

(!) Discontinued

IEC contactor, TeSys D, nonreversing, 80A, 60HP at 480VAC, 3 phase, 3 pole, 3 NO, wide range 32VDC coil, open style

LC1D806BNW

! Discontinued on: Mar 24, 2023

Product availability: Non-Stock - Not normally stocked in distribution facility

#### Main

Range	TeSys	
Range of Product	TeSys Deca	
Product or Component Type	Contactor	
Device short name	LC1D	
Contactor application	Motor control Resistive load	
Utilisation category	AC-3 AC-3e AC-4 AC-1	
Poles description	3P	
[Ue] rated operational voltage	Power circuit <= 300 V DC 25400 Hz Power circuit <= 690 V AC	
[le] rated operational current	125 A (at <140 °F (60 °C)) at <= 1000 V AC AC-1 for power circuit 80 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 80 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit	
[Uc] control circuit voltage	32 V DC	

## Complementary

Motor power kW	22 kW at 220230 V AC 50/60 Hz (AC-3) 37 kW at 380400 V AC 50/60 Hz (AC-3)	
	45 kW at 415440 V AC 50/60 Hz (AC-3)	
	55 kW at 500 V AC 50/60 Hz (AC-3)	
	45 kW at 660690 V AC 50/60 Hz (AC-3)	
	15 kW at 400 V AC 50/60 Hz (AC-4)	
	22 kW at 220230 V AC 50/60 Hz (AC-3e)	
	37 kW at 380400 V AC 50/60 Hz (AC-3e)	
	45 kW at 415440 V AC 50/60 Hz (AC-3e)	
	55 kW at 500 V AC 50/60 Hz (AC-3e)	
	45 kW at 660690 V AC 50/60 Hz (AC-3e)	
Maximum Horse Power Rating	7.5 hp at 120 V AC 50/60 Hz for 1 phase motors	
	15 hp at 230/240 V AC 50/60 Hz for 1 phase motors	
	30 hp at 200/208 V AC 50/60 Hz for 3 phase motors	
	30 hp at 230/240 V AC 50/60 Hz for 3 phase motors	
	60 hp at 460/480 V AC 50/60 Hz for 3 phase motors	
	60 hp at 575/600 V AC 50/60 Hz for 3 phase motors	
Compatibility code	LC1D	
Pole contact composition	3 NO	
Protective cover	With	

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

[Ith] conventional free air thermal	10 A (at 140 °F (60 °C)) for signalling circuit	
current	125 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 1100 A at 440 V for power circuit conforming to IEC 60947	
	1100 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	
[lcw] rated short-time withstand	640 A 104 °F (40 °C) - 10 s for power circuit 990 A 104 °F (40 °C) - 1 s for power circuit	
	135 A 104 °F (40 °C) - 13 for power circuit	
	320 A 104 °F (40 °C) - 1 min 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	
	200 A gG at <= 690 V coordination type 1 for power circuit	
	160 A gG at <= 690 V coordination type 2 for power circuit	
Average impedance	0.8 mOhm - Ith 125 A 50 Hz for power circuit	
Power dissipation per pole	5.1 W AC-3	
	12.5 W AC-1	
	5.1 W AC-3e	
[Ui] rated insulation voltage	Power circuit 600 V CSA	
on race modiation voltage	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 = 1369863 cycles contactor with nominal load EN/ISO 13849-1	
	B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1	
Mechanical durability	10 Mcycles	
Electrical durability	0.8 Mcycles 125 A AC-1 <= 440 V	
	1.5 Mcycles 80 A AC-3 <= 440 V	
	1.5 Mcycles 80 A AC-3e <= 440 V	
Control circuit type	DC wide range	
Coil technology	Without built-in suppressor module	
Control circuit voltage limits	0.751.2 Uc (-40131 °F (-4055 °C)):operational DC	
	0.10.3 Uc (-40158 °F (-4070 °C)):drop-out DC	
	11.2 Uc (131158 °F (5570 °C)):operational DC	
nrush power in W	22 W 68 °F (20 °C))	
Hold-in power consumption in W	22 W 68 °F (20 °C)	
Operating time	95130 ms closing	
	2035 ms opening	
Time constant	75 ms	
	3600 cyc/h at 60 °C	
Maximum operating rate	3600 cyc/h at 60 °C  Control circuit: lugs-ring terminals - external diameter: 0.3 in (8 mm)	
Maximum operating rate	Control circuit: lugs-ring terminals - external diameter: 0.3 in (8 mm) Power circuit: bars 1 - busbar cross section: 3 x 16 mm	
Maximum operating rate Connections - terminals	Control circuit: lugs-ring terminals - external diameter: 0.3 in (8 mm)	
Maximum operating rate  Connections - terminals  Tightening torque	Control circuit: lugs-ring terminals - external diameter: 0.3 in (8 mm)  Power circuit: bars 1 - busbar cross section: 3 x 16 mm  Power circuit: lugs-ring terminals - external diameter: 0.7 in (17 mm)  Control circuit 10.6 lbf.in (1.2 N.m) lugs-ring terminals flat Ø 6 mm M3.5	
Maximum operating rate Connections - terminals	Control circuit: lugs-ring terminals - external diameter: 0.3 in (8 mm)  Power circuit: bars 1 - busbar cross section: 3 x 16 mm  Power circuit: lugs-ring terminals - external diameter: 0.7 in (17 mm)  Control circuit 10.6 lbf.in (1.2 N.m) lugs-ring terminals flat Ø 6 mm M3.5  Control circuit 10.6 lbf.in (1.2 N.m) lugs-ring terminals Philips No 2 M3.5	
Maximum operating rate Connections - terminals	Control circuit: lugs-ring terminals - external diameter: 0.3 in (8 mm)  Power circuit: bars 1 - busbar cross section: 3 x 16 mm  Power circuit: lugs-ring terminals - external diameter: 0.7 in (17 mm)  Control circuit 10.6 lbf.in (1.2 N.m) lugs-ring terminals flat Ø 6 mm M3.5  Control circuit 10.6 lbf.in (1.2 N.m) lugs-ring terminals Philips No 2 M3.5  Power circuit 44.3 lbf.in (5 N.m) lugs-ring terminals flat Ø 8 mm M6	
Maximum operating rate Connections - terminals	Control circuit: lugs-ring terminals - external diameter: 0.3 in (8 mm) Power circuit: bars 1 - busbar cross section: 3 x 16 mm Power circuit: lugs-ring terminals - external diameter: 0.7 in (17 mm)  Control circuit 10.6 lbf.in (1.2 N.m) lugs-ring terminals flat Ø 6 mm M3.5 Control circuit 10.6 lbf.in (1.2 N.m) lugs-ring terminals Philips No 2 M3.5 Power circuit 44.3 lbf.in (5 N.m) lugs-ring terminals flat Ø 8 mm M6 Power circuit 44.3 lbf.in (5 N.m) lugs-ring terminals hexagonal 0.4 in (10 mm) M6	
Maximum operating rate Connections - terminals	Control circuit: lugs-ring terminals - external diameter: 0.3 in (8 mm)  Power circuit: bars 1 - busbar cross section: 3 x 16 mm  Power circuit: lugs-ring terminals - external diameter: 0.7 in (17 mm)  Control circuit 10.6 lbf.in (1.2 N.m) lugs-ring terminals flat Ø 6 mm M3.5  Control circuit 10.6 lbf.in (1.2 N.m) lugs-ring terminals Philips No 2 M3.5  Power circuit 44.3 lbf.in (5 N.m) lugs-ring terminals flat Ø 8 mm M6	

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	Rail Plate	

## **Environment**

Standards	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 CSA C22.2 No 14 UL 60947-4-1 IEC 60335-2-40:Annex JJ UL 60335-2-40:Annex JJ IEC 60335-1:Clause 30.2	
Product Certifications	CCC UL CB Scheme CSA CE UKCA Marine EAC	
IP degree of protection	IP20 front face IEC 60529	
Protective treatment	THIEC 60068-2-30	
Climatic withstand	IACS E10 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) Shocks contactor open 8 Gn for 11 ms) Vibrations contactor closed 3 Gn, 5300 Hz) Shocks contactor closed 10 Gn for 11 ms)	
Height	5.0000000000 in (127 mm)	
Width	3.3 in (85 mm)	
Depth	7.3 in (186 mm)	
Product Weight	5.71 lb(US) (2.59 kg)	

# Ordering and shipping details

Category	US10I1222359
Discount Schedule	0112
GTIN	3389118349841
Returnability	No

Country of origin CZ

## **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.68 in (19.5 cm)
Package 1 Width	5.51 in (14.0 cm)
Package 1 Length	3.74 in (9.5 cm)
Package 1 Weight	5.258 lb(US) (2.385 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)	59
Environmental Disclosure	Product Environmental Profile

#### **Use Better**

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Compliant
REACh Regulation	REACh Declaration
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
PVC free	Yes

#### **Use Again**

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

## Offer Marketing Illustration

#### **Product benefits / Features**



## Offer Marketing Illustration

#### **Product benefits / Features**



## Offer Marketing Illustration

#### Product benefits / Features



## LC1D806BNW

**Technical Illustration** 

## Assembly's dimensions

