## Product data sheet Characteristics

# LC1DT60A3U7

TeSys D contactor - 4P(4 NO) - AC-1 - <= 440 V 60 A - 240 V AC 50/60 Hz coil





(!) To be discontinued

#### Main

		ç	
Range	TeSys	s	
Product name	TeSys D	products for	
Product or component type	Contactor		
Device short name	LC1D		
Contactor application	Resistive load		
Utilisation category	AC-1	<u>:</u>	
Poles description	4P		
Power pole contact composition	4 NO	 Z	
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC	used for determining suitability or reliability of these	
[le] rated operational current	60 A (at <60 °C) at <= 440 V AC AC-1 for power circuit	—rmin	
Control circuit type	AC at 50/60 Hz		
[Uc] control circuit voltage	240 V AC 50/60 Hz	— J	
Auxiliary contact composition	1 NO + 1 NC		
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947	ton	
Overvoltage category	III	as a substitute for and is	
[Ith] conventional free air thermal current	10 A (at 60 °C) for signalling circuit 60 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 60947-5-1 800 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	imer: This documentation is not intended	
[lcw] rated short-time withstand current	320 A 40 °C - 10 s for power circuit 720 A 40 °C - 1 s for power circuit 72 A 40 °C - 10 min for power circuit 165 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 80 A gG at <= 690 V coordination type 1 for power circuit		

	oo rigo at a coordination type 2 for power of our			
Average impedance	1.6 mOhm - Ith 60 A 50 Hz for power circuit			
[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			
Electrical durability	1.4 Mcycles 60 A AC-1 at Ue <= 440 V			
Power dissipation per pole	5.8 W AC-1			
Front cover	With			
Mounting support	Rail Plate			
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508			
Product certifications	CCC BV GL CSA DNV GOST LROS (Lloyds register of shipping) UL RINA			
Connections - terminals	Control circuit: spring terminals 1 cable(s) 2.5 mm²flexible without cable end Control circuit: spring terminals 2 cable(s) 2.5 mm²flexible without cable end Power circuit: spring clamp terminal 1 cable(s) 135 mm²flexible without cable end Power circuit: spring clamp terminal 2 cable(s) 125 mm²flexible without cable end Power circuit: spring clamp terminal 1 cable(s) 135 mm²flexible with cable end Power circuit: spring clamp terminal 2 cable(s) 125 mm²flexible with cable end Power circuit: spring clamp terminal 1 cable(s) 135 mm²solid without cable end Power circuit: spring clamp terminal 2 cable(s) 125 mm²solid without cable end			
Tightening torque	Power circuit: 8 N.m - on screw clamp terminals - cable 2535 mm² hexagonal screw head 4 mm Power circuit: 5 N.m - on screw clamp terminals - cable 2.525 mm² hexagonal screw head 4 mm			
Operating time	419 ms opening 1226 ms closing			
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			
Maximum operating rate	3600 cyc/h 60 °C			

### Complementary

Without built-in suppressor module	
140 VA 60 Hz cos phi 0.75 (at 20 °C) 160 VA 50 Hz cos phi 0.75 (at 20 °C)	
13 VA 60 Hz cos phi 0.3 (at 20 °C) 15 VA 50 Hz cos phi 0.3 (at 20 °C)	
45 W at 50/60 Hz	
type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1	
25400 Hz	
5 mA for signalling circuit	
17 V for signalling circuit	
1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact	
> 10 MOhm for signalling circuit	
M6	
LC1D	
	140 VA 60 Hz cos phi 0.75 (at 20 °C) 160 VA 50 Hz cos phi 0.75 (at 20 °C) 13 VA 60 Hz cos phi 0.3 (at 20 °C) 15 VA 50 Hz cos phi 0.3 (at 20 °C) 45 W at 50/60 Hz  type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1 25400 Hz 5 mA for signalling circuit 17 V for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact NO MOhm for signalling circuit

#### Environment

IP degree of protection	IP20 front face conforming to IEC 60529	
Protective treatment	TH conforming to IEC 60068-2-30	
Pollution degree	3	
Ambient air temperature for storage	-6080 °C	
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	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	70 mm	
Depth	120 mm	
Net weight	1.09 kg	

#### Packing Units

3		
Unit Type of Package 1	PCE	(R)
Number of Units in Package 1	1	
Package 1 Weight	1.1 kg	27
Package 1 Height	7.5 cm	
Package 1 width	14 cm	
Package 1 Length	15 cm	

#### Offer Sustainability

Sustainable offer status	Green Premium product	
	Green Premium product	
REACh free of SVHC	Yes	
EU RoHS Directive	Compliant	
	EU RoHS Declaration	
Toxic heavy metal free	Yes	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration	
	Pro-active China RoHS declaration (out of China RoHS legal scope)	
Environmental Disclosure	Product Environmental Profile	
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
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