Product data sheet Characteristics

LC1D18BD

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 18 A - 24 V DC coil

Product availability: Stock - Normally stocked in distribution facility



Price*: 160.00 USD



Main

IVICIII		
Range of product	TeSys D	
Range	TeSys	
Product name	TeSys D	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Motor control Resistive load	
Utilisation category	AC-1 AC-3 AC-4	e de la companya de l
Poles description	3P	
Pole contact composition	3 NO	
System Voltage	<= 300 V DC power circuit <= 690 V AC 25400 Hz power circuit	
[le] rated operational current	18 A (<= 140 °F (60 °C)) at <= 440 V AC AC-3 power circuit 32 A (<= 140 °F (60 °C)) at <= 440 V AC AC-1 power circuit	. <u>.</u>
Motor power kW	10 kW at 500 V AC 50/60 Hz AC-3 10 kW at 660690 V AC 50/60 Hz AC-3 4 kW at 220230 V AC 50/60 Hz AC-3 7.5 kW at 380400 V AC 50/60 Hz AC-3 9 kW at 415440 V AC 50/60 Hz AC-3 4 kW at 400 V AC 50/60 Hz AC-4	bood as a contracting of the contraction of the con
Motor power hp	1 hp at 115 V AC 50/60 Hz 1 phase motors 3 hp at 230/240 V AC 50/60 Hz 1 phase motors 5 hp at 200/208 V AC 50/60 Hz 3 phases motors 5 hp at 230/240 V AC 50/60 Hz 3 phases motors 10 hp at 460/480 V AC 50/60 Hz 3 phases motors 15 hp at 575/600 V AC 50/60 Hz 3 phases motors	Dientigmeer. This documentation is not infanded as a substitute for and is not to be used for determining
Control circuit type	DC standard	
Control circuit voltage	24 V DC	
Auxiliary contact composition	1 NO + 1 NC	
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[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal current	32 A at <= 140 °F (60 °C) power circuit 10 A at <= 140 °F (60 °C) signalling circuit
Irms rated making capacity	300 A at 440 V power circuit conforming to IEC 60947 140 A AC signalling circuit conforming to IEC 60947-5-1 250 A DC signalling circuit conforming to IEC 60947-5-1
Rated breaking capacity	300 A at 440 V power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	145 A <= 104 °F (40 °C) 10 s power circuit 240 A <= 104 °F (40 °C) 1 s power circuit 40 A <= 104 °F (40 °C) 10 min power circuit 84 A <= 104 °F (40 °C) 1 min power circuit 100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit
Associated fuse rating	35 A gG at <= 690 V coordination type 2 power circuit 50 A gG at <= 690 V coordination type 1 power circuit 10 A gG signalling circuit conforming to IEC 60947-5-1
Average impedance	2.5 mOhm at 50 Hz - Ith 32 A power circuit
[Ui] rated insulation voltage	600 V power circuit certifications CSA 600 V power circuit certifications UL 690 V power circuit conforming to IEC 60947-4-1 690 V signalling circuit conforming to IEC 60947-1 600 V signalling circuit certifications CSA 600 V signalling circuit certifications UL
Electrical durability	1.65 Mcycles 18 A AC-3 at Ue <= 440 V 1 Mcycles 32 A AC-1 at Ue <= 440 V
Power dissipation per pole	0.8 W AC-3 2.5 W AC-1
Protective cover	With
Mounting support	Plate Rail
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508
Product certifications	BV CCC CSA DNV GL GOST RINA UL LROS
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 00 in² (12.5 mm²) - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 00.01 in² (14 mm²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 00.01 in² (14 mm²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 00.01 in² (14 mm²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 00.01 in² (14 mm²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 00.01 in² (14 mm²) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 00.01 in² (14 mm²) - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 1 cable(s) 00.01 in² (1.56 mm²) - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 2 cable(s) 00.01 in² (14 mm²) - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 2 cable(s) 00.01 in² (14 mm²) - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable(s) 00.01 in² (14 mm²) - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable(s) 00.01 in² (14 mm²) - cable stiffness: flexible - without cable end

	Power circuit: screw clamp terminals 2 cable(s) 00.01 in² (1.56 mm²) - cable stiffness: solid - without cable end
Tightening torque	Power circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver Philips No 2
Operating time	53.5572.45 ms closing 1624 ms opening
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	30 Mcycles
Operating rate	3600 cvc/h at <= 140 °F (60 °C)

Complementary

With integral suppression device
0.10.25 Uc drop-out at 140 °F (60 °C), DC 0.71.25 Uc operational at 140 °F (60 °C), DC
28 ms
5.4 W at 68 °F (20 °C)
5.4 W at 68 °F (20 °C)
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
5 mA signalling circuit
17 V signalling circuit
1.5 ms on energisation between NC and NO contact 1.5 ms on de-energisation between NC and NO contact
> 10 MOhm signalling circuit
711 kW 380440 V 3 phases 711 kW 480500 V 3 phases 46 kW 200240 V 3 phases
Direct on-line contactor
24 V DC standard

Environment

IP degree of protection	IP2x front face conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	-4140 °F (-2060 °C)
Ambient air temperature for storage	-76176 °F (-6080 °C)
Permissible ambient air temperature around the device	-40158 °F (-4070 °C) at Uc
Operating altitude	9842.52 ft (3000 m) without derating in temperature
Fire resistance	1562 °F (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 open 10 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms
Height	3.03 in (77 mm)
Width	1.77 in (45 mm)
Depth	3.74 in (95 mm)
Product weight	1.08 lb(US) (0.49 kg)

Ordering and shipping details

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Category		22345 - CTR,D-LINE,OPEN,NONREV-NEW

Discount Schedule	112	
GTIN	00785901207276	
Nbr. of units in pkg.	1	
Package weight(Lbs)	1.15999999999999	
Returnability	Υ	
Country of origin	ID	

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0627 - Schneider Electric declaration of conformity
	Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

Contractual warranty

Warranty period	18 months