# **Product datasheet**

Specification





# TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 65 A - 220 V AC 50/60 Hz coil

Local distributor code: 390826538

LC1D65AM7

EAN Code: 3389119409018

## 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	220 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	
Protective Cover	With	
[Ith] Conventional Free Air	10 A (at 60 °C) for signalling circuit	
Thermal Current	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
[Icw] Rated Short-Time Withstand	640 A 40 °C - 10 s for power circuit
Current	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
Maximum Operating Rate	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 with cable	
end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without	
cable end	
Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end	
Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: flexible without cable end	
Power circuit: EverLink BTR screw connectors 2 125 mm <sup>2</sup> - cable stiffness: flexible without cable end	
Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: flexible	
with cable end  Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: flexible	
with cable end Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: solid	
without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: solid	
without cable end	
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 mm²	
hexagonal screw head 4 mm Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm²	
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	
1 NO + 1 NC	
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	
17 V for signalling circuit	
5 mA for signalling circuit	
> 10 MOhm for signalling circuit	
1.5 ms on de-energisation between NC and NO contact     1.5 ms on energisation between NC and NO contact	
Rail Plate	
CSA C22.2 No. 14	
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	
UL	
ccc	
GOST CSA	
IP20 front face conforming to IEC 60529	
TH conforming to IEC 60068-2-30	
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 Device	-4060 °C 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**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	6.300 cm
Package 1 Width	13.500 cm
Package 1 Length	15.300 cm
Package 1 Weight	929.000 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	10
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	9.849 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	160
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	165.408 kg

# **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

# Well-being performance

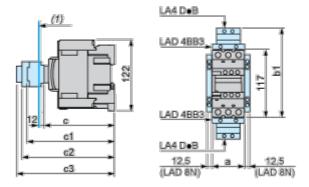
<b>⊘</b>	Reach Free Of Svhc
<b>②</b>	Toxic Heavy Metal Free
<b>⊘</b>	Mercury Free
<b>⊘</b>	Rohs Exemption Information Yes
<b>②</b>	Pvc Free

## **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant EU RoHS Declaration
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
Circularity Profile	End of Life Information

## **Dimensions Drawings**

## **Dimensions**



#### (1) Minimum electrical clearance

LC1		D40AD65A
а		55
	with LA4 D●2	_
b1	with LA4 DB3 or LAD 4BB3	136
В	with LA4 DF, DT	157
	with LA4 DM, DW, DL	166
C	without cover or add-on blocks	118
	with cover, without add-on blocks	120
c1	with LAD N (1 contact)	_
	with LAD N or C (2 or 4 contacts)	150
c2	with LA6 DK10, LAD 6DK	163
23	with LAD T, R, S	171
сЗ	with LAD T, R, S and sealing cover	175

Connections and Schema

Wiring

