Product datasheet

Specifications

, → Green Premium[™]



TeSys D changeover contactor -4P(4 NO) - AC-1 - <= 440 V 25 A -24 V AC coil

LC2DT25B7

() Discontinued on: 10 Oct 2020

① Discontinued

Main

Mann		
Range	TeSys	
Product name	TeSys Deca	
product or component type	Changeover contactor	
Device short name	LC2D	
contactor application	Resistive load	
Utilisation category	AC-1	
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 25400 Hz Power circuit: <= 300 V DC	
[le] rated operational current	25 A (at <60 °C) at <= 440 V AC AC-1 for power circuit	
Control circuit type	AC at 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 conforming to IEC 60947	
Overvoltage category	III	
[Ith] conventional free air thermal current	10 A (at 60 °C) for signalling circuit 25 A (at 60 °C) for power circuit	
Irms rated making capacity	250 A at 440 V for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1	
Rated breaking capacity	250 A at 440 V for power circuit conforming to IEC 60947	
[Icw] rated short-time withstand current	30 A 40 °C - 10 min for power circuit 61 A 40 °C - 1 min for power circuit 105 A 40 °C - 10 s for power circuit 210 A 40 °C - 1 s 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 40 A gG at <= 690 V coordination type 1 for power circuit 25 A gG at <= 690 V coordination type 2 for power circuit	
Average impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit	

Power circuit: 690 V conforming to IEC 60947-4-1
Power circuit: 600 V CSA certified
Power circuit: 600 V UL certified
Signalling circuit: 690 V conforming to IEC 60947-1
Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified
0.8 Mcycles 25 A AC-1 at Ue <= 440 V
1.56 W AC-1
With
Mechanical
Rail
Plate
CSA C22.2 No 14
EN 60947-4-1
EN 60947-5-1
IEC 60947-4-1
IEC 60947-5-1
UL 508
LROS (Lloyds register of shipping)
RINA
CSA
GL
GOST
DNV
CCC
BV
UL
Power circuit: screw clamp terminals 1 cable(s) 14 mm ² flexible without cable end
Power circuit: screw clamp terminals 2 cable(s) 14 mm ² flexible without cable end
Power circuit: screw clamp terminals 1 cable(s) 14 mm ² flexible with cable end
Power circuit: screw clamp terminals 2 cable(s) 12.5 mm ² flexible with cable end
Power circuit: screw clamp terminals 1 cable(s) 14 mm ² solid
Power circuit: screw clamp terminals 2 cable(s) 14 mm ² solid
Control circuit: screw clamp terminals 1 cable(s) 14 mm ² flexible without cable end
Control circuit: screw clamp terminals 2 cable(s) 14 mm ² flexible without cable end
Control circuit: screw clamp terminals 1 cable(s) 14 mm ² flexible with cable end
Control circuit: screw clamp terminals 2 cable(s) 12.5 mm ² flexible with cable end
Control circuit: screw clamp terminals 1 cable(s) 14 mm ² solid Control circuit: screw clamp terminals 2 cable(s) 14 mm ² solid
Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2
Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat \emptyset 6 mm
Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2
F F F F
1222 ms closing 419 ms opening
1222 ms closing
1222 ms closing 419 ms opening
1222 ms closing 419 ms opening B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO
1222 ms closing 419 ms opening 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

Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz 0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-40��60 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 50/60 Hz
Inrush power in VA	70 VA 60 Hz cos phi 0.75 (at 20 °C) 70 VA 50 Hz cos phi 0.75 (at 20 °C)
Hold-in power consumption in VA	7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7 VA 50 Hz cos phi 0.3 (at 20 °C)

Heat dissipation	23 W at 50/60 Hz	
Auxiliary contacts type	type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to 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 conforming to IEC 60529	
Climatic withstand	conforming to IACS E10 conforming to IEC 60947-1 Annex Q category D	
Protective treatment	TH conforming to IEC 60068-2-30	
Pollution degree	3	
Ambient air temperature for operation	-4060 °C 6070 °C with derating	
ambient air temperature for storage	-6080 °C	
Operating altitude	03000 m	
Fire resistance	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	85 mm	
Width	90 mm	
Depth	90 mm	
net weight	0.73 kg	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.48 cm
Package 1 Width	9 cm
Package 1 Length	9.2 cm
Package 1 Weight	730 g

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



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)
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins