LC1D115FE7

IEC contactor, TeSys Deca, nonreversing, 115A, 75HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 115VAC 50/60Hz coil, open





Main Range TeSys Range of Product TeSys Deca **Product or Component** Contactor Type LC1D Device short name Contactor application Resistive load Motor control AC-1 Utilisation category AC-4 AC-3 AC-3e 3P Poles description [Ue] rated operational Power circuit <= 1000 V AC 25...400 Hz Power circuit <= 300 V DC voltage [le] rated operational 200 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for current power circuit

power circuit

power circuit

115 V AC 50/60 Hz

115 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for

115 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for

Complementary

Complementary		
Motor power kW	30 KW at 220230 V AC 50/60 Hz (AC-3) 55 KW at 380400 V AC 50/60 Hz (AC-3) 59 KW at 415440 V AC 50/60 Hz (AC-3) 75 KW at 500 V AC 50/60 Hz (AC-3) 80 KW at 660690 V AC 50/60 Hz (AC-3) 65 KW at 1000 V AC 50/60 Hz (AC-3) 18.5 KW at 400 V AC 50/60 Hz (AC-4) 30 KW at 220230 V AC 50/60 Hz (AC-3e) 55 KW at 380400 V AC 50/60 Hz (AC-3e) 59 KW at 415440 V AC 50/60 Hz (AC-3e) 75 KW at 500 V AC 50/60 Hz (AC-3e) 80 KW at 660690 V AC 50/60 Hz (AC-3e)	
	65 kW at 1000 V AC 50/60 Hz (AC-3e)	
Maximum Horse Power Rating	30 Hp at 200/208 V AC 50/60 Hz for 3 phase motors 40 Hp at 230/240 V AC 50/60 Hz for 3 phase motors 75 Hp at 460/480 V AC 50/60 Hz for 3 phase motors 100 hp at 575/600 V AC 50/60 Hz for 3 phase motors	
Compatibility code	LC1D	
Pole contact composition	3 NO	
Protective cover	With	
[Ith] conventional free air thermal current	200 A (at 140 °F (60 °C)) for power circuit	
Irms rated making capacity	1260 A at 440 V for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1	
Rated breaking capacity	1100 A at 440 V for power circuit conforming to IEC 60947	

[Uc] control circuit

voltage

	power circuit ower circuit ower circuit cuit cuit on type 1 for power circuit on type 2 for power circuit	
200 A gG at <= 690 V coordinating 10 A gG for signalling circuit Average impedance 0.6 mOhm - Ith 200 A 50 Hz for properties 24 W AC-1 7.9 W AC-3 7.9 W AC-3e [Ui] rated insulation voltage Power circuit 600 V CSA Power circuit 600 V UL	on type 2 for power circuit	
Power dissipation per pole 24 W AC-1 7.9 W AC-3 7.9 W AC-3e [Ui] rated insulation voltage Power circuit 600 V CSA Power circuit 600 V UL	power circuit	
7.9 W AC-3 7.9 W AC-3e [Ui] rated insulation voltage Power circuit 600 V CSA Power circuit 600 V UL		
Power circuit 600 V UL	7.9 W AC-3	
	Power circuit 600 V UL Power circuit 1000 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA	
Overvoltage category III		
Pollution degree 3		
[Uimp] rated impulse withstand voltage 8 kV IEC 60947		
	with nominal load EN/ISO 13849-1 tor with mechanical load EN/ISO 13849-1	
Mechanical durability 8 Mcycles		
Electrical durability 0.8 Mcycles 200 A AC-1 <= 440 0.95 Mcycles 115 A AC-3 <= 440 0.95 Mcycles 115 A AC-3e <= 440	0 V	
Control circuit type AC 50/60 Hz standard		
Coil technology Built-in bidirectional peak limiting	g diode suppressor	
0.81.15 Uc -40131 °F (-40	0.30.5 Uc -40158 °F (-4070 °C) drop-out AC 50/60 Hz 0.81.15 Uc -40131 °F (-4055 °C) operational AC 50/60 Hz 11.15 Uc 131158 °F (5570 °C) operational AC 50/60 Hz	
Inrush power in VA 280350 VA 60 Hz cos phi 0.8 280350 VA 50 Hz cos phi 0.8		
Hold-in power consumption in VA 218 VA 60 Hz cos phi 0.3 (at 6 218 VA 50 Hz cos phi 0.3 (at 6		
Heat dissipation 38 W at 50/60 Hz		
Operating time 620 ms opening 2050 ms closing		
Maximum operating rate 2400 cyc/h 140 °F (60 °C)		
stiffness: flexible with cable end Control circuit: screw clamp term stiffness: flexible with cable end Control circuit: screw clamp term stiffness: flexible without cable e Control circuit: screw clamp term stiffness: flexible without cable e Control circuit: screw clamp term stiffness: solid without cable end Control circuit: screw clamp term stiffness: solid without cable end Control circuit: screw clamp term stiffness: solid without cable end Power circuit: connector 1 0.02 without cable end Power circuit: connector 2 0.02 without cable end Power circuit: connector 1 0.02 with cable end Power circuit: connector 2 0.02 with cable end	ninals 2 0.000.00 in² (12.5 mm²) - cable nd ninals 1 0.000.00 in² (12.5 mm²) - cable ninals 2 0.000.00 in² (12.5 mm²) - cable	
without cable end	,	
Tightening torque Control circuit 10.62 lbf.in (1.2 N Control circuit 10.62 lbf.in (1.2 N Power circuit 106.21 lbf.in (12 N.)	.m) screw clamp terminals flat Ø 6 mm .m) screw clamp terminals Philips No 2 .m) connector hexagonal 0.16 in (4 mm) .m) screw clamp terminals pozidriv No 2	

Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1	
	Mirror contact 1 NC IEC 60947-4-1	
Signalling circuit frequency	25400 Hz	
Minimum switching voltage	17 V for signalling circuit	
Minimum switching current	5 mA for signalling circuit	
Insulation resistance	> 10 MOhm 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	
Mounting Support	Rail	
	Plate	

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	DNV[RETURN]RINA[RETURN]CSA[RETURN]CCC[RETURN]UL[RETURN]GL[RETURN]E (Lloyds register of shipping)[RETURN]GOST[RETURN]UKCA[RETURN]CE
IP degree of protection	IP20 front face IEC 60529
Protective treatment	THIEC 60068-2-30
Climatic withstand	IACS E10 exposure to damp heat IEC 60947-1 Annex Q category D exposure to damp heat
Permissible ambient air temperature around the device	-40…140 °F (-40…60 °C) 140…158 °F (60…70 °C) with derating
Operating altitude	09842.52 ft (03000 m)
Fire resistance	1562 °F (850 °C) 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 closed 15 Gn for 11 ms) Shocks contactor open 6 Gn for 11 ms)
Height	6.22 in (158 mm)
Width	4.72 in (120 mm)
Depth	5.35 in (136 mm)
Net Weight	5.51 lb(US) (2.5 kg)

Ordering and shipping details

Category	US10l1222359	
Discount Schedule	0112	
GTIN	3389110377057	
Returnability	Yes	
Country of origin	CZ	

Packing Units

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.40 in (18.8 cm)
Package 1 Width	8.27 in (21 cm)
Package 1 Length	6.77 in (17.2 cm)
Package 1 Weight	5.51 lb(US) (2.5 kg)
Unit Type of Package 2	S06
Number of Units in Package 2	27
Package 2 Height	29.53 in (75 cm)
Package 2 Width	23.62 in (60 cm)
Package 2 Length	31.50 in (80 cm)
Package 2 Weight	175.98 lb(US) (79.825 kg)

Offer Sustainability

Warranty

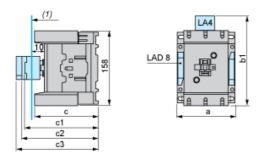
Sustainable offer status	Green Premium product	
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov	
REACh Regulation	☑ REACh 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	

18 months

Product data sheet Dimensions Drawings

LC1D115FE7

Dimensions



(1) Minimum electrical clearance

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LC1		D115 and D150 (3-pole)
а		120
b1	with LA4 DA2	174
with LA4 DF, DT	185	
with LA4 DM, DL	188	
with LA4 DW	188	
С	without cover or add-on blocks	132
with cover, without add-on blocks	136	
c1	with LAD N or C (2 or 4 contacts)	150
c2	with LA6 DK20	155
c3	with LAD T, R, S	168
with LAD T, R, S and sealing cover	172	

Wiring

