Product data sheet Characteristics

LC1D65AE7

Contactor, TeSys Deca, 3P(3 NO), AC-3/AC-3e, 0 to 440V, 65A, 48VAC 50/60Hz coil





Main

TeSys	
TeSys Deca	
TeSys Deca	
Contactor	
LC1D	
Motor control	
Resistive load	
AC-4	
AC-1	
AC-3	
AC-3e	
3P	
Power circuit: <= 690 V AC 25400 Hz	
Power circuit: <= 300 V DC	
80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit	
65 A (at <60 °C) at <= 440 V AC AC-3 for power circuit	
65 A (at <60 °C) at <= 440 V AC AC-3e for power circuit	
48 V AC 50/60 Hz	
	TeSys Deca Contactor LC1D Motor control Resistive load AC-4 AC-1 AC-3 AC-3e 3P Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC 80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 65 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 65 A (at <60 °C) at <= 440 V AC AC-3 for power circuit

Complementary

Motor power kW	11 KW at 400 V AC 50/60 Hz (AC-4)
Motor power kvv	18.5 KW at 220230 V AC 50/60 Hz (AC-3)
	30 KW at 380400 V AC 50/60 Hz (AC-3)
	,
	37 KW at 500 V AC 50/60 Hz (AC-3)
	37 KW at 660690 V AC 50/60 Hz (AC-3)
	18.5 KW at 220230 V AC 50/60 Hz (AC-3e)
	30 KW at 380400 V AC 50/60 Hz (AC-3e)
	37 KW at 500 V AC 50/60 Hz (AC-3e)
	37 KW at 660690 V AC 50/60 Hz (AC-3e)
Motor power hp	40 Hp at 460/480 V AC 50/60 Hz for 3 phases motors
·	5 Hp at 115 V AC 50/60 Hz for 1 phase motors
	10 Hp at 230/240 V AC 50/60 Hz for 1 phase motors
	20 Hp at 200/208 V AC 50/60 Hz for 3 phases motors
	20 Hp at 230/240 V AC 50/60 Hz for 3 phases motors
	50 Hp at 575/600 V AC 50/60 Hz for 3 phases motors
Compatibility code	LC1D
Pole contact composition	3 NO
Contact compatibility	M2
Protective cover	With
[lth] conventional free air thermal current	10 A (at 60 °C) for signalling circuit
	80 A (at 60 °C) for power circuit

Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 1000 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	1000 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand current	520 A 40 °C - 10 s for power circuit 900 A 40 °C - 1 s for power circuit 110 A 40 °C - 10 min for power circuit 260 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 60947-5-1 125 A gG at <= 690 V coordination type 1 for power circuit 125 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	1.5 MOhm - Ith 80 A 50 Hz for power circuit
Power dissipation per pole	9.6 W AC-1 6.3 W AC-3 6.3 W AC-3e
[Ui] rated insulation voltage	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 Power circuit: 690 V conforming to IEC 60947-4-1
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	6 Mcycles
Electrical durability	1.4 Mcycles 80 A AC-1 at Ue <= 440 V 1.45 Mcycles 65 A AC-3 at Ue <= 440 V 1.45 Mcycles 65 A AC-3e at Ue <= 440 V
Control circuit type	AC at 50/60 Hz standard
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	140 VA 60 Hz cos phi 0.75 (at 20 °C) 160 VA 50 Hz 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
Operating time	419 ms opening 1226 ms closing



Connections - terminals	Control circuit: screw clamp terminals 2 12.5 mm ² - cable stiffness: flexible with cable end
	Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible without cable end
	Control circuit: screw clamp terminals 2 14 mm ² - cable stiffness: flexible without cable end
	Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible with- cable end
	Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: solid without-cable end
	Control circuit: screw clamp terminals 2 14 mm ² - cable stiffness: solid without-cable end
	Power circuit: screw connection 1 135 mm ² - cable stiffness: flexible without cable end
	Power circuit: screw connection 2 125 mm² - cable stiffness: flexible without cable end
	Power circuit: screw connection 1 135 mm² - cable stiffness: flexible with cable end
	Power circuit: screw connection 2 125 mm ² - cable stiffness: flexible with cable end
	Power circuit: screw connection 1 135 mm ² - cable stiffness: solid without cable end
	Power circuit: screw connection 2 125 mm² - cable stiffness: solid without cable end
Tightening torque	Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver-flat \varnothing 6 mm
	Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver-Philips No 2
	Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 2535 m-m ² hexagonal screw head 4 mm
	Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 m- m² hexagonal screw head 4 mm
	Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver- pozidriy No 2
	Power circuit: 2.5 N.m - on EverLink BTR screw connectors - 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 contact1.5 Ms on energisation between NC and NO contact
Mounting support	Plate Rail

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
	IEC 60335-1
Product certifications	CSA
	CCC
	GOST
	UL
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 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 (10 Gn for 11 ms)	
Height	122 Mm	
Width	55 Mm	
Depth	120 Mm	
Net weight	0.86 Kg	

Packing Units

r doming of the	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.2 Cm
Package 1 Width	13.5 Cm
Package 1 Length	15.2 Cm
Package 1 Weight	926.0 G
Unit Type of Package 2	S02
Number of Units in Package 2	10
Package 2 Height	15.0 Cm
Package 2 Width	30.0 Cm
Package 2 Length	40.0 Cm
Package 2 Weight	9.997 Kg
Unit Type of Package 3	P06
Number of Units in Package 3	160
Package 3 Height	77.0 Cm
Package 3 Width	80.0 Cm
Package 3 Length	60.0 Cm
Package 3 Weight	167.46 Kg

Offer Sustainability

Green Premium product
☑ REACh Declaration
Yes
Compliant EE RoHS Declaration
Yes
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

Contractual warranty

Warranty 18 months

Product Life Status : Commercialised

