

TeSys D reversing contactor - 3P(3 NO) - AC-3 - <= 440 V 95 A - 110 V AC coil

Local distributor code: 381824604 LC2D95F7

VI	a	ı	r	

·····						
Range	TeSys					
Product name	TeSys D					
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: 1000 V AC 25400 Hz Power circuit: <= 300 V DC					
[le] rated operational current	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					
Motor power kW	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) 45 kW at 1000 V AC 50 Hz (AC-3) 25 kW at 220230 V AC 50 Hz (AC-3) 45 kW at 380400 V AC 50 Hz (AC-3)					
Motor power HP (UL / CSA)	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					
Control circuit type	AC at 50/60 Hz					
[Uc] control circuit voltage	110 V AC 50/60 Hz					
Auxiliary contact composition	2 NO + 2 NC					
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947					
Overvoltage category	III					
[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 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 60947-5-1 200 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 1.2 Mcycles 95 A AC-3e				
Power dissipation per pole	12.5 W AC-1 7.2 W AC-3 7.2 W AC-3e				
Front cover	With				
Interlocking type	Mechanical				
Mounting support	Rail Plate				
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	UL CSA RINA GOST CCC DNV LROS (Lloyds register of shipping) GL BV 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 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) 425 mm²flexible without cable end Power circuit: connector 1 cable(s) 450 mm²flexible with cable end Power circuit: connector 1 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 2 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 Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver pozidriv No 2				
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				

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	26 VA 60 Hz cos phi 0.3 (at 20 °C)					
VA	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	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					
Mechanical robustness	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

8 kg
ст
ст
ст

2
7.963 kg
30 cm
30 cm
40 cm

Offer Sustainability

Sustainable offer status	Green Premium product			
REACh Regulation	REACh Declaration			
REACh free of SVHC	Yes			
EU RoHS Directive	Compliant EU RoHS Declaration			
Toxic heavy metal free	Yes			
Mercury free	Yes			
RoHS exemption information	Yes			
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			
PVC free	Yes			

Contractual warranty

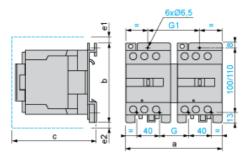
Warranty	18 months
----------	-----------

Product datasheet

LC2D95F7

Dimensions Drawings

Dimensions



LC2 or 2 x LC1	а	b	С	e1	e2	G	G1
D80 and D95 (AC)	182	127	158	13	_	57	96
c, e1 and e2: including cabling.							

Product datasheet

LC2D95F7

Connections and Schema

Wiring

