

Tehničke karakteristike  
proizvoda  
Karakteristike

## LC2D09KUE

TeSys D kontaktor za promenu smeru-3P-  
≤440V-9 A AC-3-100...250V AC/DC kalem





## Osnovne informacije

Grupa proizvoda	TeSys
Ime proizvoda	TeSys D Green
Tip proizvoda ili komponente	Kontaktor za promenu smera
Kratko ime uređaja	LC2D
Primena kontaktora	Upravljanje motorom Rezistivno opterećenje
Kategorija upotrebe	AC-1 AC-3
Prezentacija uređaja	Prefabrikovan sa promenom redosleda faza
Broj polova	3P
Power pole contact composition	3 NO
[ue] nazivni napon	Power circuit: $\leq 690$ V AC 25...400 Hz
[ie] nazivna struja	9 A (at $\leq 60$ °C) at $\leq 440$ V AC AC-3 for power circuit 25 A (at $\leq 60$ °C) at $\leq 440$ V AC AC-1 for power circuit
Snaga motora kw	2.2 KW at 220...230 V AC 50 Hz 4 KW at 380...400 V AC 50 Hz 4 KW pri 415 V AC 50 Hz 4 KW at 440 V AC 50 Hz 5.5 KW at 500 V AC 50 Hz 5.5 kW at 660...690 V AC 50 Hz
Motor power HP (UL / CSA)	0,33 Hp pri 115 V AC 60 Hz za monofazne motori 1 Hp at 230/240 V AC 60 Hz for 1 phase motors 2 Hp at 200/208 V AC 60 Hz for 3 phases motors 2 Hp at 230/240 V AC 60 Hz for 3 phases motors 5 Hp at 460/480 V AC 60 Hz for 3 phases motors 7.5 hp at 575/600 V AC 60 Hz for 3 phases motors
Tip upravljačkog kola	AC pri 50/60 Hz AC/DC elektronika DC AC/DC elektronika
Napon upravljačkog kola	100...250 V AC 50/60 Hz 100...250 V DC
Sastav pomoćnog kontakta	1 NO + 1 NC
[uimp] nazivni podnosivi impulsni napon	6 kV conforming to IEC 60947
Kategorija prenapona	III
[ith] dozvoljena termička struja u vazduhu	10 A (at 60 °C) for signalling circuit 25 A (at 60 °C) for power circuit
Irms nazivna moć uključanja	250 A at 440 V for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1
Nazivna prekidna moć	250 A at 440 V for power circuit conforming to IEC 60947
[icw] kratkotrajna podnosiva struja kratkog spoja	105 A 40 °C - 10 s for power circuit 210 A 40 °C - 1 s for power circuit 30 A 40 °C - 10 min for power circuit 61 A 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
Pripadajući osigurač	10 A gG for signalling circuit conforming to IEC 60947-5-1 25 A gG at $\leq 690$ V coordination type 1 for power circuit 20 A gG at $\leq 690$ V coordination type 2 for power circuit
Prosečna impedansa	2.5 mOhm - Ith 25 A 50 Hz for power circuit
[ui] nazivni napon izolacije	Power circuit: 690 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-1

Električna trajnost	2,4 Miliona ciklusa 8 A AC-3 pri $U_e \leq 440$ V 0.6 Mcycles 25 A AC-1 at $U_e \leq 440$ V
Snaga disipacije po polu	1.56 W AC-1 0.2 W AC-3
Front cover	Sa
Tip blokade	Mehanička
Nosači za montažu	Ploča Šina
Standardi	EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 CSA C22.2 No 60947-4-1
Sertifikacije proizvoda	CCC CSA EAC UL KC DNV-GL LROS (Lloyds register of shipping)
Povezivanje - priključci	Power circuit: screw clamp terminals 1 cable(s) 1... 4 mm <sup>2</sup> flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 1... 4 mm <sup>2</sup> flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 1... 4 mm <sup>2</sup> flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 1... 2.5 mm <sup>2</sup> flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 1... 4 mm <sup>2</sup> solid Power circuit: screw clamp terminals 2 cable(s) 1... 4 mm <sup>2</sup> solid Control circuit: screw clamp terminals 1 cable(s) 1... 4 mm <sup>2</sup> flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1... 4 mm <sup>2</sup> flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1... 4 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1... 2.5 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1... 4 mm <sup>2</sup> solid Control circuit: screw clamp terminals 2 cable(s) 1... 4 mm <sup>2</sup> solid
Moment pritezanja	Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2
Vreme uključanja/ isključanja	45...55 ms zatvaranje 20...90 ms otvaranje
Nivo sigurnosne pouzdanosti	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Mehanička trajnost	15 Mcycles
Maksimalni radni ciklus	3600 cyc/h 60 °C

## Dopunske informacije

Tehnologija kalema	Ugrađeno ograničenje u oba smera
Ograničenje napona upravljačkog kola	$\leq 0.1 U_c$ -40...70 °C propad napona AC/DC 0.85...1.1 $U_c$ -40...60 °C u radu AC/DC 1...1.1 $U_c$ 60...70 °C u radu AC/DC
Udarna snaga u va	25 VA 50/60 Hz 20 °C)
Udarna snaga u w	18 W pri 20 °C
Snaga držanja u va	1,6 VA 20 °C) 50/60 Hz
Snaga držanja u w	1,1 W pri 20 °C
Disipacija toplote	1,1 W pri 50/60 Hz

Tip pomoćnog kontakta	Type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 Type mirror contact 1 NC conforming to IEC 60947-4-1
Frekvencija signalnog kola	25...400 Hz
Minimalna struja preklapanja	5 mA for signalling circuit
Minimalni napon preklapanja	17 V for signalling circuit
Vreme nepreklapanja	1.5 Ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact
Otpornost izolacije	> 10 MOhm for signalling circuit
Kompatibilnost	LC2D







## Okruženje

Ip stepen zaštite	IP20 front face conforming to IEC 60529
Zaštitni tretman	TH conforming to IEC 60068-2-30
Stepen zaprljanosti	3
Temperatura okoline za rad	-40...60 °C 60...70 °C with derating
Temperatura okoline za skladištenje	-60...80 °C
Nadmorska visina za rad uređaja	0...3000 m
Otpornost na vatru	850 °C conforming to IEC 60695-2-1
Otpornost na plamen	V1 conforming to UL 94
Mehanička robusnost	Vibrations contactor open: 2 Gn, 5...300 Hz Vibrations contactor closed: 4 Gn, 5...300 Hz Shocks contactor open: 10 Gn for 11 ms Shocks contactor closed: 15 Gn for 11 ms
Visina	77 mm
Širina	90 mm
Dubina	86 mm
Masa proizvoda	0,783 kg
Boja	Siva (SE GREY 6) Zelena (SE GREEN 2)

## Pakovanje

Tip jedinice pakovanja 1	PCE
Broj jedinica u pakovanju 1	1
Pakovanje 1 težina	878 g
Pakovanje 1 visina	9,5 cm
Pakovanje 1 širina	11,4 cm
Pakovanje 1 dužina	14 cm
Pakovanje 2 težina	5,583 kg

## Održivost ponude

Status održive ponude	Green Premium proizvod
Propis REACh	 <a href="#">REACh Deklaracija</a>
EU RoHS direktiva	Usaglašeno  <a href="#">EU RoHS Deklaracija</a>
Bez žive	Da
Informacije o RoHS izuzecima	 <a href="#">Da</a>
RoHS regulativa za Kinu	 <a href="#">RoHS Deklaracija Za Kinu</a>
Izjava o zaštiti okoliša	 <a href="#">Profil Ekološke Prihvatljivosti Proizvoda</a>
Profil cirkularnosti	 <a href="#">Informacije O Kraju Radnog Veka</a>
WEEE	Ovaj proizvod je na tržištima Evropske unije neophodno odložiti u skladu sa specifičnim smernicama za prikupljanje otpada i nikako ne sme da dospe u kontejnere za otpatke.
Učinak u vezi sa sadržajem halogena	Proizvod sa plastičnim delovima i kablovima bez halogena

## Ugovorna garancija

Garancija	18 months
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