Product data sheet

Specifications



① Discontinued

Contactor, TeSys Deca, 3P(3 NO), AC-3, 0 to 440V, 40A, 208VAC 60 Hz coil

LC1D40A3LE7

Main		
Range	TeSys TeSys Deca	
Range Of Product	TeSys Deca	
Product Or Component Type	Contactor	
Device Short Name	LC1D	
Contactor Application	Resistive load Motor control	
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	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	
[Uc] Control Circuit Voltage	208 V AC 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)	
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	
Contact Compatibility	M2	
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 60047
	800 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand Current	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
[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	111
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 Movelog 60 A AC 1 at Llo $= 140$ V
	1.4 Mcycles 60 A AC-1 at Ue <= 440 V 1.5 Mcycles 40 A AC-3 at Ue <= 440 V
Control Circuit Type	AC at 60 Hz
Coil Technology	Without built-in suppressor module
Control Circuit Voltage Limits	0.30.6 Uc (-4070 °C):drop-out AC 60 Hz
	0.851.1 Uc (-4060 °C):operational AC 60 Hz
	11.1 Uc (6070 °C):operational AC 60 Hz
Inrush Power In Va	140 VA 60 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)
Heat Dissipation	45 W at 60 Hz
Operating Time	419 ms opening
eponanig mile	1226 ms closing
Maximum Operating Rate	3600 cyc/h 60 °C
Connections - Terminals	Control circuit: spring terminals 1 0.752.5 mm ² - cable stiffness: flexible without
	cable end
	Control circuit: spring terminals 2 0.752.5 mm ² - cable stiffness: flexible without
	cable end Power circuit: EverLink BTR screw connectors 1 135 mm ² - cable stiffness: flexible
	without cable end
	Power circuit: EverLink BTR screw connectors 2 125 mm ² - cable stiffness: flexible
	without cable end
	Power circuit: EverLink BTR screw connectors 1 135 mm ² - cable stiffness: flexible
	with cable end
	Power circuit: EverLink BTR screw connectors 2 125 mm ² - cable stiffness: flexible
	with cable end
	Power circuit: EverLink BTR screw connectors 1 135 mm ² - cable stiffness: solid
	without cable end Power circuit: EverLink BTR screw connectors 2 125 mm ² - cable stiffness: solid
	without cable end

Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 2535 mm ² hexagonal screw head 4 mm Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 0.7525 mm ² 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
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
Plate Rail

Environment

Standards	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
Product Certifications	GOST
	CCC
	UL
	CSA
Ip Degree Of Protection	IP20 front face conforming to IEC 60529
Protective Treatment	TH conforming to IEC 60068-2-30
Climatic Withstand	conforming to IACS E10 exposure to damp heat
	conforming to IEC 60947-1 Annex Q category D exposure to damp heat
Permissible Ambient Air	-4060 °C
Temperature Around The Device	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	0.85 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	6 cm

Life Is On Scheider

Package 1 Width	14 cm
Package 1 Length	15 cm
Package 1 Weight	850 g

Contractual warranty

Warranty

18 months