# **Product datasheet**





### Reversing contactor, TeSys Deca, 3P(3NO), AC-3/AC-3e, <=440V, 65À, 24V DC coil, EverLink BTR screws

LC2D65ABBE

#### Main

IVIAIII		
Range	TeSys TeSys Deca	
Product name	Tesys Deca green TeSys Deca	
product or component type	Reversing contactor	
Device short name	LC2D	
contactor application	Motor control Resistive load	
Utilisation category	AC-3 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	
[le] rated operational current	80 A (at <60 °C) at <= 440 V AC-1 for power circuit 65 A (at <60 °C) at <= 440 V AC-3 for power circuit	
Motor power kW	18.5 kW at 220230 V AC 50 Hz 30 kW at 380400 V AC 50 Hz 37 kW at 415 V AC 50 Hz 37 kW at 440 V AC 50 Hz 37 kW at 500 V AC 50 Hz 37 kW at 660690 V AC 50 Hz	
motor power HP (UL / CSA)	5 hp at 115 V AC 60 Hz for 1 phase motors 10 hp at 230/240 V AC 60 Hz for 1 phase motors 20 hp at 200/208 V AC 60 Hz for 3 phases motors 20 hp at 230/240 V AC 60 Hz for 3 phases motors 40 hp at 460/480 V AC 60 Hz for 3 phases motors 50 hp at 575/600 V AC 60 Hz for 3 phases motors	
Control circuit type	DC DC low consumption	
[Uc] control circuit voltage	24 V DC	
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 80 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 1000 A at 440 V for power circuit conforming to IEC 60947	
Rated breaking capacity	1000 A at 440 V for power circuit conforming to IEC 60947	

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[lcw] rated short-time withstand	100 A - 1 s for signalling circuit
current	120 A - 500 ms for signalling circuit
	140 A - 100 ms for signalling circuit
	520 A 40 °C - 10 s for power circuit
	900 A 40 °C - 1 s for power circuit
	110 A 40 °C - 10 min for power circuit 260 A 40 °C - 1 min for power circuit
A	·
Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947-5-1
	125 A gG at <= 690 V coordination type 1 for power circuit 125 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	1.5 mOhm - Ith 80 A 50 Hz for power circuit
[Ui] rated insulation voltage	Power circuit: 690 V conforming to IEC 60947-4-1
	Signalling circuit: 690 V conforming to IEC 60947-1
Electrical durability	1.8 Mcycles 57 A AC-3 at Ue <= 440 V
	0.5 Mcycles 80 A AC-1 at Ue <= 440 V
Power dissipation per pole	9.6 W AC-1 6.3 W AC-3
Front cover	With
Interlocking type	Mechanical
mounting support	Rail Plate
01	
Standards	EN/IEC 60947-4-1
	EN/IEC 60947-5-1 UL 60947-4-1
	UL 60947-4-1 CSA C22.2 No 60947-4-1
	IEC 60335-1
Product certifications	CCC
	CSA
	EAC
	UL
	KC DNV-GL
	LROS (Lloyds register of shipping)
	UKCA
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 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: EverLink BTR screw connectors 1 cable(s) 135 mm²flexible without cable end
	Power circuit: EverLink BTR screw connectors 2 cable(s) 125 mm²flexible without
	cable end
	Power circuit: EverLink BTR screw connectors 1 cable(s) 135 mm²flexible with
	cable end
	Power circuit: EverLink BTR screw connectors 2 cable(s) 125 mm²flexible with
	cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 135 mm²solid
	Power circuit: EverLink BTR screw connectors 2 cable(s) 125 mm²solid
Tightening torque	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: 8 N.m - on EverLink BTR screw connectors - cable 2535 mm <sup>2</sup>
	hexagonal screw head 4 mm
	Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm <sup>2</sup> hexagonal screw head 4 mm
Operating time	5565 ms closing
	20120 ms opening (date code >= 17221)
	2080 ms opening (date code >= 18011)
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	6 Mcycles
Maximum operating rate	3600 cyc/h 60 °C

## Complementary

Coil technology	Built-in bidirectional peak limiting	
Control circuit voltage limits	<= 0.1 Uc (-4070 °C):drop-out DC 0.81.2 Uc (-4060 °C):operational DC 11.2 Uc (6070 °C):operational DC	
Inrush power in W	11 W at 20 °C	
Hold-in power consumption in W	0.5 W at 20 °C	
Heat dissipation	0.5 W	
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	122 mm	
Width	119 mm	
Depth	120 mm	
net weight	2.174 kg	
Colour	Grey (SE GREY 6) Green (SE GREEN 2)	

## **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14.4 cm
Package 1 Width	16.2 cm
Package 1 Length	19.8 cm

Package 1 Weight	2.361 kg
Unit Type of Package 2	S03
Number of Units in Package 2	4
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	9.959 kg

#### **Contractual warranty**

Warranty 18 months



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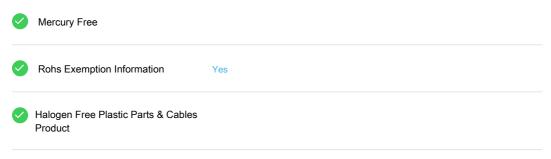
Guide to assess a product's sustainability >





Transparency RoHS/REACh

#### Well-being performance



#### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration  Product out of China RoHS scope. Substance declaration for your information
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