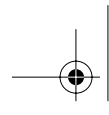




Characteristics

Contactors

Mini-contactors type LC1-SKGC
for use in modular panels



Environment

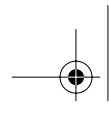
2	Rated insulation voltage (UI)	Conforming to IEC/EN 60947-1, IEC/EN 60947-4-1, VDE 0110 gr C, CSA 22-2 n° 14, UL 508	V	690	
	Conforming to standards			IEC/EN 60947-1, IEC/EN 60947-4-1, NF C 63-110, VDE 0660	
2.1	Approvals			UL, CSA	
	Protective treatment	Conforming to IEC/EN 60068 (DIN 50015)		"TC" (Klimafest, Climateproof)	
	Degree of protection	Conforming to VDE 0106		Protection against direct finger contact	
	Ambient air temperature around the device	Storage	°C	- 50...+ 70	
		Operation	°C	- 20...+ 50	
	Maximum operating altitude	Without derating	m	2000	
	Operating position	Vertical axis			
		Horizontal axis			
		Without derating	Without derating		
	Cabling, screw clamp terminals			min	
				max	
		Solid conductor	mm²	1 x 1.5 or 2 x 1.5	1 x 6 or 2 x 4
		Flexible cable without cable end	mm²	1 x 0.5 or 2 x 0.35	1 x 6 or 2 x 2.5
	Flexible cable with cable end	mm²	1 x 0.35 or 2 x 0.35	1 x 6 or 2 x 1.5	
	Tightening torque	Pozidriv n° 1 head	N.m	0.8	
	Terminal referencing			Conforming to standards EN 50005	

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Characteristics

Contactors

Mini-contactors type LC1-SKGC
for use in modular panels

Pole characteristics

Contactor type			LC1-SKGC2	LC1-SKGC3 and LC1-SKGC4
Conventional thermal current (I _{th})	For ambient temperature ≤ 55 °C	A	12	20
Rated operational frequency		Hz	50/60	
Frequency limits of the operational current		Hz	Up to 400	
Rated operational voltage (U _e)		V	690	
Rated making capacity	I rms conforming to NF C 63-110 and IEC/EN 60947-4-1	A	66	85
Rated breaking capacity (for U _e ≤ 400 V)	Conforming to NF C 63-110 and IEC/EN 60947-4-1 (I rms)	A	52	68
Short time rating	In free air for a time "t" from cold state (θ ≤ 55 °C)	A	50	60
Short-circuit protection	gG fuse U ≤ 440 V	A	16	20
Average impedance per pole	At I _{th} and 50 Hz	mΩ	4	4
Maximum rated operational current	for a temperature ≤ 55 °C			
	AC-3 (U _e ≤ 400 V)	A	6	9
	AC-1	A	12	20
Utilisation in category AC-1 resistive circuits, heating, lighting (U _e ≤ 440 V)	Increase in operational current by paralleling of poles	A	20	32

2

2.1

Auxiliary contact characteristics of mini contactors

Rated operational voltage (U _e)	Up to	V	690
Rated insulation voltage (U _i)	Conforming to IEC/EN 60947-1, VDE 0110 group C, CSA C 22-2 n° 14	V	690
Conventional thermal current (I _{th})	For ambient temperature ≤ 55 °C	A	10
Frequency of operational current		Hz	Up to 400
Short-circuit protection	To IEC/EN 60947-5-1 and VDE 0660, gG fuse	A	10

Operational power of contacts conforming to IEC/EN 60947-5-1

a.c. supply, category AC-15

Electrical durability (valid up to 3600 operating cycles per hour) on an inductive load such as the coil of an electromagnet: making current (cos φ 0.7) = 10 times the breaking current (cos φ 0.4).

V	24	48	110/ 127	220/ 230	380/ 400	440
1 million operating cycles	VA 48	96	240	440	800	880
3 million operating cycles	VA 17	34	86	158	288	317
10 million operating cycles	VA 7	14	36	66	120	132
Occasional making capacity	VA 1000	2050	5000	10000	14000	13000

d.c. supply, category DC-13

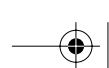
Electrical durability (valid up to 1200 operating cycles per hour) on an inductive load such as the coil of an electromagnet, without economy resistor, the time constant increasing with the load.

V	24	48	110	220	440
1 million operating cycles	W 120	80	60	52	51
3 million operating cycles	W 55	38	30	28	26
10 million operating cycles	W 15	11	9	8	7
Occasional making capacity	W 720	600	400	300	230

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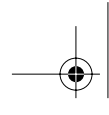




Characteristics (continued)

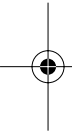
Contactors

Mini-contactors type LC1-SKGC
for use in modular panels



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2.1

Control circuit characteristics			
Contactor type		LC1-SKGC2	LC1-SKGC3 and LC1-SKGC4
Rated control circuit voltage (Uc)		V	~ 24...400
Control voltage limits ($\theta \leq 55$ °C) single voltage coil	For operation		0.85...1.1 Uc
	For drop-out		≥ 0.20 Uc
Average coil consumption at 20 °C and at Uc	Inrush		16 VA 23 A
	Sealed		4.2 VA 4.9 VA
Heat dissipation		W	1.4 1.5
Operating time at 20 °C and at Uc	Between coil energisation and - opening of the N/C contacts - closing of the N/O contacts	ms ms	8...16 7...14
	Between coil de-energisation and - opening of the N/O contacts - closing of the N/C contacts	ms ms	6...8 8...10
Maximum operating rate	In operating cycles per hour		1200
Mechanical durability at Uc In millions of operating cycles	50/60 Hz coil		10

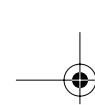




Contactor selection according to required electrical durability

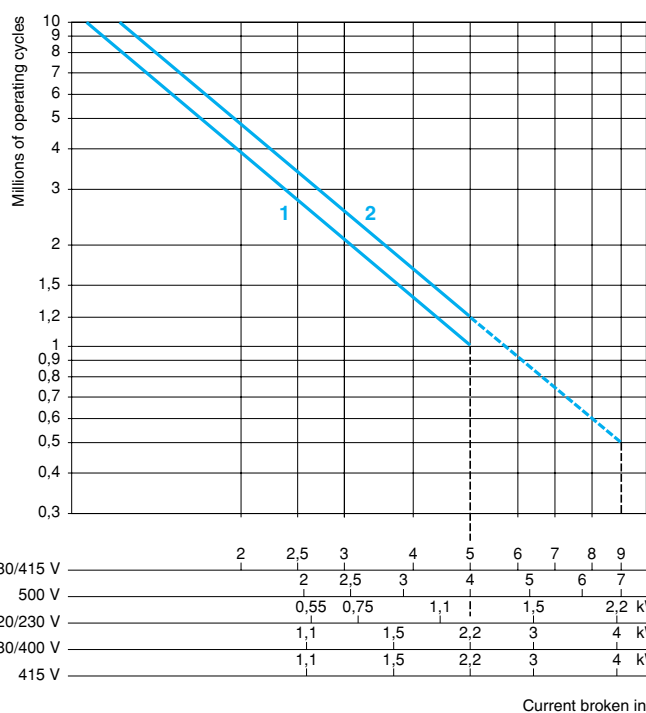
Contactors

Mini-contactors type LC1-SKGC
for use in modular panels



Use in category AC-3 ($U_e \leq 440$ V)

Control of 3-phase asynchronous squirrel cage motors with breaking whilst running.
The current broken (I_c) in category AC-3 is equal to the rated operational current (I_e) of the motor.

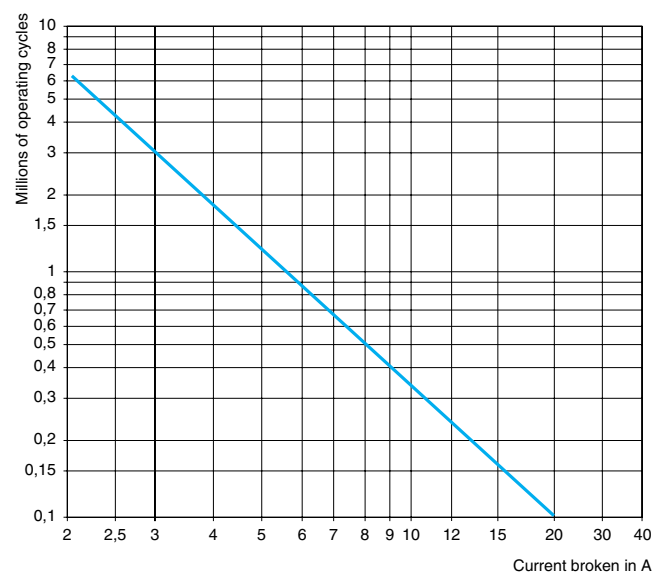


- 1 LC1-SKGC2
- 2 LC1-SKGC3 and C4
- only up to 415 V

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2.1

Use in category AC-1 ($U_e \leq 440$ V)

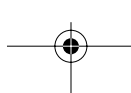
Control of resistive circuits ($\cos \varphi \geq 0.95$).
The current broken (I_c) in category AC-1 is equal to the current (I_e) normally drawn by the load.

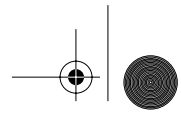


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References

Contactors

Mini-contactors type LC1-SKGC for use in modular panels

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LC1-SKGC200

- Mounting on 35 mm rail or fixing by two Ø 4 screws, except for LC1-SKGC200,
- connection by screw clamp terminals,
- mini-contactor fitted with transparent, sealable protective cover to prevent front face access.

Mini-contactors, width 27 mm

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3			Rated operational current in AC-3	Non inductive loads category AC-1 maximum current $\theta \leq 50^\circ\text{C}$	No. of poles	Basic reference. Complete with code indicating control circuit voltage (1)	Weight
220 V	380 V	660 V					
230 V	415 V	690 V	up to 400 V				
kW	kW	kW	A	A			kg
-	-	-	5	20	2 - -	LC1-SKGC200●●	0.132

Mini-contactors, width 45 mm



LC1-SKGC400

1.1	4	4	9	20	3 1 -	LC1-SKGC310●●	0.175
					3 - 1	LC1-SKGC301●●	0.175
					4 - -	LC1-SKGC400●●	0.175

(1) Standard control circuit voltages (for other voltages, please call our Customer information centre on 0870 608 8 608).
 Volts ~ 24 48 110 120 220 230 240 380 400
 50/60 Hz
 Code B7 E7 F7 G7 M7 P7 U7 Q7 V7

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References

Contactors

Mini-contactors type LC1-SKGC
Suppressor modules



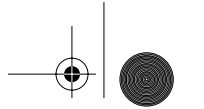
Suppressor modules

Connection without need for tools by clipping onto right-hand side of contactor

For use on contactors	Type	For voltages	Sold in lots of	Unit reference	Weight kg
LC1-SKGC	Varistor (1)	~ and --- 24...48 V	10	LA4-SKE1E	0.003
		~ and --- 110...250 V	10	LA4-SKE1U	0.003
	Diode (2)	--- 24...250 V	10	LA4-SKC1U	0.003

(1) Protection provided by limiting the transient voltage to 2 Uc max. Maximum reduction of transient voltage peaks. Slight increase in drop-out time (1.1 to 1.5 times the normal time).
(2) No overvoltage or oscillating frequency. Slight increase in drop-out time (1.1 to 1.5 times the normal time).

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Dimensions, mounting

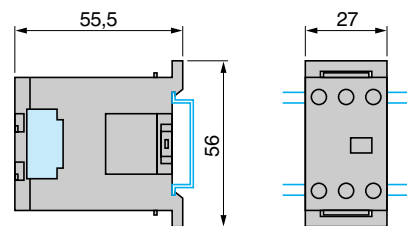
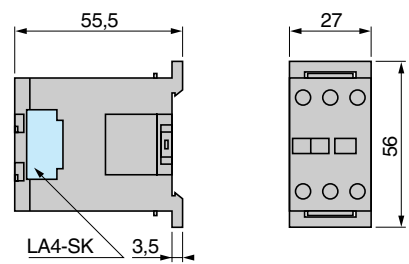
Contactors

Mini-contactors type LC1-SKGC
for use in modular panels

Dimensions Mini-contactors LC1-SKGC2

Mounting on rail AM1-DP200 or AM1-DE200 (┌ 35 mm)

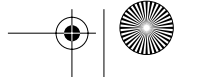
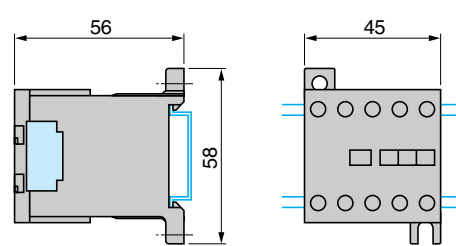
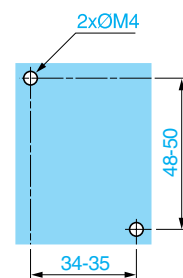
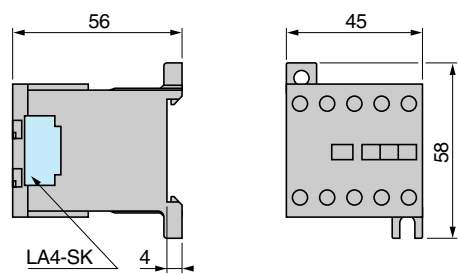
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Dimensions Mini-contactors LC1-SKGC3 and SKGC4

Mounting on panel

on rail AM1-DP200 or AM1-DE200 (┌ 35 mm)

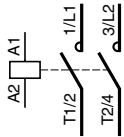


Schemes

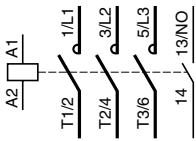
Contactors

Mini-contactors type LC1-SKGC for use in modular panels

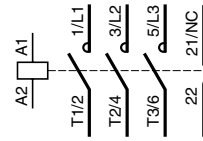
2-pole mini-contactors LC1-SKGC2



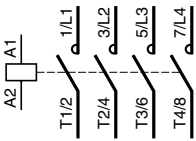
3-pole mini-contactors LC1-SKGC310



LC1-SKGC301



4-pole mini-contactors LC1-SKGC400



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2.1

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