

Product data sheet  
Characteristics



LC1D95B5

TeSys D sklopnik 3P 95A AC-3 - 1NO+1NC -  
24V 50Hz





## Main

Range	TeSys
Product name	TeSys D
Product or component type	Contacteur
Device short name	LC1D
Contacteur application	Motor control Resistive load
Utilisation category	AC-1 AC-3 AC-4
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	Power circuit 1000 V AC 25...400 Hz
[Ie] rated operational current	95 A 60 °C) <= 440 V AC-3 power circuit 125 A 60 °C) <= 690 V AC-1 power circuit
Motor power kW	25 KW 220...230 V AC 50 Hz AC-3) 45 KW 380...400 V AC 50 Hz AC-3) 45 KW 415...440 V AC 50 Hz AC-3) 55 KW 500 V AC 50 Hz AC-3) 45 KW 660...690 V AC 50 Hz AC-3) 45 kW 1000 V AC 50 Hz AC-3)
Motor power HP (UL / CSA)	7,5 Hp 115 V AC 60 Hz 1 phase 15 Hp 230/240 V AC 60 Hz 1 phase 25 Hp 200/208 V AC 60 Hz 3 phases 30 Hp 230/240 V AC 60 Hz 3 phases 60 Hp 460/480 V AC 60 Hz 3 phases 60 hp 575/600 V AC 60 Hz 3 phases
Control circuit type	AC 50 Hz
[Uc] control circuit voltage	24 V AC 50 Hz
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	8 kV IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal current	10 A 60 °C signalling circuit 125 A 60 °C power circuit
Irms rated making capacity	1100 A 440 V AC 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	1100 A 440 V power circuit IEC 60947
[Icw] rated short-time withstand current	1100 A 40 °C - 1 s power circuit 800 A 40 °C - 10 s power circuit 400 A 40 °C - 1 min power circuit 135 A 40 °C - 10 min power circuit 140 A - 100 ms signalling circuit 120 A - 500 ms signalling circuit 100 A - 1 s signalling circuit
Associated fuse rating	10 A gG signalling circuit IEC 60947-5-1 200 A gG <= 690 V type 1 power circuit 160 A gG <= 690 V type 2 power circuit
Average impedance	0,8 mOhm - Ith 125 A 50 Hz power circuit
[Ui] rated insulation voltage	Power circuit 1000 V IEC 60947-4-1 Power circuit 600 V CSA Power circuit 600 V UL Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling circuit 600 V UL
Electrical durability	1,2 Mcycles 95 A AC-3 1,3 Mcycles 125 A AC-1
Power dissipation per pole	7,2 W AC-3 12,5 W AC-1

Front cover	With
Mounting support	Rail Plate
Standards	EN/IEC 60947-1 EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 UL 60947-5-1 CSA C22.2 No 60947-4-1 CSA C22.2 No 60947-5-1 GB/T 14048.4
Product certifications	IECEE CB Scheme UL CSA CCC EAC LROS (Lloyds register of shipping) RINA BV DNV-GL
Connections - terminals	Control circuit screw clamp terminals 2 1... 2,5 mm <sup>2</sup> flexible with cable end Control circuit screw clamp terminals 1 1... 2,5 mm <sup>2</sup> flexible with cable end 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> solid without cable end Control circuit screw clamp terminals 2 1... 4 mm <sup>2</sup> solid without cable end Power circuit connector 1 4...50 mm <sup>2</sup> flexible without cable end Power circuit connector 2 4...25 mm <sup>2</sup> flexible without cable end Power circuit connector 1 4...50 mm <sup>2</sup> flexible with cable end Power circuit connector 2 4...16 mm <sup>2</sup> flexible with cable end Power circuit connector 1 4...50 mm <sup>2</sup> solid without cable end Power circuit connector 2 4...25 mm <sup>2</sup> solid without cable end
Tightening torque	Power circuit 12 N.m connector flat Ø 6 to Ø 8 mm Power circuit 12 N.m connector hexagonal 4 mm Control circuit 1,2 N.m screw clamp terminals flat Ø 6 mm Control circuit 1,2 N.m screw clamp terminals Philips No 2
Operating time	20...35 ms closing 6...20 ms opening
Safety reliability level	B10d = 1,3 Mcycles contactor with nominal load EN/ ISO 13849-1 B10d = 20 Mcycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	10 Mcycles
Maximum operating rate	3600 cyc/h 60 °C

## Complementary





Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.3...0.6 U <sub>c</sub> -40...70 °C drop-out AC 50 Hz 0.85...1.1 U <sub>c</sub> -40...55 °C operational AC 50 Hz 1...1.1 U <sub>c</sub> 55...70 °C operational AC 50 Hz
Inrush power in VA	200 VA 50 Hz 0,75 20 °C)
Hold-in power consumption in VA	20 VA 50 Hz 0,3 20 °C)
Heat dissipation	6...10 W 50 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
Contact compatibility	M12
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 open 2 Gn, 5...300 Hz Shocks contactor open 8 Gn for 11 ms Vibrations contactor closed 3 Gn, 5...300 Hz Shocks contactor closed 10 Gn for 11 ms
Maksimalna visina	127 mm
Maksimalna širina	85 mm
Maksimalna dubina	130 mm
Neto težina	1,61 kg

## Offer Sustainability

Status održive ponude	Proizvod Green Premium
Uredba REACh	 <a href="#">Izjava REACh</a>
REACh, bez SVHC	Da
Direktiva EU RoHS	Sukladno  <a href="#">Izjava EU RoHS</a>
Bez otrovnih teških metala	Da
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>
WEEE	Proizvod se na tržištima EU mora odlagati u skladu sa specifičnim propisima o prikupljanju otpada; nikako se ne smije odlagati s komunalnim otpadom.
Bez PVC-a	Da

## Contractual warranty

Jamstvo	18 months
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