

# Product datasheet

Specifications



## TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 150 A - 400 V AC 50/60 Hz coil

Local distributor code: 386032297 LC1D150V7

EAN Code : 3389110480214

### Main

Range	TeSys
Range of product	TeSys D
Product or component type	Contacteur
Device short name	LC1D
Contacteur application	Resistive load Motor control
Utilisation category	AC-1 AC-4 AC-3 AC-3e
Poles description	3P
[Ue] rated operational voltage	Power circuit: <= 1000 V AC 25...400 Hz Power circuit: <= 300 V DC
[Ie] rated operational current	200 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 150 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 150 A (at <60 °C) at <= 440 V AC AC-3e for power circuit

### Complementary

Motor power kW	40 kW at 220...230 V AC 50/60 Hz (AC-3) 75 kW at 380...400 V AC 50/60 Hz (AC-3) 80 kW at 415...440 V AC 50/60 Hz (AC-3) 90 kW at 500 V AC 50/60 Hz (AC-3) 100 kW at 660...690 V AC 50/60 Hz (AC-3) 75 kW at 1000 V AC 50/60 Hz (AC-3) 22 kW at 400 V AC 50/60 Hz (AC-4) 40 kW at 220...230 V AC 50/60 Hz (AC-3e) 75 kW at 380...400 V AC 50/60 Hz (AC-3e) 80 kW at 415...440 V AC 50/60 Hz (AC-3e) 90 kW at 500 V AC 50/60 Hz (AC-3e) 100 kW at 660...690 V AC 50/60 Hz (AC-3e) 75 kW at 1000 V AC 50/60 Hz (AC-3e)
Motor power hp	40 hp at 200/208 V AC 50/60 Hz for 3 phases motors 50 hp at 230/240 V AC 50/60 Hz for 3 phases motors 100 hp at 460/480 V AC 50/60 Hz for 3 phases motors 125 hp at 575/600 V AC 50/60 Hz for 3 phases motors
Pole contact composition	3 NO
Contact compatibility	M13
Protective cover	With
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
Auxiliary contact composition	1 NO + 1 NC
[Ui] rated insulation voltage	Power circuit: 600 V CSA certified Power circuit: 600 V UL certified

Power circuit: 1000 V conforming to IEC 60947-4-1  
 Signalling circuit: 690 V conforming to IEC 60947-1  
 Signalling circuit: 600 V CSA certified  
 Signalling circuit: 600 V UL certified

<b>[Uimp] rated impulse withstand voltage</b>	8 kV conforming to IEC 60947
<b>Overvoltage category</b>	III
<b>[Ith] conventional free air thermal current</b>	200 A (at 60 °C) for power circuit
<b>Irms rated making capacity</b>	140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 1660 A at 440 V for power circuit conforming to IEC 60947
<b>Rated breaking capacity</b>	1400 A at 440 V for power circuit conforming to IEC 60947
<b>Associated fuse rating</b>	10 A gG for signalling circuit conforming to IEC 60947-5-1 315 A gG at <= 690 V coordination type 1 for power circuit 250 A gG at <= 690 V coordination type 2 for power circuit
<b>Control circuit type</b>	AC at 50/60 Hz
<b>Coil technology</b>	Built-in bidirectional peak limiting diode suppressor
<b>Control circuit voltage limits</b>	0.3...0.5 U <sub>c</sub> (-40...70 °C):drop-out AC 50/60 Hz 0.8...1.15 U <sub>c</sub> (-40...55 °C):operational AC 50/60 Hz 1...1.15 U <sub>c</sub> (55...70 °C):operational AC 50/60 Hz
<b>Average impedance</b>	0.6 mOhm - Ith 200 A 50 Hz for power circuit
<b>Power dissipation per pole</b>	24 W AC-1 13.5 W AC-3 13.5 W AC-3e
<b>Minimum switching current</b>	5 mA for signalling circuit
<b>Minimum switching voltage</b>	17 V for signalling circuit
<b>Non-overlap time</b>	1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact
<b>Maximum operating rate</b>	1200 cyc/h 60 °C
<b>Inrush power in VA</b>	280...350 VA 60 Hz cos phi 0.9 (at 20 °C) 280...350 VA 50 Hz cos phi 0.9 (at 20 °C)
<b>Hold-in power consumption in VA</b>	2...18 VA 60 Hz cos phi 0.9 (at 20 °C) 2...18 VA 50 Hz cos phi 0.9 (at 20 °C)
<b>Insulation resistance</b>	> 10 MOhm for signalling circuit
<b>Tightening torque</b>	Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 12 N.m - on connector hexagonal screw head 4 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver pozidriv No 2
<b>Mounting support</b>	Plate Rail
<b>Electrical durability</b>	0.85 Mcycles 150 A AC-3 at U <sub>e</sub> <= 440 V 1 Mcycles 200 A AC-1 at U <sub>e</sub> <= 440 V 0.85 Mcycles 150 A AC-3e at U <sub>e</sub> <= 440 V
<b>Mechanical durability</b>	8 Mcycles
<b>Safety reliability level</b>	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
<b>Operating altitude</b>	0...3000 m
<b>Compatibility code</b>	LC1D
<b>Product certifications</b>	RINA UL GL BV LROS (Lloyds register of shipping) CCC CSA DNV GOST UKCA

## Environment

Climatic withstand	conforming to IACS E10
Ambient air temperature for storage	-60...80 °C
Fire resistance	850 °C conforming to IEC 60695-2-1
Mechanical robustness	Vibrations contactor open: 2 Gn, 5...300 Hz Vibrations contactor closed: 4 Gn, 5...300 Hz Shocks contactor closed: 15 Gn for 11 ms Shocks contactor open: 6 Gn for 11 ms
Height	158 mm
Width	120 mm
Depth	136 mm
Net weight	2.5 kg

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	2.4 kg
Package 1 Height	16.8 cm
Package 1 width	19.0 cm
Package 1 Length	20.8 cm
Unit Type of Package 2	S03
Number of Units in Package 2	2
Package 2 Weight	5.699 kg
Package 2 Height	30.0 cm
Package 2 width	30.0 cm
Package 2 Length	40.0 cm

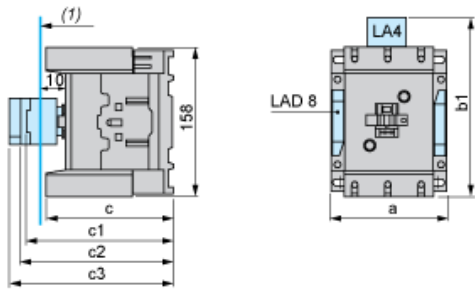
## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
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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**Dimensions**



(1) Minimum electrical clearance

LC1		D115 and D150 (3-pole)
<b>a</b>		120
<b>b1</b>	with LA4 DA2	174
	with LA4 DF, DT	185
	with LA4 DM, DL	188
	with LA4 DW	188
<b>c</b>	without cover or add-on blocks	132
	with cover, without add-on blocks	136
<b>c1</b>	with LAD N or C (2 or 4 contacts)	150
<b>c2</b>	with LA6 DK20	155
<b>c3</b>	with LAD T, R, S	168
	with LAD T, R, S and sealing cover	172

Wiring

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