Product data sheet Characteristics

LC1K0610F7

TeSys K contactor - 3P - AC-3 <= 440 V 6 A - 1 NO aux. - 110 V AC coil



Main

Man		5
Range of product	TeSys K	
Range	TeSys	į
Product or component type	Contactor	
Product name	TeSys K	,
Device short name	LC1K	
Device application	Control	i.
Contactor application	Motor control	

Complementary

Complementary		
Utilisation category	AC-4 AC-3	
Poles description	3P	
Poles description	JF	
Pole contact composition	3 NO	
[Ue] rated operational voltage	690 V AC 50/60 Hz for power circuit	
	<= 690 V AC 50/60 Hz for signalling circuit	
[le] rated operational current	6 A at <= 440 V AC AC-3 for power circuit	
Control circuit type	AC 50/60 Hz	
[Uc] control circuit voltage	110 V AC 50/60 Hz	
Motor power kW	1.5 kW at 220230 V AC 50/60 Hz AC-3	
	2.2 kW at 380415 V AC 50/60 Hz AC-3	
	1.5 kW at 400 V AC 50/60 Hz AC-4	:
	3 kW at 660690 V AC 50/60 Hz AC-3	
	3 kW at 440 V AC 50/60 Hz AC-3	
	3 kW at 480 V AC 50/60 Hz AC-3	
	3 kW at 500600 V AC 50/60 Hz AC-3	
Auxiliary contact composition	1 NO	
[Uimp] rated impulse withstand voltage	8 kV	
Overvoltage category	III	
[Ith] conventional free air thermal	20 A at <= 50 °C for power circuit	
current	10 A at <= 50 °C for signalling circuit	:

Irms rated making capacity	110 A AC for power circuit conforming to NF C 63-110 110 A AC for power circuit conforming to IEC 60947 110 A AC for signalling circuit conforming to IEC 60947	
Rated breaking capacity	110 A at 415 V conforming to IEC 60947 110 A at 440 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 110 A at 220230 V conforming to IEC 60947 110 A at 380400 V conforming to IEC 60947 70 A at 660690 V conforming to IEC 60947	
[Icw] rated short-time withstand current	20 A <= 50 °C >= 15 min power circuit 90 A <= 50 °C 1 s power circuit 85 A <= 50 °C 5 s power circuit 80 A <= 50 °C 10 s power circuit 60 A <= 50 °C 30 s power circuit 45 A <= 50 °C 1 min power circuit 40 A <= 50 °C 3 min power circuit 40 A 1 s signalling circuit 90 A 500 ms signalling circuit 110 A 100 ms signalling circuit	
Associated fuse rating	25 A gG at <= 440 V for power circuit 25 A aM for power circuit 10 A gG for signalling circuit conforming to IEC 60947 10 A gG for signalling circuit conforming to VDE 0660	
Average impedance	3 mOhm at 50 Hz - Ith 20 A for power circuit	
[Ui] rated insulation voltage	690 V for signalling circuit conforming to IEC 60947-4-1 690 V for signalling circuit conforming to IEC 60947-5-1 600 V for signalling circuit conforming to UL 508 600 V for power circuit conforming to CSA C22.2 No 14 600 V for signalling circuit conforming to CSA C22.2 No 14 690 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit conforming to UL 508	
Insulation resistance	> 10 MOhm for signalling circuit	
Inrush power in VA	30 VA at 20 °C	
Hold-in power consumption in VA	4.5 VA at 20 °C	
Heat dissipation	1.3 W	
Control circuit voltage limits	0.20.75 Uc at <= 50 °C drop-out 0.81.15 Uc at <= 50 °C operational	
Connections - terminals	Screw clamp terminals 1 cable(s) 1.54 mm² - cable stiffness: solid Screw clamp terminals 1 cable(s) 0.754 mm² - cable stiffness: flexible - without cable end Screw clamp terminals 1 cable(s) 0.342.5 mm² - cable stiffness: flexible - with cable end Screw clamp terminals 2 cable(s) 1.54 mm² - cable stiffness: solid Screw clamp terminals 2 cable(s) 0.754 mm² - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 0.341.5 mm² - cable stiffness: flexible - with cable end	
Operating rate	3600 cyc/h	
Auxiliary contacts type	Type instantaneous (1 NO)	
Signalling circuit frequency	<= 400 Hz	
Minimum switching current	5 mA for signalling circuit	
Minimum switching voltage	17 V for signalling circuit	
Mounting support	Rail Plate	
Tightening torque	1.3 N.m - on screw clamp terminals - with screwdriver Philips No 21.3 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm	
Operating time	1020 ms coil de-energisation and NO opening 1020 ms coil energisation and NO closing	
Safety reliability level	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	
Non overlap distance	0.5 mm	
Mechanical durability	10 Mcycles	
Electrical durability	1.3 Mcycles 6 A AC-3 at Ue <= 440 V	
Mechanical robustness	Shocks contactor closed, on X axis 10 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Y axis 15 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Z axis 15 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis 6 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Y axis 10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis 10 Gn for 11 ms IEC 60068-2-27	

Vibrations	contactor	closed 4 Gn	, 5	.300 Hz I	EC 60068-2-6	
Vibrations	contactor	opened 2 Gr	า. 5	300 Hz	IEC 60068-2-6	6

Height	58 mm	
Width	45 mm	
Depth	57 mm	
Product weight	0.18 kg	
Power range	0.551 kW 200240 V 3 phases 0.551 kW 380440 V 3 phases 0.551 kW 480500 V 3 phases 1.12 kW 200240 V 3 phases 1.12 kW 380440 V 3 phases 2.23 kW 380440 V 3 phases 2.23 kW 480500 V 3 phases	
Motor starter type	00.5 kW 200240 V 3 phases 00.5 kW 380440 V 3 phases 00.5 kW 480500 V 3 phases 1.12 kW 480500 V 3 phases	
Motor starter type	Direct on-line contactor	
Contactor coil voltage	110 V AC standard	

Environment

Chandanda	DC 5404		
Standards	BS 5424		
	IEC 60947		
	NF C 63-110		
	VDE 0660		
Product certifications	UL		
	CSA		
IP degree of protection	IP2x conforming to VDE 0106		
Protective treatment	TC conforming to IEC 60068		
	TC conforming to DIN 50016		
Ambient air temperature for operation	-2550 °C		
Ambient air temperature for storage	-5080 °C		
Operating altitude	2000 m without derating in temperature		
Flame retardance	V1 conforming to UL 94		
	Requirement 2 conforming to NF F 16-101		
	Requirement 2 conforming to NF F 16-102		

Offer Sustainability

Sustainable offer status	Green Premium product	
RoHS (date code: YYWW)	Compliant - since 0640 - Schneider Electric declaration of conformity	
	Schneider Electric declaration of conformity	
REACh	Reference not containing SVHC above the threshold	
	Reference not containing SVHC above the threshold	
Product environmental profile	Available	
	Product environmental	
Product end of life instructions	Available	
	End of life manual	

Contractual warranty

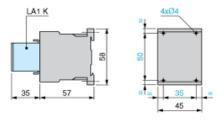
Contractual warranty			
Warranty period	18 months		

Product data sheet Dimensions Drawings

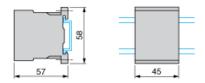
LC1K0610F7

Dimensions

Contactors LC1 K, LP1 K, LP4 K: Mounting on Panel

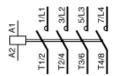


Contactors LC1 K, LP1 K, LP4 K: Mounting on Rail AM1 DP200 or AM1 DE200 (35 mm)

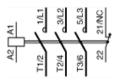


Wiring

3-Pole Contactors: 3P + N/O



3-Pole Contactors: 3P + N/C



LC1K0610F7

Our Proposal - Type 1 : Circuit Breaker + Contactor for Motor Power from 0,06 to 2,2 kW and 415 VAC

Motor power	ICU	Breaker	Contactor (*)
(kW)	(kA)		
0.06	> 100	GV2ME02	LC1K0610F7
		GVZIVILOZ	LOTROOTOT 7
0.09	> 100	GV2ME03	LC1K0610F7
0,12 to 0,18	> 100	2000	
, ,			
		GV2ME04	LC1K0610F7
0,25 to 0,37	> 100	GV2ME05	LC1K0610F7
0.55	. 400	O V ZIVIL 03	EO TROOTOL 7
0.55	> 100	GV2ME06	LC1K0610F7
0.75	> 100	GV2ME07	LC1K0610F7
1,1 to 1,5	> 100	GV2ME08	LC1K0610F7
2.2	> 100	GV2ME10	LC1K0610F7
		OVZIVIL 10	LO TROOTOL 7

Non contractual pictures.

Type 1 coordination requires that in a short-circuit condition, the contactor or starter must not present any danger to personnel or installations and must not be able to resume operation without repair or the replacement of parts.