Product datasheet





TeSys D reversing contactor -3P(3 NO) - AC-3 - <= 440 V 25 A -240 V AC coil

LC2D25U7V

! Discontinued on: 10 Oct 2020

① Discontinued

Main

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Range	TeSys
Product name	TeSys Deca
product or component type	Reversing contactor
Device short name	LC2D
contactor application	Motor control
• •	Resistive load
Utilisation category	AC-3
ounsation category	AC-1
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 <60 °C) at <= 440 V AC AC-3 for power circuit
[]	40 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
Motor power kW	5.5 kW at 220230 V AC 50 Hz
•	11 kW at 380400 V AC 50 Hz
	11 kW at 415440 V AC 50 Hz
	15 kW at 500 V AC 50 Hz
	15 kW at 660690 V AC 50 Hz
motor power HP (UL / CSA)	3 hp at 230/240 V AC 60 Hz for 1 phase motors
• • • •	5 hp at 200/208 V AC 60 Hz for 3 phases motors
	2 hp at 115 V AC 60 Hz for 1 phase motors
	7.5 hp at 230/240 V AC 60 Hz for 3 phases motors
	15 hp at 460/480 V AC 60 Hz for 3 phases motors
	20 hp at 575/600 V AC 60 Hz for 3 phases motors
Control circuit type	AC at 50/60 Hz
[Uc] control circuit voltage	240 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 40 A (at 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 60947-5-1 450 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	450 A at 440 V for power circuit conforming to IEC 60947



50 A 40 °C - 10 min for power circuit 120 A 40 °C - 1 min for power circuit 240 A 40 °C - 10 s for power circuit 380 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 10 A gG for signalling circuit conforming to IEC 60947-5-1 63 A gG at <= 690 V coordination type 1 for power circuit 2 mOhm - Ith 40 A 50 Hz for power circuit
240 A 40 °C - 10 s for power circuit 380 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 10 A gG for signalling circuit conforming to IEC 60947-5-1 63 A gG at <= 690 V coordination type 1 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit 2 mOhm - Ith 40 A 50 Hz for power circuit
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40 A gG at <= 690 V coordination type 2 for power circuit 2 mOhm - Ith 40 A 50 Hz for power circuit
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Device circuit 600 V conferming to IEO 60047 4.4
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
Signalling circuit. 000 v OL certified
1.65 Mcycles 25 A AC-3 at Ue <= 440 V 1.4 Mcycles 40 A AC-1 at Ue <= 440 V
1.25 W AC-3
3.2 W AC-1
With
Electrical and mechanical
Plate Rail
CSA C22.2 No 14
EN 60947-4-1
EN 60947-5-1
IEC 60947-4-1
IEC 60947-5-1 UL 508
GL
LROS (Lloyds register of shipping)
BV
DNV
GOST
UL CSA
CCC
RINA
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 1 cable(s) 14 mm²flexible with cable end
Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end
Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid
Power circuit: screw clamp terminals 2 cable(s) 14 mm solid Power circuit: screw clamp terminals 1 cable(s) 2.510 mm²flexible without cable
end
Power circuit: screw clamp terminals 2 cable(s) 2.510 mm²flexible without cable
end
Power circuit: screw clamp terminals 1 cable(s) 110 mm²flexible with cable end
Power circuit: screw clamp terminals 2 cable(s) 1.56 mm²flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 1.510 mm²solid
Power circuit: screw clamp terminals 1 cable(s) 1.510 mm² solid Power circuit: screw clamp terminals 2 cable(s) 2.510 mm² solid
Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm
Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2
Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm
Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver Philips No 2
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
15 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 (-4070 °C):drop-out AC 50/60 Hz
	0.81.1 Uc (-4060 °C):operational AC 50 Hz
	0.851.1 Uc (-4060 °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 closed: 15 Gn for 11 ms Shocks contactor open: 8 Gn for 11 ms
Height	85 mm
Width	90 mm
Depth	92 mm
net weight	0.787 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	10.9 cm

Package 1 Width	11.4 cm	
Package 1 Length	11.8 cm	
Package 1 Weight	815 a	

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