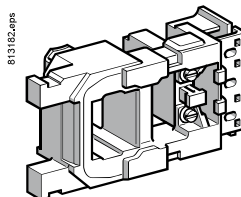


LX1 FF...



LX1 FG...

References

Maximum ambient air temperature: 55 °C. Above this, use an LX9 F coil, see page B9/22.

Control circuit voltage		Average resistance at 20 °C ±10 %	Inductance of closed circuit	Voltage code	Reference
Uc - 50 Hz	Uc - 60 Hz				
V	V	Ω	H		
For contactors LC1 F115 and LC1 F150					
24	—	0.27	0.04	B5	LX1FF024
42	—	0.94	0.13	D5	LX1FF042
—	48	0.78	0.11	E6	LX1FF040
48	—	1.17	0.16	E5	LX1FF048
—	110	4.55	0.59	F6	LX1FF092
—	120	4.77	0.64	G6	LX1FF095
110	—	6.38	0.86	F5	LX1FF110
115	—	6.38	0.86	FE5	LX1FF110
127/132	—	9.14	1.15	G5	LX1FF127
—	200/208	14.5	1.87	L6	LX1FF162
—	220	18.4	2.38	M6	LX1FF184
—	240	18.9	2.5	U6	LX1FF187
220	265/277	28.1	3.44	M5	LX1FF220
230	—	28.1	3.44	P5	LX1FF220
240	—	31.1	4.1	U5	LX1FF240
—	380	57.2	7.05	Q6	LX1FF316
—	440	72.6	9.21	R6	LX1FF360
380	460/480	86.9	10.3	Q5	LX1FF380
400	—	86.9	10.3	V5	LX1FF380
415	—	95.1	12	N5	LX1FF415
500	—	141	17	S5	LX1FF500
—	660	172	20.3	Y6	LX1FF550
660/690	—	254	28.9	Y5	LX1FF660
—	1000	414	48.9	—	LX1FF850
1000	—	610	68.5	—	LX1FF1000

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.

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

For contactors LC1 F185 and LC1 F225					
24	—	0.18	0.03	B5	LX1FG024
42	—	0.57	0.09	—	LX1FG042
—	48	0.47	0.08	E6	LX1FG040
48	—	0.71	0.12	E5	LX1FG048
—	110	2.74	0.44	F6	LX1FG092
—	115/120	2.87	0.49	G6	LX1FG095
110	—	4.18	0.65	F5	LX1FG110
115	—	4.18	0.65	FE5	LX1FG110
127/132	—	5.35	0.86	G5	LX1FG127
—	200/208	8.8	1.41	L6	LX1FG162
—	220	11.1	1.8	M6	LX1FG184
—	240	11.4	1.87	U6	LX1FG187
220	265/277	16.5	2.59	M5	LX1FG220
230	—	16.5	2.59	P5	LX1FG220
240	—	20.1	3.09	U5	LX1FG240
—	380	34	5.32	Q6	LX1FG316
—	440	43.5	6.94	R6	LX1FG360
380	460/480	51.3	7.75	Q5	LX1FG380
400	—	51.3	7.75	V5	LX1FG380
415	—	62.3	9.06	N5	LX1FG415
500	—	82.7	12.8	S5	LX1FG500
—	660	103	15.3	Y6	LX1FG550
660/690	—	154	21.8	Y5	LX1FG660
—	1000	249	36.6	—	LX1FG850
1000	—	370	51.6	—	LX1FG1000

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.

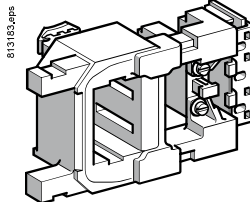
Operating time at Uc: closing = 20...35 ms.

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

References

Low sealed consumption.

Operate on networks with harmonic numbers ≤ 7 .



LX1 FH●●●2

Control circuit voltage Uc	Average resistance at 20 °C $\pm 10\%$		Inductance of closed circuit	Voltage code	Reference
	Inrush	Sealed			
V	Ω	Ω	H		
For contactors LC1 F265 and LC1 F330					
24	0.8	20	(1)	B7	LX1FH0242
48	2.96	67	(1)	E7	LX1FH0482
110	18.7	440	(1)	F7	LX1FH1102
115	18.7	440	(1)	FE7	LX1FH1102
120/127	22.9	536	(1)	G7	LX1FH1272
200/208	58.4	1366	(1)	L7	LX1FH2002
220	70.6	1578	(1)	M7	LX1FH2202
230	70.6	1578	(1)	P7	LX1FH2202
240	87.94	1968	(1)	U7	LX1FH2402
277	113	2444	(1)	W7	LX1FH2772
380	217	4631	(1)	Q7	LX1FH3802
400	217	4631	(1)	V7	LX1FH3802
415	217	4631	(1)	N7	LX1FH3802
440	265	6731	(1)	R7	LX1FH4402
480/500	329	8543	(1)	S7	LX1FH5002
600/660	296	10245	(1)	X7	LX1FH6002
1000	696	25880	(1)	—	LX1FH10002

Specifications

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

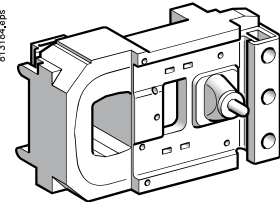
■ inrush: 600...700 VA

■ sealed: 8...10 VA.

Heat dissipation: 8 W.

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

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



LX1 FJ●●●

For contactor LC1 F400					
48	1.6	29.5	0.18	E7	LX1FJ048
110/120	9.8	230	1.35	F7	LX1FJ110
115	9.8	230	1.35	FE7	LX1FJ110
120/127	12.8	280	1.75	G7	LX1FJ127
200/208	30	815	4.1	L7	LX1FJ200
220	37	1030	5.1	M7	LX1FJ220
230	37	1030	5.1	P7	LX1FJ220
240	47.5	1320	6.4	U7	LX1FJ240
265/277	61	1700	8.1	W7	LX1FJ280
380	120	3310	15.8	Q7	LX1FJ380
400	120	3310	15.8	V7	LX1FJ380
415	145	4070	19.4	N7	LX1FJ415
440	145	4070	19.4	R7	LX1FJ415
500	190	4980	25.5	S7	LX1FJ500
550/600	243	6310	27.4	X7	LX1FJ600
1000	720	19420	84.6	—	LX1FJ1000

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.

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

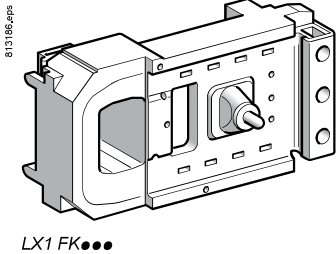
(1) Please consult your Regional Sales Office.

TeSys contactors

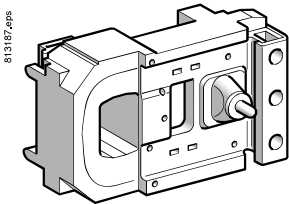
TeSys F contactors

a.c. 40 to 400 Hz supply coils

TeSys F



LX1 FK...



LX1 FL...

References

Low sealed consumption.
Operate on networks with harmonic numbers ≤ 7.

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	1.9	33.5	0.19	E7	LX1FK048	1.150
110/120	9.55	260	1.25	F7	LX1FK110	1.150
115	9.55	260	1.25	FE7	LX1FK110	1.150
120/127	11.5	315	1.5	G7	LX1FK127	1.150
200/208	29	735	3.75	L7	LX1FK200	1.150
220	35.5	915	4.55	M7	LX1FK220	1.150
230	35.5	915	4.55	P7	LX1FK220	1.150
240	44.5	1160	5.75	U7	LX1FK240	1.150
265/277	56.5	1490	7.3	W7	LX1FK280	1.150
380	112	2980	14.7	Q7	LX1FK380	1.150
400	112	2980	14.7	V7	LX1FK380	1.150
415	143	3730	18.4	N7	LX1FK415	1.150
440	143	3730	18.4	R7	LX1FK415	1.150
500	172	4590	22.8	S7	LX1FK500	1.150
550/600	232	5660	23.9	X7	LX1FK600	1.150
1000	679	16960	72	—	LX1FK1000	1.150

Specifications

Average consumption at 20 °C for 50 or 60 Hz, cos φ = 0.9:
■ inrush: 1050...1150 VA,
■ sealed: 16...20 VA.
Operating cycles/hour (θ ≤ 55 °C): ≤ 2400.
Heat dissipation: 18 W.
Operating time at Uc: closing = 40...75 ms, opening = 100...170 ms.

For contactor LC1 F630 and LC1 F1250						
48	1.1	17.1	0.09	E7	LX1FL048 ⁽¹⁾	1.500
110/120	6.45	165	1.85	F7	LX1FL110	1.500
115	6.45	165	1.85	FE7	LX1FL110	1.500
127	8.1	205	1.05	G7	LX1FL127	1.500
200/208	20.5	605	2.65	L7	LX1FL200	1.500
220	25.5	730	3.35	M7	LX1FL220	1.500
230	25.5	730	3.35	P7	LX1FL220	1.500
240	25.5	730	3.35	U7	LX1FL220	1.500
265/277	31	900	4.1	W7	LX1FL260	1.500
380	78	2360	10.5	Q7	LX1FL380	1.500
400	78	2360	10.5	V7	LX1FL380	1.500
415	96	2960	13	N7	LX1FL415	1.500
440	96	2960	13	R7	LX1FL415	1.500
500	120	3660	16.5	S7	LX1FL500	1.500
550/600	155	4560	19.5	X7	LX1FL600	1.500
1000	474	12880	56.2	—	LX1FL1000 ⁽¹⁾	1.500

⁽¹⁾ Incompatible with LC1F1250.

Specifications

Average consumption at 20 °C for 50 or 60 Hz, cos φ = 0.9:
■ inrush: 1500...1730 VA,
■ sealed: 20...25 VA.
Operating cycles/hour (θ ≤ 55 °C): 1200.
Heat dissipation: 20 W.
Operating time at Uc: closing = 40...80 ms, opening = 100...200 ms.

TeSys F

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 U_c : closing = 40...80 ms,
 opening = 130...230 ms.



LX1 FX...

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 U_c : closing = 60...80 ms,
 opening = 160...180 ms.

Specifications

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

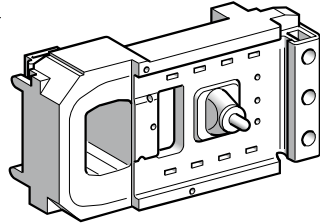
■ inrush: 1600...2400 VA, sealed: 29...37 VA.

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

Heat dissipation: 2 x 18 W.

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

813196.eps



LX1 FK...

Specifications

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

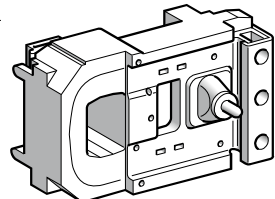
■ inrush: 2200...2700 VA, sealed: 37.4...50.6 VA.

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

Heat dissipation: 2 x 25 W.

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

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LX1 FL...

(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.

(4) Order 2 coils and connect them in series.

References

Low sealed consumption.

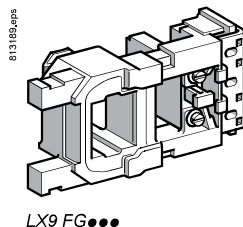
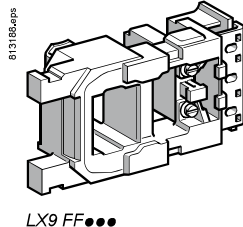
Operate on networks with harmonic numbers ≤ 7 .

Control circuit voltage U_c	Average resistance at 20 °C ± 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	LX1FX110 ⁽¹⁾	3.000
115	4.95 ⁽²⁾	230 ⁽²⁾	0.21	FE7	LX1FX110 ⁽¹⁾	3.000
127	6.1 ⁽²⁾	280 ⁽²⁾	0.26	G7	LX1FX127 ⁽¹⁾	3.000
200/208	15.5 ⁽²⁾	750 ⁽²⁾	0.66	L7	LX1FX200 ⁽¹⁾	3.000
220	19.5 ⁽²⁾	920 ⁽²⁾	0.82	M7	LX1FX220 ⁽¹⁾	3.000
230	19.5 ⁽²⁾	920 ⁽²⁾	0.82	P7	LX1FX220 ⁽¹⁾	3.000
240	19.5 ⁽²⁾	920 ⁽²⁾	0.82	U7	LX1FX220 ⁽¹⁾	3.000
265/277	29.8 ⁽²⁾	1330 ⁽²⁾	1.25	W7	LX1FX280 ⁽¹⁾	3.000
380	60.9 ⁽²⁾	2780 ⁽²⁾	2.3	Q7	LX1FX380 ⁽¹⁾	3.000
400	60.9 ⁽²⁾	2780 ⁽²⁾	2.3	V7	LX1FX380 ⁽¹⁾	3.000
415/480	74.3 ⁽²⁾	3340 ⁽²⁾	2.8	N7	LX1FX415 ⁽¹⁾	3.000
440	74.3 ⁽²⁾	3340 ⁽²⁾	2.8	R7	LX1FX415 ⁽¹⁾	3.000
500	92 ⁽²⁾	4180 ⁽²⁾	3.5	S7	LX1FX500 ⁽¹⁾	3.000

Control circuit voltage U_c	Voltage code	Rectifier Reference ⁽³⁾	Coil Reference	Weight
V				kg
For contactor LC1 F800				
110/127	FE7	DR5TE4U	LX4F8FW	1.650
220/240	P7	DR5TE4U	LX4F8MW	1.650
380/440	V7	DR5TE4S	LX4F8QW	1.650

Control circuit voltage U_c	Average resistance at 20 °C ± 10 %		Inductance of closed circuit	Voltage code	Reference	Weight
	Inrush	Sealed				
V	Ω	Ω	H			kg
For contactor LC1 F1000						
110	4.718	98.4	0.63	F7	LX1FK055 ⁽⁴⁾	1.150
120	5.92	106	0.72	G7	LX1FK065 ⁽⁴⁾	1.150
For contactors LC1 F1400, LC1 F1700 and LC1 F2100						
110	5.92	106	0.72	F7	LX1FK065 ⁽⁴⁾	1.150
120	5.92	106	0.72	G7	LX1FK070 ⁽⁴⁾	1.150
For contactors LC1 F1000, LC1 F1400, LC1 F1700 and LC1 F2100						
220	9.55	260	1.25	M7	LX1FK110 ⁽⁴⁾	1.150
230	9.55	260	1.25	P7	LX1FK110 ⁽⁴⁾	1.150
240	11.5	315	1.50	U7	LX1FK127 ⁽⁴⁾	1.150
277	16.5	420	2.25	W7	LX1FK140 ⁽⁴⁾	1.150
380	29	735	3.75	Q7	LX1FK200 ⁽⁴⁾	1.150
400	29	735	3.75	V7	LX1FK200 ⁽⁴⁾	1.150
415	35.5	915	4.55	N7	LX1FK220 ⁽⁴⁾	1.150
440	35.5	915	4.55	R7	LX1FK220 ⁽⁴⁾	1.150
500	44.5	1160	5.75	S7	LX1FK240 ⁽⁴⁾	1.150

Control circuit voltage U_c	Average resistance at 20 °C ± 10 %		Inductance of closed circuit	Voltage code	Reference	Weight
	Inrush	Sealed				
V	Ω	Ω	H			kg
For contactors LC1 F2600						
110	2.05	41	0.18	F7	LX1FL065 ⁽⁴⁾	1.150
120	2.05	41	0.18	G7	LX1FL065 ⁽⁴⁾	1.150
220	6.45	165	0.76	M7	LX1FL110 ⁽⁴⁾	1.150
230	6.45	165	0.76	P7	LX1FL110 ⁽⁴⁾	1.150
240	8.1	205	1.05	U7	LX1FL127 ⁽⁴⁾	1.150
277	10.2	317	1.45	W7	LX1FL140 ⁽⁴⁾	1.150
380	20.5	605	2.65	Q7	LX1FL200 ⁽⁴⁾	1.150
400	20.5	605	2.65	V7	LX1FL200 ⁽⁴⁾	1.150
415	25.5	730	3.35	N7	LX1FL220 ⁽⁴⁾	1.150
440	25.5	730	3.35	R7	LX1FL220 ⁽⁴⁾	1.150
500	30.8	901	4.13	S7	LX1FL260 ⁽⁴⁾	1.150



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 ± 10 %		Inductance of closed circuit	Voltage code	Reference
	Inrush	Sealed			
V	Ω	Ω	H		
For contactors LC1 F115 and LC1 F150					
48	3.03	80.2	0.3	E7	LX9FF048
110	14.8	579	2.08	F7	LX9FF110
115	14.8	579	2.08	FE7	LX9FF110
120/127	19	746	2.65	G7	LX9FF127
208	45	1788	5.95	L7	LX9FF200
220	59.4	2190	7.7	M7	LX9FF220
230	59.4	2190	7.7	P7	LX9FF220
240	73.5	2750	9.68	U7	LX9FF240
380	173	6540	23	Q7	LX9FF380
400	173	6540	23	V7	LX9FF380
415	218	8460	30	N7	LX9FF415
440	218	8460	30	R7	LX9FF415
500	262	10300	36	S7	LX9FF500

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 U_c: closing = 35 ms, opening = 130 ms.

For contactors LC1 F185 and LC1 F225					
48	2.2	60	0.23	E7	LX9FG048
110	10.4	411	1.46	F7	LX9FG110
115	10.4	411	1.46	FE7	LX9FG110
120/127	13	520	1.85	G7	LX9FG127
208	33	1339	4.9	L7	LX9FG200
220	42.1	1680	5.84	M7	LX9FG220
230	42.1	1680	5.84	P7	LX9FG220
240	50.6	2060	7.22	U7	LX9FG240
380	128	4730	16.4	Q7	LX9FG380
400	128	4730	16.4	V7	LX9FG380
415	157	5930	20.6	N7	LX9FG415
440	157	5930	20.6	R7	LX9FG415
500	194	7550	26.3	S7	LX9FG500

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 U_c: closing = 35 ms, opening = 130 ms.

For contactors LC1 F265 and LC1 F330					
48	2.96	72	(2)	—	LX9FH0482
110/115	18.7	415	(2)	—	LX9FH1102
120/127	22.9	156	(2)	—	LX9FH1272
220/230	71.6	1621	(2)	—	LX9FH2202
240	88	1968	(2)	—	LX9FH2402
380/415	222	5075	(2)	—	LX9FH3802
500	345	7990	(2)	—	LX9FH5002

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 U_c: 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 F contactors

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

TeSys F

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

References

Coils with short operating times (at U_c):

- Opening: 60 ms
- Closing: 50 ms ($\sim$ side); 20 ms ($\dashv$ side).

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

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

Coils with low inrush consumption.

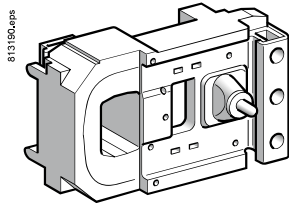
Control circuit voltage U_c	Average resistance at $20^\circ\text{C} \pm 10\%$		Inductance of closed circuit	Rectifier Reference ⁽¹⁾	Coil Reference	Weight
	Inrush	Sealed				
V	Ω	Ω	H			kg
For contactor LC1 F400						
48	4.03	43	0.22	DR5TF4V	LX9FJ917	0.970
110	25.7	246	1.3	DR5TE4U	LX9FJ925	0.970
127	32.3	302	1.7	DR5TE4U	LX9FJ926	0.970
220/230	99.5	919	5	DR5TE4U	LX9FJ931	0.970
380/415	311	3011	15	DR5TE4S	LX9FJ936	0.970
440	386	3690	19	DR5TE4S	LX9FJ937	0.970
500	478	4380	23	DR5TE4S	LX9FJ938	0.970

Specifications

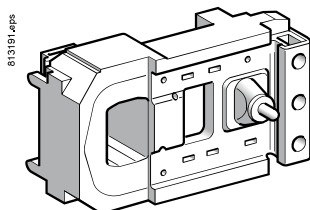
Average consumption:

- inrush: 500 VA
- sealed: 23 VA.

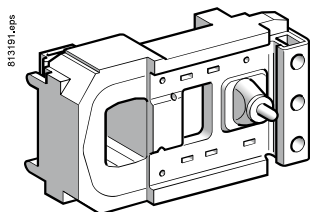
Heat dissipation: 11.4...13.9 W.



LX9 FJ...



LX9 FK...



LX9 FL...

For contactor LC1 F500

48	3.73	30.7	0.18	DR5TF4V	LX9FK917	1.080
110	24	204	1.1	DR5TE4U	LX9FK925	1.080
127	29.8	250	1.4	DR5TE4U	LX9FK926	1.080
220/230	89.9	770	4	DR5TE4U	LX9FK931	1.080
380/415	274	2075	12	DR5TE4S	LX9FK936	1.080
440	361	3060	16	DR5TE4S	LX9FK937	1.080
500	448	3750	19	DR5TE4S	LX9FK938	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	DR5TF4V	LX9FL917	1.450
110	13.5	114	0.77	DR5TE4U	LX9FL924	1.450
127	20.8	167	1.2	DR5TE4U	LX9FL926	1.450
220	52	425	2.9	DR5TE4U	LX9FL930	1.450
220/240	64.5	518	3.6	DR5TE4U	LX9FL931	1.450
380/400	163	1360	8.8	DR5TE4S	LX9FL935	1.450
415/440	204	1670	11	DR5TE4S	LX9FL936	1.450
500	312	2510	17	DR5TE4S	LX9FL938	1.450

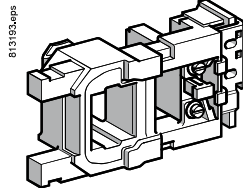
Specifications

Average consumption:

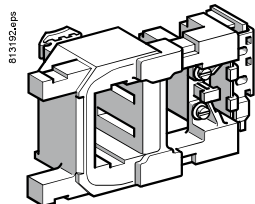
- inrush: 830 VA
- sealed: 47 VA.

Heat dissipation: 22.8...27.8 W.

⁽¹⁾ Rectifier to be ordered separately: 0.100 kg.



LX4 FF...



LX4 FH...

References

Low sealed consumption.

Control circuit voltage U _c	Average resistance at 20 °C ±10 %		Inductance of closed circuit	Voltage code	Reference
	Inrush	Sealed			
V	Ω	Ω	H		
For contactors LC1 F115 and LC1 F150					
24	1.12	177	11	BD	LX4FF024
48	4.52	715	42.7	ED	LX4FF048
110	21.7	2940	179	FD	LX4FF110
125	26.8	3560	223	GD	LX4FF125
220/230	84	11100	704	MD	LX4FF220
250	105	13000	868	UD	LX4FF250
440/460	301	48200	4000	RD	LX4FF440

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.

Operating cycles/hour (θ ≤ 55 °C): ≤ 2400.

For contactors LC1 F185 and LC1 F225

24	0.79	169	14.9	BD	LX4FG024
48	3.2	662	55.3	ED	LX4FG048
110	14.9	2810	241	FD	LX4FG110
125	19	3320	289	GD	LX4FG125
220/230	57.7	10200	890	MD	LX4FG220
250	76	12400	1140	UD	LX4FG250
440/460	223	39700	4210	RD	LX4FG440

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.

Operating cycles/hour (θ ≤ 55 °C): ≤ 2400.

For contactors LC1 F265 and LC1 F330

24	0.9	192	26.3	BD	LX4FH024
48	3.49	707	92.9	ED	LX4FH048
110	16.8	3180	424	FD	LX4FH110
125	20.8	3840	530	GD	LX4FH125
220/230	65.7	11500	1590	MD	LX4FH220
250	84	13900	1910	UD	LX4FH250
440/460	255	44000	7570	RD	LX4FH440

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.

Operating cycles/hour (θ ≤ 55 °C): ≤ 2400.

For contactor LC1 F400

48	2.5	558	56	ED	LX4FJ048
110	12.7	2660	270	FD	LX4FJ110
125	15.8	3130	330	GD	LX4FJ125
220	47	8820	910	MD	LX4FJ220
250	61	10500	1200	UD	LX4FJ250
440	236	33750	4435	RD	LX4FJ440

Specifications

Average consumption:

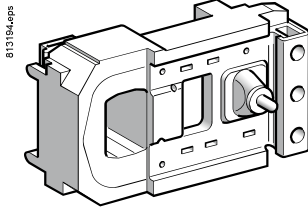
■ inrush: 920...1140 W,

■ sealed: 4...7.5 W.

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

Operating cycles/hour (θ ≤ 55 °C): ≤ 2400.

TeSys F



LX4 FK●●●

Specifications

Average consumption:

■ inrush: 990...1220 W,

■ sealed: 4.54...8 W.

Operating cycles/hour ($\theta \leq 55^\circ\text{C}$): 2400.Operating time at U_c : closing = 50...60 ms,

opening = 45...60 ms.

Specifications

Average consumption:

■ inrush: 1420...1920 W,

■ sealed: 6.5...12.5 W.

Operating cycles/hour ($\theta \leq 55^\circ\text{C}$): 1200.Operating time at U_c : closing = 60...70 ms,

opening = 40...50 ms.

Specifications

Average consumption:

■ inrush: 1960...2420 W

■ sealed: 42...52 W.

Operating cycles/hour ($\theta \leq 55^\circ\text{C}$): 600.Operating time at U_c : closing = 70...80 ms,

opening = 100...130 ms.

Specifications

Heat dissipation: 25 W.

Operating time at U_c : closing = 60...80 ms,

opening = 40...50 ms.

Specifications

Average consumption:

■ inrush: 2000...2200 W,

■ sealed: 8...10 W.

Operating cycles/hour ($\theta \leq 55^\circ\text{C}$): 600.Operating time at U_c : closing = 50...60 ms,

opening = 45...60 ms.

Specifications

Average consumption:

■ inrush: 2130...2880 W

■ sealed: 13...25 W

Operating cycles/hour ($\theta \leq 55^\circ\text{C}$): 600.Operating time at U_c : closing = 60...70 ms,

opening = 40...50 ms.

References

Low sealed consumption.

Control circuit voltage U_c	Average resistance at $20^\circ\text{C} \pm 10\%$		Inductance of closed circuit	Voltage code	Reference	Weight
V	Ω	Ω	H			kg
For contactor LC1 F500						
48	2.35	515	67	ED	LX4FK048	1.080
110	11.5	2450	280	FD	LX4FK110	1.080
125	15	2930	400	GD	LX4FK125	1.080
220	44	8150	1080	MD	LX4FK220	1.080
250	56	9650	1350	UD	LX4FK250	1.080
440	225	31300	5270	RD	LX4FK440	1.080

For contactor LC1 F630 and LC1 F1250

48	1.7	353	40.5	ED	LX4FL048	1.450
110	8.1	1680	180	FD	LX4FL110	1.450
125	10	2110	230	GD	LX4FL125 ⁽¹⁾	1.450
220	31	5160	650	MD	LX4FL220	1.450
250	38	6080	815	UD	LX4FL250	1.450
440	152	23120	2910	RD	LX4FL440 ⁽¹⁾	1.450

For contactor LC1 F780

110	6.1 ⁽³⁾	280 ⁽³⁾	0.26	FD	LX4FX110 ⁽²⁾	3.000
125	7.7 ⁽³⁾	410 ⁽³⁾	0.33	GD	LX4FX125 ⁽²⁾	3.000
220	24.6 ⁽³⁾	1100 ⁽³⁾	1	MD	LX4FX220 ⁽²⁾	3.000
250	29.8 ⁽³⁾	1330 ⁽³⁾	1.25	UD	LX4FX250 ⁽²⁾	3.000
440	92 ⁽³⁾	4180 ⁽³⁾	3.5	RD	LX4FX440 ⁽²⁾	3.000

For contactor LC1 F800

110/120	—	—	—	FW	LX4F8FW	1.650
220/240	—	—	—	MW	LX4F8MW	1.650
380/400	—	—	—	QW	LX4F8QW	1.650

For contactors LC1 F1000, LC1 F1400, LC1 F1700 and LC1 F2100

110	2.94	734	98	FD	LX4FK055 ⁽⁴⁾	1.080
125	3.73	916	122	GD	LX4FK065 ⁽⁴⁾	1.080
220	11.5	2450	280	MD	LX4FK110 ⁽⁴⁾	1.080
250	15	2930	400	UD	LX4FK125 ⁽⁴⁾	1.080
440	44	8150	1080	RD	LX4FK220 ⁽⁴⁾	1.080

For contactors LC1 F2600

110	2.05	481	64	FD	LX4FL055 ⁽⁴⁾	1.080
125	2.53	603	80	GD	LX4FL065 ⁽⁴⁾	1.080
220	11.5	2450	280	MD	LX4FL110 ⁽⁴⁾	1.080
250	15	2930	400	UD	LX4FL125 ⁽⁴⁾	1.080
440	44	8150	1080	RD	LX4FL220 ⁽⁴⁾	1.080

⁽¹⁾ Incompatible with LC1 F1250.⁽²⁾ Reference of set of 2 identical coils, to be connected in series.⁽³⁾ Value for the 2 coils in series.⁽⁴⁾ Order 2 coils and connect them in series.

TeSys contactors

TeSys F contactors

d.c. supply coils for specific applications

TeSys F

References

Coils with short operating times (at U_c):

- Opening: 60 ms
- Closing: 20 ms.

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

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

Coils with low inrush consumption.

Control circuit voltage U_c	Average resistance at $20\text{ }^\circ\text{C} \pm 10\text{ }\%$		Inductance of closed circuit	Resistor ⁽¹⁾ Qty required	Reference	Coil Reference	Weight
V	Ω	Inrush Ω Sealed	H				kg
For contactor LC1 F400							
48	5.11	99	0.27	1	DR2SC0047	LX9FJ918	0.970
110	32.3	632	1.7	1	DR2SC0330	LX9FJ926	0.970
125	39.4	760	2	1	DR2SC0390	LX9FJ927	0.970
220	123	2320	6.1	1	DR2SC1200	LX9FJ932	0.970
440/460	478	9080	23	1	DR2SC4700	LX9FJ938	0.970

Specifications

Average consumption:

- inrush: 430 W
- sealed: 22 W.

For contactor LC1 F500							
48	4.67	76.7	0.22	1	DR2SC0039	LX9FK918	1.080
110	29.8	470	1.4	1	DR2SC0220	LX9FK926	1.080
125	37.4	637	1.7	1	DR2SC0330	LX9FK927	1.080
220	115	1935	5.1	1	DR2SC1000	LX9FK932	1.080
440/460	448	7050	19	1	DR2SC3300	LX9FK938	1.080

Specifications

Average consumption:

- inrush: 470 W
- sealed: 29 W.

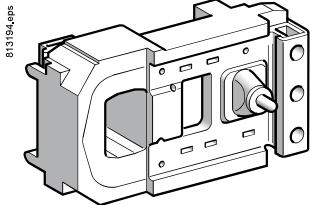
For contactor LC1 F630							
48	3.43	52.9	0.20	2	DR2SC0047	LX9FL918	1.450
110	17.2	272	0.98	2	DR2SC0270	LX9FL925	1.450
125	20.8	333	1.2	2	DR2SC0330	LX9FL926	1.450
220	64.5	1018	3.6	2	DR2SC1000	LX9FL931	1.450
440/460	260	4010	14	2	DR2SC3900	LX9FL937	1.450

Specifications

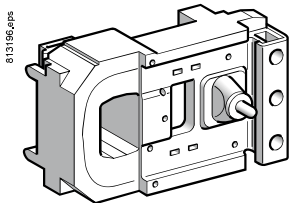
Average consumption:

- inrush: 733 W
- sealed: 48 W.

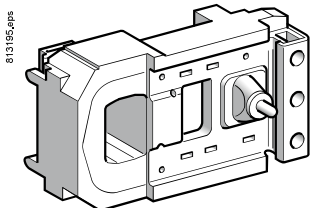
(1) Resistor to be ordered separately, weight of resistor: 0.030 kg.



LX9 FJ...



LX9 FK...



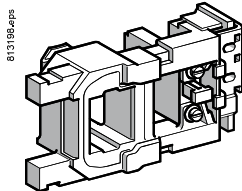
LX9 FL...

TeSys contactors

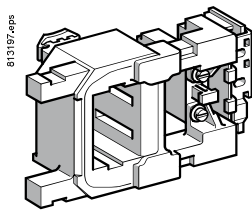
TeSys F contactors

Wide range d.c. supply coils for specific applications

TeSys F



LX4 FF...



LX4 FH...

References

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
	Inrush	Sealed		
V	Ω	Ω	H	
For contactors LC1 F115 and LC1 F150				
24	0.71	120	7.4	LX4FF020
48	2.86	392	27	LX4FF040
72	7.05	1055	66	LX4FF060
110	13.2	1970	121	LX4FF090
125	16.9	2340	149	LX4FF100

Specifications

Average consumption:

■ inrush: 415...1300 W

■ sealed: 3...9 W.

For contactors LC1 F185 and LC1 F225				
24	0.52	112	9.3	LX4FG020
48	2	359	34.4	LX4FG040
72	5.07	984	85	LX4FG060
110	9.66	1840	157	LX4FG090
125	12	2230	196	LX4FG100

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	LX4FH020
48	2.19	400	59.5	LX4FH040
72	5.58	1110	149	LX4FH060
110	11	2120	287	LX4FH090
125	13.8	2520	353	LX4FH100

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		Economy resistor Resistors in //		Reference of the assembly ⁽²⁾
			Reference	No. Ω	Reference		
V	Ω	H					
For contactor LC1 F400							
24	1.05	0.049	LX2FJW11	3 56	DR2SC0056		LX5FJW11
48	4.8	0.22	LX2FJW18	3 220	DR2SC0220		LX5FJW18
72	9.6	0.44	LX2FJW21	3 470	DR2SC0470		LX5FJW21

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.