

Product data sheet
Characteristics



LC1D09P5

TeSys D sklopnik 3P 9A AC-3 - 1NO+1NC -
230V 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 <= 690 V AC 50 Hz Power circuit <= 300 V DC
[Ie] rated operational current	9 A 60 °C) <= 440 V AC-3 power circuit 25 A 60 °C) <= 440 V AC-1 power circuit
Motor power kW	2,2 KW 220...230 V AC 50 Hz AC-3) 4 KW 380...400 V AC 50 Hz AC-3) 4 KW 415...440 V AC 50 Hz AC-3) 5,5 KW 500 V AC 50 Hz AC-3) 5,5 KW 660...690 V AC 50 Hz AC-3) 2,2 kW 400 V AC 50 Hz AC-4)
Control circuit type	AC 50 Hz
[Uc] control circuit voltage	230 V AC 50 Hz
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	25 A 60 °C power circuit 10 A 60 °C signalling circuit
Irms rated making capacity	250 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	250 A 440 V power circuit IEC 60947
[Icw] rated short-time withstand current	30 A 40 °C - 10 min power circuit 61 A 40 °C - 1 min power circuit 105 A 40 °C - 10 s power circuit 210 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	10 A gG signalling circuit IEC 60947-5-1 25 A gG <= 690 V type 1 power circuit 20 A gG <= 690 V type 2 power circuit
Average impedance	2,5 mOhm - Ith 25 A 50 Hz power circuit
[Ui] rated insulation voltage	Power circuit 690 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	2 Mcycles 9 A AC-3 <= 440 V 0,6 Mcycles 25 A AC-1 <= 440 V
Power dissipation per pole	0,2 W AC-3 1,56 W AC-1
Front cover	With
Mounting support	Rail Plate

Standards	EN/IEC 60947-1 IEC 60947-4-1 IEC 60947-5-1 EN/IEC 60947-5-1 UL 60947-4-1 CSA C22.2 No 60947-4-1
Product certifications	UL CSA CCC EAC KC LROS (Lloyds register of shipping) DNV-GL RINA BV
Connections - terminals	Power circuit screw clamp terminals 1 1... 4 mm ² flexible without cable end Power circuit screw clamp terminals 2 1... 4 mm ² flexible without cable end Power circuit screw clamp terminals 1 1... 4 mm ² flexible with cable end Power circuit screw clamp terminals 2 1... 2,5 mm ² flexible with cable end Power circuit screw clamp terminals 1 1... 4 mm ² solid without cable end Power circuit screw clamp terminals 2 1... 4 mm ² solid without cable end Control circuit screw clamp terminals 1 1... 4 mm ² flexible without cable end Control circuit screw clamp terminals 2 1... 4 mm ² flexible without cable end Control circuit screw clamp terminals 1 1... 4 mm ² flexible with cable end Control circuit screw clamp terminals 2 1... 2,5 mm ² flexible with cable end Control circuit screw clamp terminals 1 1... 4 mm ² solid without cable end Control circuit screw clamp terminals 2 1... 4 mm ² solid without cable end
Tightening torque	Power circuit 1,7 N.m screw clamp terminals flat Ø 6 mm Power circuit 1,7 N.m screw clamp terminals Philips No 2 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
Operating time	12...22 ms closing 4...19 ms opening
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
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 _c -40...70 °C drop-out AC 50 Hz 0.8...1.1 U _c -40...60 °C operational AC 50 Hz 1...1.1 U _c 60...70 °C operational AC 50 Hz
Inrush power in VA	70 VA 50 Hz 0,75 20 °C)
Hold-in power consumption in VA	7 VA 50 Hz 0,3 20 °C)
Heat dissipation	2...3 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	M2
Compatibility code	LC1D
Motor power range	1,1...2 KW 200...240 V 3 phases 2,2...3 KW 380...440 V 3 phases 4...6 KW 380...440 V 3 phases 4...6 kW 480...500 V 3 phases
Motor starter type	Direct on-line contactor
Contactor coil voltage	230 V AC standard

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	77 mm
Maksimalna širina	45 mm
Maksimalna dubina	86 mm
Neto težina	0,32 kg

Offer Sustainability

Status održive ponude	Proizvod Green Premium
Uredba REACH	Izjava REACH
REACH, bez SVHC	Da
Direktiva EU RoHS	Sukladno Izjava EU RoHS
Bez otrovnih teških metala	Da
Bez žive	Da
Informacije o RoHS izuzeću	Da
Propis RoHS za Kinu	Izjava RoHS Za Kinu
Izjava o očuvanju okoliša	Ekološki Profil Proizvoda
Profil cirkularnosti	Informacije O Kraju Vijeka Trajanja
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
---------	-----------