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Main

Range	TeSys
Product name	TeSys Deca
Product or Component Type	Changeover contactor
Device short name	LC2D
Contactor application	Resistive load
Utilisation category	AC-1 AC-3 AC-3e AC-4
Device presentation	Preassembled with reversing power busbar
Poles description	4P
Pole contact composition	4 NO
[Ue] rated operational voltage	Power circuit <= 1000 V AC 25...400 Hz Power circuit <= 460 V DC
[Ie] rated operational current	200 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	220 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal current	200 A (at 140 °F (60 °C)) for power circuit
Irms rated making capacity	1260 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	1260 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	250 A 104 °F (40 °C) - 10 min for power circuit 550 A 104 °F (40 °C) - 1 min for power circuit 950 A 104 °F (40 °C) - 10 s for power circuit 1100 A 104 °F (40 °C) - 1 s for power circuit
Associated fuse rating	250 A gG at <= 690 V coordination type 1 for power circuit 200 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	0.6 mOhm - Ith 200 A 50 Hz for power circuit
[Ui] rated insulation voltage	Power circuit 600 V CSA[RETURN]Power circuit 600 V UL[RETURN]Power circuit 1000 V IEC 60947-4-1
Electrical durability	0.5 Mcycles 250 A AC-1 <= 690 V
Power dissipation per pole	24 W AC-1
Protective cover	With
Interlocking type	Mechanical
Mounting Support	Rail Plate
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	UL[RETURN]CSA[RETURN]CCC[RETURN]EAC[RETURN]UKCA[RE GL[RETURN]RINA[RETURN]BV[RETURN]LROS (Lloyds register of shipping)

Connections - terminals	Control circuit screw clamp terminals 2 0.00... 0.00 in ² (1...2.5 mm ²)flexible with cable end Control circuit screw clamp terminals 1 0.00... 0.00 in ² (1...2.5 mm ²)flexible without cable end Control circuit screw clamp terminals 2 0.00... 0.00 in ² (1...2.5 mm ²)flexible without cable end Control circuit screw clamp terminals 1 0.00... 0.00 in ² (1...2.5 mm ²)flexible with cable end Control circuit screw clamp terminals 1 0.00... 0.00 in ² (1...2.5 mm ²)solid without cable end Control circuit screw clamp terminals 2 0.00... 0.00 in ² (1...2.5 mm ²)solid without cable end Power circuit connector 1 0.02...0.19 in ² (10... 120 mm ²)flexible without cable end Power circuit connector 2 0.02...0.08 in ² (10... 50 mm ²)flexible without cable end Power circuit connector 1 0.02...0.19 in ² (10... 120 mm ²)flexible with cable end Power circuit connector 2 0.02...0.08 in ² (10... 50 mm ²)flexible with cable end Power circuit connector 1 0.02...0.19 in ² (10... 120 mm ²)solid without cable end Power circuit connector 2 0.02...0.08 in ² (10... 50 mm ²)solid without cable end
Tightening torque	Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 106.21 lbf.in (12 N.m) connector hexagonal 0.16 in (4 mm) Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals pozidriv No 2
Operating time	20...50 ms closing 6...20 ms opening
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	8000000 cycles
Maximum operating rate	1200 cyc/h 140 °F (60 °C)

Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.3...0.5 Uc -40...131 °F (-40...55 °C) drop-out AC 50 Hz 0.8...1.15 Uc -40...131 °F (-40...55 °C) operational AC 50 Hz
Inrush power in VA	280...350 VA 60 Hz 0.9 68 °F (20 °C)) 280...350 VA 50 Hz 0.9 68 °F (20 °C))
Hold-in power consumption in VA	2...18 VA 68 °F (20 °C)) 0.3 60 Hz 2...18 VA 68 °F (20 °C)) 0.3 50 Hz
Heat dissipation	3...8 W 50/60 Hz

Environment

IP degree of protection	IP20 front face IEC 60529
Climatic withstand	IACS E10
Protective treatment	TH IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	-40...140 °F (-40...60 °C) 140...158 °F (60...70 °C) with derating
Ambient Air Temperature for Storage	-76...176 °F (-60...80 °C)
Operating altitude	0...9842.52 ft (0...3000 m)
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed4 Gn, 5...300 Hz Shocks contactor closed15 Gn for 11 ms Shocks contactor open6 Gn for 11 ms
Height	6.22 in (158 mm)
Width	13.15 in (334 mm)

Depth	5.83 in (148 mm)
Net Weight	16.31 lb(US) (7.4 kg)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.86 in (22.5 cm)
Package 1 Width	12.60 in (32.0 cm)
Package 1 Length	17.13 in (43.5 cm)
Package 1 Weight	16.31 lb(US) (7.4 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes