

LC1D09F7

Contacteur, TeSys Deca, 3P(3NO), AC-3/AC-3e, <=440V, 9A, 110V AC 50/60Hz coil, screw clamp terminals



Galvenā

Produkta sērija	TeSys Deca
Produkta vai sastāvdaļas veids	Contacteur
Ierīces īsais nosaukums	LC1D
Contacteur application	Resistive load Motor control
Utilisation category	AC-1 AC-3 AC-4 AC-3e
Polu skaits	3P
[Ue] nominālais darbības spriegums	Strāvas ķēde: <= 690 V AC 25...400 Hz Strāvas ķēde: <= 300 V DC
[Ie] rated operational current	9 A (at <60 °C) at <= 440 V AC AC-3 for strāvas ķēde 25 A (at <60 °C) at <= 440 V AC AC-1 for strāvas ķēde 9 A (at <60 °C) at <= 440 V AC AC-3e for strāvas ķēde
[Uc] control circuit voltage	110 V AC 50/60 Hz

Papildinošs

Motor power kW	2,2 kW at 220...230 V AC 50/60 Hz (AC-3) 4 kW at 380...400 V AC 50/60 Hz (AC-3) 4 kW at 415...440 V AC 50/60 Hz (AC-3) 5,5 kW at 500 V AC 50/60 Hz (AC-3) 5,5 kW at 660...690 V AC 50/60 Hz (AC-3) 2,2 kW at 400 V AC 50/60 Hz (AC-4) 2,2 kW at 220...230 V AC 50/60 Hz (AC-3e) 4 kW at 380...400 V AC 50/60 Hz (AC-3e) 4 kW at 415...440 V AC 50/60 Hz (AC-3e) 5,5 kW at 500 V AC 50/60 Hz (AC-3e) 5,5 kW at 660...690 V AC 50/60 Hz (AC-3e)
Motor power hp	1 Hp at 230/240 V AC 50/60 Hz for 1 fāze motors 2 Hp at 200/208 V AC 50/60 Hz for 3 fāzes motors 2 Hp at 230/240 V AC 50/60 Hz for 3 fāzes motors 5 Hp at 460/480 V AC 50/60 Hz for 3 fāzes motors 7,5 Hp at 575/600 V AC 50/60 Hz for 3 fāzes motors 0,33 hp at 115 V AC 50/60 Hz for 1 fāze motors
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	With
[Ith] conventional free air thermal current	25 A (at 60 °C) for strāvas ķēde 10 A (at 60 °C) for signalling circuit
Irms rated making capacity	250 A at 440 V for strāvas ķēde 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
Rated breaking capacity	250 A at 440 V for strāvas ķēde conforming to IEC 60947

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[I _{cw}] rated short-time withstand current	105 A 40 °C - 10 s for strāvas ķēde 210 A 40 °C - 1 s for strāvas ķēde 30 A 40 °C - 10 min for strāvas ķēde 61 A 40 °C - 1 min for strāvas ķēde 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 25 A gG at ≤ 690 V coordination type 1 for strāvas ķēde 20 A gG at ≤ 690 V coordination type 2 for strāvas ķēde
Average impedance	2,5 mhm - I _{th} 25 A 50 Hz for strāvas ķēde
Power dissipation per pole	1,56 W AC-1 0,2 W AC-3 0,2 W AC-3e
[U _i] rated insulation voltage	Strāvas ķēde 690 V IEC 60947-4-1 Strāvas ķēde 600 V CSA Strāvas ķēde 600 V UL Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling circuit 600 V UL
Pārsprieguma kategorija	III
Piesārņojuma pakāpe	3
[U _{imp}] rated impulse withstand voltage	6 kV IEC 60947
Safety reliability level	B10d = 1369863 cikli contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cikli contactor with mechanical load EN/ISO 13849-1
Mehāniskā izturība	15 M cikli
Electrical durability	0,6 M cikli 25 A AC-1 ≤ 440 V 2 M cikli 9 A AC-3 ≤ 440 V 2 M cikli 9 A AC-3e ≤ 440 V
Control circuit type	AC 50/60 Hz standard
Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.3...0.6 U _c -40...70 °C drop-out AC 50/60 Hz 0.8...1.1 U _c -40...60 °C operational AC 50 Hz 0.85...1.1 U _c -40...60 °C operational AC 60 Hz 1...1.1 U _c 60...70 °C operational AC 50/60 Hz
Inrush power in VA	70 VA 60 Hz cos phi 0,75 (at 20 °C) 70 VA 50 Hz cos phi 0,75 (at 20 °C)
Hold-in power consumption in VA	7,5 VA 60 Hz cos phi 0,3 (at 20 °C) 7 VA 50 Hz cos phi 0,3 (at 20 °C)
Heat dissipation	2...3 W at 50/60 Hz
Operating time	12...22 ms closing 4...19 ms opening
Maximum operating rate	3600 cikls/h 60 °C
Connections - terminals	Strāvas ķēde: screw clamp terminals 1 1...4 mm ² - cable stiffness: elastīgs without cable end Strāvas ķēde: screw clamp terminals 2 1...4 mm ² - cable stiffness: elastīgs without cable end Strāvas ķēde: screw clamp terminals 1 1...4 mm ² - cable stiffness: elastīgs with cable end Strāvas ķēde: screw clamp terminals 2 1...2,5 mm ² - cable stiffness: elastīgs with cable end Strāvas ķēde: screw clamp terminals 1 1...4 mm ² - cable stiffness: ciets without cable end Strāvas ķēde: screw clamp terminals 2 1...4 mm ² - cable stiffness: ciets without cable end Control circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: elastīgs without cable end Control circuit: screw clamp terminals 2 1...4 mm ² - cable stiffness: elastīgs without cable end Control circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: elastīgs with cable end Control circuit: screw clamp terminals 2 1...2,5 mm ² - cable stiffness: elastīgs with cable end Control circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: ciets without cable end Control circuit: screw clamp terminals 2 1...4 mm ² - cable stiffness: ciets without cable end

Tightening torque	Strāvas ķēde 1,7 N.m screw clamp terminals flat Ø 6 mm Strāvas ķēde 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 Control circuit 1,7 N.m screw clamp terminals pozidriv No 2 Strāvas ķēde 1,7 N.m screw clamp terminals pozidriv No 2
Papildkontakta veids	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	25...400 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
Montāžas stiprinājums	Plāksne Rail

Vide

Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1
Produkta sertifikācija	UL[RETURN]GOST[RETURN]GL[RETURN]CCC[RETURN]BV[RETURN]LROS (Lloyds register of shipping) [RETURN]CSA[RETURN]DNV[RETURN]RINA[RETURN]UKCA
IP degree of protection	IP20 priekšpuse IEC 60529
Protective treatment	THIEC 60068-2-30
Climatic withstand	IACS E10 exposure to damp heat IEC 60947-1 Annex Q category D exposure to damp heat
Permissible ambient air temperature around the device	-40...60 °C 60...70 °C with derating
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) Vibrations contactor closed 4 Gn, 5...300 Hz) Shocks contactor open 10 Gn for 11 ms) Shocks contactor closed 15 Gn for 11 ms)
Augstums	77 mm
Platums	45 mm
Dziļums	86 mm
Neto svars	0,32 kg

Iepakojšanas vienības

Pirmā iepakojuma vienības tips	PCE
Vienību skaits 1. iepakojumā	1
1. iepakojuma augstums	5 cm
1. iepakojuma platums	9,2 cm
1. iepakojuma garums	11,3 cm
1. iepakojuma svars	351 g
Otrā iepakojuma vienības tips	S02
Vienību skaits 2. iepakojumā	20
2. iepakojuma augstums	15 cm
2. iepakojuma platums	30 cm
2. iepakojuma garums	40 cm
2. iepakojuma svars	7,535 kg
Trešā iepakojuma vienības tips	P06
Vienību skaits 3. iepakojumā	320

3. iepakojuma augstums	80 cm
3. iepakojuma platums	80 cm
3. iepakojuma garums	60 cm
3. iepakojuma svars	130,555 kg

Piedāvājiēt ilgtspēju

Ilgtspējīgs piedāvājuma statuss	Green Premium izstrādājums
REACH regula	REACH Deklarācija
Nesatur REACH SVHC	Jā
ES RoHS direktīva	Atbilstīgs ES RoHS Deklarācija
Nesatur toksiskus smagos metālus	Jā
Nesatur dzīvsudrabu	Jā
Ķīnas RoHS regula	Ķīnas RoHS Deklarācija
Informācija par RoHS izņēmumiem	Jā
Vides informācijas publicēšana	Produkta Ietekme Uz Vidi
Cirkularitātes profils	Informācija Par Eksploatācijas Izbeigšanu
WEEE	Eiropas Savienības tirgū no šī produkta ir jāatbrīvojas, ievērojot noteiktu atkritumu savākšanas kārtību, un produkts nedrīkst nonākt sadzīves atkritumu tvertnēs.
Nesatur PVH	Jā

Līguma garantija

Garantija	18 months
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Dimensions



- (1) Including LAD 4BB
(2) Minimum electrical clearance

LC1		D09...D18	D093...D123	D099...D129
b	without add-on blocks	77	99	80
b1	with LAD 4BB	94	107	95.5
with LA4 D•2	110 ⁽¹⁾	123 ⁽¹⁾	111.5 ⁽¹⁾	
with LA4 DF, DT	119 ⁽¹⁾	132 ⁽¹⁾	120.5 ⁽¹⁾	
with LA4 DW, DL	126 ⁽¹⁾	139 ⁽¹⁾	127.5 ⁽¹⁾	
c	without cover or add-on blocks	84	84	84
	with cover, without add-on blocks	86	86	
c1	with LAD N or C (2 or 4 contacts)	117	117	117
c2	with LA6 DK10, LAD 6K10	129	129	129
c3	with LAD T, R, S	137	137	137
	with LAD T, R, S and sealing cover	141	141	
(1)	Including LAD 4BB.			

Wiring

