

IEC contactor, TeSys Deca Advanced, nonreversing, 25A, 15HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 48/130VAC/VDC coil

LC1D25EHE

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	TeSys Deca Advanced	
Product or Component Type	Contactor	
Device short name	LC1D	
Contactor application	Motor control Resistive load	
Utilisation category	AC-3 AC-1 AC-3e	
Poles description	3P	
[Ue] rated operational voltage	Power circuit <= 690 V AC 25400 Hz	
[le] rated operational current	25 A (at <140 °F (60 °C)) at <= 440 V AC-3 for power circuit 40 A (at <140 °F (60 °C)) at <= 440 V AC-1 for power circuit 25 A (at <140 °F (60 °C)) at <= 440 V AC-3e for power circuit	
[Uc] control circuit voltage	48130 V AC 50/60 Hz 48130 V DC	

Complementary

Motor power kW	5.5 kW at 220230 V AC 50 Hz (AC-3) 11 kW at 380400 V AC 50 Hz (AC-3)	
	11 kW at 415 V AC 50 Hz (AC-3)	
	11 kW at 440 V AC 50 Hz (AC-3)	
	15 kW at 500 V AC 50 Hz (AC-3)	
	15 kW at 660690 V AC 50 Hz (AC-3)	
	5.5 kW at 220230 V AC 50 Hz (AC-3e)	
	11 kW at 380400 V AC 50 Hz (AC-3e)	
	11 kW at 415 V AC 50 Hz (AC-3e)	
	11 kW at 440 V AC 50 Hz (AC-3e)	
	15 kW at 500 V AC 50 Hz (AC-3e)	
	15 kW at 660690 V AC 50 Hz (AC-3e)	
Maximum Horse Power Rating	2 hp at 115 V AC 60 Hz for 1 phase motors	
	3 hp at 230/240 V AC 60 Hz for 1 phase motors	
	7.5 hp at 200/208 V AC 60 Hz for 3 phase motors	
	7.5 hp at 230/240 V AC 60 Hz for 3 phase motors	
	15 hp at 460/480 V AC 60 Hz for 3 phase motors	
	20 hp at 575/600 V AC 60 Hz for 3 phase motors	
Compatibility code	LC1D	
Pole contact composition	3 NO	
Protective cover	With	
[Ith] conventional free air thermal	10 A (at 140 °F (60 °C)) for signalling circuit	
current	40 A (at 140 °F (60 °C)) for power circuit	

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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	
	450 A at 440 V for power circuit conforming to IEC 60947	
Rated breaking capacity	450 A at 440 V for power circuit conforming to IEC 60947	
[Icw] rated short-time withstand current	100 A - 1 s for signalling circuit	
current	120 A - 500 ms for signalling circuit	
	140 A - 100 ms for signalling circuit	
	50 A 104 °F (40 °C) - 10 min for power circuit 120 A 104 °F (40 °C) - 1 min for power circuit	
	240 A 104 °F (40 °C) - 10 s for power circuit	
	380 A 104 °F (40 °C) - 1 s for power circuit	
Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947-5-1	
	63 A gG at <= 690 V coordination type 1 for power circuit	
	40 A gG at <= 690 V coordination type 2 for power circuit	
Average impedance	2 mOhm - Ith 40 A 50 Hz for power circuit	
Power dissipation per pole	3.2 W AC-1	
	1.25 W AC-3	
	1.25 W AC-3e	
[Ui] rated insulation voltage	Power circuit 690 V IEC 60947-4-1	
	Signalling circuit 690 V IEC 60947-1	
Overvoltage category	III	
Pollution degree	3	
[Uimp] rated impulse withstand voltage	6 kV IEC 60947	
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	15 Mcycles	
Electrical durability	2 Mcycles 21 A AC-3 <= 440 V	
	0.9 Mcycles 40 A AC-1 <= 440 V	
	2 Mcycles 21 A AC-3e <= 440 V	
Control circuit type	AC/DC 50/60 Hz AC/DC electronic	
Coil technology	Built-in bidirectional peak limiting	
Control circuit voltage limits	<= 0.1 Uc (-40158 °F (-4070 °C)):drop-out AC/DC	
	0.851.1 Uc (-40140 °F (-4060 °C)):operational AC/DC	
	11.1 Uc (140158 °F (6070 °C)):operational AC/DC	
Inrush power in VA	25 VA 50/60 Hz (at 68 °F (20 °C))	
Inrush power in W	24 W 68 °F (20 °C))	
Hold-in power consumption in VA	A 1.3 VA 50/60 Hz (at 68 °F (20 °C))	
Hold-in power consumption in W	0.8 W 68 °F (20 °C)	
Heat dissipation	0.8 W at 50/60 Hz	
Operating time	4555 ms closing	
-	2090 ms opening	
Maximum operating rate	3600 cyc/h at 60 °C	
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Connections - terminals	Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: flexible without cable end	
	Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable	
	stiffness: flexible without cable end	
	Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: flexible with cable end	
	Control circuit: screw clamp terminals 2 0.0020.004 in² (12.5 mm²) - cable stiffness: flexible with cable end	
	Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable	
	stiffness: solid	
	Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: solid	
	Power circuit: screw clamp terminals 1 0.0040.02 in² (2.510 mm²) - cable	
	stiffness: flexible without cable end Power circuit: screw clamp terminals 2 0.0040.02 in² (2.510 mm²) - cable	
	stiffness: flexible without cable end	
	Power circuit: screw clamp terminals 1 0.0020.02 in ² (110 mm ²) - cable stiffness: flexible with cable end	
	Power circuit: screw clamp terminals 2 0.0020.009 in² (1.56 mm²) - cable	
	stiffness: flexible with cable end Power circuit: screw clamp terminals 1 0.0020.02 in² (1.510 mm²) - cable	
	stiffness: solid	
	Power circuit: screw clamp terminals 2 0.0040.02 in² (2.510 mm²) - cable stiffness: solid	
Tightening torque	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm	
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 Power circuit 22.1 lbf.in (2.5 N.m) screw clamp terminals flat Ø 6 mm	
	Power circuit 22.1 lbf.in (2.5 N.m) screw clamp terminals flat 9 0 mm	
	Power circuit 22.1 lbf.in (2.5 N.m) screw clamp terminals pozidriv No 2 M4	
<u> </u>	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 M3.5	
Auxiliary contact composition	1 NO + 1 NC	
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	Plate	
	Rail	
Environment		
Standards	EN/IEC 60947-4-1	
	EN/IEC 60947-5-1	
	UL 60947-4-1 CSA C22.2 No 60947-4-1	
	IEC 60335-1	
Product Certifications	CCC	
	CSA	
	EAC UL	
	KC	
	DNV-GL LROS (Lloyds register of shipping)	
	UKCA	
IP degree of protection	IP20 front face IEC 60529	
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	-40140 °F (-4060 °C) 140158 °F (6070 °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 8 Gn for 11 ms)	
Height	3.3 in (85 mm)	
Width	1.8 in (45 mm)	
Depth	3.6 in (92 mm)	
Net Weight	0.955 lb(US) (0.433 kg)	

Ordering and shipping details

Category	US10l1222356	
Discount Schedule	0112	
GTIN	3606480987731	
Returnability	Yes	
Country of origin	FR	

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.17 in (5.5 cm)
Package 1 Width	3.74 in (9.5 cm)
Package 1 Length	4.65 in (11.8 cm)
Package weight(Lbs)	16.08 oz (456.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	15.891 lb(US) (7.208 kg)

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	15
Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant with Exemptions
SCIP Number	7d699774-c34b-4bf4-9ecb-388a149eefdd
REACh Regulation	REACh Declaration
Halogen content performance	Halogen free plastic parts & cables product

Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Product data sheet

LC1D25EHE

Image of product / Alternate images

Alternative







LC1D25EHE

Technical Illustration

Assembly's dimensions

