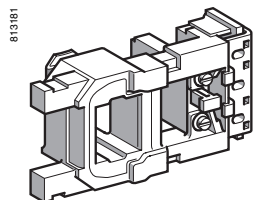


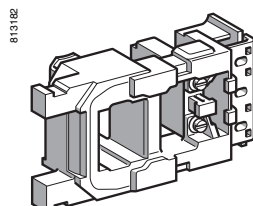
TeSys contactors

TeSys LC1 F

a.c. 50/60 Hz supply coils



LX1 FF●●●



LX1 FG●●●

References

Maximum ambient air temperature: 55 °C. Above this, use an LX9 F coil, see page 5/123.
Operating cycles/hour ($\theta \leq 55\text{ °C}$): ≤ 2400 .

Control circuit voltage		Average	Inductance	Voltage	Reference	Weight
Uc - 50 Hz	Uc - 60 Hz	resistance at 20 °C ± 10 %	of closed circuit	code		
V	V	Ω	H			kg
For contactors LC1 F115 and LC1 F150						
24	—	0.27	0.04	B5	LX1 FF024	0.430
42	—	0.94	0.13	D5	LX1 FF042	0.430
—	48	0.78	0.11	E6	LX1 FF040	0.430
48	—	1.17	0.16	E5	LX1 FF048	0.430
—	110	4.55	0.59	F6	LX1 FF092	0.430
—	120	4.77	0.64	G6	LX1 FF095	0.430
110	—	6.38	0.86	F5	LX1 FF110	0.430
115	—	6.38	0.86	FE5	LX1 FF110	0.430
127/132	—	9.14	1.15	G5	LX1 FF127	0.430
—	200/208	14.5	1.87	L6	LX1 FF162	0.430
—	220	18.4	2.38	M6	LX1 FF184	0.430
—	240	18.9	2.5	U6	LX1 FF187	0.430
220	265/277	28.1	3.44	M5	LX1 FF220	0.430
230	—	28.1	3.44	P5	LX1 FF220	0.430
240	—	31.1	4.1	U5	LX1 FF240	0.430
—	380	57.2	7.05	Q6	LX1 FF316	0.430
—	440	72.6	9.21	R6	LX1 FF360	0.430
380	460/480	86.9	10.3	Q5	LX1 FF380	0.430
400	—	86.9	10.3	V5	LX1 FF380	0.430
415	—	95.1	12	N5	LX1 FF415	0.430
500	—	141	17	S5	LX1 FF500	0.430
—	660	172	20.3	Y6	LX1 FF550	0.430
660/690	—	254	28.9	Y5	LX1 FF660	0.430
—	1000	414	48.9	—	LX1 FF850	0.430
1000	—	610	68.5	—	LX1 FF1000	0.430

Specifications

Average consumption at 20 °C:

- inrush 50 Hz: 550 VA; 60 Hz: 660 VA,
- sealed 50 Hz: 45 VA; 60 Hz: 55 VA, $\cos \varphi = 0.3$.

Heat dissipation: 12...16 W.

Operating time at Uc: closing = 23...35 ms, opening = 5...15 ms.

For contactors LC1 F185 and LC1 F225

24	—	0.18	0.03	B5	LX1 FG024	0.550
42	—	0.57	0.09	—	LX1 FG042	0.550
—	48	0.47	0.08	E6	LX1 FG040	0.550
48	—	0.71	0.12	E5	LX1 FG048	0.550
—	110	2.74	0.44	F6	LX1 FG092	0.550
—	115/120	2.87	0.49	G6	LX1 FG095	0.550
110	—	4.18	0.65	F5	LX1 FG110	0.550
115	—	4.18	0.65	FE5	LX1 FG110	0.550
127/132	—	5.35	0.86	G5	LX1 FG127	0.550
—	200/208	8.8	1.41	L6	LX1 FG162	0.550
—	220	11.1	1.8	M6	LX1 FG184	0.550
—	240	11.4	1.87	U6	LX1 FG187	0.550
220	265/277	16.5	2.59	M5	LX1 FG220	0.550
230	—	16.5	2.59	P5	LX1 FG220	0.550
240	—	20.1	3.09	U5	LX1 FG240	0.550
—	380	34	5.32	Q6	LX1 FG316	0.550
—	440	43.5	6.94	R6	LX1 FG360	0.550
380	460/480	51.3	7.75	Q5	LX1 FG380	0.550
400	—	51.3	7.75	V5	LX1 FG380	0.550
415	—	62.3	9.06	N5	LX1 FG415	0.550
500	—	82.7	12.8	S5	LX1 FG500	0.550
—	660	103	15.3	Y6	LX1 FG550	0.550
660/690	—	154	21.8	Y5	LX1 FG660	0.550
—	1000	249	36.6	—	LX1 FG850	0.550
1000	—	370	51.6	—	LX1 FG1000	0.550

Specifications

Average consumption at 20 °C:

- inrush 50 Hz: 805 VA; 60 Hz: 970 VA,
- sealed 50 Hz: 55 VA; 60 Hz: 66 VA, $\cos \varphi = 0.3$.

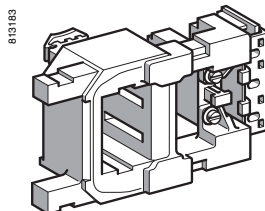
Heat dissipation: 18...24 W.

Operating time at Uc: closing = 20...35 ms, opening = 7...15 ms.

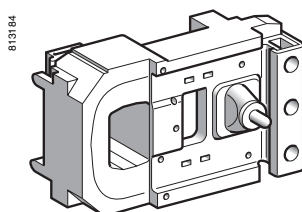
TeSys contactors

TeSys LC1 F

a.c. 40 to 400 Hz supply coils



LX1 FH●●●2



LX1 FJ●●●

References

Low sealed consumption.

Operate on networks with harmonic numbers ≤ 7 .

Operating cycles/hour ($\theta \leq 55^\circ\text{C}$): ≤ 2400 .

Control circuit voltage U_c	Average resistance at $20^\circ\text{C} \pm 10\%$		Inductance of closed circuit	Voltage code	Reference	Weight
	Inrush	Sealed				
V	Ω	Ω	H			kg
For contactors LC1 F265 and LC1 F330						
24	0.8	20	(1)	B7	LX1 FH0242	0.750
48	2.96	67	(1)	E7	LX1 FH0482	0.750
110	18.7	440	(1)	F7	LX1 FH1102	0.750
115	18.7	440	(1)	FE7	LX1 FH1102	0.750
120/127	22.9	536	(1)	G7	LX1 FH1272	0.750
200/208	58.4	1366	(1)	L7	LX1 FH2002	0.750
220	70.6	1578	(1)	M7	LX1 FH2202	0.750
230	70.6	1578	(1)	P7	LX1 FH2202	0.750
240	87.94	1968	(1)	U7	LX1 FH2402	0.750
277	113	2444	(1)	W7	LX1 FH2772	0.750
380	217	4631	(1)	Q7	LX1 FH3802	0.750
400	217	4631	(1)	V7	LX1 FH3802	0.750
415	217	4631	(1)	N7	LX1-FH3802	0.750
440	265	6731	(1)	R7	LX1 FH4402	0.750
480/500	329	8543	(1)	S7	LX1 FH5002	0.750
600/660	296	10 245	(1)	X7	LX1 FH6002	0.750
1000	696	25 880	(1)	–	LX1 FH10002	0.750

Specifications

Average consumption at 20°C for 50 or 60 Hz and $\cos \varphi = 0.9$:

- inrush: 600...700 VA,

- sealed: 8...10 VA.

Heat dissipation: 8 W.

Operating time at U_c : closing = 40...65 ms, opening = 100...170 ms.

For contactor LC1 F400

48	1.6	29.5	0.18	E7	LX1 FJ048	1.000
110/120	9.8	230	1.35	F7	LX1 FJ110	1.000
115	9.8	230	1.35	FE7	LX1 FJ110	1.000
120/127	12.8	280	1.75	G7	LX1 FJ127	1.000
200/208	30	815	4.1	L7	LX1 FJ200	1.000
220	37	1030	5.1	M7	LX1 FJ220	1.000
230	37	1030	5.1	P7	LX1 FJ220	1.000
240	47.5	1320	6.4	U7	LX1 FJ240	1.000
265/277	61	1700	8.1	W7	LX1 FJ280	1.000
380	120	3310	15.8	Q7	LX1 FJ380	1.000
400	120	3310	15.8	V7	LX1 FJ380	1.000
415	145	4070	19.4	N7	LX1 FJ415	1.000
440	145	4070	19.4	R7	LX1 FJ415	1.000
500	190	4980	25.5	S7	LX1 FJ500	1.000
550/600	243	6310	27.4	X7	LX1 FJ600	1.000
1000	720	19 420	84.6	–	LX1 FJ1000	1.000

Specifications

Average consumption at 20°C for 50 or 60 Hz and $\cos \varphi = 0.9$:

- inrush: 1000...1150 VA,

- sealed: 12...18 VA.

Heat dissipation: 14 W.

Operating time at U_c : closing = 40...75 ms, opening = 100...170 ms.

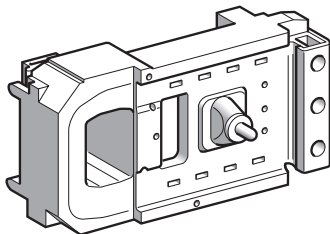
(1) Please consult your Regional Sales Office.

TeSys contactors

TeSys LC1 F

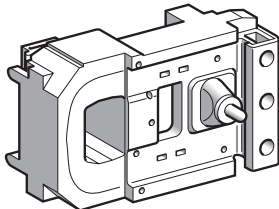
a.c. 40 to 400 Hz supply coils

813186



LX1 FK...

813187



LX1 FL...

References (continued)

Low sealed consumption.

Operate on networks with harmonic numbers ≤ 7 .

Control circuit voltage Uc	Average resistance at 20 °C $\pm$ 10 %		Inductance of closed circuit	Voltage code	Reference	Weight
	Inrush	Sealed				
V	Ω	Ω	H			kg
For contactor LC1 F500						
48	1.9	33.5	0.19	E7	LX1 FK048	1.150
110/120	9.55	260	1.25	F7	LX1 FK110	1.150
115	9.55	260	1.25	FE7	LX1 FK110	1.150
120/127	11.5	315	1.5	G7	LX1 FK127	1.150
200/208	29	735	3.75	L7	LX1 FK200	1.150
220	35.5	915	4.55	M7	LX1 FK220	1.150
230	35.5	915	4.55	P7	LX1 FK220	1.150
240	44.5	1160	5.75	U7	LX1 FK240	1.150
265/277	56.5	1490	7.3	W7	LX1 FK280	1.150
380	112	2980	14.7	Q7	LX1 FK380	1.150
400	112	2980	14.7	V7	LX1 FK380	1.150
415	143	3730	18.4	N7	LX1 FK415	1.150
440	143	3730	18.4	R7	LX1 FK415	1.150
500	172	4590	22.8	S7	LX1 FK500	1.150
550/600	232	5660	23.9	X7	LX1 FK600	1.150
1000	679	16 960	72	—	LX1 FK1000	1.150

Specifications

Average consumption at 20 °C for 50 or 60 Hz, and $\cos \varphi = 0.9$:

- inrush: 1050...1150 VA,

- sealed: 16...20 VA.

Operating cycles/hour ($\theta \leq 55$ °C): ≤ 2400 .

Heat dissipation: 18 W.

Operating time at U_c: closing = 40...75 ms, opening = 100...170 ms.

For contactor LC1 F630

48	1.1	17.1	0.09	E7	LX1 FL048	1.500
110/120	6.45	165	1.85	F7	LX1 FL110	1.500
115	6.45	165	1.85	FE7	LX1 FL110	1.500
127	8.1	205	1.05	G7	LX1 FL127	1.500
200/208	20.5	605	2.65	L7	LX1 FL200	1.500
220	25.5	730	3.35	M7	LX1 FL220	1.500
230	25.5	730	3.35	P7	LX1 FL220	1.500
240	25.5	730	3.35	U7	LX1 FL220	1.500
265/277	31	900	4.1	W7	LX1 FL260	1.500
380	78	2360	10.5	Q7	LX1 FL380	1.500
400	78	2360	10.5	V7	LX1 FL380	1.500
415	96	2960	13	N7	LX1 FL415	1.500
440	96	2960	13	R7	LX1 FL415	1.500
500	120	3660	16.5	S7	LX1 FL500	1.500
550/600	155	4560	19.5	X7	LX1 FL600	1.500
1000	474	12 880	56.2	—	LX1 FL1000	1.500

Specifications

Average consumption at 20 °C for 50 or 60 Hz, $\cos \varphi = 0.9$:

- inrush: 1500...1730 VA,

- sealed: 20...25 VA.

Operating cycles/hour ($\theta \leq 55$ °C): 1200.

Heat dissipation: 20 W.

Operating time at U_c: closing = 40...80 ms, opening = 100...200 ms.

TeSys contactors

TeSys LC1 F

a.c. 40 to 400 Hz supply coils

References (continued)

Low sealed consumption.

Operate on networks with harmonic numbers ≤ 7 .

Control circuit voltage Uc	Average resistance at 20 °C $\pm$ 10 %		Inductance of closed circuit	Voltage code	Reference	Weight
	Inrush	Sealed				
V	Ω	Ω	H			kg
For contactor LC1 F780						
110/120	4.95 (2)	230 (2)	0.21	F7	LX1 FX110 (1)	3.000
115	4.95 (2)	230 (2)	0.21	FE7	LX1 FX110 (1)	3.000
127	6.1 (2)	280 (2)	0.26	G7	LX1 FX127 (1)	3.000
200/208	15.5 (2)	750 (2)	0.66	L7	LX1 FX200 (1)	3.000
220	19.5 (2)	920 (2)	0.82	M7	LX1 FX220 (1)	3.000
230	19.5 (2)	920 (2)	0.82	P7	LX1 FX220 (1)	3.000
240	19.5 (2)	920 (2)	0.82	U7	LX1 FX220 (1)	3.000
265/277	29.8 (2)	1330 (2)	1.25	W7	LX1 FX280 (1)	3.000
380	60.9 (2)	2780 (2)	2.3	Q7	LX1 FX380 (1)	3.000
400	60.9 (2)	2780 (2)	2.3	V7	LX1 FX380 (1)	3.000
415/480	74.3 (2)	3340 (2)	2.8	N7	LX1 FX415 (1)	3.000
440	74.3 (2)	3340 (2)	2.8	R7	LX1 FX415 (1)	3.000
500	92 (2)	4180 (2)	3.5	S7	LX1 FX500 (1)	3.000

Specifications

Average consumption at 20 °C for 50 or 60 Hz, $\cos \varphi = 0.9$:

- inrush: 1900...2300 VA,

- sealed: 44...55 VA.

Operating cycles/hour ($\theta \leq 55$ °C): 600.

Heat dissipation: 2 x 22 W.

Operating time at Uc: closing = 40...80 ms, opening = 130...230 ms.

For contactor LC1 F800

Control circuit voltage Uc	Voltage code	Rectifier Reference (3)	Coil Reference	Weight
V				kg
110/127	FE7	DR5 TE4U	LX4 F8FW	1.650
220/240	P7	DR5 TE4U	LX4 F8MW	1.650
380/440	V7	DR5 TE4S	LX4 F8QW	1.650

Specifications

Operating cycles/hour ($\theta \leq 55$ °C): 600.Average consumption at 20 °C for 50 or 60 Hz, $\cos \varphi = 0.8$:

- inrush: 1700 VA,

- sealed: 12 VA.

Operating time at Uc: closing = 60...80 ms, opening = 160...180 ms.

(1) Reference of set of 2 identical coils, to be connected in series.

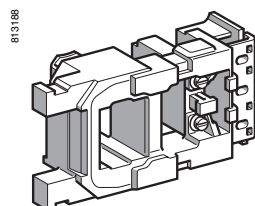
(2) Value for the 2 coils in series.

(3) Rectifier to be ordered separately: 0.100 kg.

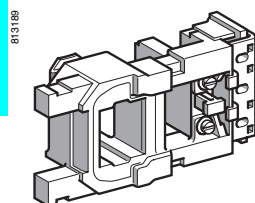
TeSys contactors

TeSys LC1 F

a.c. 40 to 400 Hz supply coils
for specific applications ⁽¹⁾



LX9 FF●●●



LX9 FG●●●

References

Low sealed consumption.

High tolerance to inrush voltage drops.

Immune to micro-breaks (mains supply or contact chain).

Operate on networks with harmonic numbers ≤ 7 .

Control circuit voltage Uc	Average resistance at 20 °C $\pm$ 10 %		Inductance of closed circuit	Voltage code	Reference	Weight
V	Ω	Ω	H			kg
For contactors LC1 F115 and LC1 F150						
48	3.03	80.2	0.3	E7	LX9 FF048	0.430
110	14.8	579	2.08	F7	LX9 FF110	0.430
115	14.8	579	2.08	FE7	LX9 FF110	0.430
120/127	19	746	2.65	G7	LX9 FF127	0.430
208	45	1788	5.95	L7	LX9 FF200	0.430
220	59.4	2190	7.7	M7	LX9 FF220	0.430
230	59.4	2190	7.7	P7	LX9 FF220	0.430
240	73.5	2750	9.68	U7	LX9 FF240	0.430
380	173	6540	23	Q7	LX9 FF380	0.430
400	173	6540	23	V7	LX9 FF380	0.430
415	218	8460	30	N7	LX9 FF415	0.430
440	218	8460	30	R7	LX9 FF415	0.430
500	262	10 300	36	S7	LX9 FF500	0.430

Specifications

Average consumption at 20 °C: inrush: 690...855 VA, sealed: 6.6...8.1 VA.

Heat dissipation: 5.9...7.2 W.

Operating cycles/hour ($\theta \leq 55$ °C): < 2400.

Operating time at Uc: closing = 35 ms, opening = 130 ms.

For contactors LC1 F185 and LC1 F225						
48	2.2	60	0.23	E7	LX9 FG048	0.550
110	10.4	411	1.46	F7	LX9 FG110	0.550
115	10.4	411	1.46	FE7	LX9 FG110	0.550
120/127	13	520	1.85	G7	LX9 FG127	0.550
208	33	1339	4.9	L7	LX9 FG200	0.550
220	42.1	1680	5.84	M7	LX9 FG220	0.550
230	42.1	1680	5.84	P7	LX9 FG220	0.550
240	50.6	2060	7.22	U7	LX9 FG240	0.550
380	128	4730	16.4	Q7	LX9 FG380	0.550
400	128	4730	16.4	V7	LX9 FG380	0.550
415	157	5930	20.6	N7	LX9 FG415	0.550
440	157	5930	20.6	R7	LX9 FG415	0.550
500	194	7550	26.3	S7	LX9 FG500	0.550

Specifications

Average consumption at 20 °C: inrush: 950...1180 VA, sealed: 8.9...10.9 VA.

Heat dissipation: 8...9.8 W.

Operating cycles/hour ($\theta \leq 55$ °C): < 2400.

Operating time at Uc: closing = 35 ms, opening = 130 ms.

For contactors LC1 F265 and LC1 F330						
48	2.96	72	(2)	–	LX9 FH0482	0.750
110/115	18.7	415	(2)	–	LX9 FH1102	0.750
120/127	22.9	156	(2)	–	LX9 FH1272	0.750
220/230	71.6	1621	(2)	–	LX9 FH2202	0.750
240	88	1968	(2)	–	LX9 FH2402	0.750
380/415	222	5075	(2)	–	LX9 FH3802	0.750
500	345	7990	(2)	–	LX9 FH5002	0.750

Specifications

Average consumption at 20 °C: inrush: 560...660 VA, sealed: 8...10 VA.

Heat dissipation: 8.4...10.4 W.

Operating cycles/hour ($\theta \leq 55$ °C): < 3600.

Operating time at Uc: closing = 45 ms, opening = 25 ms.

(1) Application examples: hoisting (inching, high operating rates), Main-Standby (unstable mains supplies). These coils are particularly suited for use at higher operating temperatures (mounting in non-ventilated compartments, enclosures, etc.).

(2) Please consult your Regional Sales Office.

TeSys contactors

TeSys LC1 F
a.c. 40 to 400 Hz supply coils
for specific applications

References (continued)

Coils with short operating times (at U_c) :

- closing: 60 ms,
- opening: 50 ms (✓ side); 20 ms (--- side).

Coils for high operating rates ($\theta \leq 70$ °C):

- 3600 operating cycles/hour,
- 1800 for LC1 F630.

Coils with low inrush consumption.

Control circuit voltage U_c	Average resistance at 20 °C $\pm$ 10 %		Inductance of closed circuit	Rectifier Reference (1)	Coil Reference	Weight
	Inrush	Sealed				
V	Ω	Ω	H			kg
For contactor LC1 F400						
48	4.03	43	0.22	DR5 TF4V	LX9 FJ917	0.970
110	25.7	246	1.3	DR5 TE4U	LX9 FJ925	0.970
127	32.3	302	1.7	DR5 TE4U	LX9 FJ926	0.970
220/230	99.5	919	5	DR5 TE4U	LX9 FJ931	0.970
380/415	311	3011	15	DR5 TE4S	LX9 FJ936	0.970
440	386	3690	19	DR5 TE4S	LX9 FJ937	0.970
500	478	4380	23	DR5 TE4S	LX9 FJ938	0.970

Specifications

Average consumption:

- inrush: 500 VA,
- sealed: 23 VA.

Heat dissipation: 11.4...13.9 W.

For contactor LC1 F500

48	3.73	30.7	0.18	DR5 TF4V	LX9 FK917	1.080
110	24	204	1.1	DR5 TE4U	LX9 FK925	1.080
127	29.8	250	1.4	DR5 TE4U	LX9 FK926	1.080
220/230	89.9	770	4	DR5 TE4U	LX9 FK931	1.080
380/415	274	2075	12	DR5 TE4S	LX9 FK936	1.080
440	361	3060	16	DR5 TE4S	LX9 FK937	1.080
500	448	3750	19	DR5 TE4S	LX9 FK938	1.080

Specifications

Average consumption:

- inrush: 550 VA,
- sealed: 31 VA.

Heat dissipation: 15...18.3 W.

For contactor LC1 F630

48	2.81	20.8	0.17	DR5 TF4V	LX9 FL917	1.450
110	13.5	114	0.77	DR5 TE4U	LX9 FL924	1.450
127	20.8	167	1.2	DR5 TE4U	LX9 FL926	1.450
220	52	425	2.9	DR5 TE4U	LX9 FL930	1.450
220/240	64.5	518	3.6	DR5 TE4U	LX9 FL931	1.450
380/400	163	1360	8.8	DR5 TE4S	LX9 FL935	1.450
415/440	204	1670	11	DR5 TE4S	LX9 FL936	1.450
500	312	2510	17	DR5 TE4S	LX9 FL938	1.450

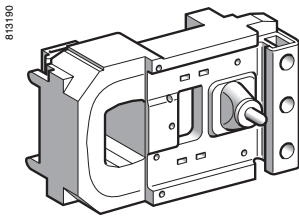
Specifications

Average consumption:

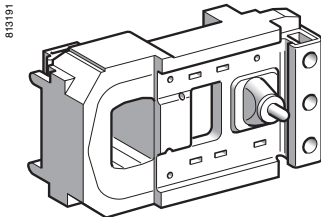
- inrush: 830 VA,
- sealed: 47 VA.

Heat dissipation: 22.8...27.8 W.

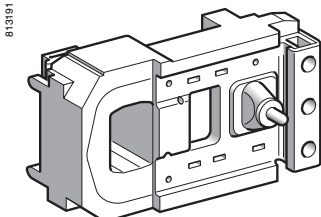
(1) Rectifier to be ordered separately, weight of rectifier: 0.100 kg.



LX9 FJ●●●



LX9 FK●●●

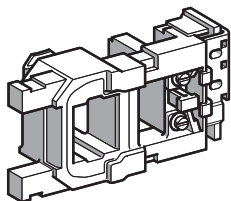


LX9 FL●●●

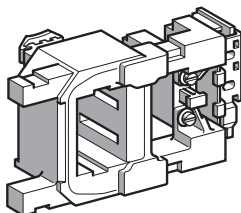
TeSys contactors

TeSys LC1 F

d.c. supply coils



LX4 FF●●●



LX4 FH●●●

References

Low sealed consumption.

Operating cycles/hour ($\theta \leq 55^\circ\text{C}$): ≤ 2400 .

Control circuit voltage Uc	Average resistance at $20^\circ\text{C} \pm 10\%$		Inductance of closed circuit	Voltage code	Reference	Weight
	Inrush	Sealed				
V	Ω	Ω	H			kg
For contactors LC1 F115 and LC1 F150						
24	1.12	177	11	BD	LX4 FF024	0.430
48	4.52	715	42.7	ED	LX4 FF048	0.430
110	21.7	2940	179	FD	LX4 FF110	0.430
125	26.8	3560	223	GD	LX4 FF125	0.430
220/230	84	11 100	704	MD	LX4 FF220	0.430
250	105	13 000	868	UD	LX4 FF250	0.430
440/460	301	48 200	4000	RD	LX4 FF440	0.430

Specifications

Average consumption:

- inrush: 543...665 W,

- sealed: 3.94...4.83 W.

Operating time at U_c: closing = 30...40 ms, opening = 30...50 ms.

For contactors LC1 F185 and LC1 F225

24	0.79	169	14.9	BD	LX4 FG024	0.550
48	3.2	662	55.3	ED	LX4 FG048	0.550
110	14.9	2810	241	FD	LX4 FG110	0.550
125	19	3320	289	GD	LX4 FG125	0.550
220/230	57.7	10 200	890	MD	LX4 FG220	0.550
250	76	12 400	1140	UD	LX4 FG250	0.550
440/460	223	39 700	4210	RD	LX4 FG440	0.550

Specifications

Average consumption:

- inrush: 737...902 W,

- sealed: 4.13...5.07 W.

Operating time at U_c: closing = 30...40 ms, opening = 30...50 ms.

For contactors LC1 F265 and LC1 F330

24	0.9	192	26.3	BD	LX4 FH024	0.740
48	3.49	707	92.9	ED	LX4 FH048	0.740
110	16.8	3180	424	FD	LX4 FH110	0.740
125	20.8	3840	530	GD	LX4 FH125	0.740
220/230	65.7	11 500	1590	MD	LX4 FH220	0.740
250	84	13 900	1910	UD	LX4 FH250	0.740
440/460	255	44 000	7570	RD	LX4 FH440	0.740

Specifications

Average consumption:

- inrush: 655...803 W,

- sealed: 3.68...4.53 W.

Operating time at U_c: closing = 40...50 ms, opening = 40...65 ms.

For contactor LC1 F400

48	2.5	558	56	ED	LX4 FJ048	0.970
110	12.7	2660	270	FD	LX4 FJ110	0.970
125	15.8	3130	330	GD	LX4 FJ125	0.970
220	47	8820	910	MD	LX4 FJ220	0.970
250	61	10 500	1200	UD	LX4 FJ250	0.970
440	236	33 750	4435	RD	LX4 FJ440	0.970

Specifications

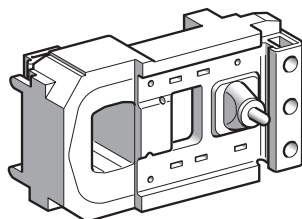
Average consumption:

- inrush: 920...1140 W,

- sealed: 4...7.5 W.

Operating time at U_c: closing = 50...60 ms, opening = 45...60 ms.

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LX4 FK●●●

References (continued)

Low sealed consumption.

Control circuit voltage Uc	Average resistance at 20 °C ± 10 %		Inductance of closed circuit	Voltage code	Reference	Weight
	Inrush	Sealed				
V	Ω	Ω	H			kg
For contactor LC1 F500						
48	2.35	515	67	ED	LX4 FK048	1.080
110	11.5	2450	280	FD	LX4 FK110	1.080
125	15	2930	400	GD	LX4 FK125	1.080
220	44	8150	1080	MD	LX4 FK220	1.080
250	56	9650	1350	UD	LX4 FK250	1.080
440	225	31 300	5270	RD	LX4 FK440	1.080

Specifications

Average consumption:

- inrush: 990...1220 W,

- sealed: 4.54...8 W,

Operating cycles/hour ($\theta \leq 55$ °C): 2400.

Operating time at Uc: closing = 50...60 ms, opening = 45...60 ms.

For contactor LC1 F630

48	1.7	353	40.5	ED	LX4 FL048	1.450
110	8.1	1680	180	FD	LX4 FL110	1.450
125	10	2110	230	GD	LX4 FL125	1.450
220	31	5160	650	MD	LX4 FL220	1.450
250	38	6080	815	UD	LX4 FL250	1.450
440	152	23 120	2910	RD	LX4 FL440	1.450

Specifications

Average consumption:

- inrush: 1420...1920 W,

- sealed: 6.5...12.5 W.

Operating cycles/hour ($\theta \leq 55$ °C): 1200.

Operating time at Uc: closing = 60...70 ms, opening = 40...50 ms.

For contactor LC1 F780

110	6.1 (2)	280 (2)	0.26	FD	LX4 FX110 (1)	3.000
125	7.7 (2)	410 (2)	0.33	GD	LX4 FX125 (1)	3.000
220	24.6 (2)	1100 (2)	1	MD	LX4 FX220 (1)	3.000
250	29.8 (2)	1330 (2)	1.25	UD	LX4 FX250 (1)	3.000
440	92 (2)	4180 (2)	3.5	RD	LX4 FX440 (1)	3.000

Specifications

Average consumption:

- inrush: 1960...2420 W,

- sealed: 42...52 W.

Operating cycles/hour ($\theta \leq 55$ °C): 600.

Operating time at Uc: closing = 70...80 ms, opening = 100...130 ms.

For contactor LC1 F800

110/120	—	—	—	FW	LX4 F8FW	1.650
220/240	—	—	—	MW	LX4 F8MW	1.650
380/400	—	—	—	QW	LX4 F8QW	1.650

Specifications

Heat dissipation: 25 W.

Operating time at Uc: closing = 60...80 ms, opening = 40...50 ms.

(1) Reference of set of 2 identical coils, to be connected in series.

(2) Value for the 2 coils in series.

TeSys contactors

TeSys LC1 F

d.c. supply coils

for specific applications

References

Coils with short operating times (at U_c):

- closing: 60 ms,
- opening: 20 ms.

Coils for high operating rates ($\theta \leq 70^\circ\text{C}$):

- 3600 operating cycles/hour,
- 1800 for LC1 F630.

Coils with low inrush consumption.

Control circuit voltage U_c	Average resistance at $20^\circ\text{C} \pm 10\%$		Induc- tance of closed circuit	Qty required	Resistor ⁽¹⁾		Coil		Weight
	Inrush	Sealed			Reference		Reference		
V	Ω	Ω	H						kg
For contactor LC1 F400									
48	5.11	99	0.27	1	DR2 SC0047		LX9 FJ918		0.970
110	32.3	632	1.7	1	DR2 SC0330		LX9 FJ926		0.970
125	39.4	760	2	1	DR2 SC0390		LX9 FJ927		0.970
220	123	2320	6.1	1	DR2 SC1200		LX9 FJ932		0.970
440/460	478	9080	23	1	DR2 SC4700		LX9 FJ938		0.970

Specifications

Average consumption:

- inrush: 430 W,
- sealed: 22 W.

For contactor LC1 F500

48	4.67	76.7	0.22	1	DR2 SC0039		LX9 FK918		1.080
110	29.8	470	1.4	1	DR2 SC0220		LX9 FK926		1.080
125	37.4	637	1.7	1	DR2 SC0330		LX9 FK927		1.080
220	115	1935	5.1	1	DR2 SC1000		LX9 FK932		1.080
440/460	448	7050	19	1	DR2 SC3300		LX9 FK938		1.080

Specifications

Average consumption:

- inrush: 470 W,
- sealed: 29 W.

For contactor LC1 F630

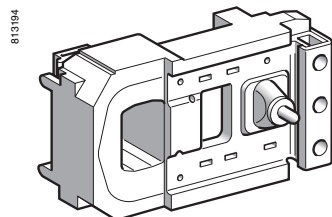
48	3.43	52.9	0.20	2	DR2 SC0047		LX9 FL918		1.450
110	17.2	272	0.98	2	DR2 SC0270		LX9 FL925		1.450
125	20.8	333	1.2	2	DR2 SC0330		LX9 FL926		1.450
220	64.5	1018	3.6	2	DR2 SC1000		LX9 FL931		1.450
440/460	260	4010	14	2	DR2 SC3900		LX9 FL937		1.450

Specifications

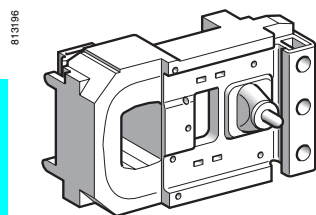
Average consumption:

- inrush: 733 W,
- sealed: 48 W.

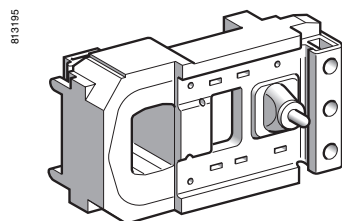
(1) Resistor to be ordered separately, weight of resistor: 0.030 kg.



LX9 FJ●●●



LX9 FK●●●



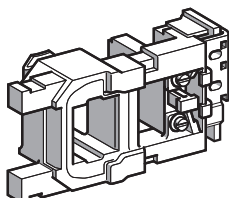
LX9 FL●●●

TeSys contactors

TeSys LC1 F

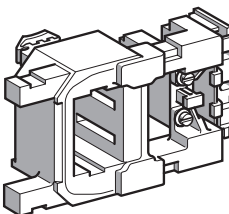
Wide range d.c. supply coils
for specific applications

813198



LX4 FF●●●

813197



LX4 FH●●●

References (continued)

Wide range coils: 0.7...1.25 Uc.

Operating cycles/hour: ≤ 60 (1).

Ambient temperature (operation): - 55 to + 70 °C.

Control circuit voltage Uc	Average resistance at 20 °C ± 10 %		Inductance of closed circuit	Reference	Weight
	Inrush	Sealed			
V	Ω	Ω	H		kg
For contactors LC1 F115 and LC1 F150					
24	0.71	120	7.4	LX4 FF020	0.430
48	2.86	392	27	LX4 FF040	0.430
72	7.05	1055	66	LX4 FF060	0.430
110	13.2	1970	121	LX4 FF090	0.430
125	16.9	2340	149	LX4 FF100	0.430

Specifications

Average consumption:

- inrush: 415...1300 W,
- sealed: 3...9 W.

For contactors LC1 F185 and LC1 F225

24	0.52	112	9.3	LX4 FG020	0.550
48	2	359	34.4	LX4 FG040	0.550
72	5.07	984	85	LX4 FG060	0.550
110	9.66	1840	157	LX4 FG090	0.550
125	12	2230	196	LX4 FG100	0.550

Specifications

Average consumption:

- inrush: 580...1820 W,
- sealed: 3.1...9.5 W.

For contactors LC1 F265 and LC1 F330

24	0.58	129	17.3	LX4 FH020	0.740
48	2.19	400	59.5	LX4 FH040	0.740
72	5.58	1110	149	LX4 FH060	0.740
110	11	2120	287	LX4 FH090	0.740
125	13.8	2520	353	LX4 FH100	0.740

Specifications

Average consumption:

- inrush: 515...1600 W,
- sealed: 2.7...8.5 W.

Opera- tional voltage	Average resistance at 20 °C ± 10 %	Induc- tance of closed circuit	Coil		Reduction of consumption Resistors in parallel		Reference of the assembly (2)	Weight
			Reference	No.	Ω	Reference		
V	Ω	H						kg
For contactor LC1 F400								
24	1.05	0.049	LX2 FJW11	3	56	DR2 SC0056	LX5 FJW11	0.970
48	4.8	0.22	LX2 FJW18	3	220	DR2 SC0220	LX5 FJW18	0.970
72	9.6	0.44	LX2 FJW21	3	470	DR2 SC0470	LX5 FJW21	0.970

Specifications

Average consumption:

- inrush: 290...860 W,
- sealed: 16...47 W.

(1) The mechanical durability of the contactor is limited to 1 million operating cycles.

(2) The set comprises: 1 coil **LX2 FJ** and 3 resistors **DR2 SC**.