

## TeSys D contactor - 4P(2 NO + 2 NC) - AC-1 <= 440 V 80 A - 48 V AC 50/60 Hz coil

LC1D65008E7

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Main	
Range	TeSys
Product name	TeSys D
Product or component type	Contactor
Device short name	LC1D
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	4P
Power pole contact composition	2 NO + 2 NC
[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
Control circuit type	AC at 50/60 Hz
[Uc] control circuit voltage	48 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal current	80 A (at 60 °C) for power circuit
Irms rated making capacity	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	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
Associated fuse rating	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
[Ui] rated insulation voltage	Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Power circuit: 690 V conforming to IEC 60947-4-1
Electrical durability	1.4 Mcycles 80 A AC-1 at Ue <= 440 V
Power dissipation per pole	9.6 W AC-1
Front cover	Without
Mounting support	Plate

	Rail		
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	GL BV UL DNV LROS (Lloyds register of shipping) CCC CSA RINA GOST		
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end Power circuit: screw clamp terminals 1 cable(s) 135 mm²flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 125 mm²flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 135 mm²flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 125 mm²flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 135 mm²flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 135 mm²solid without cable end Power circuit: screw clamp terminals 2 cable(s) 135 mm²solid without cable end		
Tightening torque	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 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 125 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			
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		
Environment			
IP degree of protection	IP20 front face conforming to IEC 60529		
Protective treatment	TH conforming to IEC 60068-2-30		
Dallution downs	3		
Pollution degree	5		
Ambient air temperature for operation	-4060 °C 6070 °C with derating		
Ambient air temperature for	-4060 °C		
Ambient air temperature for operation  Ambient air temperature for	-4060 °C 6070 °C with derating		
Ambient air temperature for operation  Ambient air temperature for storage	-4060 °C 6070 °C with derating -6080 °C		

Height	127 mm
Width	85 mm
Depth	125 mm
Net weight	1.45 kg
Packing Units	
Unit Type of Package 1	PCE

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	1.465 kg
Package 1 Height	15.4 cm
Package 1 width	13.5 cm
Package 1 Length	11 cm
Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Weight	7.643 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

## Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
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	
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**

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Warranty	18 months	
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