Product data sheet

Specification





Reversing Contactor, TeSys Deca, 3P(3NO),AC-3, <=440V 40A,24V DC coil, screw clamp terminals

LC2D40ABD

Main

Range	TeSys
range	·
	TeSys Deca
Product name	TeSys Deca
	TeSys Deca
	Tedys Deca
product or component type	Reversing contactor
	Treversing contactor
Device short name	LC2D
contactor application	Motor control
	Resistive load
Utilisation category	AC-3
	AC-1
	AC-3e
device presentation	Preassembled with reversing power busbar
·	
poles description	3P
power pole contact composition	3 NO
[He] mated anomatics of welfare	Device size it 4, 000 V AO OF 400 U
[Ue] rated operational voltage	Power circuit <= 690 V AC 25400 Hz
	Power circuit <= 300 V DC
[lo] roted enerational current	40 A (-1 4440 °F (00 °O)) -1 4 440 V AO AO O Service size it
[le] rated operational current	40 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit
	60 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit
	40 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
Motor power kW	44 I/M = 1000 000 V AC EO CO I I =
Motor power kw	11 kW at 220230 V AC 5060 Hz
	18.5 kW at 380400 V AC 5060 Hz
	22 kW at 415 V AC 5060 Hz
	22 kW at 440 V AC 5060 Hz
	22 kW at 500 V AC 5060 Hz
	30 kW at 660690 V AC 5060 Hz
motor power HP (UL / CSA)	5 hp at 230/240 V AC 60 Hz for 1 phase motors
	10 hp at 230/240 V AC 60 Hz for 3 phases motors
	30 hp at 575/600 V AC 60 Hz for 3 phases motors
	10 hp at 200/208 V AC 60 Hz for 3 phases motors
	3 hp at 115 V AC 60 Hz for 1 phase motors
	30 hp at 460/480 V AC 60 Hz for 3 phases motors
Control circuit type	DC standard
[Uc] control circuit voltage	24 V DC
auxiliary contact composition	1 NO + 1 NC
[Himm] noted immules with starrel	CIA/IEO 00047
[Uimp] rated impulse withstand voltage	6 kV IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal	10 A (at 140 °F (60 °C)) for signalling circuit
current	60 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
	800 A at 440 V for power circuit conforming to IEC 60947
	,

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Rated breaking capacity	800 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand	72 A 104 °F (40 °C) - 10 min for power circuit
current	165 A 104 °F (40 °C) - 10 min for power circuit
	320 A 104 °F (40 °C) - 10 s for power circuit
	720 A 104 °F (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
	80 A gG at <= 690 V coordination type 1 for power circuit
	80 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	1.5 mOhm - Ith 60 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
Fig. 4.5 - 1 doublish.	
Electrical durability	1.5 Mcycles 40 A AC-3 <= 440 V 0.7 Mcycles 60 A AC-1 <= 440 V
	1.5 Mcycles 40 A AC-1 <= 440 V
Davis dissination non note	
Power dissipation per pole	2.4 W AC-3 5.4 W AC-1
	2.4 W AC-3e
Front cover	With
Interlocking type	Mechanical
mounting support	Plate
mounting support	Rail
	·
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	UL
	CSA
	RINA
	GOST CCC
	DNV
	LROS (Lloyds register of shipping)
	GL
	BV UKCA
Connections - terminals	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 in² (14 mm²)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 0.000.01 in² (14 mm²)solid
	Control circuit screw clamp terminals 2 0.000.01 in² (14 mm²)solid
	Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²)flexible
	without cable end Power circuit EverLink BTR screw connectors 2 0.000.04 in² (125 mm²)flexible
	without cable end
	Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²)flexible
	with cable end
	Power circuit EverLink BTR screw connectors 2 0.000.04 in ² (125 mm ²)flexible with cable end
	Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²)solid
	Power circuit EverLink BTR screw connectors 2 0.000.04 in² (125 mm²)solid

	
Tightening torque	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 Philips No 2
	Power circuit 70.8 lbf.in (8 N.m) EverLink BTR screw connectors 0.040.05 in ² (25
	35 mm²) hexagonal 0.2 in (4 mm)
	Power circuit 44.3 lbf.in (5 N.m) EverLink BTR screw connectors 0.0020.04 in ² (1
	25 mm²) hexagonal 0.2 in (4 mm)
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2
	Power circuit 22.1 lbf.in (2.5 N.m) screw clamp terminals pozidriv No 2
Operating time	1624 ms opening
	42.557.5 ms closing
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 aparating rate	0000
Maximum operating rate	3600 cyc/h 140 °F (60 °C)

Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.10.3 Uc -40158 °F (-4070 °C) drop-out DC 0.751.25 Uc -40140 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °C) operational DC
Time constant	34 ms
Inrush power in W	19 W 68 °F (20 °C))
Hold-in power consumption in W	7.4 W 68 °F (20 °C)
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	03000 m
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 UL 94
Mechanical robustness	Vibrations contactor open2 Gn, 5300 Hz Vibrations contactor closed4 Gn, 5300 Hz Shocks contactor open10 Gn for 11 ms Shocks contactor closed15 Gn for 11 ms
Height	4.8 in (122 mm)
Width	4.7 in (119 mm)

Depth	4.7 in (120 mm)
net weight	4.45 lb(US) (2.02 kg)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.5 in (14.0 cm)
Package 1 Width	6.4 in (16.2 cm)
Package 1 Length	7.8 in (19.8 cm)
Package 1 Weight	4.780 lb(US) (2.168 kg)

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

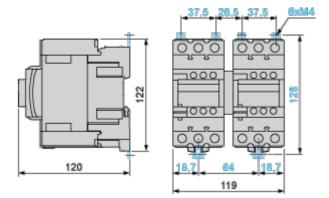
⊘	Reach Free Of Svhc	
Ø	Mercury Free	
⊘	Rohs Exemption Information	Yes
⊘	Pvc Free	

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	End of Life Information

Dimensions Drawings

Dimensions



Connections and Schema

Wiring

