



Main

Range	TeSys
Product name	TeSys D
Product or component type	Reversing contactor
Device short name	LC2D
Contacteur application	Resistive load Motor control
Utilisation category	AC-3 AC-1
Device presentation	Preamsembled with reversing power busbar
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	Power circuit <= 690 V AC 25...400 Hz Power circuit <= 300 V DC
[Ie] rated operational current	40 A 140 °F (60 °C)) <= 440 V AC AC-3 power circuit 60 A 140 °F (60 °C)) <= 440 V AC AC-1 power circuit
Motor power kW	18.5 kW 380...400 V AC 50 Hz 11 kW 220...230 V AC 50 Hz 22 kW 415...440 V AC 50 Hz 22 kW 500 V AC 50 Hz 30 kW 660...690 V AC 50 Hz
Motor power HP (UL / CSA)	5 hp 230/240 V AC 60 Hz 1 phase 10 hp 230/240 V AC 60 Hz 3 phase 30 hp 575/600 V AC 60 Hz 3 phase 10 hp 200/208 V AC 60 Hz 3 phase 3 hp 115 V AC 60 Hz 1 phase 30 hp 460/480 V AC 60 Hz 3 phase
Control circuit type	DC standard
[Uc] control circuit voltage	24 V DC
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	6 kV IEC 60947

Overvoltage category	III
[Ith] conventional free air thermal current	10 A 140 °F (60 °C) signalling circuit 60 A 140 °F (60 °C) power circuit
Irms rated making capacity	140 A AC signalling circuit IEC 60947-5-1 250 A DC signalling circuit IEC 60947-5-1 800 A 440 V power circuit IEC 60947
Rated breaking capacity	800 A 440 V power circuit IEC 60947
[Icw] rated short-time withstand current	72 A 104 °F (40 °C) - 10 min power circuit 165 A 104 °F (40 °C) - 1 min power circuit 320 A 104 °F (40 °C) - 10 s power circuit 720 A 104 °F (40 °C) - 1 s power circuit 100 A - 1 s signalling circuit 120 A - 500 ms signalling circuit 140 A - 100 ms signalling circuit
Associated fuse rating	10 A gG signalling circuit IEC 60947-5-1 80 A gG ≤ 690 V type 1 power circuit 80 A gG ≤ 690 V type 2 power circuit
Average impedance	1.5 mOhm - Ith 60 A 50 Hz power circuit
[Ui] rated insulation voltage	Power circuit 690 V IEC 60947-4-1 Power circuit 600 V CSA Power circuit 600 V UL Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling circuit 600 V UL
Electrical durability	1.5 Mcycles 40 A AC-3 ≤ 440 V 0.7 Mcycles 60 A AC-1 ≤ 440 V
Power dissipation per pole	2.4 W AC-3 5.4 W AC-1
Safety 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	CCC CSA GOST UL
Connections - terminals	Power circuit EverLink BTR screw connectors 1 0.00...0.05 in ² (1...35 mm ²)flexible without cable end Power circuit EverLink BTR screw connectors 2 0.00...0.04 in ² (1...25 mm ²)flexible without cable end Power circuit EverLink BTR screw connectors 1 0.00...0.05 in ² (1...35 mm ²)flexible with cable end Power circuit EverLink BTR screw connectors 2 0.00...0.04 in ² (1...25 mm ²)flexible with cable end Power circuit EverLink BTR screw connectors 1 0.00...0.05 in ² (1...35 mm ²)solid without cable end Power circuit EverLink BTR screw connectors 2 0.00...0.04 in ² (1...25 mm ²)solid without cable end Control circuit spring terminals 1 0.00...0.00 in ² (0.75...2.5 mm ²)flexible without cable end Control circuit spring terminals 2 0.00...0.00 in ² (0.75...2.5 mm ²)flexible without cable end
Tightening torque	Power circuit 70.81 lbf.in (8 N.m) EverLink BTR screw connectors 0.04...0.05 in ² (25...35 mm ²) hexagonal 0.16 in (4 mm) Power circuit 44.25 lbf.in (5 N.m) EverLink BTR screw connectors 0.00...0.04 in ² (1...25 mm ²) hexagonal 0.16 in (4 mm)
Operating time	16...24 ms opening 42.5...57.5 ms closing
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 2000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	10 Mcycles
Maximum operating rate	3600 cyc/h 140 °F (60 °C)

Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	Drop-out 0.1...0.3 Uc DC 140 °F (60 °C)) Operational 0.75...1.25 Uc DC 140 °F (60 °C))

Time constant	34 ms
Inrush power in W	19 W 68 °F (20 °C))
Hold-in power consumption in W	7.4 W 68 °F (20 °C)
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1
Signalling circuit frequency	25...400 Hz
Minimum switching current	5 mA signalling circuit
Minimum switching voltage	17 V signalling circuit
Non-overlap time	1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact
Insulation resistance	> 10 MOhm signalling circuit

Environment

IP degree of protection	IP20 front face IEC 60529
Protective treatment	TH IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	23...140 °F (-5...60 °C)
Ambient air temperature for storage	-76...176 °F (-60...80 °C)
Permissible ambient air temperature around the device	-40...158 °F (-40...70 °C) at Uc
Operating altitude	9842.52 ft (3000 m) without
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 UL 94
Mechanical robustness	Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed4 Gn, 5...300 Hz Shocks contactor open10 Gn for 11 ms Shocks contactor closed15 Gn for 11 ms
Height	4.80 in (122 mm)
Width	4.69 in (119 mm)
Depth	4.72 in (120 mm)
Net weight	4.45 lb(US) (2.02 kg)

Ordering and shipping details

Category	22358 - CTR, TESYS D, OPEN, 40-65A DC
Discount Schedule	I12
GTIN	03389118341296
Returnability	No
Country of origin	FR

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
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.

Contractual warranty

Warranty	18 months
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