Product datasheet

Specifications





Changeover Contactor, TeSys Deca, 4P(4NO), AC-1, <=440V, 125A, 220V AC 50/60Hz coil 50Hz, screw clamp terminals

LC2D80004M5

() Discontinued

() Discontinued on: Jul 10, 2021

Main

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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 25400 Hz
[be] hated operational teltage	Power circuit: <= 300 V DC
[le] Rated Operational Current	125 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
	80 A (at <60 °C) at <= 440 V AC AC-3 for power circuit
	80 A (at <60 °C) at <= 440 V AC AC-3e for power circuit
	55 A (at <60 °C) at <= 400 V AC AC-4 for power circuit
Control Circuit Type	AC at 50 Hz
[Uc] Control Circuit Voltage	220 V AC 50 Hz
[Uimp] Rated Impulse Withstand Voltage	8 kV conforming to IEC 60947
Overvoltage Category	III
[Ith] Conventional Free Air Thermal Current	125 A (at 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	135 A 40 °C - 10 min for power circuit
Current	320 A 40 °C - 1 min for power circuit
	640 A 40 °C - 10 s for power circuit
	990 A 40 °C - 1 s for power circuit
Associated Fuse Pating	200 A aC at an 600 V according tion type 1 for a surger singuit
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 certified
	Power circuit: 600 V UL certified
	Power circuit: 1000 V conforming to IEC 60947-4-1

Electrical Durability	0.8 Mcycles 125 A AC-1 at Ue <= 690 V
Power Dissipation Per Pole	12.5 W AC-1
Front Cover	Without
Interlocking Type	Mechanical
Mounting Support	Plate Rail
Standards	CSA C22.2 No 60947-4-1 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1
	IEC 60947-5-1 UL 60947-4-1 UL 60947-5-1 CSA C22.2 No 60947-5-1 GB/T 14048.4
Product Certifications	UL CSA RINA CCC DNV-GL LROS (Lloyds register of shipping) BV UKCA EAC CB
Connections - Terminals	Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 125 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid Control circuit: connector 1 cable(s) 450 mm²flexible without cable end Power circuit: connector 1 cable(s) 450 mm²flexible without cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 2 cable(s) 416 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 2 cable(s) 425 mm²solid
Tightening Torque	Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 12 N.m - on connector - with screwdriver flat Ø 6 to Ø 8 mm Power circuit: 12 N.m - on connector hexagonal screw head 4 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver pozidriv No 2
Operating Time	2035 ms closing 620 ms opening
Safety Reliability Level	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
Mechanical Durability	10 Mcycles
Maximum Operating Rate	3600 cyc/h 60 °C

Complementary

Coil Technology	Without built-in suppressor module
Control Circuit Voltage Limits	0.30.6 Uc (-4055 °C):drop-out AC 50 Hz 0.851.1 Uc (-4055 °C):operational AC 50 Hz
Inrush Power In Va	200 VA 50 Hz cos phi 0.75 (at 20 °C)
Hold-In Power Consumption In Va	20 VA 50 Hz cos phi 0.3 (at 20 °C)
Heat Dissipation	610 W at 50 Hz

Environment

Ip Degree Of Protection	IP20 front face conforming to IEC 60529
Climatic Withstand	conforming to IACS E10
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 Shocks contactor open: 8 Gn for 11 ms Vibrations contactor closed: 3 Gn, 5300 Hz Shocks contactor closed: 10 Gn for 11 ms
Height	127 mm
Width	207 mm
Depth	158 mm
Net Weight	3.2 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	18.0 cm
Package 1 Width	18.5 cm
Package 1 Length	25.0 cm
Package 1 Weight	3.952 kg
Unit Type Of Package 2	S06
Number Of Units In Package 2	18
Package 2 Height	73.5 cm
Package 2 Width	60.0 cm
Package 2 Length	80.0 cm
Package 2 Weight	84.136 kg

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 >



Transparency RoHS/REACh

Well-being performance

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

Certifications & Standards

Reach Regulation	REACh Declaration
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	No need of specific recycling operations