Product data sheet

Specifications

Changeover contactor, TeSys Deca, 4P(4 NO), AC-1, <= 440 V 125 A - 690 V AC coil

LC2D80004Y5

Discontinued

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 prewired power connections
Poles description	4P
power pole contact composition	4 NO
[Ue] rated operational voltage	Power circuit <= 690 V AC 25...400 Hz Power circuit <= 300 V DC
[Ie] rated operational current	125 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 80 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 80 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit 55 A (at <140 °F (60 °C)) at <= 400 V AC AC-4 for power circuit
Control circuit type	AC 50 Hz
[Uc] control circuit voltage	690 V AC 50 Hz
[Uimp] rated impulse withstand voltage	8 kV IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal current	125 A (at 140 °F (60 °C)) for power circuit
Irms rated making capacity	1100 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	1100 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	135 A 104 °F (40 °C) - 10 min for power circuit 320 A 104 °F (40 °C) - 1 min for power circuit 640 A 104 °F (40 °C) - 10 s for power circuit 990 A 104 °F (40 °C) - 1 s for power circuit
Associated fuse rating	200 A gG at <= 690 V coordination type 1 for power circuit 160 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	0.8 mOhm - Ith 125 A 50 Hz for power circuit
[Ui] rated insulation voltage	Power circuit 600 V CSA Power circuit 600 V UL Power circuit 1000 V IEC 60947-4-1
Electrical durability	0.8 Mcycles 125 A AC-1 <= 440 V

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

Power dissipation per pole	12.5 W AC-1
Front cover	Without
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	CSA DNV UL LROS (Lloyds register of shipping) RINA GOST BV GL CCC
Connections - terminals	Control circuit screw clamp terminals 1 0.002…0.006 in² (1…4 mm²)flexible without cable end Control circuit screw clamp terminals 2 0.002…0.006 in² (1…4 mm²)flexible without cable end Control circuit screw clamp terminals 2 0.002…0.004 in² (1…2.5 mm²)flexible with cable end Control circuit screw clamp terminals 1 0.002…0.006 in² (1…4 mm²)solid Control circuit screw clamp terminals 2 0.002…0.006 in² (1…4 mm²)solid Control circuit screw clamp terminals 1 0.002…0.004 in² (1…2.5 mm²)flexible with cable end Power circuit connector 1 0.006…0.08 in² (4…50 mm²)flexible without cable end Power circuit connector 2 0.006…0.04 in² (4…25 mm²)flexible without cable end Power circuit connector 1 0.006…0.08 in² (4…50 mm²)flexible with cable end Power circuit connector 2 0.006…0.02 in² (4…16 mm²)flexible with cable end Power circuit connector 1 0.006…0.08 in² (4…50 mm²)solid Power circuit connector 2 0.006…0.04 in² (4…25 mm²)solid
Tightening torque	Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 106.2 lbf.in (12 N.m) connector flat Ø 6 to Ø 8 mm Power circuit 106.2 lbf.in (12 N.m) connector hexagonal 0.2 in (4 mm)
Operating time	20...35 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	10 Mcycles
Maximum operating rate	3600 cyc/h 140 °F (60 °C)

Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.3...0.6 Uc (-40…158 °F (-40…70 °C)):drop-out AC 50 Hz 0.85...1.1 Uc (-40…131 °F (-40…55 °C)):operational AC 50 Hz 1...1.1 Uc (131…158 °F (55…70 °C)):operational AC 50 Hz
Inrush power in VA	200 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C))
Hold-in power consumption in VA	20 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))
Heat dissipation	6…10 W 50 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 Shocks contactor open8 Gn for 11 ms Vibrations contactor closed3 Gn, 5...300 Hz Shocks contactor closed10 Gn for 11 ms
Height	5 in (127 mm)
Width	8.1 in (207 mm)
Depth	6.2 in (158 mm)
Net Weight	7.05 lb(US) (3.2 kg)

Ordering and shipping details

Category	22359-CTR,TESYS D,OPEN,80-150A AC&DC
Discount Schedule	I12
GTIN	3389110086928
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Use Better

Materials and Substances

EU RoHS Directive	**Compliant**
PVC free	**Yes**

Use Longer

Lifetime extension

Repair	**No**

Use Again

Repack and remanufacture

WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.**