	
Control circuit type	AC at 50/60 Hz standard	
Coil technology	Without built-in bidirectional peak limiting diode suppressor	
Control circuit voltage limits	0.30.6 Uc (60 °C):drop-out AC 50/60 Hz 0.81.1 Uc (60 °C):operational AC 50 Hz 0.851.1 Uc (60 °C):operational AC 60 Hz	

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Inrush power in VA	140 VA cos phi 0.75 (at 20 °C) 160 VA 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 for control circuit	
Operating time	1226 ms closing 419 ms opening	
Maximum operating rate	3600 cyc/h 60 °C	
Connections - terminals	Control circuit: screw clamp terminal 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminal 2 12.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminal 2 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminal 2 14 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminal 1 135 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminal 2 125 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminal 2 135 mm² - cable stiffness: solid without cable end	
Tightening torque	Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver Philips No 2 Power circuit: 5 N.m - on screw clamp terminal - with screwdriver flat Ø 6 mm Power circuit: 5 N.m - on screw clamp terminal - with screwdriver flat Ø 8 mm	
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	
Minimum switching voltage	17 V for control circuit	
Minimum switching current	5 mA for control circuit	
Insulation resistance	> 10 MOhm for control circuit	
Non-overlap time	1.5 Ms on de-energisation between NC and NO contacts1.5 ms on energisation between NC and NO contacts	
Mounting support	Plate Rail	

Environment

Standards	UL 508
	IEC 60947-4-1
	EN 60947-4-1
	EN 60947-5-1
	CSA C22.2 No 14
	IEC 60947-5-1
Product certifications	UL[RETURN]CSA[RETURN]BV[RETURN]GL[RETURN]GOST[RETURN]DNV[RETURN]CCC[RE
	(Lloyds register of shipping)[RETURN]UKCA
IP degree of protection	IP2X conforming to IEC 60529
	IP2X conforming to VDE 0106
Protective treatment	TH (pollution degree 3) conforming to IEC 60068
Permissible ambient air temperature around the	-560 °C
device	-4070 °C at Uc
Operating altitude	3000 m without derating
Fire resistance	850 °C conforming to IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Shocks contactor open (8 Gn for 11 ms)
	Shocks contactor closed (10 Gn for 11 ms)
	Vibrations contactor opened (2 Gn, 5300 Hz)
	Vibrations contactor closed (4 Gn, 5300 Hz)
Height	127 mm
Width	85 mm
Depth	125 mm
Net weight	1.44 kg

Life Is On

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Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	15 cm
Package 1 Width	13.2 cm
Package 1 Length	10.6 cm
Package 1 Weight	1.473 kg
Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	7.82 kg
Unit Type of Package 3	P06
Number of Units in Package 3	80
Package 3 Height	77 cm
Package 3 Width	80 cm
Package 3 Length	60 cm
Package 3 Weight	133.62 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	No need of specific recycling operations	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	

Contractual warranty

Contractal Warranty		
Warranty	18 months	