Product datasheet

Specification





TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 40 A - 24 V AC 50/60 Hz coil

Local distributor code: 393395804

LC1D40A3B7

EAN Code: 3389119408554

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	60 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 40 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 40 A (at <60 °C) at <= 440 V AC AC-3e for power circuit
[Uc] Control Circuit Voltage	24 V AC 50/60 Hz

Complementary

Motor Power Kw	18.5 kW at 380400 V AC 50/60 Hz (AC-3)
	11 kW at 220230 V AC 50/60 Hz (AC-3)
	22 kW at 415440 V AC 50/60 Hz (AC-3)
	22 kW at 500 V AC 50/60 Hz (AC-3)
	30 kW at 660690 V AC 50/60 Hz (AC-3)
	9 kW at 400 V AC 50/60 Hz (AC-4)
	18.5 kW at 380400 V AC 50/60 Hz (AC-3e)
	11 kW at 220230 V AC 50/60 Hz (AC-3e)
	22 kW at 415440 V AC 50/60 Hz (AC-3e)
	22 kW at 500 V AC 50/60 Hz (AC-3e)
	30 kW at 660690 V AC 50/60 Hz (AC-3e)
Motor Power Hp	5 hp at 230/240 V AC 50/60 Hz for 1 phase motors
	10 hp at 230/240 V AC 50/60 Hz for 3 phases motors
	30 hp at 575/600 V AC 50/60 Hz for 3 phases motors
	10 hp at 200/208 V AC 50/60 Hz for 3 phases motors
	3 hp at 115 V AC 50/60 Hz for 1 phase motors
	30 hp at 460/480 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	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
[Icw] Rated Short-Time Withstand	320 A 40 °C - 10 s for power circuit
Current	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
	80 A gG at <= 690 V coordination type 2 for power circuit
Average Impedance	1.5 mOhm - Ith 60 A 50 Hz for power circuit
Power Dissipation Per Pole	2.4 W AC-3
	5.4 W AC-1
	2.4 W AC-3e
[Ui] Rated Insulation Voltage	Power circuit: 600 V CSA certified
[0] Nated insulation voltage	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	6 kV conforming to IEC 60947
Voltage	
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 60 A AC-1 at Ue <= 440 V
-	1.5 Mcycles 40 A AC-3 at Ue <= 440 V
	1.5 Mcycles 40 A AC-3e at Ue <= 440 V
Control Circuit Type	AC at 50/60 Hz
Coil Technology	Without built-in suppressor module
Control Circuit Voltage Limits	0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz
5	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)
Hald to Barres Commention to Va	
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
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Connections - Terminals	Control circuit: spring terminals 1 0.752.5 mm² - cable stiffness: flexible without
	cable end Control circuit: spring terminals 2 0.752.5 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 mm ² - cable stiffness: solid without cable end
Tightening 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 0.7525 mm²
	hexagonal screw head 4 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2
	Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver pozidriv No 2
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 contact1.5 ms on energisation between NC and NO contact
Mounting Support	Plate Rail
Environment	
Environment Standards	CSA C22.2 No 14
	EN 60947-4-1
	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1
	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1
	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1
Standards	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1
Standards	EN 60947-4-1 EN 60947-5-1 IEC 60947-5-1 UL 508 IEC 60335-1 CCC UL
Standards Product Certifications	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1 CCC UL GOST
Standards Product Certifications Ip Degree Of Protection	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1 CCC UL GOST CSA
Product Certifications Ip Degree Of Protection Protective Treatment	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1 CCC UL GOST CSA IP20 front face conforming to IEC 60529
Product Certifications Ip Degree Of Protection Protective Treatment Climatic Withstand Permissible Ambient Air	EN 60947-4-1 EN 60947-5-1 IEC 60947-5-1 IEC 60947-5-1 UL 508 IEC 60335-1 CCC UL GOST CSA IP20 front face conforming to IEC 60529 TH conforming to IEC 60068-2-30 conforming to IACS E10 exposure to damp heat
Product Certifications Ip Degree Of Protection Protective Treatment Climatic Withstand Permissible Ambient Air Temperature Around The Device	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1 CCC UL 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 -4060 °C
Standards	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1 CCC UL GOST CSA 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
Product Certifications Ip Degree Of Protection Protective Treatment Climatic Withstand Permissible Ambient Air Temperature Around The Device Operating Altitude	EN 60947-4-1 EN 60947-5-1 IEC 60947-5-1 IEC 60947-5-1 UL 508 IEC 60335-1 CCC UL 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 -4060 °C 6070 °C with derating 03000 m
Product Certifications Ip Degree Of Protection Protective Treatment Climatic Withstand Permissible Ambient Air Temperature Around The Device Operating Altitude Fire Resistance	EN 60947-4-1 EN 60947-5-1 IEC 60947-5-1 IEC 60947-5-1 UL 508 IEC 60335-1 CCC UL GOST CSA 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 -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)
Product Certifications Ip Degree Of Protection Protective Treatment Climatic Withstand Permissible Ambient Air Temperature Around The Device Operating Altitude Fire Resistance Flame Retardance	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1 CCC UL GOST CSA 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	0.85 ka	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	6.2 cm
Package 1 Width	13.7 cm
Package 1 Length	15.2 cm
Package 1 Weight	922.0 g

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

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

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