Product data sheet Characteristics

LC1D65AU7

TeSys; TeSys Deca, Contactor, 3P(3 NO), AC-3/AC-3e, 0 to 440V, 65A, 240VAC 50/60Hz coil





Main

Range	TeSys TeSys Deca	
Range of product	TeSys Deca	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Motor control Resistive load	
Utilisation category	AC-4 AC-1 AC-3 AC-3e	
Poles description	3P	
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC	
[le] rated operational current	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	
[Uc] control circuit voltage	240 V AC 50/60 Hz	

Complementary

Motor power kW	11 KW at 400 V AC 50/60 Hz (AC-4)
	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
[Ith] conventional free air thermal current	10 A (at 60 °C) for signalling circuit
	80 A (at 60 °C) for power circuit

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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
[Icw] rated short-time withstand current	640 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[RETURN]Power circuit: 600 V UL certified[RETURN]Signalling circuit: 690 V conforming to IEC 60947-1[RETURN]Signalling-circuit: 600 V CSA certified[RETURN]Signalling circuit: 600 V UL certified[RETURN]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
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
Maximum operating rate Connections - terminals	3600 Cyc/H 60 °C 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: 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 1 14 mm² - cable stiffness: solid withoutcable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid withoutcable end Power circuit: screw connection 1 135 mm² - 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 mm² - cable stiffness: flexible with cable end Power circuit: screw connection 1 135 mm² - cable stiffness: flexible with cable end Power circuit: screw connection 1 135 mm² - cable stiffness: solid without cable end
	Power circuit: screw connection 2 125 mm ² - cable stiffness: solid without cable end

Tightening torque	Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver-flat Ø 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-m² 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- pozidriv 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	Rail Plate

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	GOST[RETURN]UL[RETURN]CSA[RETURN]CCC
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

. c.cg cc	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.2 Cm
Package 1 Width	13.7 Cm
Package 1 Length	15.2 Cm
Package 1 Weight	953.0 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	9.985 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	168.26 Kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	☑ REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Compliant EPEU 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

Contractual warranty

Warranty 18 months

Product Life Status : Commercialised

