

LC2D115P7

Reversing Contactor, TeSys Deca, 3P(3NO),
AC-3, <=440V 115A, 230V AC 50/60Hz coil,
screw clamp terminals





Main

Range	TeSys
Product name	TeSys Deca
Product or Component Type	Reversing contactor
Device short name	LC2D
Contactor application	Resistive load Motor control
Utilisation category	AC-1 AC-3 AC-3e
Device presentation	Preassembled with reversing power busbar
Poles description	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	Power circuit ≤ 1000 V AC 25...400 Hz Power circuit ≤ 300 V DC
[Ie] rated operational current	200 A (at <140 °F (60 °C)) at ≤ 440 V AC AC-1 for power circuit 115 A (at <140 °F (60 °C)) at ≤ 440 V AC AC-3 for power circuit
Motor power kW	30 kW at 220...230 V AC 50-60 Hz 55 kW at 380...400 V AC 50-60 Hz 59 kW at 415 V AC 50-60 Hz 59 kW at 440 V AC 50-60 Hz 75 kW at 500 V AC 50-60 Hz 80 kW at 660...690 V AC 50-60 Hz 65 kW at 1000 V AC 50-60 Hz
Maximum Horse Power Rating	30 Hp at 200/208 V AC 60 Hz for 3 phase motors 40 Hp at 230/240 V AC 60 Hz for 3 phase motors 75 Hp at 460/480 V AC 60 Hz for 3 phase motors 100 hp at 575/600 V AC 60 Hz for 3 phase motors
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	230 V AC 50/60 Hz
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	8 kV IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal current	200 A (at 140 °F (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 1260 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	250 A 104 °F (40 °C) - 10 min for power circuit 550 A 104 °F (40 °C) - 1 min for power circuit 950 A 104 °F (40 °C) - 10 s for power circuit 1100 A 104 °F (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 60947-5-1 250 A gG at ≤ 690 V coordination type 1 for power circuit 200 A gG at ≤ 690 V coordination type 2 for power circuit
Average impedance	0.6 mOhm - Ith 200 A 50 Hz for power circuit

[Ui] rated insulation voltage	Power circuit 600 V CSA Power circuit 600 V UL Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling circuit 600 V UL Power circuit 1000 V IEC 60947-4-1
Electrical durability	0.8 Mcycles 200 A AC-1 ≤ 440 V 0.95 Mcycles 115 A AC-3 ≤ 440 V 0.95 Mcycles 115 A AC-3e ≤ 440 V
Power dissipation per pole	24 W AC-1 7.9 W AC-3 7.9 W AC-3e
Protective cover	With
Interlocking type	Mechanical Electrical
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	BV[RETURN]CCC[RETURN]CSA[RETURN]DNV[RETURN]GL[RE
Connections - terminals	Control circuit screw clamp terminals 2 0.00... 0.00 in ² (1...2.5 mm ²)flexible with cable end Control circuit screw clamp terminals 1 0.00... 0.00 in ² (1...2.5 mm ²)flexible without cable end Control circuit screw clamp terminals 2 0.00... 0.00 in ² (1...2.5 mm ²)flexible without cable end Control circuit screw clamp terminals 1 0.00... 0.00 in ² (1...2.5 mm ²)flexible with cable end Control circuit screw clamp terminals 1 0.00... 0.00 in ² (1...2.5 mm ²)solid without cable end Control circuit screw clamp terminals 2 0.00... 0.00 in ² (1...2.5 mm ²)solid without cable end Power circuit connector 1 0.02...0.19 in ² (10... 120 mm ²)flexible without cable end Power circuit connector 2 0.02...0.08 in ² (10... 50 mm ²)flexible without cable end Power circuit connector 1 0.02...0.19 in ² (10... 120 mm ²)flexible with cable end Power circuit connector 2 0.02...0.08 in ² (10... 50 mm ²)flexible with cable end Power circuit connector 1 0.02...0.19 in ² (10... 120 mm ²)solid without cable end Power circuit connector 2 0.02...0.08 in ² (10... 50 mm ²)solid without cable end
Tightening torque	Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 106.21 lbf.in (12 N.m) connector hexagonal 0.16 in (4 mm) Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals pozidriv No 2
Operating time	20...50 ms closing 6...20 ms opening
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	8000000 cycles
Maximum operating rate	2400 cyc/h 140 °F (60 °C)

Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.3...0.5 Uc 131 °F (55 °C) drop-out AC 50/60 Hz 0.8...1.15 Uc 131 °F (55 °C) operational AC 50/60 Hz
Inrush power in VA	280...350 VA 60 Hz 0.8 68 °F (20 °C)) 280...350 VA 50 Hz 0.8 68 °F (20 °C))
Hold-in power consumption in VA	2...18 VA 68 °F (20 °C)) 0.3 60 Hz 2...18 VA 68 °F (20 °C)) 0.3 50 Hz
Heat dissipation	3...8 W 50/60 Hz
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1
Signalling circuit frequency	25...400 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 IEC 60529
Climatic withstand	IACS E10
Protective treatment	TH IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	-40...140 °F (-40...60 °C) 140...158 °F (60...70 °C) with derating
Ambient Air Temperature for Storage	-76...176 °F (-60...80 °C)
Operating altitude	0...9842.52 ft (0...3000 m)
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed4 Gn, 5...300 Hz Shocks contactor closed15 Gn for 11 ms Shocks contactor open6 Gn for 11 ms
Height	6.22 in (158 mm)
Width	10.47 in (266 mm)
Depth	5.83 in (148 mm)
Net Weight	14.00 lb(US) (6.35 kg)

Packing Units

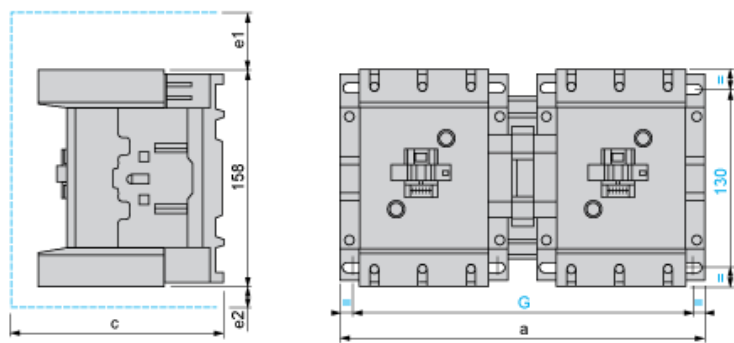
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.06 in (23 cm)
Package 1 Width	12.40 in (31.5 cm)
Package 1 Length	14.76 in (37.5 cm)
Package 1 Weight	15.66 lb(US) (7.103 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End Of Life Information

WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes

Dimensions



LC2 or 2 x LC1	a	c	e1	e2	G
D115 and D150	266	148	56	18	242/256
c, e1 and e2: including cabling.					

Wiring

