



- BASE ①
- STATIC MAGNETIC CORE ②
- COIL ③
- REVERSE SPRING ④
- MOVABLE MAGNETIC CORE ⑤
- MOVABLE CONTACTS ⑥
- LID ⑦
- STATIC CONTACTS ⑧
- AUXILIARY CONTACT ⑨
- SCREWS ⑩
- TERMINAL PROTECTION CAPS ⑪



Documents corresponding to the product:  
Standard EN 60947-1; EN 60 947-4-1

The products are in accordance with the directives of EC "Low voltage directives (LVD) no. 73/23 EEC" and "Electromagnetic Compatibility Directives (EMC) no. 89/336 EEC".

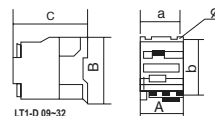
LT 1 D contactors are alternating current contactors for control of circuits and consumers operating in class AC3. It is suitable for consumers with rated current up to 95A. The contactors are offered in a type with 1 NO contact for operating circuit making and the models over 40A also have 1NC operating contactor.

**Functions:**

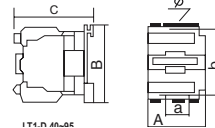
- switching on/off heavy-loaded electrical circuits at controlling signal to the coil
- making of control systems
- used as an operating element in process control panels
- remarkable with high reliability of current characteristics
- reliable separation of power contactors
- secured cover of the movable part of the contactor

**Technical data:**

- \* Operation class: AC 3
- \* Rated operating voltage of power contactors: up to 690V; 50/60Hz
- \* Composition of the power contact surfaces: unalloyed copper with coating 80% AgSnO
- \* Surge voltage wear resistance: >9000V
- \* Rated voltage of the coil: from 12 to 400V AC
- \* Coil material: pure copper type QA-1
- \* Magnetic core material: alloy steel type 360
- \* Moveable part material: Bakelite
- \* Limits of the controlling coil voltage: from 0.8 to 1.15 U<sub>c</sub>
- \* Joining terminal: screw terminal
- \* Connecting:
  - flexible conductors with or without cable terminal
  - rigid conductors
- \* Electrical wear resistance (number of cycles): ≥1000000
- \* Mechanical wear resistance (number of cycles): ≥10000000
- \* Number of cycles per hour: 1200 UP TO 32A; 600 for 40-95A
- \* Pole leaking power: up to 13W
- \* Mounting:
  - on DIN-rail or
  - with bolts to the surface
- mounting position: vertical gradient – maximum ± 5°
- \* Plastic: wear resistance of UV rays and non-flammable (self-extinguishing material)
- \* Ambient temperature: -10°C + 60°C
- \* Altitude: up to 2000m



LT1-D 09-32  
LT1-K



LT1-D 40-95

Type	Overall dimensions (mm)					
	a	b	d	A	B	C
LT-K 06-12	34/35	45	4.5	45	50	50
LT-D 09-12	34/35	50/60	4.5	47	70	82
LT1 D18	34/35	50/60	4.5	47	70	87
LT1 D25	40	48	4.5	57	80	95
LT1 D32	40	48	4.5	57	80	100
LT-D 40-65	40	100/110	6.5	77	126	116
LT-D 80-95	40	100/110	6.5	87	126	127

Type number	Rated capacity (kW)					Coil capacity (VA)		Rated current in AC-3 440V to up	Tightening moment (N.m)	Section of the power supply conductor	Coil voltage (V)	Packing/Box (pcs)	Catalogue number
	220V/230V	380V/400V	415V	440V	660V/690V	closed	open						
LT 1 - K 0810 1NO	1.5	2.2	2.2	2.2	3	7	60	6A	1.7	4	230	1 / 100	23061E
											400	1 / 100	23062E
											12	1 / 100	23063E
											24	1 / 100	23064E
											36	1 / 100	23065E
											48	1 / 100	23066E
110	1 / 100	23067E											

Type number	Rated capacity (kW)					Coil capacity (VA)		Rated current in AC-3 440V to up	Tightening moment (N.m)	Section of the power supply conductor	Coil voltage (V)	Packing/Box (pcs)	Catalogue number
	220V/230V	380V/400V	415V	440V	660V/690V	closed	open						
LT 1 - K 0910 1NO	2.2	3.7	3.7	3.7	4	7	60	9A	1.7	4	230	1 / 100	23091E
											400	1 / 100	23092E
											12	1 / 100	23093E
											24	1 / 100	23094E
											36	1 / 100	23095E
											48	1 / 100	23096E
110	1 / 100	23097E											

Type number	Rated capacity (kW)					Coil capacity (VA)		Rated current in AC-3 440V to up	Tightening moment (N.m)	Section of the power supply conductor	Coil voltage (V)	Packing/Box (pcs)	Catalogue number
	220V/230V	380V/400V	415V	440V	660V/690V	closed	open						
LT 1 - K 1210 1NO	3	4	4	4	5	7	60	12A	1.7	4	230	1 / 100	23121E
											400	1 / 100	23122E
											12	1 / 100	23123E
											24	1 / 100	23124E
											36	1 / 100	23125E
											48	1 / 100	23126E
110	1 / 100	23127E											

Type number	Rated capacity (kW)					Coil capacity (VA)		Rated current in AC-3 440V to up	Tightening moment (N.m)	Section of the power supply conductor	Coil voltage (V)	Packing/Box (pcs)	Catalogue number
	220V/230V	380V/400V	415V	440V	660V/690V	closed	open						
LT1 - D0910 1NO	2.2	4	4	4	5.5	7	60	9A	1.7	4	230	1 / 50	23091
											400	1 / 50	23092
											12	1 / 50	23093
											24	1 / 50	23094
											36	1 / 50	23095
											48	1 / 50	23096
110	1 / 50	23097											

Type number	Rated capacity (kW)					Coil capacity (VA)		Rated current in AC-3 440V to up	Tightening moment (N.m)	Section of the power supply conductor	Coil voltage (V)	Packing/Box (pcs)	Catalogue number
	220V/230V	380V/400V	415V	440V	660V/690V	closed	open						
LT1 - D0901 1NC	2.2	4	4	4	5.5	7	60	9A	1.7	4	230	1 / 50	23273
											400	1 / 50	23270
											12	1 / 50	23271
											24	1 / 50	23272
											36	1 / 50	23277
											48	1 / 50	23278
110	1 / 50	23279											

Type number	Rated capacity (kW)					Coil capacity (VA)		Rated current in AC-3 440V to up	Tightening moment (N.m)	Section of the power supply conductor	Coil voltage (V)	Packing/Box (pcs)	Catalogue number
	220V/230V	380V/400V	415V	440V	660V/690V	closed	open						
LT1 - D1210 1NO	3	5.5	5.5	5.5	7.5	7	60	12A	1.7	4	230	1 / 50	23121
											400	1 / 50	23122
											12	1 / 50	23123
											24	1 / 50	23124
											36	1 / 50	23125
											48	1 / 50	23126
110	1 / 50	23127											

Type number	Rated capacity (kW)					Coil capacity (VA)		Rated current in AC-3 440V to up	Tightening moment (N.m)	Section of the power supply conductor	Coil voltage (V)	Packing/Box (pcs)	Catalogue number
	220V/230V	380V/400V	415V	440V	660V/690V	closed	open						
LT1 - D1201 1NC	3	5.5	5.5	5.5	7.5	7	60	12A	1.7	4	230	1 / 50	23274
											400	1 / 50	23280
											12	1 / 50	23281
											24	1 / 50	23282
											36	1 / 50	23283
											48	1 / 50	23284
110	1 / 50	23285											

Type number	Rated capacity (kW)					Coil capacity (VA)		Rated current in AC-3 440V to up	Tightening moment (N.m)	Section of the power supply conductor	Coil voltage (V)	Packing/Box (pcs)	Catalogue number
	220V/230V	380V/400V	415V	440V	660V/690V	closed	open						
LT1 - D1810 1NO	4	7.5	9	9	10	7	60	18A	1.7	6	230	1 / 50	23181
											400	1 / 50	23182
											12	1 / 50	23183
											24	1 / 50	23184
											36	1 / 50	23185
											48	1 / 50	23186
110	1 / 50	23187											

Type number	Rated capacity (kW)					Coil capacity (VA)		Rated current in AC-3 440V to up	Tightening moment (N.m)	Section of the power supply conductor	Coil voltage (V)	Packing/Box (pcs)	Catalogue number
	220V/230V	380V/400V	415V	440V	660V/690V	closed	open						
LT1 - D1801 1NC	4	7.5	9	9	10	7	60	18A	1.7	6	230	1 / 50	23275
											400	1 / 50	23286
											12	1 / 50	23287
											24	1 / 50	23288
											36	1 / 50	23289
											48	1 / 50	23290
110	1 / 50	23291											

Type number	Rated capacity (kW)					Coil capacity (VA)		Rated current in AC-3 440V to up	Tightening moment (N.m)	Section of the power supply conductor	Coil voltage (V)	Packing/Box (pcs)	Catalogue number
	220V/230V	380V/400V	415V	440V	660V/690V	closed	open						
LT1 - D2510 1NO	5.5	11	11	11	15	7.5	90	25A	2.5	6	230	1 / 50	23251
											400	1 / 50	23252
											12	1 / 50	23253
											24	1 / 50	23254
											36	1 / 50	23255
											48	1 / 50	23256
110	1 / 50	23257											

Type number	Rated capacity (kW)					Coil capacity (VA)		Rated current in AC-3 440V to up	Tightening moment (N.m)	Section of the power supply conductor	Coil voltage (V)	Packing/Box (pcs)	Catalogue number
	220V/230V	380V/400V	415V	440V	660V/690V	closed	open						
LT1 - D2501 1NC	5.5	11	11	11	15	7.5	90	25A	2.5	6	230	1 / 50	23276
											400	1 / 50	23292
											12	1 / 50	23293
											24	1 / 50	23294
											36	1 / 50	23295
											48	1 / 50	23296
110	1 / 50	23297											

Type number	Rated capacity (kW)				Coil capacity (VA)		Rated current in AC-3 440V to up	Tightening moment (N.m)	Section of the power supply conductor	Coil voltage (V)	Packing/Box (pcs)	Catalogue number	
	220V/230V	380V/400V	415V/440V	660V/690V	closed	open							
LT1 - D3210 1NO	7.5	15	15	15	18.5	7.5	90	32A	2.5	10	230	1/50	23321
											400	1/50	23322
											12	1/50	23323
											24	1/50	23324
											36	1/50	23325
											48	1/50	23326
110	1/50	23327											
LT1 - D4011 1NO+1NC	11	18.5	22	22	30	20	200	40A	5	16	230	1/20	23401
											400	1/20	23402
											12	1/20	23403
											24	1/20	23404
											36	1/20	23405
											48	1/20	23406
110	1/20	23407											
LT1 - D5011 1NO+1NC	15	22	25	25	33	20	200	50A	5	25	230	1/20	23501
											400	1/20	23502
											12	1/20	23503
											24	1/20	23504
											36	1/20	23505
											48	1/20	23506
110	1/20	23507											
LT1 - D6511 1NO+1NC	18.5	30	37	37	37	20	200	65A	5	25	230	1/20	23651
											400	1/20	23652
											12	1/20	23653
											24	1/20	23654
											36	1/20	23655
											48	1/20	23656
110	1/20	23657											
LT1 - D8011 1NO+1NC	22	37	45	45	45	20	200	80A	9	50	230	1/15	23801
											400	1/15	23802
											12	1/15	23803
											24	1/15	23804
											36	1/15	23805
											48	1/15	23806
110	1/15	23807											
LT1 - D9511 1NO+1NC	25	45	45	45	45	20	200	95A	9	50	230	1/15	23951
											400	1/15	23952
											12	1/15	23953
											24	1/15	23954
											36	1/15	23955
											48	1/15	23956
110	1/15	23957											



Documents corresponding to the product:  
Standard EN 60947-1; EN 60 947-4-1  
The products are in accordance with the directives of EC "Low voltage directives (LVD) no. 73/23 EEC" and "Electromagnetic Compatibility Directives (EMC) no. 89/336 EEC".



The contactors LT 1 - F are alternating current contactors used to control circuits and consumers operating in normal working conditions with switching on/off the consumer and dirty working environment. They are suitable for consumers with electrical power consumption from 115A to 800A.

**Functions:**

- frequently switching on/off heavy-loaded electrical circuits at controlling signal to the coil
- making of systems for consumers' control
- used as an operating element in process control panels
- remarkable with high reliability of current characteristics
- reliable separation of power contactors
- secured cover of the movable part of the contactor

**Technical data:**

- \* Operation class: AC 3
- \* Rated operating voltage of power contactors: up to 1000V; 50/60Hz
- \* Composition of the power contact surfaces: unalloyed copper with coating 80% AgSnO
- \* Surge voltage wear resistance: >8000V
- \* Coil composition: pure coil copper QA-1 type
- \* Magnetic core composition: steel alloy 360
- \* Movable part composition: bakelite
- \* Rated voltage of the coil: 230 and 400V AC
- \* Limits of the controlling coil voltage: from 0.8 to 1.15 Uc
- \* Joining terminal: screw terminal
- \* Connecting:
  - flexible conductors with or without cable terminal
  - rigid conductors
  - rail
- \* Electrical wear resistance (number of cycles) ≥ 10000000
- \* Mechanical wear resistance (number of cycles) ≥ 10000000
- \* Number of cycles (switching on) per hour: 200
- \* Pole leaking power: from 16 to 80W
- \* Mounting:
  - with bolts to the surface
  - mounting position: vertical gradient – maximum ± 10°C
  - \* Plastic: wear resistance of UV rays and non-flammable (self-extinguishing material)
  - \* Ambient temperature: -10°C + 60°C
  - \* Altitude: up to 2000m

Type	Overall dimensions (mm)					
	a	b	c	L	M	D
LT 1 F150	163.5	170	171	107	150	26
LT 1 F225	168.5	197	181	113.5	172	21
LT 1 F285	201.5	203	181	141	178	38
LT 1 F400	213	206	219	145	182	43
LT 1 F630	309	304	255	155	264	80
LT 1 F800	309	304	255	155	264	80

Type number	Motor rated capacity (kW)						Coil capacity (VA)		Rated current in AC-3 440V to up	Tightening moment (N.m)	Coil voltage (V)	Packing/Box (pcs)	Catalogue number	
	220V/230V	380V/400V	415V/440V	500V/500V	660V/690V	1000V	closed	open						
LT1 - F115	30	55	59	59	59	80	60	45	550	115 A	18	230	1/4	23111
												400	1/4	23112
												12	1/4	23113
												24	1/4	23114
												36	1/4	23115
												48	1/4	23116
LT1 - F150	40	75	80	80	90	100	65	45	550	150 A	25	110	1/4	23117
												230	1/4	23151
												400	1/4	23152
												12	1/4	23153
												24	1/4	23154
												36	1/4	23155
LT1 - F225	63	110	110	110	129	129	100	55	805	225 A	35	400	1/2	23862
												12	1/2	23863
												24	1/2	23864
												36	1/2	23865
												48	1/2	23866
												110	1/2	23867
LT1 - F285	75	132	140	140	160	160	147	10	700	265 A	35	230	1/2	23868
												400	1/2	23869
												12	1/2	23870
												24	1/2	23871
												36	1/2	23872
												48	1/2	23873
LT1 - F400	110	200	220	250	257	280	185	18	1000	400 A	50	230	1/1	23751
												400	1/1	23752
												230	1/1	23771
												400	1/1	23772
												230	1/1	23881
												400	1/1	23882
LT1 - F630	200	335	375	400	400	450	450	25	1500	630 A	50	230	1/1	23771
												400	1/1	23772
												230	1/1	23881
												400	1/1	23882
												230	1/1	23881
												400	1/1	23882
LT1 - F800	250	450	450	450	450	475	450	15	1300	800 A	50	230	1/1	23881
												400	1/1	23882

Note: At mounting the containers from the series in control schemes a distance must be provided at the side of the contactor in case of eventual coil change.