

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

LC2D65AW7

! Discontinued on: Jan 23, 2021

(!) 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 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 - 18 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
nterlocking 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 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
ightening 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 mm²
	hexagonal screw head 4 mm
Operating Time	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

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	