

LC2D65AG7

reversing contactor TeSys LC2-D - 3 poles -
AC-3 - 65 A - coil 120 V AC

Main

Range of product	TeSys D
Product or component type	Reversing contactor
Device short name	LC2D
Contactor application	Motor control
Utilisation category	AC-2 AC-3 AC-4
Control circuit type	AC
Coil type	Standard
Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	65 A ≤ 60 °C AC AC-3 power circuit
Motor power kW	18,5 kW 220...240 V AC 50/60 Hz 30 kW 380...400 V AC 50/60 Hz 37 kW 415 V AC 50/60 Hz 37 kW 440 V AC 50/60 Hz 37 kW 500 V AC 50/60 Hz 37 kW 660...690 V AC 50/60 Hz
Connections - terminals	EverLink BTR screw connectors power circuit 1 1...35 mm ² flexible with EverLink BTR screw connectors power circuit 2 1...25 mm ² flexible without EverLink BTR screw connectors power circuit 1 1...35 mm ² flexible without EverLink BTR screw connectors power circuit 2 1...25 mm ² solid without EverLink BTR screw connectors power circuit 2 1...25 mm ² flexible with EverLink BTR screw connectors power circuit 2 1...35 mm ² solid without EverLink BTR screw connectors power circuit 1 1...35 mm ² solid without Screwclamp terminal control circuit 1 1...4 mm ² flexible without Screwclamp terminal control circuit 2 1...4 mm ² flexible without Screwclamp terminal control circuit 1 1...4 mm ² flexible with Screwclamp terminal control circuit 2 1...2,5 mm ² flexible with Screwclamp terminal control circuit 1 1...4 mm ² solid without Screwclamp terminal control circuit 2 1...4 mm ² solid without

Complementary

Assembly style	Ready assembled
Coil technology	Without built-in bidirectional peak limiting diode suppressor
Protective cover	With
Auxiliary contacts type	Mechanically linked IEC 60947-5-1 1 NO + 1 NC Mirror contact IEC 60947-4-1 1 NC
Auxiliary contact composition	1 NO + 1 NC
Interlocking type	Mechanical

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Control circuit voltage limits	0.3...0.6 U _c 55 °C drop-out 50/60 Hz 0.8...1.1 U _c 55 °C operational 50 Hz 0.85...1.1 U _c 55 °C operational 60 Hz 0.85...1.1 U _c 55 °C operational 50/60 Hz
[U _i] rated insulation voltage	600 V UL power circuit 600 V CSA power circuit 600 V UL control circuit 600 V CSA control circuit 690 V IEC 60947-1 control circuit 1000 V IEC 60947-1 power circuit
[U _{imp}] rated impulse withstand voltage	8 kV IEC 60947
Overvoltage category	III
Mounting support	Plate Rail
Flame retardance	V1 UL 94
Tightening torque	1,7 N.m control circuit screwclamp terminal 1...2,5 mm ² Philips No 2 2 mm 1,7 N.m control circuit screwclamp terminal 1...4 mm ² flat Ø 6 mm 1,7 N.m control circuit screwclamp terminal 1...4 mm ² Philips No 2 2 mm 1,7 N.m control circuit screwclamp terminal 1...2,5 mm ² flat Ø 6 mm 5 N.m power circuit screwclamp terminal 1...25 mm ² hexagonal 4 mm 8 N.m power circuit screwclamp terminal 1...35 mm ² hexagonal 4 mm
[U _e] rated operational voltage	<= 690 V AC 25...400 Hz power circuit
[I _{th}] conventional free air thermal current	10 A ≤ 60 °C control circuit 80 A ≤ 60 °C power circuit
I _{rms} rated making capacity	140 A AC control circuit IEC 60947-5-1 1000 A 440 V power circuit IEC 60947
Rated breaking capacity	1000 A 440 V power circuit IEC 60947
Permissible short-time rating	100 A 1 s control circuit 110 A ≤ 40 °C 10 min power circuit 120 A 500 ms control circuit 140 A 100 ms control circuit 260 A ≤ 40 °C 1 min power circuit 520 A ≤ 40 °C 10 s power circuit 900 A ≤ 40 °C 1 s power circuit
Associated fuse rating	10 A gG control circuit IEC 60947-5-1 125 A gG <= 690 V type 2 power circuit 160 A gG <= 690 V type 1 power circuit
Average impedance	1,5 mOhm 50 Hz 80 A power circuit
Power dissipation per pole	6,3 W AC-3 80 A
Inrush power in VA	200 VA 20 °C 0,75 50 Hz 220 VA 20 °C 0,75 60 Hz 245 VA 20 °C 0,75 50 Hz 245 VA 20 °C 0,75 60 Hz
Hold-in power consumption in VA	20 VA 20 °C 0,3 50 Hz 22 VA 20 °C 0,3 60 Hz 26 VA 20 °C 0,3 50 Hz 26 VA 20 °C 0,3 60 Hz
Operating time	4...19 ms opening 12...26 ms closing
Mechanical durability	6000000 cycles
Operating rate	3600 cyc/h ≤ 60 °C
Minimum switching current	5 mA control circuit
Minimum switching voltage	17 V control circuit
Non-overlap time	1,5 ms on energisation between NC and NO contacts 1,5 ms on de-energisation between NC and NO contacts
Insulation resistance	> 10 MOhm control circuit
Height	132 mm
Width	165 mm
Depth	142 mm
Product weight	2,4 kg

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
Product certifications	BV CCC CSA DNV (Det Norske Veritas) GL GOST LROS (pending) RINA UL
IP degree of protection	IP2x VDE 0106 IP2x IEC 60529
Protective treatment	TH IEC 60068 3
Ambient air temperature for operation	-5...60 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-40...70 °C at U _c
Operating altitude	3000 m without
Fire resistance	850 °C IEC 60695-2-1
Shock resistance	8 gn contactor opened 10 gn contactor closed
Vibration resistance	2 gn contactor opened 5...300 Hz 3 gn contactor closed 5...300 Hz
Heat dissipation	6...10 W 50/60 Hz control circuit