# LC1D115R7

IEC contactor, TeSys Deca, nonreversing, 115A, 75HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 440VAC 50/60Hz coil, open





#### Main Range TeSys Range of Product TeSys Deca **Product or Component** Contactor Type LC1D Device short name Contactor application Motor control Resistive load AC-1 Utilisation category AC-3 AC-4 AC-3e 3P Poles description Power circuit <= 1000 V AC 25...400 Hz [Ue] rated operational voltage Power circuit <= 300 V DC 200 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for [le] rated operational power circuit current 115 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 115 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit [Uc] control circuit 440 V AC 50/60 Hz

#### Complementary

Motor power kW	30 KW at 220230 V AC 50/60 Hz (AC-3)	
Wotor power kw	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	
Contact compatibility	M13	
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	

voltage

[lcw] 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	250 A gG at <= 690 V coordination type 1 for power circuit 200 A gG at <= 690 V coordination type 2 for power circuit 10 A gG for signalling circuit	
Average impedance	0.6 mOhm - Ith 200 A 50 Hz 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 1000 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling circuit 600 V UL	
Overvoltage category	III	
Pollution degree	3	
[Uimp] rated impulse withstand voltage	8 kV IEC 60947	
Safety reliability level	B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1	
Mechanical durability	8 Mcycles	
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	
Control circuit type	AC 50/60 Hz	
Coil technology	Built-in bidirectional peak limiting diode suppressor	
Control circuit voltage limits	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 (at 68 °F (20 °C)) 280350 VA 50 Hz cos phi 0.8 (at 68 °F (20 °C))	
Hold-in power consumption in VA	218 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 218 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))	
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)	
Tightening for the con-	Control circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.000.00 in² (12.5 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.000.00 in² (12.5 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.000.00 in² (12.5 mm²) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable stiffness: solid without cable end Power circuit: connector 1 0.020.19 in² (10120 mm²) - cable stiffness: flexible without cable end Power circuit: connector 2 0.020.08 in² (1050 mm²) - cable stiffness: flexible with cable end Power circuit: connector 1 0.020.19 in² (10120 mm²) - cable stiffness: flexible with cable end Power circuit: connector 2 0.020.08 in² (1050 mm²) - cable stiffness: flexible with cable end Power circuit: connector 1 0.020.19 in² (10120 mm²) - cable stiffness: solid without cable end Power circuit: connector 2 0.020.08 in² (1050 mm²) - cable stiffness: solid without cable end Power circuit: connector 1 0.020.19 in² (10120 mm²) - cable stiffness: 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 10.62 lbf.in (1.2 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	

Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1
<b>, </b>	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
D 1 10 15 1	
Product Certifications	GOST[RETURN]BV[RETURN]UL[RETURN]LROS (Lloyds register of shipping) [RETURN]GL[RETURN]DNV[RETURN]RINA[RETURN]CCC[RETURN]CSA[RETURN]UKCA
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	22359-CTR,TESYS D,OPEN,80-150A AC&DC
Discount Schedule	l12
GTIN	3389110377361
Returnability	Yes
Country of origin	CZ

# Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.48 in (19.000 cm)
Package 1 Width	6.69 in (17.000 cm)
Package 1 Length	8.27 in (21.000 cm)
Package 1 Weight	5.43 lb(US) (2.461 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	27
Package 2 Height	29.53 in (75.000 cm)
Package 2 Width	23.62 in (60.000 cm)
Package 2 Length	31.50 in (80.000 cm)
Package 2 Weight	175.15 lb(US) (79.447 kg)

# Offer Sustainability

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
Contractual warranty	
Warranty	18 months