# **Product datasheet**

Specification





(!) Discontinued

# Reversing contactor, TeSys Deca, 3P(3 NO) - AC-3 - <= 440 V 95 A - 380 V AC coil

LC2D95Q7

! Discontinued on: 10-Oct-2020

! End-of-service on: 04-Nov-2020

#### Main

TeSys
TeSys Deca
Reversing contactor
LC2D
Motor control
Resistive load
AC-1
AC-3
AC-3e
AC-4
Preassembled with reversing power busbar
3P
3 NO
Power circuit: <= 690 V AC 25400 Hz
Power circuit: <= 300 V DC
125 A (at <60 °C) at <= 690 V AC-1 for power circuit
95 A (at <60 °C) at <= 440 V AC-3 for power circuit
95 A (at <60 °C) at <= 440 V AC-3e for power circuit
66.7 A (at <60 °C) at <= 400 V AC-4 for power circuit
25 kW at 220230 V AC 50 Hz (AC-3)
45 kW at 380400 V AC 50 Hz (AC-3)
45 kW at 415440 V AC 50 Hz (AC-3)
55 kW at 500 V AC 50 Hz (AC-3)
45 kW at 660690 V AC 50 Hz (AC-3)
15 kW at 400 V AC 50 Hz (AC-4)
25 kW at 220230 V AC 50 Hz (AC-3e)
45 kW at 380400 V AC 50 Hz (AC-3e)
45 kW at 415440 V AC 50 Hz (AC-3e)
55 kW at 500 V AC 50 Hz (AC-3e)
45 kW at 660690 V AC 50 Hz (AC-3e)
20 hp at 200/208 V AC 60 Hz for 3 phases motors
20 hp at 200/208 V AC 60 Hz for 3 phases motors
7.5 hp at 115 V AC 60 Hz for 1 phase motors
15 hp at 230/240 V AC 60 Hz for 1 phase motors
25 hp at 230/240 V AC 60 Hz for 3 phases motors
60 hp at 460/480 V AC 60 Hz for 3 phases motors
60 hp at 575/600 V AC 60 Hz for 3 phases motors
AC at 50/60 Hz
380 V AC 50/60 Hz
2 NO + 2 NC
8 kV conforming to IEC 60947

Overvoltage Category	ш
[Ith] Conventional Free Air Thermal Current	10 A (at 60 °C) for signalling circuit 125 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 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 Current	135 A 40 °C - 10 min for power circuit 400 A 40 °C - 1 min for power circuit 800 A 40 °C - 10 s for power circuit 1100 A 40 °C - 1 s for power circuit 1100 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 60947-5-1 200 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: 1000 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-1 Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified
Electrical Durability	1.2 Mcycles 95 A AC-3 1.3 Mcycles 125 A AC-1
Power Dissipation Per Pole	12.5 W AC-1 7.2 W AC-3
Front Cover	With
Interlocking Type	Mechanical
Mounting Support	Plate Rail
Standards	EN/IEC 60947-1 EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 UL 60947-5-1 CSA C22.2 No 60947-4-1 CSA C22.2 No 60947-5-1 GB/T 14048.4
Product Certifications	IECEE CB Scheme UL CSA CCC EAC LROS (Lloyds register of shipping) RINA BV DNV-GL
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) 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 Control circuit: screw clamp terminals 1 cable(s) 12.5 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible without cable end Power circuit: connector 2 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 2 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 2 cable(s) 450 mm²solid Power circuit: connector 1 cable(s) 450 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
Operating Time	2035 ms closing 620 ms opening
Safety Reliability Level	B10d = 1.3 Mcycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20 Mcycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical Durability	4 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 (-4055 °C):operational AC 50 Hz 0.851.1 Uc (-4055 °C):operational AC 60 Hz 11.1 Uc (5570 °C):operational AC 50/60 Hz	
Inrush Power In Va	245 VA 60 Hz cos phi 0.75 (at 20 °C) 245 VA 50 Hz cos phi 0.75 (at 20 °C)	
Hold-In Power Consumption In Va	26 VA 60 Hz cos phi 0.3 (at 20 °C) 26 VA 50 Hz cos phi 0.3 (at 20 °C)	
Heat Dissipation	610 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	oltage 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
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
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	182 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	17 cm
Package 1 Width	18 cm
Package 1 Length	24.8 cm
Package 1 Weight	3.735 kg

## **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

#### Well-being performance

<b>⊘</b>	Reach Free Of Svhc
<b>⊘</b>	Toxic Heavy Metal Free
<b>⊘</b>	Mercury Free
<b>⊘</b>	Rohs Exemption Information Yes
<b>⊘</b>	Pvc Free

#### **Certifications & Standards**

**Eu Rohs Directive** 

	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

Compliant