



(!) Discontinued

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 50 A - 240 V AC 50/60 Hz coil

LC1D50A3U7

! Discontinued on: 30 Sept 2020

! End-of-service on: 17 Dec 2020

EAN Code: 3389118327702

Main

Range	TeSys
Range Of Product	TeSys Deca
Product Or Component Type	Contactor
Device Short Name	LC1D
Contactor Application	Motor control Resistive load
Utilisation Category	AC-1 AC-4 AC-3
Poles Description	3P
[Ue] Rated Operational Voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC
[le] Rated Operational Current	50 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
[Uc] Control Circuit Voltage	240 V AC 50/60 Hz

Complementary

Motor Power Kw

	15 KV at 220250 V AO 50/00 Hz (AO 5)
	22 kW at 380400 V AC 50/60 Hz (AC-3)
	30 kW at 500 V AC 50/60 Hz (AC-3)
	33 kW at 660690 V AC 50/60 Hz (AC-3)
	25 kW at 415 V AC 50/60 Hz (AC-3)
	30 kW at 440 V AC 50/60 Hz (AC-3)
	11 kW at 400 V AC 50/60 Hz (AC-4)
Motor Power Hp	3 hp at 115 V AC 50/60 Hz for 1 phase motors
	7.5 hp at 230/240 V AC 50/60 Hz for 1 phase motors
	15 hp at 200/208 V AC 50/60 Hz for 3 phases motors
	15 hp at 230/240 V AC 50/60 Hz for 3 phases motors
	40 hp at 460/480 V AC 50/60 Hz for 3 phases motors
	40 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	10 A (at 60 °C) for signalling circuit
Thermal Current	80 A (at 60 °C) for power circuit

15 kW at 220...230 V AC 50/60 Hz (AC-3)

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
	900 A at 440 V for power circuit conforming to IEC 60947
Poted Procking Consoity	000 A at 440 V for a course significant and a IFO 60047
Rated Breaking Capacity	900 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand	400 A 40 °C - 10 s for power circuit
Current	810 A 40 °C - 1 s for power circuit
	84 A 40 °C - 10 min for power circuit
	208 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
· ·	100 A gG at <= 690 V coordination type 1 for power circuit
	100 A gG at <= 690 V coordination type 2 for power circuit
Avaraga Impadanaa	
Average Impedance	1.5 mOhm - Ith 80 A 50 Hz for power circuit
Power Dissipation Per Pole	3.7 W AC-3
	9.6 W AC-1
[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
	o moyolos
Electrical Durability	1.45 Mcycles 50 A AC-3 at Ue <= 440 V
	1.1 Mcycles 80 A AC-1 at Ue <= 440 V
Control Circuit Type	AC at 50/60 Hz
Coil Technology	Without built-in suppressor module
	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	4 10 ms opening
Operating Time	419 ms opening
	1226 ms closing
Maximum Operating Rate	3600 cyc/h 60 °C

Connections - Terminals	Control circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible 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 mm² - 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
Fightening Torque	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 2.525 mm²
	hexagonal screw head 4 mm
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 contact 1.5 ms on energisation between NC and NO contact
Mounting Support	Rail Plate
	i late
Environment	
Standards	CSA C22.2 No 14
	EN 60947-4-1 EN 60947-5-1
	EN 60947-5-1 IEC 60947-4-1
	EN 60947-5-1
Product Certifications	EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1
Product Certifications	EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508
Product Certifications	EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508
Product Certifications	EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 CCC DNV LROS (Lloyds register of shipping) GOST GL
Product Certifications	EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 CCC DNV LROS (Lloyds register of shipping) GOST GL RINA CSA
Product Certifications	EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 CCC DNV LROS (Lloyds register of shipping) GOST GL RINA CSA BV
	EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 CCC DNV LROS (Lloyds register of shipping) GOST GL RINA CSA BV UL
Product Certifications Ip Degree Of Protection Protective Treatment	EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 CCC DNV LROS (Lloyds register of shipping) GOST GL RINA CSA BV UL IP20 front face conforming to IEC 60529
lp Degree Of Protection Protective Treatment	EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 CCC DNV LROS (Lloyds register of shipping) GOST GL RINA CSA BV UL IP20 front face conforming to IEC 60529 TH conforming to IEC 60068-2-30
lp Degree Of Protection Protective Treatment	EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 CCC DNV LROS (Lloyds register of shipping) GOST GL RINA CSA BV UL IP20 front face conforming to IEC 60529
Ip Degree Of Protection Protective Treatment Climatic Withstand Permissible Ambient Air	EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 CCC DNV LROS (Lloyds register of shipping) GOST GL RINA CSA BV UL IP20 front face conforming to IEC 60529 TH conforming to IEC 60068-2-30 conforming to IACS E10 exposure to damp heat
Ip Degree Of Protection Protective Treatment Climatic Withstand Permissible Ambient Air Temperature Around The Device	EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 CCC DNV LROS (Lloyds register of shipping) GOST GL RINA CSA BV UL 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
Ip Degree Of Protection Protective Treatment Climatic Withstand Permissible Ambient Air Temperature Around The Device Operating Altitude	EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 CCC DNV LROS (Lloyds register of shipping) GOST GL RINA CSA BV UL IP20 front face conforming to IEC 60529 TH conforming to IEC 60068-2-30 conforming to IEC 60947-1 Annex Q category D exposure to damp heat conforming to IEC 60947-1 Annex Q category D exposure to damp heat
lp Degree Of Protection	EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 CCC DNV LROS (Lloyds register of shipping) GOST GL RINA CSA BV UL 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 -4060 °C 6070 °C with derating 03000 m
Ip Degree Of Protection Protective Treatment Climatic Withstand Permissible Ambient Air Temperature Around The Device Operating Altitude Fire Resistance	EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 CCC DNV LROS (Lloyds register of shipping) GOST GL RINA CSA BV UL IP20 front face conforming to IEC 60529 TH conforming to IACS E10 exposure to damp heat conforming to IEC 60947-1 Annex Q category D exposure to damp heat -4060 °C 6070 °C with derating 03000 m 850 °C conforming to IEC 60695-2-1 V1 conforming to UL 94 Vibrations contactor open (2 Gn, 5300 Hz)
Ip Degree Of Protection Protective Treatment Climatic Withstand Permissible Ambient Air Temperature Around The Device Operating Altitude Fire Resistance Flame Retardance	EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 CCC DNV LROS (Lloyds register of shipping) GOST GL RINA CSA BV UL IP20 front face conforming to IEC 60529 TH conforming to IACS E10 exposure to damp heat conforming to IEC 60947-1 Annex Q category D exposure to damp heat -4060 °C 6070 °C with derating 03000 m 850 °C conforming to IEC 60695-2-1 V1 conforming to UL 94

Height	122 mm	
Width	55 mm	
Depth	120 mm	
Net Weight	0.855 ka	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	6 cm
Package 1 Width	14 cm
Package 1 Length	15 cm
Package 1 Weight	850 g

Contractual warranty

Warranty 18 months



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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

9	Reach Free Of Svhc
⊘	Toxic Heavy Metal Free
⊘	Mercury Free
⊘	Rohs Exemption Information Yes
⊘	Pvc Free

Certifications & Standards

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