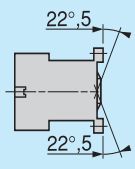
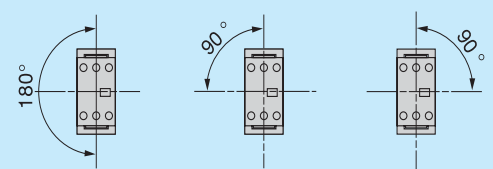


Environment			
<b>Rated insulation voltage (Ui)</b>	Conforming to 60947, VDE 0110 gr C, BS 5424, CSA 22-2 n° 14, UL 508	<b>V</b>	690
<b>Conforming to standards</b>			IEC 60947, NF C 63-110, VDE 0660, BS 5424
<b>Approvals</b>			UL, CSA
<b>Protective treatment</b>	Conforming to IEC 60068 (DIN 50015)		"TC" (Klimafest, Climateproof)
<b>Degree of protection</b>	Conforming to VDE 0106		Protection against direct finger contact
<b>Ambient air temperature around the device</b>	Storage	<b>°C</b>	- 50...+ 70
	Operation	<b>°C</b>	- 20...+ 50
<b>Maximum operating altitude</b>	Without derating	<b>m</b>	2000
<b>Operating position</b>			<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p><b>Vertical axis</b></p>  <p>Without derating</p> </div> <div style="text-align: center;"> <p><b>Horizontal axis</b></p>  <p>Without derating</p> </div> </div>
<b>Cabling, screw clamp terminals</b>			Min
	Solid conductor	<b>mm<sup>2</sup></b>	1 x 1.5 or 2 x 1.5
	Flexible cable without cable end	<b>mm<sup>2</sup></b>	1 x 0.5 or 2 x 0.35
	Flexible cable with cable end	<b>mm<sup>2</sup></b>	1 x 0.35 or 2 x 0.35
			Max
			1 x 6 or 2 x 4
			1 x 6 or 2 x 2.5
			1 x 6 or 2 x 1.5
<b>Tightening torque</b>	Pozidriv n° 1 head	<b>N.m</b>	0.8
<b>Terminal referencing</b>			Conforming to standards En 50005

Pole characteristics			
<b>Conventional thermal current (I<sub>th</sub>)</b>	For ambient temperature ≤ 55 °C	<b>A</b>	12
<b>Rated operational frequency</b>		<b>Hz</b>	50/60
<b>Frequency limits of the operational current</b>		<b>Hz</b>	Up to 400
<b>Rated operational voltage (U<sub>e</sub>)</b>		<b>V</b>	690
<b>Rated making capacity</b>	I rms conforming to NF C 63-110 and IEC 60947	<b>A</b>	66
<b>Rated breaking capacity (for U<sub>e</sub> ≤ 400 V)</b>	Conforming to NF C 63-110 and IEC 60947 (I rms)	<b>A</b>	52
<b>Short time rating</b>	In free air for a time "t" from cold state (θ ≤ 55 °C)	<b>A</b>	50
<b>Short-circuit protection</b>	gl fuse U ≤ 440 V	<b>A</b>	16
<b>Average impedance per pole</b>	At I <sub>th</sub> and 50 Hz	<b>mΩ</b>	4
<b>Maximum rated operational current</b>			
For a temperature ≤ 55 °C	AC-3 (1) (U <sub>e</sub> ≤ 400 V)	<b>A</b>	6
	AC-1	<b>A</b>	12
<b>Utilisation in category AC-1 resistive circuits, heating, lighting (U<sub>e</sub> ≤ 440 V)</b>	Increase in operational current by paralleling of poles	<b>A</b>	20

Auxiliary contact characteristics of add-on blocks			
<b>Rated operational voltage (U<sub>e</sub>)</b>	Up to	<b>V</b>	690
<b>Rated insulation voltage (U<sub>i</sub>)</b>	Conforming to IEC 60947, BS 5424, VDE 0110 group C, CSA C 22-2 n° 14	<b>V</b>	690
<b>Conventional thermal current (I<sub>th</sub>)</b>	For ambient temperature ≤ 55 °C	<b>A</b>	10
<b>Frequency of operational current</b>		<b>Hz</b>	Up to 400
<b>Short-circuit protection</b>	Conforming to IEC 60947 and VDE 0660, gl fuse	<b>A</b>	10

	a.c. supply, category AC-15						d.c. supply, category DC-13						
	V	24	48	110/127	220/230	380/400	440	V	24	48	110	220	440
1 million operating cycles	<b>VA</b>	48	96	240	440	800	880	<b>W</b>	120	80	60	52	51
3 million operating cycles	<b>VA</b>	17	34	86	158	288	317	<b>W</b>	55	38	30	28	26
10 million operating cycles	<b>VA</b>	7	14	36	66	120	132	<b>W</b>	15	11	9	8	7
Occasional making capacity	<b>VA</b>	1000	2050	5000	10000	14000	13000	<b>W</b>	720	600	400	300	230

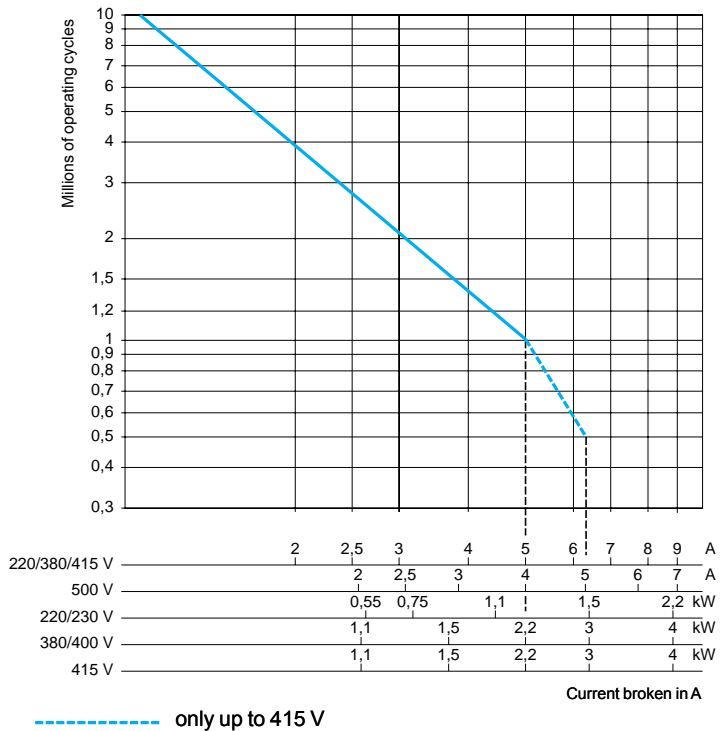
(1) For LC1 contactors.

Control circuit characteristics				
Type			LC1 SK06	LP1 SK06
<b>Rated control circuit voltage (Uc)</b>		<b>V</b>	~ 24...400	≡ 12...72
<b>Control voltage limits</b> (θ ≤ 55 °C)	For operation		0.85...1.1 Uc	0.85...1.1 Uc
	For drop-out		≥ 0.20 Uc	≥ 0.10 Uc
<b>Average coil consumption at 20 °C and at Uc</b>	Inrush		16 VA	2.2 W
	Sealed		4.2 VA	2.2 W
<b>Heat dissipation</b>		<b>W</b>	1.4	2.2
<b>Operating time at 20 °C and at Uc</b>				
Between coil energisation and	opening of the N/C contacts	<b>ms</b>	8...16	10...18
	closing of the N/O contacts	<b>ms</b>	7...14	8...12
Between coil de-energisation and	opening of the N/O contacts	<b>ms</b>	6...8	4...6
	closing of the N/C contacts	<b>ms</b>	8...10	6...8
<b>Maximum operating rate</b>	In operating cycles per hour		1200	1200
<b>Mechanical durability at Uc</b> In millions of operating cycles	50/60 Hz coil		10	–
	≡ coil		–	10

### 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.



### 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.

