

# LC1D80M7

Contacteur, TeSys Deca, 3P(3NO), AC-3/AC-3e, <=440V, 80A, 220V AC 50/60Hz coil, screw clamp terminals



## Galvenā

Diapazons	TeSys
Produkta sērija	TeSys Deca
Produkta vai sastāvdaļas veids	Contacteur
Ierīces īsais nosaukums	LC1D
Contacteur application	Motor control Resistive load
Utilisation category	AC-3 AC-3e AC-4 AC-1
Polu skaits	3P
[Ue] nominālais darbības spriegums	Strāvas ķēde: <= 300 V DC 25...400 Hz Strāvas ķēde: <= 690 V AC
[Ie] rated operational current	125 A (at <60 °C) at <= 440 V AC AC-1 for strāvas ķēde 80 A (at <60 °C) at <= 440 V AC AC-3 for strāvas ķēde 80 A (at <60 °C) at <= 440 V AC AC-3e for strāvas ķēde
[Uc] control circuit voltage	220 V AC 50/60 Hz

## Papildinošs

Motor power kW	22 KW at 220...230 V AC 50/60 Hz (AC-3) 37 KW at 380...400 V AC 50/60 Hz (AC-3) 45 KW at 415...440 V AC 50/60 Hz (AC-3) 55 KW at 500 V AC 50/60 Hz (AC-3) 45 KW at 660...690 V AC 50/60 Hz (AC-3) 15 KW at 400 V AC 50/60 Hz (AC-4) 22 KW at 220...230 V AC 50/60 Hz (AC-3e) 37 KW at 380...400 V AC 50/60 Hz (AC-3e) 45 KW at 415...440 V AC 50/60 Hz (AC-3e) 55 KW at 500 V AC 50/60 Hz (AC-3e) 45 kW at 660...690 V AC 50/60 Hz (AC-3e)
Motor power hp	7,5 Hp at 120 V AC 50/60 Hz for 1 fāze motors 15 Hp at 230/240 V AC 50/60 Hz for 1 fāze motors 30 Hp at 200/208 V AC 50/60 Hz for 3 fāzes motors 30 Hp at 230/240 V AC 50/60 Hz for 3 fāzes motors 60 Hp at 460/480 V AC 50/60 Hz for 3 fāzes motors 60 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 125 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 1100 A at 440 V for strāvas ķēde conforming to IEC 60947
Rated breaking capacity	1100 A at 440 V for strāvas ķēde conforming to IEC 60947

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[I <sub>cw</sub> ] rated short-time withstand current	640 A 40 °C - 10 s for strāvas ķēde 990 A 40 °C - 1 s for strāvas ķēde 135 A 40 °C - 10 min for strāvas ķēde 320 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 60947-5-1 200 A gG at ≤ 690 V coordination type 1 for strāvas ķēde 160 A gG at ≤ 690 V coordination type 2 for strāvas ķēde
Average impedance	0,8 mhm - I <sub>th</sub> 125 A 50 Hz for strāvas ķēde
Power dissipation per pole	5,1 W AC-3 12,5 W AC-1 5,1 W AC-3e
[U <sub>i</sub> ] rated insulation voltage	Strāvas ķēde 600 V CSA[RETURN]Strāvas ķēde 600 V UL[RETURN]Strāvas ķēde 1000 V IEC 60947-4-1[RETURN]Signalling circuit 690 V IEC 60947-1[RETURN]Signalling circuit 600 V CSA[RETURN]Signalling circuit 600 V UL
Pārsprieguma kategorija	III
Piesārņojuma pakāpe	3
[U <sub>imp</sub> ] rated impulse withstand voltage	8 kV IEC 60947
Safety reliability level	B10d = 1369863 cikli contactor with nominal load EN/ISO 13849-1 B10d = 2000000 cikli contactor with mechanical load EN/ISO 13849-1
Mehāniskā izturība	4 M cikli
Electrical durability	0,8 M cikli 125 A AC-1 ≤ 440 V 1,5 M cikli 80 A AC-3 ≤ 440 V 1,5 M cikli 80 A AC-3e ≤ 440 V
Control circuit type	AC 50/60 Hz standard
Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.85...1.1 U <sub>c</sub> -40...55 °C operational AC 60 Hz 0.3...0.6 U <sub>c</sub> -40...70 °C drop-out AC 50/60 Hz 0.8...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 50/60 Hz
Inrush power in VA	245 VA 60 Hz cos phi 0,75 (at 20 °C) 245 VA 50 Hz cos phi 0,75 (at 20 °C)
Hold-in power consumption in VA	26 VA 60 Hz cos phi 0,3 (at 20 °C) 26 VA 50 Hz cos phi 0,3 (at 20 °C)
Heat dissipation	6...10 W at 50/60 Hz
Operating time	20...35 ms closing 6...20 ms opening
Maximum operating rate	3600 cikls/h 60 °C
Connections - terminals	Control circuit: screw clamp terminals 2 1...2,5 mm <sup>2</sup> - cable stiffness: elastīgs with cable end Control circuit: screw clamp terminals 1 1...2,5 mm <sup>2</sup> - cable stiffness: elastīgs with cable end Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: elastīgs without cable end Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: elastīgs without cable end Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: ciets without cable end Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: ciets without cable end Strāvas ķēde: connector 1 4...50 mm <sup>2</sup> - cable stiffness: elastīgs without cable end Strāvas ķēde: connector 2 4...25 mm <sup>2</sup> - cable stiffness: elastīgs without cable end Strāvas ķēde: connector 1 4...50 mm <sup>2</sup> - cable stiffness: elastīgs with cable end Strāvas ķēde: connector 2 4...16 mm <sup>2</sup> - cable stiffness: elastīgs with cable end Strāvas ķēde: connector 1 4...50 mm <sup>2</sup> - cable stiffness: ciets without cable end Strāvas ķēde: connector 2 4...25 mm <sup>2</sup> - cable stiffness: ciets without cable end
Tightening torque	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 Strāvas ķēde 12 N.m connector flat Ø 6 to Ø 8 mm Strāvas ķēde 12 N.m connector hexagonal 4 mm Control circuit 1,2 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
Produkta sertifikācija	GOST[RETURN]RINA[RETURN]CCC[RETURN]CSA[RETURN]BV[RETURN]DNV[RETURN]G (Lloyds register of shipping)[RETURN]UL
IP degree of protection	IP20 priekšpuse IEC&nbsp;60529
Protective treatment	THIEC 60068-2-30
Climatic withstand	IACS E10 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) Shocks contactor open 8 Gn for 11 ms) Vibrations contactor closed 3 Gn, 5...300 Hz) Shocks contactor closed 10 Gn for 11 ms)
Augstums	127 mm
Platums	85 mm
Dziļums	130 mm
Neto svars	1,59 kg

## Iepakojšanas vienības

Pirmā iepakojuma vienības tips	PCE
Vienību skaits 1. iepakojumā	1
1. iepakojuma augstums	14,000 cm
1. iepakojuma platums	13,500 cm
1. iepakojuma garums	10,000 cm
1. iepakojuma svars	1,560 kg
Otrā iepakojuma vienības tips	S02
Vienību skaits 2. iepakojumā	5
2. iepakojuma augstums	15,000 cm
2. iepakojuma platums	30,000 cm
2. iepakojuma garums	40,000 cm
2. iepakojuma svars	8,085 kg
Trešā iepakojuma vienības tips	P06
Vienību skaits 3. iepakojumā	80
3. iepakojuma augstums	75,000 cm
3. iepakojuma platums	60,000 cm
3. iepakojuma garums	80,000 cm
3. iepakojuma svars	133,300 kg

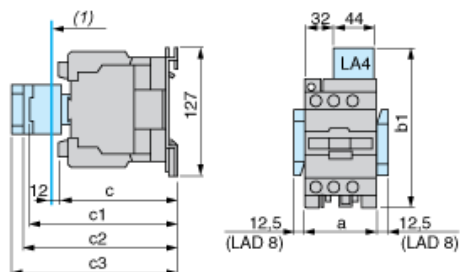
## Piedāvājiēt ilgtspēju

Ilgspējīgs piedāvājuma statuss	Green Premium izstrādājums
REACH regula	<a href="#">REACH Deklarācija</a>
Nesatur REACH SVHC	Jā
ES RoHS direktīva	Atbilstīgs <a href="#">ES RoHS Deklarācija</a>
Nesatur toksiskus smagos metālus	Jā
Nesatur dzīvsudrabu	Jā
Ķīnas RoHS regula	<a href="#">Ķīnas RoHS Deklarācija</a>
Informācija par RoHS izņēmumiem	<a href="#">Jā</a>
Vides informācijas publicēšana	<a href="#">Produkta Ietekme Uz Vidi</a>
Cirkularitātes profils	Nav jāveic īpašas darbības, lai nodotu otrreizējai pārstrādei
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		D80	D95
a		85	85
b1	with LA4 D•2	135	135
with LA4 DB3 or LAD 4BB3	135	—	
with LA4 DF, DT	142	142	
with LA4 DM, DW, DL	150	150	
c	without cover or add-on blocks	125	125
with cover, without add-on blocks	130	130	
c1	with LAD N (1 contact)	150	150
with LAD N or C (2 or 4 contacts)	158	158	
c2	with LA6 DK10, LAD 6DK	170	170
c3	with LAD T, R, S	178	178
with LAD T, R, S and sealing cover	182	182	

## Wiring

