



Reversing contactor, TeSys Deca, 3P(3 NO), AC-3, 0 to 440V, 12A, 24VAC 50/60Hz coil TQPKG

LC2D12B7TQ

Discontinued on: Jan 11, 2022

! Discontinued

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range	TeSys
	TeSys Deca
Product name	TeSys Deca TeSys Deca
Product or Component Type	Reversing contactor
Device short name	LC2D
contactor application	Resistive load Motor control
Utilisation category	AC-1 AC-3
Device presentation	Preassembled with reversing power busbar
poles description	3P
power pole contact composition	3 NO
[Ue] rated operational voltage	Power circuit <= 690 V AC 25400 Hz Power circuit <= 300 V DC
[le] rated operational current	25 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 12 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit
Motor power kW	3 kW at 220230 V AC 50 Hz 5.5 kW at 380400 V AC 50 Hz 5.5 kW at 415440 V AC 50 Hz 7.5 kW at 500 V AC 50 Hz 7.5 kW at 660690 V AC 50 Hz
motor power HP (UL / CSA)	1 hp at 115 V AC 60 Hz for 1 phase motors 3 hp at 200/208 V AC 60 Hz for 3 phase motors 10 hp at 575600 V AC 60 Hz for 3 phase motors 7.5 hp at 460480 V AC 60 Hz for 3 phase motors 3 hp at 220240 V AC 60 Hz for 3 phase motors 2 hp at 230240 V AC 60 Hz for 1 phase motors
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	24 V AC 50/60 Hz
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 (at 140 °F (60 °C)) for signalling circuit 25 A (at 140 °F (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 60947-5-1 250 A at 440 V for power circuit conforming to IEC 60947-4

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

Rated breaking capacity	250 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand	105 A 104 °F (40 °C) - 10 s for power circuit
current	210 A 104 °F (40 °C) - 1 s for power circuit
	30 A 104 °F (40 °C) - 10 min for power circuit
	61 A 104 °F (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
Average impedance	2.5 mOhm - Ith 25 A 50 Hz for 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	2 Mcycles 12 A AC-3 <= 440 V
	0.8 Mcycles 25 A AC-1 <= 440 V
Power dissipation per pole	1.56 W AC-1
	0.36 W AC-3
Front cover	With
Interlocking type	Mechanical
Mounting Support	Plate
	Rail
Standards	CSA C22 2 No. 14
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	BV
	CCC
	CSA
	DNV
	GL
	RINA
	UL FAC
	EAC
Connections - terminals	Power circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)flexible without cable end
	Power circuit screw clamp terminals 2 0.0020.006 in² (14 mm²)flexible without
	cable end Power circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)flexible with cable
	end
	Power circuit screw clamp terminals 2 0.0020.004 in² (12.5 mm²)flexible with
	cable end Power circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)solid without
	cable end Power circuit screw clamp terminals 2 0.0020.006 in² (14 mm²)solid without
	cable end Control circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)flexible without
	cable end
	Control circuit screw clamp terminals 2 0.0020.006 in ² (14 mm ²)flexible without cable end
	Control circuit screw clamp terminals 1 0.0020.006 in ² (14 mm ²)flexible with cable end
	Control circuit screw clamp terminals 2 0.0020.004 in ² (12.5 mm ²)flexible with cable end
	Control circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)solid without cable end
	Control circuit screw clamp terminals 2 0.0020.006 in² (14 mm²)solid without
	cable end

Tightening torque	Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm
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	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals hat 9 0 mm
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2
	Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2
Operating time	1222 ms closing
	419 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	15000000 cycles
Maximum operating rate	3600 cyc/h 140 °F (60 °C)

Complementary

Coil technology	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	70 VA 60 Hz 0.75 68 °F (20 °C)) 70 VA 50 Hz 0.75 68 °F (20 °C))
Hold-in power consumption in VA	7.5 VA 68 °F (20 °C)) 0.3 60 Hz 7 VA 68 °F (20 °C)) 0.3 50 Hz
Heat dissipation	23 W 50/60 Hz
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1
Signalling circuit frequency	25400 Hz
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for 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 for signalling circuit

Environment

IP degree of protection	IP20 front face IEC 60529
Climatic withstand	IACS E10 IEC 60947-1 Annex Q category D
Protective treatment	TH IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	-40140 °F (-4060 °C) 140158 °F (6070 °C) with derating
Ambient Air Temperature for Storage	-76176 °F (-6080 °C)
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	Vibrations contactor open2 Gn, 5300 Hz Vibrations contactor closed4 Gn, 5300 Hz Shocks contactor closed10 Gn for 11 ms Shocks contactor open15 Gn for 11 ms
Height	3.03 in (77 mm)

Width	3.5 in (90 mm)
Depth	3.4 in (86 mm)
Net Weight	1.537 lb(US) (0.697 kg)

Ordering and shipping details

Category	US10l1222354
Discount Schedule	0112
GTIN	3606480191503
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.9 in (20 cm)
Package 1 Width	8.7 in (22 cm)
Package 1 Length	19.7 in (50 cm)
Package 1 Weight	1.79 lb(US) (0.81 kg)

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

⊘	Reach Free Of Svhc
⊘	Toxic Heavy Metal Free
⊘	Mercury Free
⊘	Rohs Exemption Information Yes
⊘	Pvc Free

Certifications & Standards

Eu Rohs Directive	Compliant
	EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
	Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	End of Life Information
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