

LC1D50AE7

Contacteur, TeSys Deca, 3P(3 NO), AC-3/
AC-3e, <=400V, 50A, 48V AC 50/60Hz coil,
screw clamp terminals



Galvenā

Diapazons	TeSys TeSys Deca
Produkta sērija	TeSys Deca
Produkta vai sastāvdaļas veids	Contacteur
Ierīces īsais nosaukums	LC1D
Contacteur application	Motor control Resistive load
Utilisation category	AC-4 AC-1 AC-3 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	50 A (at <60 °C) at <= 440 V AC AC-3 for strāvas ķēde 80 A (at <60 °C) at <= 440 V AC AC-1 for strāvas ķēde 50 A (at <60 °C) at <= 440 V AC AC-3e for strāvas ķēde
[Uc] control circuit voltage	48 V AC 50/60 Hz

Papildinošs

Motor power kW	15 kW at 220...230 V AC 50/60 Hz (AC-3) 22 kW at 380...400 V AC 50/60 Hz (AC-3) 30 kW at 500 V AC 50/60 Hz (AC-3) 33 kW at 660...690 V AC 50/60 Hz (AC-3) 25 kW at 415 V AC 50/60 Hz (AC-3) 30 kW at 440 V AC 50/60 Hz (AC-3) 11 kW at 400 V AC 50/60 Hz (AC-4) 15 kW at 220...230 V AC 50/60 Hz (AC-3e) 22 kW at 380...400 V AC 50/60 Hz (AC-3e) 30 kW at 500 V AC 50/60 Hz (AC-3e) 33 kW at 660...690 V AC 50/60 Hz (AC-3e) 25 kW at 415 V AC 50/60 Hz (AC-3e) 30 kW at 440 V AC 50/60 Hz (AC-3e)
Motor power hp	3 Hp at 115 V AC 50/60 Hz for 1 fāze motors 7,5 Hp at 230/240 V AC 50/60 Hz for 1 fāze motors 15 Hp at 200/208 V AC 50/60 Hz for 3 fāzes motors 15 Hp at 230/240 V AC 50/60 Hz for 3 fāzes motors 40 Hp at 460/480 V AC 50/60 Hz for 3 fāzes motors 40 hp at 575/600 V AC 50/60 Hz for 3 fāzes motors
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	With
[Ith] conventional free air thermal current	10 A (at 60 °C) for signalling circuit 80 A (at 60 °C) for strāvas ķēde
Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 900 A at 440 V for strāvas ķēde conforming to IEC 60947
Rated breaking capacity	900 A at 440 V for strāvas ķēde conforming to IEC 60947

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[I _{cw}] rated short-time withstand current	400 A 40 °C - 10 s for strāvas ķēde 810 A 40 °C - 1 s for strāvas ķēde 84 A 40 °C - 10 min for strāvas ķēde 208 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 60947-5-1 100 A gG at ≤ 690 V coordination type 1 for strāvas ķēde 100 A gG at ≤ 690 V coordination type 2 for strāvas ķēde
Average impedance	1,5 mhm - I _{th} 80 A 50 Hz for strāvas ķēde
Power dissipation per pole	3,7 W AC-3 9,6 W AC-1 3,7 W AC-3e
[U _i] rated insulation voltage	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 Strāvas ķēde 690 V IEC 60947-4-1
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	6 M cikli
Electrical durability	1,45 M cikli 50 A AC-3 ≤ 440 V 1,1 M cikli 80 A AC-1 ≤ 440 V 1,45 M cikli 50 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	140 VA 60 Hz cos phi 0,75 (at 20 °C) 160 VA 50 Hz cos phi 0,75 (at 20 °C)
Hold-in power consumption in VA	13 VA 60 Hz cos phi 0,3 (at 20 °C) 15 VA 50 Hz cos phi 0,3 (at 20 °C)
Heat dissipation	4...5 W at 50/60 Hz
Operating time	4...19 ms opening 12...26 ms closing
Maximum operating rate	3600 cikls/h 60 °C
Connections - terminals	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: 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 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 Strāvas ķēde: skūvējams savienojums 1 1...35 mm ² - cable stiffness: elastīgs without cable end Strāvas ķēde: skūvējams savienojums 2 1...25 mm ² - cable stiffness: elastīgs without cable end Strāvas ķēde: skūvējams savienojums 1 1...35 mm ² - cable stiffness: elastīgs with cable end Strāvas ķēde: skūvējams savienojums 2 1...25 mm ² - cable stiffness: elastīgs with cable end Strāvas ķēde: skūvējams savienojums 1 1...35 mm ² - cable stiffness: ciets without cable end Strāvas ķēde: skūvējams savienojums 2 1...25 mm ² - cable stiffness: ciets without cable end

Tightening torque	Control circuit 1,7 N.m EverLink BTR screw connectors flat Ø 6 mm Control circuit 1,7 N.m EverLink BTR screw connectors Philips No 2 Strāvas ķēde 8 N.m EverLink BTR screw connectors 25...35 mm ² hexagonal 4 mm Strāvas ķēde 5 N.m EverLink BTR screw connectors 1...25 mm ² hexagonal 4 mm Control circuit 1,7 N.m EverLink BTR screw connectors pozidriv No 2 Strāvas ķēde 2,5 N.m EverLink BTR screw connectors 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	RINA[RETURN]CCC[RETURN]BV[RETURN]GL[RETURN]JUL[RETURN]LROS (Lloyds register of shipping)[RETURN]CSA[RETURN]DNV[RETURN]GOST
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 closed 15 Gn for 11 ms) Shocks contactor open 10 Gn for 11 ms)
Augstums	122 mm
Platums	55 mm
Dziļums	120 mm
Neto svars	0,855 kg

Iepakojšanas vienības

Pirmā iepakojuma vienības tips	PCE
Vienību skaits 1. iepakojumā	1
1. iepakojuma augstums	6,2 cm
1. iepakojuma platums	13,5 cm
1. iepakojuma garums	15,5 cm
1. iepakojuma svars	924,0 g
Otrā iepakojuma vienības tips	S02
Vienību skaits 2. iepakojumā	10
2. iepakojuma augstums	15,0 cm
2. iepakojuma platums	30,0 cm
2. iepakojuma garums	40,0 cm
2. iepakojuma svars	9,973 kg
Trešā iepakojuma vienības tips	P06

Vienību skaits 3. iepakojumā	160
3. iepakojuma augstums	77,0 cm
3. iepakojuma platums	80,0 cm
3. iepakojuma garums	60,0 cm
3. iepakojuma svars	168,068 kg

Piedāvājiem ilgtspēju

Ilgspējīgs 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 publiskošana	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) Minimum electrical clearance

LC1		D40A...D65A
a		55
b1	with LA4 D•2	–
with LA4 DB3 or LAD 4BB3	136	
with LA4 DF, DT	157	
with LA4 DM, DW, DL	166	
c	without cover or add-on blocks	118
with cover, without add-on blocks	120	
c1	with LAD N (1 contact)	–
with LAD N or C (2 or 4 contacts)	150	
c2	with LA6 DK10, LAD 6DK	163
c3	with LAD T, R, S	171
with LAD T, R, S and sealing cover	175	

Wiring

