

Product data sheet  
Characteristics



LC1D65AEHE

TeSys D contactor 3P 65A AC-3 up to 440V  
coil 48-130V AC/DC EverLink





## Main

Range	TeSys
Product name	TeSys D Green
Product or component type	Contacteur
Device short name	LC1D
Contacteur application	Motor control Resistive load
Utilisation category	AC-1 AC-3
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	Power circuit <= 690 V AC 25...400 Hz
[Ie] rated operational current	80 A 60 °C) <= 440 V AC-1 power circuit 65 A 60 °C) <= 440 V AC-3 power circuit
Motor power kW	18,5 KW 220...230 V AC 50 Hz AC-3) 30 KW 380...400 V AC 50 Hz AC-3) 37 KW 415 V AC 50 Hz AC-3) 37 KW 440 V AC 50 Hz AC-3) 37 KW 500 V AC 50 Hz AC-3) 37 kW 660...690 V AC 50 Hz AC-3)
Motor power HP (UL / CSA)	5 Hp 115 V AC 60 Hz 1 phase 10 Hp 230/240 V AC 60 Hz 1 phase 20 Hp 200/208 V AC 60 Hz 3 phases 20 Hp 230/240 V AC 60 Hz 3 phases 40 Hp 460/480 V AC 60 Hz 3 phases 50 hp 575/600 V AC 60 Hz 3 phases
[Uc] control circuit voltage	48...130 V AC 50/60 Hz 48...130 V DC
Coil type	AC/DC electronic
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	6 kV IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal current	80 A 60 °C power circuit 10 A 60 °C signalling circuit
Irms rated making capacity	1000 A 440 V power circuit IEC 60947 140 A AC signalling circuit IEC 60947-5-1 250 A DC signalling circuit IEC 60947-5-1
Rated breaking capacity	1000 A 440 V power circuit IEC 60947
[Icw] rated short-time withstand current	110 A 40 °C - 10 min power circuit 260 A 40 °C - 1 min power circuit 520 A 40 °C - 10 s power circuit 900 A 40 °C - 1 s power circuit 100 A - 1 s signalling circuit 120 A - 500 ms signalling circuit 140 A - 100 ms signalling circuit
Associated fuse rating	125 A gG <= 690 V type 1 power circuit 125 A gG <= 690 V type 2 power circuit 10 A gG signalling circuit IEC 60947-5-1
Average impedance	1,5 mOhm - Ith 80 A 50 Hz power circuit
[Ui] rated insulation voltage	Power circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-1
Electrical durability	1,8 Mcycles 57 A AC-3 <= 440 V 0,5 Mcycles 80 A AC-1 <= 440 V
Power dissipation per pole	9,6 W AC-1 6,3 W AC-3
Front cover	With
Mounting support	Rail Plate

Standards	EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 CSA C22.2 No 60947-4-1
Product certifications	CCC CSA EAC UL KC DNV-GL LROS (Lloyds register of shipping)
Connections - terminals	Control circuit screw clamp terminals 1 1... 4 mm <sup>2</sup> flexible without cable end Control circuit screw clamp terminals 2 1... 4 mm <sup>2</sup> flexible without cable end Control circuit screw clamp terminals 1 1... 4 mm <sup>2</sup> flexible with cable end Control circuit screw clamp terminals 2 1... 2,5 mm <sup>2</sup> flexible with cable end Control circuit screw clamp terminals 1 1... 4 mm <sup>2</sup> solid Control circuit screw clamp terminals 2 1... 4 mm <sup>2</sup> solid Power circuit EverLink BTR screw connectors 1 1... 35 mm <sup>2</sup> flexible without cable end Power circuit EverLink BTR screw connectors 1 1... 35 mm <sup>2</sup> flexible with cable end Power circuit EverLink BTR screw connectors 1 1... 35 mm <sup>2</sup> solid Power circuit EverLink BTR screw connectors 2 1... 25 mm <sup>2</sup> flexible without cable end Power circuit EverLink BTR screw connectors 2 1... 25 mm <sup>2</sup> flexible with cable end Power circuit EverLink BTR screw connectors 2 1... 25 mm <sup>2</sup> solid
Tightening torque	Control circuit 1,7 N.m screw clamp terminals flat Ø 6 mm Control circuit 1,7 N.m screw clamp terminals Philips No 2 Power circuit 8 N.m EverLink BTR screw connectors 25...35 mm <sup>2</sup> hexagonal 4 mm Power circuit 5 N.m EverLink BTR screw connectors 1...25 mm <sup>2</sup> hexagonal 4 mm
Operating time	55...65 ms closing 20...120 ms opening >= 17221) 20...80 ms opening >= 18011)
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	6 Mcycles
Maximum operating rate	3600 cyc/h 60 °C

## Complementary

Coil technology	Built-in bidirectional peak limiting
Control circuit voltage limits	<= 0.1 Uc -40...70 °C drop-out AC/DC 0.85...1.1 Uc -40...60 °C operational AC/DC 1...1.1 Uc 60...70 °C operational AC/DC
Inrush power in VA	23 VA 50/60 Hz 20 °C)
Inrush power in W	19 W 20 °C
Hold-in power consumption in VA	1,4 VA 20 °C) 50/60 Hz
Hold-in power consumption in W	0,9 W 20 °C
Heat dissipation	0,9 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 signalling circuit
Minimum switching voltage	17 V 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 signalling circuit
Compatibility code	LC1D

## Environment

IP degree of protection	IP20 front face IEC 60529
Protective treatment	TH IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	-40...60 °C 60...70 °C with derating
Ambient air temperature for storage	-60...80 °C
Operating altitude	0...3000 m
Fire resistance	850 °C IEC 60695-2-1
Flame retardance	V1 UL 94
Mechanical robustness	Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed4 Gn, 5...300 Hz Shocks contactor open10 Gn for 11 ms Shocks contactor closed15 Gn for 11 ms
Maksimalna visina	122 mm
Maksimalna širina	55 mm
Maksimalna dubina	120 mm
Neto težina	1,002 kg
Colour	Sivo SE GREY 6) Green SE GREEN 2)

## Offer Sustainability

Status održive ponude	Proizvod Green Premium
Uredba REACH	<a href="#">Izjava REACH</a>
Direktiva EU RoHS	Sukladno <a href="#">Izjava EU RoHS</a>
Bez žive	Da
Informacije o RoHS izuzeću	<a href="#">Da</a>
Propis RoHS za Kinu	<a href="#">Izjava RoHS Za Kinu</a>
Izjava o očuvanju okoliša	<a href="#">Ekološki Profil Proizvoda</a>
Profil cirkularnosti	<a href="#">Informacije O Kraju Vijeka Trajanja</a>
WEEE	Proizvod se na tržištima EU mora odlagati u skladu sa specifičnim propisima o prikupljanju otpada; nikako se ne smije odlagati s komunalnim otpadom.
Halogeni elementi	Plastični dijelovi i kabeli bez halogenih elemenata

## Contractual warranty

Jamstvo	18 months
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