TeSys contactors
For utilisation category AC-1

Maximum operational current (open-mounted device)

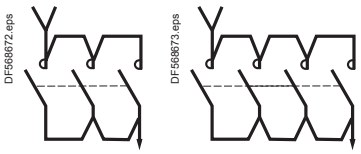
Contactor size			LC1/ LP1 K09	LC1/ LP1 K12	LC1 D09	LC1 DT20	LC1 D12 DT25	LC1 D18 DT32	LC1 D25 DT40	LC1 D32	LC1 D38	LC1 D40A DT60A	LC1 D50A
Maximum operating rate in operating cycles/hour			600	600	600	600	600	600	600	600	600	600	600
Connection conforming to IEC 60947-1	Cable c.s.a.	mm²	4	4	4	4	4	6	6	10	10	35	35
	Bar c.s.a.	mm	–	–	–	–	–	–	–	–	–	–	–
Operational current in AC-1 in A, according to the ambient temperature conforming to IEC 60947-1	≤ 40 °C	A	20	20	25	20	25	32	40	50	50	60	80
	≤ 60 °C	A	20	20	25	20	25	32	40	50	50	60	80
	≤ 70 °C	A (at UC)	(1)	(1)	17	(1)	17	22	28	35	35	42	56
Maximum operational power ≤ 60 °C	220/230 V	kW	8	8	9	8	9	11	14	18	18	21	29
	240 V	kW	8	8	9	8	9	12	15	19	19	23	31
	380/400 V	kW	14	14	15	14	15	20	25	31	31	37	50
	415 V	kW	14	14	17	14	17	21	27	34	34	41	54
	440 V	kW	15	15	18	15	18	23	29	36	36	43	58
	500 V	kW	17	17	20	17	20	23	33	41	41	49	65
	660/690 V	kW	22	22	27	22	27	34	43	54	54	65	80
	1000 V	kW	–	–	–	–	–	–	–	–	–	–	–

(1) Please consult your Regional Sales Office.

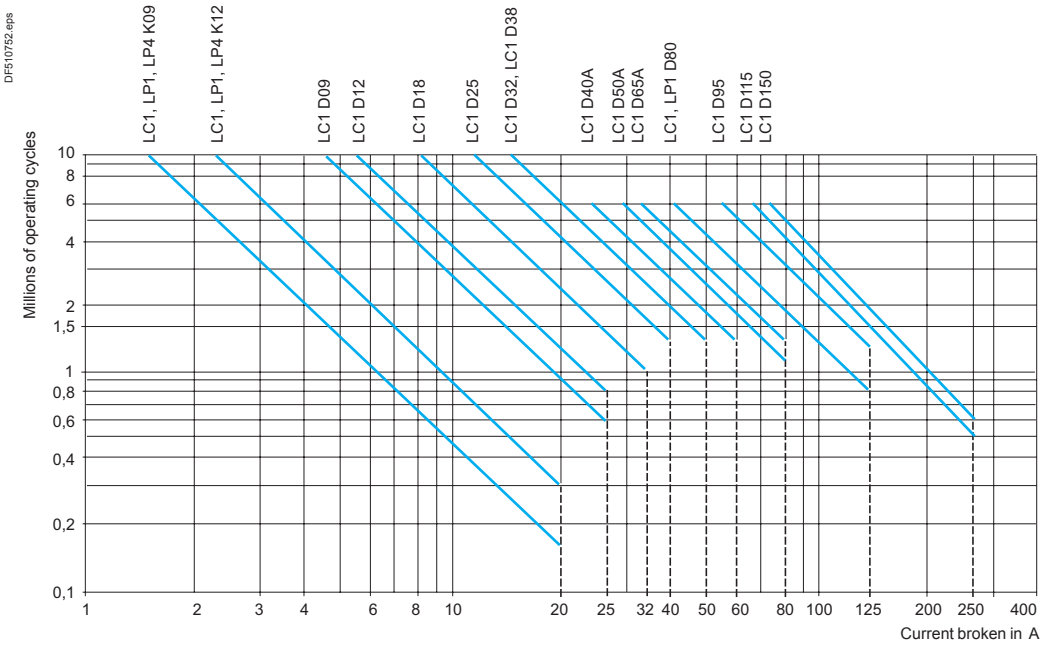
Increase in operational current by parallel connection of poles

Apply the following coefficients to the currents or power values given above; these coefficients take into account an often unbalanced current distribution between the poles:

- 2 poles in parallel: K = 1.6
- 3 poles in parallel: K = 2.25
- 4 poles in parallel: K = 2.8



Selection according to required electrical durability, in category AC-1 (Ue ≤ 690 V)



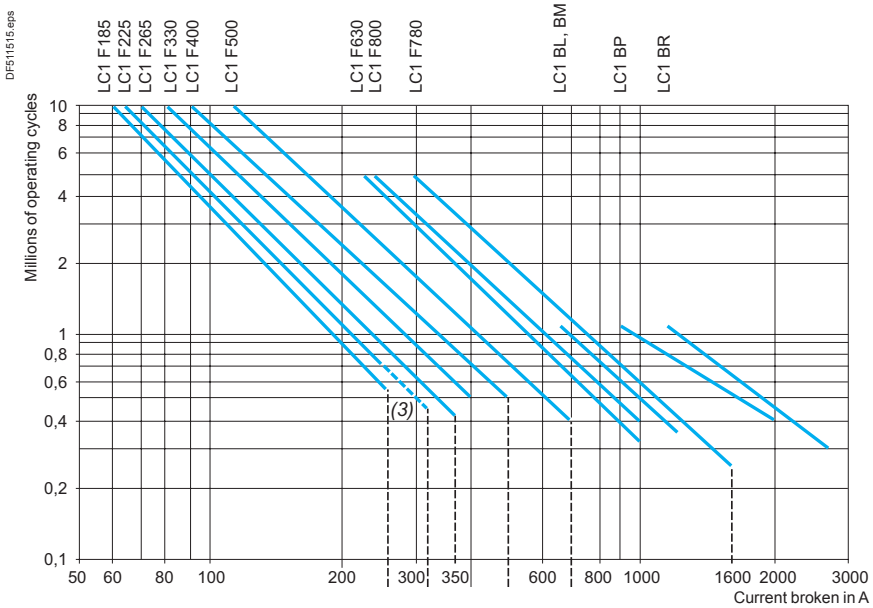
Control of resistive circuits (cos φ ≥ 0.95).
The current broken (Ic) in category AC-1 is equal to the current (Ie) normally drawn by the load.

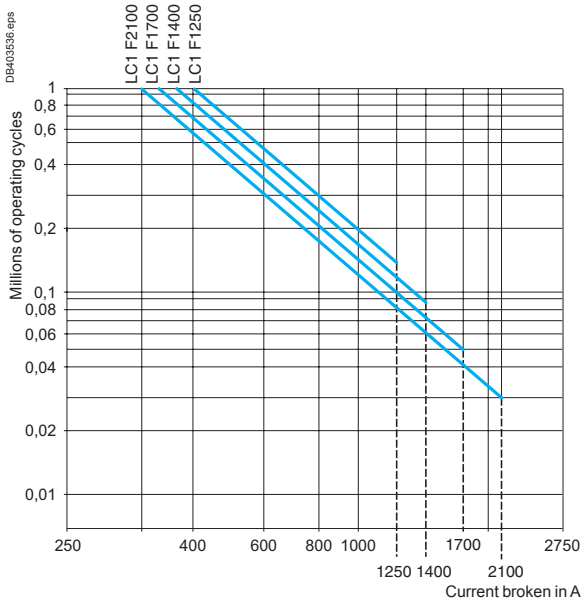
Example:

- Ue = 220 V - Ie = 50 A θ ≤ 40 °C - Ic = Ie = 50 A.
- 2 million operating cycles required.
- The above selection curves show the contactor rating needed: either LC1 or LP1 D50.

Characteristics : pages 5/50 to 5/55
References : pages 5/62 to 567
Dimensions, schemes : pages 5/92 to 5/97

LC1 D65A DT80A	LC1/ LP1 D80	LC1 D95	LC1 D115	LC1 D150	LC1 F185	LC1 F225	LC1 F265	LC1 F330	LC1 F400	LC1 F500	LC1 F630	LC1 F780	LC1 F800	LC1 F1250	LC1 F1400	LC1 F1700	LC1 F2100	LC1 BL	LC1 BM	LC1 BP	LC1 BR
600	600	600	600	600	600	600	600	600	600	600	600	600	600	300	200	200	200	120	120	120	120
35	50	50	120	120	150	185	185	240	–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	2 30 x 5	2 40 x 5	2 60 x 5	2 100 x 5	2 60 x 5	2 100 x 5	2 100 x 5	3 100 x 5	4 100 5	2 50 x 5	2 80 x 5	2 100 x 5	2 100 x 10
80	125	125	250	250	275	315	350	400	500	700	1000	1600	1000	1260	1400	1700	2100 (2)	800	1250	2000	2750
80	125	125	200	200	275	280	300	360	430	580	850	1350	850	1060	1190	1450	1750	700	1100	1750	2400
56	80	80	160	160	180	200	250	290	340	500	700	1100	700	–	–	–	–	600	900	1500	2000
29	45	45	80	80	90	100	120	145	170	240	350	550	350	420	474	570	700	300	425	700	1000
31	49	49	83	83	100	110	125	160	180	255	370	570	370	440	490	600	780	330	450	800	1100
50	78	78	135	135	165	175	210	250	300	430	600	950	600	730	820	1000	1200	500	800	1200	1600
54	85	85	140	140	170	185	220	260	310	445	630	1000	630	760	850	1050	1300	525	825	1250	1700
58	90	90	150	150	180	200	230	290	330	470	670	1050	670	810	910	1100	1350	550	850	1400	2000
65	102	102	170	170	200	220	270	320	380	660	750	1200	750	920	1000	1250	1550	600	900	1500	2100
80	135	135	235	235	280	300	370	400	530	740	1000	1650	1000	1260	1400	1700	2100	800	1100	1900	2700
–	120	120	345	345	410	450	540	640	760	950	1500	2400	1500	1840	2100	2500	3100	1100	1700	3000	4200





Example:

- Ue = 220 V - Ie = 500 A - $\theta \leq 40$ °C - Ic = Ie = 500 A.
- 2 million operating cycles required.
- The above selection curves show the contactor rating needed: LC1 F780.

*(3) The dotted lines are only applicable to **LC1 F225**.*