

Reversing contactor, TeSys Deca, 3P(3NO), AC-3, <=440V, 65A 277V AC 60Hz, coil

LC2D65AW7

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

! Discontinued

Main

Mairi	
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
	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	80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
	65 A (at <60 °C) at <= 440 V AC 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 415440 V AC 50 Hz
	37 kW at 500 V AC 50 Hz
	37 kW at 660690 V AC 50 Hz
Motor Power Hp (UI / Csa)	40 hp at 460/480 V AC 60 Hz for 3 phases motors
	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
	50 hp at 575/600 V AC 60 Hz for 3 phases motors
Control Circuit Type	AC at 60 Hz
[Uc] Control Circuit Voltage	277 V AC 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
	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

[Icw] Rated Short-Time Withstand Current	520 A 40 °C - 10 s for power circuit
Current	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
	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
	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
	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
Electrical Durability	1.45 Mcycles 65 A AC-3 at Ue <= 440 V
	1.4 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
Standards	CSA C22.2 No 14
	EN 60947-4-1
	EN 60947-5-1
	IEC 60947-4-1 IEC 60947-5-1
	UL 508
Product Certifications	GOST
	CCC
	CSA
	UL
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 1 cable(s) 14 mm solid 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
Fightening 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 mm²
	hexagonal screw head 4 mm
	Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm ² hexagonal screw head 4 mm
Speciality inflo	419 ms opening 1226 ms closing
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
- F	3333 373 30

Complementary

Coil Technology	Without built-in suppressor module
Control Circuit Voltage Limits	0.30.6 Uc (-4070 °C):drop-out AC 60 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 60 Hz
Inrush Power In Va	140 VA 60 Hz cos phi 0.75 (at 20 °C)
Hold-In Power Consumption In Va	13 VA 60 Hz cos phi 0.3 (at 20 °C)
Heat Dissipation	45 W at 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 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	1.89 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

Contractual warranty

Warranty	18 months