LC1D40U7

IEC contactor, TeSys D, nonreversing, 40A, 30HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 240VAC 50/60Hz coil, open





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-4 AC-1 AC-2 AC-3 AC-3e
Poles description	3P
[Ue] rated operational voltage	Power circuit <= 690 V AC 25400 Hz
[le] rated operational current	40 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 60 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 40 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
[Uc] control circuit	240 V AC 50/60 Hz

Complementary

18.5 KW at 380400 V AC 50 Hz (AC-3)	
, ,	
30 KW at 660690 V AC 50 Hz (AC-3)	
22 KW at 1000 V AC 50 Hz (AC-3)	
22 KW at 415 V AC 50 Hz (AC-3)	
22 KW at 440 V AC 50 Hz (AC-3)	
11 KW at 220230 V AC 50 Hz (AC-3)	
9 KW at 400 V AC 50 Hz (AC-4)	
18.5 KW at 380400 V AC 50 Hz (AC-3e)	
22 KW at 500 V AC 50 Hz (AC-3e)	
30 KW at 660690 V AC 50 Hz (AC-3e)	
22 KW at 1000 V AC 50 Hz (AC-3e)	
22 KW at 415 V AC 50 Hz (AC-3e)	
22 KW at 440 V AC 50 Hz (AC-3e)	
11 kW at 220230 V AC 50 Hz (AC-3e)	
3 Hp at 115 V AC 60 Hz for 1 phase motors	
5 Hp at 230/240 V AC 60 Hz for 1 phase motors	
10 Hp at 200/208 V AC 60 Hz for 3 phase motors	
10 Hp at 230/240 V AC 60 Hz for 3 phase motors	
30 Hp at 460/480 V AC 60 Hz for 3 phase motors	
30 hp at 575/600 V AC 60 Hz for 3 phase motors	
LC1D	
3 NO	
With	
10 A (at 140 °F (60 °C)) for control circuit	
60 A (at 140 °F (60 °C)) for power circuit	
800 A at 440 V for power circuit conforming to IEC 60947	
140 A AC for control circuit conforming to IEC 60947-5-1	
800 A at 440 V for power circuit conforming to IEC 60947	
	22 KW at 500 V AC 50 Hz (AC-3) 30 KW at 660690 V AC 50 Hz (AC-3) 22 KW at 1000 V AC 50 Hz (AC-3) 22 KW at 415 V AC 50 Hz (AC-3) 22 KW at 440 V AC 50 Hz (AC-3) 21 KW at 440 V AC 50 Hz (AC-3) 22 KW at 440 V AC 50 Hz (AC-3) 31 KW at 220230 V AC 50 Hz (AC-3) 9 KW at 400 V AC 50 Hz (AC-4) 18.5 KW at 380400 V AC 50 Hz (AC-3e) 22 KW at 500 V AC 50 Hz (AC-3e) 30 KW at 660690 V AC 50 Hz (AC-3e) 22 KW at 1000 V AC 50 Hz (AC-3e) 22 KW at 415 V AC 50 Hz (AC-3e) 22 KW at 440 V AC 50 Hz (AC-3e) 31 KW at 220230 V AC 50 Hz (AC-3e) 31 Hp at 115 V AC 60 Hz for 1 phase motors 5 Hp at 230/240 V AC 60 Hz for 1 phase motors 10 Hp at 200/208 V AC 60 Hz for 3 phase motors 10 Hp at 230/240 V AC 60 Hz for 3 phase motors 30 Hp at 460/480 V AC 60 Hz for 3 phase motors 30 Hp at 575/600 V AC 60 Hz for 3 phase motors 10 Hz at 460/480 V AC 60 Hz for 3 phase motors 30 Hz at 460/480 V AC 60 Hz for 3 phase motors 30 Hz at 460/480 V AC 60 Hz for 3 phase motors 30 Hz at 460/480 V AC 60 Hz for 3 phase motors 30 Hz at 460/480 V AC 60 Hz for 3 phase motors 30 Hz at 460/480 V AC 60 Hz for 3 phase motors 30 Hz at 460/480 V AC 60 Hz for 3 phase motors 30 Hz at 460/480 V AC 60 Hz for 3 phase motors 30 Hz at 460/480 V AC 60 Hz for 3 phase motors 30 Hz at 460/480 V AC 60 Hz for 3 phase motors 30 Hz at 460/480 V AC 60 Hz for 3 phase motors 30 Hz at 460/480 V AC 60 Hz for 3 phase motors 30 Hz at 460/480 V AC 60 Hz for 3 phase motors

voltage

Associated fuse rating	10 A gG for control 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
Power dissipation per pole	5.4 W AC-1 2.4 W AC-3 2.4 W AC-3e
[Ui] rated insulation voltage	Control circuit 600 V CSA Control circuit 600 V UL Power circuit 600 V CSA Power circuit 600 V UL Control circuit 690 V IEC 60947-1 Power circuit 690 V IEC 60947-1
Overvoltage category	III
[Uimp] rated impulse withstand voltage	8 kV IEC 60947
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	6000000 cycles
Control circuit type	AC 50/60 Hz
Coil technology	Without built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 50/60 Hz 0.81.1 Uc -40140 °F (-4060 °C) operational AC 50 Hz 0.851.1 Uc -40140 °F (-4060 °C) operational AC 60 Hz 11.1 Uc 140158 °F (6070 °C) operational AC 50/60 Hz
Inrush power in VA	140 VA cos phi 0.75 (at 68 °F (20 °C)) 160 VA cos phi 0.75 (at 68 °F (20 °C))
Hold-in power consumption in VA	13 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 15 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))
Heat dissipation	45 W at 50/60 Hz for control circuit
Operating time	419 ms opening 1226 ms closing
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Tightening torque	stiffness: rigid Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: rigid Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.000.00 in² (12.5 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable stiffness: flexible with cable end Power circuit: screw terminals 1 0.000.04 in² (2.525 mm²) - cable stiffness: rigid Power circuit: screw terminals 2 0.000.02 in² (2.516 mm²) - cable stiffness: flexible without cable end Power circuit: screw terminals 2 0.000.04 in² (2.525 mm²) - cable stiffness: flexible without cable end Power circuit: screw terminals 1 0.000.04 in² (2.525 mm²) - cable stiffness: flexible without cable end Power circuit: screw terminals 2 0.000.02 in² (2.516 mm²) - cable stiffness: flexible with cable end Power circuit: screw terminals 2 0.000.04 in² (2.525 mm²) - cable stiffness: flexible with cable end Power circuit: screw terminals 2 0.000.02 in² (2.510 mm²) - cable stiffness: flexible with cable end Power circuit: screw terminals 2 0.000.02 in² (2.510 mm²) - cable stiffness: flexible with cable end
Tightening torque	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal Philips No 2 Power circuit 44.25 lbf.in (5 N.m) screw terminal flat Ø 6 to Ø 8 mm Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal pozidriv No 2
Auxiliary contact composition	1 NO + 1 NC
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1
Minimum switching voltage	17 V for control circuit
Minimum switching current	5 mA for control circuit
Insulation resistance	> 10 MOhm for control circuit
Non-overlap time	1.5 Ms on de-energisation between NC and NO contacts 1.5 ms on energisation between NC and NO contacts
Mounting Support	Rail Plate

Environment

Standards	IEC 60947-5-1 IEC 60947-4-1 UL 508 EN 60947-4-1 EN 60947-5-1 CSA C22.2 No 14
Product Certifications	RINA[RETURN]UL[RETURN]BV[RETURN]CSA[RETURN]GOST[RETURN]DNV[RETURN]Lf (Lloyds register of shipping)[RETURN]GL[RETURN]CCC[RETURN]UKCA
IP degree of protection	IP2X IEC 60529 IP2X VDE 0106
Climatic withstand	IACS E10 exposure to damp heat
Operating altitude	09842.52 ft (03000 m)
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Shocks contactor opened 10 Gn for 11 ms) Shocks contactor closed 15 Gn for 11 ms) Vibrations contactor opened 2 Gn, 5300 Hz) Vibrations contactor closed 4 Gn, 5300 Hz)
Height	5.00 in (127 mm)
Width	2.95 in (75 mm)
Depth	4.69 in (119 mm)
Net Weight	3.09 lb(US) (1.4 kg)

Ordering and shipping details

Category	22357-CTR,TESYS D,OPEN,40-65A AC
Discount Schedule	l12
GTIN	3389110417821
Returnability	Yes
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
	1 01
Number of Units in Package 1	1
Package 1 Height	3.74 in (9.5 cm)
Package 1 Width	5.16 in (13.1 cm)
Package 1 Length	5.51 in (14.0 cm)
Package 1 Weight	3.17 lb(US) (1.439 kg)
Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Height	5.91 in (15 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	16.57 lb(US) (7.514 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov
REACh Regulation	☑ REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Compliant EEU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	☐ China RoHS Declaration

RoHS exemption information	₫Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	No need of specific recycling operations
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