# **Product datasheet**





# Contactor, TeSys Deca, 3P(3 NO), AC-3/AC-3e, <=400V, 40A, 24V DC standard coil, spring terminals

LC1D40A3BD

#### Main

TeSys TeSys Deca
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TeSys Deca
Contactor
LC1D
Motor control
Resistive load
AC-4
AC-1
AC-3
AC-3e
3P
Power circuit: <= 690 V AC 25400 Hz
Power circuit: <= 300 V DC
60 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
40 A (at <60 °C) at <= 440 V AC AC-3 for power circuit
40 A (at <60 °C) at <= 440 V AC AC-3e for power circuit
24 V DC

### Complementary

Motor Power Kw	18.5 kW at 380400 V AC 50/60 Hz (AC-3)
	11 kW at 220230 V AC 50/60 Hz (AC-3)
	22 kW at 415440 V AC 50/60 Hz (AC-3)
	22 kW at 500 V AC 50/60 Hz (AC-3)
	30 kW at 660690 V AC 50/60 Hz (AC-3)
	9 kW at 400 V AC 50/60 Hz (AC-4)
	18.5 kW at 380400 V AC 50/60 Hz (AC-3e)
	11 kW at 220230 V AC 50/60 Hz (AC-3e)
	22 kW at 415440 V AC 50/60 Hz (AC-3e)
	22 kW at 500 V AC 50/60 Hz (AC-3e)
	30 kW at 660690 V AC 50/60 Hz (AC-3e)
Motor Power Hp	5 hp at 230/240 V AC 50/60 Hz for 1 phase motors
	10 hp at 230/240 V AC 50/60 Hz for 3 phases motors
	30 hp at 575/600 V AC 50/60 Hz for 3 phases motors
	10 hp at 200/208 V AC 50/60 Hz for 3 phases motors
	3 hp at 115 V AC 50/60 Hz for 1 phase motors
	30 hp at 460/480 V AC 50/60 Hz for 3 phases motors
Compatibility Code	LC1D
Pole Contact Composition	3 NO
Protective Cover	With
[Ith] Conventional Free Air	10 A (at 60 °C) for signalling circuit
Thermal Current	60 A (at 60 °C) for power circuit

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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
Rated Breaking Capacity	800 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand	320 A 40 °C - 10 s for power circuit
Current	720 A 40 °C - 1 s for power circuit
	72 A 40 °C - 10 min for power circuit
	165 A 40 °C - 1 min 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
Power Dissipation Per Pole	2.4 W AC-3
	5.4 W AC-1
	2.4 W AC-3e
[Ui] Rated Insulation Voltage	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
	Power circuit: 690 V conforming to IEC 60947-4-1
Overvoltage Category	III
Pollution Degree	3
[Uimp] Rated Impulse Withstand Voltage	6 kV conforming to IEC 60947
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
	10 Mcycles
Floodwined Downhilling	·
Electrical Durability	0.7 Mcycles 60 A AC-1 at Ue <= 440 V
	1.5 Mcycles 40 A AC-3 at Ue <= 440 V
	1.5 Mcycles 40 A AC-3e at Ue <= 440 V
Control Circuit Type	DC standard
Coil Technology	Built-in bidirectional peak limiting diode suppressor
Control Circuit Voltage Limits	0.10.3 Uc (-4070 °C):drop-out DC
	0.751.25 Uc (-4060 °C):operational DC
	11.25 Uc (6070 °C):operational DC
Inrush Power In W	19 W (at 20 °C)
Hold-In Power Consumption In W	7.4 W at 20 °C
Operating Time	50 ±15 % ms closing
	20 ±20 % ms opening
	34 ms
Maximum Operating Rate	3600 cyc/h 60 °C

Connections - Terminals	Control circuit: spring terminals 1 0.752.5 mm² - cable stiffness: flexible without
	cable end Control circuit: spring terminals 2 0.752.5 mm² - cable stiffness: flexible without
	cable end  Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: flexible
	without cable end  Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: flexible
	without cable end Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: flexible
	with cable end  Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: flexible
	with cable end  Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: solid
	without cable end
	Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: solid without cable end
Tightening Torque	Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 2535 mm²
	hexagonal screw head 4 mm  Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 0.7525 mm²
	hexagonal screw head 4 mm  Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2
	Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver pozidriv No 2
Auxiliary Contact Composition	1 NO + 1 NC
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 Voltage	17 V for signalling circuit
Minimum Switching Current	5 mA for signalling circuit
Insulation Resistance	> 10 MOhm 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
Mounting Support	Plate Rail
Environment	
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
	CCC
	GOST
p Degree Of Protection	IP20 front face conforming to IEC 60529
Protective Treatment	TH conforming to IEC 60068-2-30
Climatic Withstand	conforming to IACS E10 exposure to damp heat conforming to IEC 60947-1 Annex Q category D exposure to damp heat
Permissible Ambient Air Temperature Around The Device	-4060 °C 6070 °C with derating
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 Co. F. 200 Hz)
	Vibrations contactor closed (4 Gn, 5300 Hz) Shocks contactor closed (15 Gn for 11 ms)

Height	122 mm	
Width	55 mm	
Depth	120 mm	
Net Weight	0.925 ka	

### **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	6.200 cm
Package 1 Width	13.700 cm
Package 1 Length	15.200 cm
Package 1 Weight	975.000 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	10
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	10.076 kg

## **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

### Well-being performance

<b>②</b>	Reach Free Of Svhc	
<b>②</b>	Mercury Free	
<b>②</b>	Rohs Exemption Information	Yes

#### **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