



Standard EN 60947-1; EN 60 947-

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".

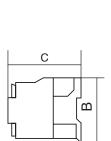


LT 1 D contactors are alternating current contactors for control of circuits and consumers operating in class AC3. It is suitable for consumers with rated current up to 95A. The contactors are offered in a type with 1 NO contact for operating circuit making and the models over 40A also have 1NC operating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

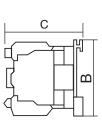
## Functions:

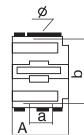
- switching on/off heavy-loaded electrical circuits at controlling signal to the coil
- making of control systems
- used as an operating element in process control panels
- remarkable with high reliability of current characteristics
- reliable separation of power contactors
- secured cover of the movable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

- \* 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: >8000V
- \* 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 Uc
- \* 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

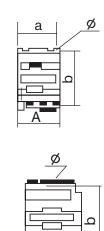








Туре			Overall dime	ensions (mm)		
туре	а	b	Ø	Α	В	С
LT-K 06~12	34/35	45	4.5	45	50	50
LT-D 09~12	34/35	50/60	4.5	47	70	82
LT1 D18	34/35	50/60	4.5	47	70	87
LT1 D25	40	48	4.5	57	80	95
LT1 D32	40	48	4.5	57	80	100
LT-D 40~65	40	100/110	6.5	77	126	116
LT-D 80~95	40	100/110	6.5	87	126	127





		Rate	d capacity	(kW)		Coil capa	acity (VA)	Rated current	Tightening mo-	Section of the		Packing/Box	Catalogue
Type number	220V 230V	380V 400V	415V	440V	660V 690V	closed	open	in AC-3 440V to up	ment (N.m)	power supply conductor	Coil voltage (V)	(pcs)	number
											230	1 / 100	23061E
											400	1 / 100	23062E
LT 4 1/ 0040											12	1 / 100	23063E
LT 1 - K 0610 1NO	1.5	2.2	2.2	2.2	3	7	60	6A	1.7	4	24	1 / 100	23064E
INO											36	1 / 100	23065E
											48	1 / 100	23066E
											110	1 / 100	23067E

		Rate	d capacity	(kW)		Coil capa	city (VA)	Rated current	Tightening mo-	Section of the		Packing/Box	Catalogue
Type number	220V 230V	380V 400V	415V	440V	660V 690V	closed	open	in AC-3 440V to up	ment (N.m)	power supply conductor	Coil voltage (V)	(pcs)	number
											230	1 / 100	23091E
											400	1 / 100	23092E
LT 4 1/ 0040											12	1 / 100	23093E
LT 1 - K 0910 1NO	2.2	3.7	3.7	3.7	4	7	60	9A	1.7	4	24	1 / 100	23094E
INO											36	1 / 100	23095E
											48	1 / 100	23096E
											110	1 / 100	23097E

		Rate	d capacity	(kW)		Coil capa	city (VA)	Rated current	Tightening mo-	Section of the		Packing/Box	Catalogue
Type number	220V 230V	380V 400V	415V	440V	660V 690V	closed	open	in AC-3 440V to up	ment (N.m)	conductor	Coil voltage (V)	(pcs)	number
											230	1 / 100	23121E
											400	1 / 100	23122E
LT 4 1/ 4040											12	1 / 100	23123E
LT 1 - K 1210 1NO	3	4	4	4	5	7	60	12A	1.7	4	24	1 / 100	23124E
INO											36	1 / 100	23125E
											48	1 / 100	23126E
											110	1 / 100	23127E

		Rate	d capacity	(kW)		Coil capa	city (VA)	Rated current	Tightening mo-	Section of the		Packing/Box	Catalogue
Type number	220V 230V	380V 400V	415V	440V	660V 690V	closed	open	in AC-3 440V to up	ment (N.m)	power supply conductor	Coil voltage (V)	(pcs)	number
											230	1 / 50	23091
											400	1 / 50	23092
LT4 D0040											12	1 / 50	23093
LT1 - D0910 1NO	2.2	4	4	4	5.5	7	60	9A	1.7	4	24	1 / 50	23094
1140											36	1 / 50	23095
											48	1 / 50	23096
											110	1 / 50	23097

		Rate	d capacity	(kW)		Coil capa	city (VA)	Rated current	Tightening mo-	Section of the		Packing/Box	Catalogue
Type number	220V 230V	380V 400V	415V	440V	660V 690V	closed	open	in AC-3 440V to up	ment (N.m)	power supply conductor	Coil voltage (V)	(pcs)	number
											230	1 / 50	23273
											400	1 / 50	23270
LT4 D0004											12	1 / 50	23271
LT1 - D0901 1NC	2.2	4	4	4	5.5	7	60	9A	1.7	4	24	1 / 50	23272
1110											36	1 / 50	23277
											48	1 / 50	23278
											110	1 / 50	23279



Time number			d capacity	(kW)		Coil capa	acity (VA)	Rated current in AC-3 440V	Tightening mo-	Section of the	Coil voltage (V)	Packing/Box	Catalogue
Type number	220V 230V	380V 400V	415V	440V	660V 690V	closed	open	to up	ment (N.m)	conductor	Coll voltage (v)	(pcs)	number
											230	1 / 50	23121
											400	1 / 50	23122
LT4 D4040											12	1 / 50	23123
LT1 - D1210 1NO	3	5.5	5.5	5.5	7.5	7	60	12A	1.7	4	24	1 / 50	23124
INO											36	1 / 50	23125
											48	1 / 50	23126
											110	1 / 50	23127
								5		0 " ("			
Type number	220V	Rate 380V	d capacity		660V	Coil capa	acity (VA)	Rated current in AC-3 440V	Tightening mo- ment (N.m)	Section of the power supply	Coil voltage (V)	Packing/Box (pcs)	Catalogue number
	230V	400V	415V	440V	690V	closed	open	to up	ment (iv.iii)	conductor		(pcs)	Humber
											230	1 / 50	23274
											400	1 / 50	23280
LT1 - D1201						_					12	1 / 50	23281
1NC	3	5.5	5.5	5.5	7.5	7	60	12A	1.7	4	24	1 / 50	23282
											36	1 / 50	23283
											48	1 / 50	23284
											110	1 / 50	23285
		Rate	d capacity	(kW)		Coil capa	acity (VA)	Rated current	Tightening mo-	Section of the		Packing/Box	Catalogue
Type number	220V	380V	415V	440V	660V	closed	open	in AC-3 440V	ment (N.m)	power suppry	Coil voltage (V)	(pcs)	number
	230V	400V	4101	4407	690V	Cioseu	Орен	to up		conductor	000	4.450	00404
											230	1 / 50	23181
											400	1 / 50	23182
LT1 - D1810		7.5	^	•	40	_	00	40.4	4.7	•	12	1 / 50	23183
1NO	4	7.5	9	9	10	7	60	18A	1.7	6	24	1/50	23184
											36	1 / 50	23185
											<u>48</u> 110	1 / 50	23186
											110	1/30	23187
												.,	
Type number			d capacity	(kW)		Coil capa	acity (VA)	Rated current	Tightening mo-	Section of the		Packing/Box	Catalogue
Type number	220V	380V	d capacity	(kW) 440V	660V	Coil capa	acity (VA) open	Rated current in AC-3 440V to up	Tightening mo- ment (N.m)				Catalogue number
Type number	220V 230V				660V 690V			in AC-3 440V		power supply	Coil voltage (V)	Packing/Box	
Type number		380V						in AC-3 440V		power supply		Packing/Box (pcs)	number
		380V						in AC-3 440V		power supply	Coil voltage (V)	Packing/Box (pcs)	number 23275
LT1 - D1801		380V						in AC-3 440V		power supply	Coil voltage (V)  230 400	Packing/Box (pcs)  1 / 50  1 / 50	23275 23286
	230V	380V 400V	415V	440V	690V	closed	open	in AC-3 440V to up	ment (N.m)	power supply conductor	230 400 12	Packing/Box (pcs)  1 / 50  1 / 50  1 / 50	23275 23286 23287
LT1 - D1801	230V	380V 400V	415V	440V	690V	closed	open	in AC-3 440V to up	ment (N.m)	power supply conductor	230 400 12 24	Packing/Box (pcs)  1 / 50  1 / 50  1 / 50  1 / 50	23275 23286 23287 23288
LT1 - D1801	230V	380V 400V	415V	440V	690V	closed	open	in AC-3 440V to up	ment (N.m)	power supply conductor	230 400 12 24 36	Packing/Box (pcs)  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50	23275 23286 23287 23288 23288 23289
LT1 - D1801	230V	380V 400V 7.5	415V 9	9 9	690V	closed 7	open 60	in AC-3 440V to up	ment (N.m)	power supply conductor	230 400 12 24 36 48 110	Packing/Box (pcs)  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50	23275 23286 23287 23288 23289 23290
LT1 - D1801 1NC	230V 4	380V 400V 7.5	415V	9 9	10	closed	open 60	in AC-3 440V to up	ment (N.m)  1.7	power supply conductor  6	230 400 12 24 36 48 110	Packing/Box (pcs)  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  Packing/Box	23275 23286 23287 23288 23289 23290 23291  Catalogue
LT1 - D1801	230V	380V 400V 7.5	415V 9	9 9	690V	closed 7	open 60	in AC-3 440V to up	1.7	power supply conductor  6	230 400 12 24 36 48 110	Packing/Box (pcs)  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50	23275 23286 23287 23288 23289 23290 23291
LT1 - D1801 1NC	230V 4	380V 400V 7.5	9 d capacity	9 9 (kW)	10 660V	7 Coil capa	open 60	in AC-3 440V to up	ment (N.m)  1.7	power supply conductor  6  Section of the power supply	230 400 12 24 36 48 110	Packing/Box (pcs)  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  Packing/Box	23275 23286 23287 23288 23289 23290 23291  Catalogue
LT1 - D1801 1NC	230V 4	380V 400V 7.5	9 d capacity	9 9 (kW)	10 660V	7 Coil capa	open 60	in AC-3 440V to up	ment (N.m)  1.7	power supply conductor  6  Section of the power supply	230 400 12 24 36 48 110	Packing/Box (pcs)  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  Packing/Box (pcs)	23275 23286 23287 23288 23289 23290 23291  Catalogue number
LT1 - D1801 1NC	230V 4	380V 400V 7.5	9 d capacity	9 9 (kW)	10 660V	7 Coil capa	open 60	in AC-3 440V to up	ment (N.m)  1.7	power supply conductor  6  Section of the power supply	230 400 12 24 36 48 110 Coil voltage (V)	Packing/Box (pcs)  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  Packing/Box (pcs)  1 / 50	23275 23286 23287 23288 23289 23290 23291  Catalogue number 23251
LT1 - D1801 1NC Type number	230V 4	380V 400V 7.5	9 d capacity	9 9 (kW)	10 660V	7 Coil capa	open 60	in AC-3 440V to up	ment (N.m)  1.7	power supply conductor  6  Section of the power supply	230 400 12 24 36 48 110 Coil voltage (V)	Packing/Box (pcs)  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  Packing/Box (pcs)  1 / 50  1 / 50  1 / 50	23275 23286 23287 23288 23289 23290 23291  Catalogue number 23251 23252
LT1 - D1801 1NC	230V 4 220V 230V	7.5  Rate 380V 400V	9 d capacity 415V	9 9 (kW) 440V	690V 10 660V 690V	7 Coil cape	60 acity (VA)	in AC-3 440V to up 18A Rated current in AC-3 440V to up	1.7 Tightening moment (N.m)	power supply conductor  6  Section of the power supply conductor	230 400 12 24 36 48 110 Coil voltage (V) 230 400 12 24 36	Packing/Box (pcs)  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  Packing/Box (pcs)  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50	23275 23286 23287 23288 23289 23290 23291  Catalogue number 23251 23252 23253 23254 23255
LT1 - D1801 1NC Type number	230V 4 220V 230V	7.5  Rate 380V 400V	9 d capacity 415V	9 9 (kW) 440V	690V 10 660V 690V	7 Coil cape	60 acity (VA)	in AC-3 440V to up 18A Rated current in AC-3 440V to up	1.7 Tightening moment (N.m)	power supply conductor  6  Section of the power supply conductor	230 400 12 24 36 48 110 Coil voltage (V) 230 400 12 24	Packing/Box (pcs)  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  Packing/Box (pcs)  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50	number  23275 23286 23287 23288 23289 23290 23291  Catalogue number  23251 23252 23253 23254 23255 23256
LT1 - D1801 1NC Type number	230V 4 220V 230V	7.5  Rate 380V 400V	9 d capacity 415V	9 9 (kW) 440V	690V 10 660V 690V	7 Coil cape	60 acity (VA)	in AC-3 440V to up 18A Rated current in AC-3 440V to up	1.7 Tightening moment (N.m)	power supply conductor  6  Section of the power supply conductor	230 400 12 24 36 48 110 Coil voltage (V) 230 400 12 24 36	Packing/Box (pcs)  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  Packing/Box (pcs)  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50	23275 23286 23287 23288 23289 23290 23291  Catalogue number 23251 23252 23253 23254 23255
LT1 - D1801 1NC Type number	230V 4 220V 230V	7.5  Rate 380V 400V	9 d capacity 415V	9 9 (kW) 440V	690V 10 660V 690V	Coil cape closed	open 60 acity (VA) open 90	in AC-3 440V to up  18A  Rated current in AC-3 440V to up	1.7 Tightening moment (N.m)	section of the power supply conductor	230 400 12 24 36 48 110 Coil voltage (V) 230 400 12 24 36 48	Packing/Box (pcs)  1 / 50	23275 23286 23287 23288 23289 23290 23291  Catalogue number 23251 23252 23253 23254 23255 23256 23257
LT1 - D1801 1NC Type number	230V 4 220V 230V	7.5  Rate 380V 400V	9 d capacity 415V	9 (kW) 440V	690V 10 660V 690V	7 Coil capa closed 7.5	open  60  acity (VA) open  90	IN AC-3 440V to up  18A  Rated current in AC-3 440V to up  25A  Rated current in AC-3 440V	Tightening moment (N.m)  2.5	section of the power supply conductor  6  Section of the power supply conductor  6	230 400 12 24 36 48 110 Coil voltage (V) 230 400 12 24 36 48	Packing/Box (pcs)  1/50  1/50  1/50  1/50  1/50  1/50  1/50  1/50  1/50  Packing/Box (pcs)  1/50  1/50  1/50  1/50  1/50  1/50  1/50  1/50  Packing/Box	number  23275 23286 23287 23288 23289 23290 23291  Catalogue number  23251 23252 23253 23254 23255 23256 23257  Catalogue
LT1 - D1801 1NC Type number LT1 - D2510 1NO	220V 220V 230V	7.5  Rate 380V 400V	9 d capacity 415V	9 9 (kW) 440V	690V 10 660V 690V	Coil cape closed	open 60 acity (VA) open 90	in AC-3 440V to up  18A  Rated current in AC-3 440V to up  25A	ment (N.m)  1.7  Tightening moment (N.m)	power supply conductor  6  Section of the power supply conductor  6	230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24 36 48 110	Packing/Box (pcs)  1 / 50  Packing/Box (pcs)  Packing/Box (pcs)	number  23275 23286 23287 23288 23289 23290 23291  Catalogue number  23251 23252 23253 23254 23255 23256 23257  Catalogue number
LT1 - D1801 1NC Type number LT1 - D2510 1NO	220V 220V 230V	7.5  Rate 380V 400V	9 d capacity 415V	9 (kW) 440V	690V 10 660V 690V	7 Coil capa closed 7.5	open  60  acity (VA) open  90	IN AC-3 440V to up  18A  Rated current in AC-3 440V to up  25A  Rated current in AC-3 440V	Tightening moment (N.m)  2.5	section of the power supply conductor  6  Section of the power supply conductor  6	Coil voltage (V)  230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24 36 48 110  Coil voltage (V) 230 36 36 48 310	Packing/Box (pcs)  1 / 50  Packing/Box (pcs)  1 / 50	number  23275 23286 23287 23288 23289 23290 23291  Catalogue number  23251 23252 23253 23254 23255 23256 23257  Catalogue number  23276
LT1 - D1801 1NC Type number LT1 - D2510 1NO	220V 220V 230V	7.5  Rate 380V 400V	9 d capacity 415V	9 (kW) 440V	690V 10 660V 690V	7 Coil capa closed 7.5	open  60  acity (VA) open  90	IN AC-3 440V to up  18A  Rated current in AC-3 440V to up  25A  Rated current in AC-3 440V	Tightening moment (N.m)  2.5	section of the power supply conductor  6  Section of the power supply conductor  6	230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24 36 48 110  Coil voltage (V)  230 400  Coil voltage (V)	Packing/Box (pcs)  1 / 50  Packing/Box (pcs)  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50	number  23275 23286 23287 23288 23289 23290 23291  Catalogue number  23251 23252 23253 23254 23255 23256 23257  Catalogue number  23276 23292
LT1 - D1801 1NC  Type number  LT1 - D2510 1NO  Type number	220V 230V 5.5 220V 230V	380V 400V 7.5 Rate 380V 400V	d capacity 415V  11  d capacity 415V	9 (kW) 440V	690V 10 660V 690V 15	Coil capa closed  7.5  Coil capa closed	open  60  acity (VA) open  90  city (VA) open	In AC-3 440V to up  Rated current in AC-3 440V to up  25A  Rated current in AC-3 440V to up	Tightening moment (N.m)  2.5  Tightening moment (N.m)	section of the power supply conductor  6  Section of the power supply conductor	230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24 36 48 110	Packing/Box (pcs)  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  Packing/Box (pcs)  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50  1 / 50	23275 23286 23287 23288 23289 23290 23291  Catalogue number  23251 23252 23253 23254 23255 23256 23257  Catalogue number  23276 23292 23293
LT1 - D1801 1NC Type number LT1 - D2510 1NO	220V 220V 230V	7.5  Rate 380V 400V	9 d capacity 415V	9 (kW) 440V	690V 10 660V 690V	7 Coil capa closed 7.5	open  60  acity (VA) open  90	IN AC-3 440V to up  18A  Rated current in AC-3 440V to up  25A  Rated current in AC-3 440V	Tightening moment (N.m)  2.5	section of the power supply conductor  6  Section of the power supply conductor  6	Coil voltage (V)  230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24 24 24 24 24 24 24 24 24 24 24 24 24	Packing/Box (pcs)  1/50	number  23275 23286 23287 23288 23289 23290 23291  Catalogue number  23251 23252 23253 23254 23255 23256 23257  Catalogue number  23276 23292 23293 23294
LT1 - D1801 1NC  Type number  LT1 - D2510 1NO  Type number	220V 230V 5.5 220V 230V	380V 400V 7.5 Rate 380V 400V	d capacity 415V  11  d capacity 415V	9 (kW) 440V	690V 10 660V 690V 15	Coil capa closed  7.5  Coil capa closed	open  60  acity (VA) open  90  city (VA) open	In AC-3 440V to up  Rated current in AC-3 440V to up  25A  Rated current in AC-3 440V to up	Tightening moment (N.m)  2.5  Tightening moment (N.m)	section of the power supply conductor  6  Section of the power supply conductor	Coil voltage (V)  230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24 36 48 36 48 36 48 36 48 36 48 36 48 36	Packing/Box (pcs)  1/50	number  23275 23286 23287 23288 23289 23290 23291  Catalogue number  23251 23252 23253 23254 23255 23256 23257  Catalogue number  23276 23292 23293 23294 23295
LT1 - D1801 1NC  Type number  LT1 - D2510 1NO  Type number	220V 230V 5.5 220V 230V	380V 400V 7.5 Rate 380V 400V	d capacity 415V  11  d capacity 415V	9 (kW) 440V	690V 10 660V 690V 15	Coil capa closed  7.5  Coil capa closed	open  60  acity (VA) open  90  city (VA) open	In AC-3 440V to up  Rated current in AC-3 440V to up  25A  Rated current in AC-3 440V to up	Tightening moment (N.m)  2.5  Tightening moment (N.m)	section of the power supply conductor  6  Section of the power supply conductor	Coil voltage (V)  230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24 24 24 24 24 24 24 24 24 24 24 24 24	Packing/Box (pcs)  1/50	number  23275 23286 23287 23288 23289 23290 23291  Catalogue number  23251 23252 23253 23254 23255 23256 23257  Catalogue number  23276 23292 23293 23294



		Rate	d capacity	(kW)		Coil capa	acity (VA)	Rated current	T. 1	Section of the		D 11 /D	0.1.1
Type number	220V 230V	380V 400V	415V	440V	660V 690V	closed	open	in AC-3 440V to up	Tightening mo- ment (N.m)	power supply conductor	Coil voltage (V)	Packing/Box (pcs)	Catalogue number
	2307	4007			0907						230	1 / 50	23321
											400	1 / 50	23322
LT4 D2040											12	1 / 50	23323
LT1 - D3210 1NO	7.5	15	15	15	18.5	7.5	90	32A	2.5	10	24	1 / 50	23324
into											36	1 / 50	23325
											48	1 / 50	23326
											110	1 / 50	23327
		Rate	d capacity	(k\M)		Coil cana	acity (VA)	Rated current		Section of the			
Type number	220V	380V			660V			in AC-3 440V	Tightening mo- ment (N.m)		Coil voltage (V)	Packing/Box (pcs)	Catalogue number
	230V	400V	415V	440V	690V	closed	open	to up	ment (iv.iii)	conductor		(pcs)	Humber
											230	1 / 20	23401
											400	1 / 20	23402
LT1 - D4011											12	1 / 20	23403
1NO+1NC	11	18.5	22	22	30	20	200	40A	5	16	24	1 / 20	23404
											36	1 / 20	23405
											48	1 / 20	23406
											110	1 / 20	23407
		Rate	d capacity	(kW)		Coil capa	acity (VA)	Rated current		Section of the		D 11 /D	0.11
Type number	220V	380V			660V			in AC-3 440V	Tightening mo- ment (N.m)	power supply	Coil voltage (V)	Packing/Box (pcs)	Catalogue number
	230V	400V	415V	440V	690V	closed	open	to up	mone (rv.m)	conductor		(600)	Hamboi
											230	1 / 20	23501
											400	1 / 20	23502
LT1 - D5011											12	1 / 20	23503
1NO+1NC	15	22	25	25	33	20	200	50A	5	25	24	1 / 20	23504
											36	1 / 20	23505
											48	1 / 20	23506
											110	1 / 20	23507
		Doto		(1.140)		0.1		Detect consent		0 11 611			
		Rale	d capacity	(KVV)		Coll capa	acity (VA)	Rated current	Tiebtenine me	Section of the		Dealing/Day	Catalagua
Type number	220V	380V			660V			in AC-3 440V	Tightening mo- ment (N.m)	power supply	Coil voltage (V)	Packing/Box (pcs)	Catalogue number
Type number	220V 230V		d capacity 415V	440V	660V 690V	closed	open				Coil voltage (V)	(pcs)	number
Type number		380V						in AC-3 440V		power supply	Coil voltage (V)	(pcs)	number 23651
Type number		380V						in AC-3 440V		power supply	230 400	(pcs) 1 / 20 1 / 20	23651 23652
Type number  LT1 - D6511	230V	380V 400V	415V	440V	690V	closed	open	in AC-3 440V to up	ment (N.m)	power supply conductor	230 400 12	(pcs)  1 / 20  1 / 20  1 / 20  1 / 20	23651 23652 23653
		380V						in AC-3 440V		power supply	230 400 12 24	(pcs)  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20	23651 23652 23653 23654
LT1 - D6511	230V	380V 400V	415V	440V	690V	closed	open	in AC-3 440V to up	ment (N.m)	power supply conductor	230 400 12 24 36	(pcs)  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20	23651 23652 23653 23654 23655
LT1 - D6511	230V	380V 400V	415V	440V	690V	closed	open	in AC-3 440V to up	ment (N.m)	power supply conductor	230 400 12 24 36 48	(pcs)  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20	23651 23652 23653 23654 23655 23656
LT1 - D6511	230V	380V 400V	415V	440V	690V	closed	open	in AC-3 440V to up	ment (N.m)	power supply conductor	230 400 12 24 36	(pcs)  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20	23651 23652 23653 23654 23655
LT1 - D6511 1NO+1NC	230V	380V 400V	415V	37	690V	closed 20	open	in AC-3 440V to up  65A	ment (N.m)	power supply conductor  25	230 400 12 24 36 48 110	(pcs)  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20	23651 23652 23653 23654 23655 23656 23657
LT1 - D6511	230V 18.5	380V 400V 30 Rated 380V	415V 37	37 (kW)	37 660V	closed 20 Coil capa	open 200 acity (VA)	in AC-3 440V to up 65A Rated current in AC-3 440V	ment (N.m)	power supply conductor  25  Section of the power supply	230 400 12 24 36 48 110	(pcs)  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20	23651 23652 23653 23654 23655 23656
LT1 - D6511 1NO+1NC	18.5	380V 400V 30	415V 37	37	37	closed 20	open 200	in AC-3 440V to up  65A	ment (N.m)  5	power supply conductor  25	230 400 12 24 36 48 110	(pcs)  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  Packing/Box (pcs)	23651 23652 23653 23654 23655 23656 23657 Catalogue number
LT1 - D6511 1NO+1NC	230V 18.5	380V 400V 30 Rated 380V	415V 37	37 (kW)	37 660V	closed 20 Coil capa	open 200 acity (VA)	in AC-3 440V to up 65A Rated current in AC-3 440V	ment (N.m)  5	power supply conductor  25  Section of the power supply	230 400 12 24 36 48 110 Coil voltage (V)	(pcs)  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  Packing/Box (pcs)  1 / 15	23651 23652 23653 23654 23655 23656 23657 Catalogue number 23801
LT1 - D6511 1NO+1NC	230V 18.5	380V 400V 30 Rated 380V	415V 37	37 (kW)	37 660V	closed 20 Coil capa	open 200 acity (VA)	in AC-3 440V to up 65A Rated current in AC-3 440V	ment (N.m)  5	power supply conductor  25  Section of the power supply	230 400 12 24 36 48 110 Coil voltage (V)	(pos)  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  Packing/Box (pcs)  1 / 15  1 / 15	23651 23652 23653 23654 23655 23656 23657 Catalogue number 23801 23802
LT1 - D6511 1NO+1NC Type number	230V 18.5 220V 230V	380V 400V 30 Rateo 380V 400V	37 d capacity 415V	37 37 (kW) 440V	690V 37 660V 690V	closed 20 Coil cape closed	200 acity (VA)	in AC-3 440V to up 65A Rated current in AC-3 440V to up	ment (N.m)  5  Tightening moment (N.m)	power supply conductor  25  Section of the power supply conductor	230 400 12 24 36 48 110 Coil voltage (V) 230 400 12	(pos)  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  Packing/Box (pcs)  1 / 15  1 / 15	23651 23652 23653 23654 23655 23656 23657 Catalogue number 23801 23802 23803
LT1 - D6511 1NO+1NC	230V 18.5	380V 400V 30 Rated 380V	415V 37	37 (kW)	37 660V	closed 20 Coil capa	open 200 acity (VA)	in AC-3 440V to up 65A Rated current in AC-3 440V	ment (N.m)  5	power supply conductor  25  Section of the power supply	230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24	(pos)  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 30  Packing/Box (pcs)  1 / 15  1 / 15  1 / 15	23651 23652 23653 23654 23655 23656 23657  Catalogue number 23801 23802 23803 23804
LT1 - D6511 1NO+1NC Type number	230V 18.5 220V 230V	380V 400V 30 Rateo 380V 400V	37 d capacity 415V	37 37 (kW) 440V	690V 37 660V 690V	closed 20 Coil cape closed	200 acity (VA)	in AC-3 440V to up 65A Rated current in AC-3 440V to up	ment (N.m)  5  Tightening moment (N.m)	power supply conductor  25  Section of the power supply conductor	230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24 36 400 12 24 36	(pos)  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 30  Packing/Box (pcs)  1 / 15  1 / 15  1 / 15  1 / 15	23651 23652 23653 23654 23655 23656 23657  Catalogue number 23801 23802 23803 23804 23805
LT1 - D6511 1NO+1NC Type number	230V 18.5 220V 230V	380V 400V 30 Rateo 380V 400V	37 d capacity 415V	37 37 (kW) 440V	690V 37 660V 690V	closed 20 Coil cape closed	200 acity (VA)	in AC-3 440V to up 65A Rated current in AC-3 440V to up	ment (N.m)  5  Tightening moment (N.m)	power supply conductor  25  Section of the power supply conductor	230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24	(pcs)  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 1/20  1 / 20  1 / 20  1 / 1/20  1 / 1/20  1 / 1/20  1 / 1/5  1 / 1/5  1 / 1/5  1 / 1/5  1 / 1/5	23651 23652 23653 23654 23655 23656 23657  Catalogue number 23801 23802 23803 23804 23805 23806
LT1 - D6511 1NO+1NC Type number	230V 18.5 220V 230V	380V 400V 30 Rateo 380V 400V	37 d capacity 415V	37 37 (kW) 440V	690V 37 660V 690V	closed 20 Coil cape closed	200 acity (VA)	in AC-3 440V to up 65A Rated current in AC-3 440V to up	ment (N.m)  5  Tightening moment (N.m)	power supply conductor  25  Section of the power supply conductor	230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24 36 400 12 24 36 48	(pos)  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 30  Packing/Box (pcs)  1 / 15  1 / 15  1 / 15  1 / 15	23651 23652 23653 23654 23655 23656 23657  Catalogue number 23801 23802 23803 23804 23805
LT1 - D6511 1NO+1NC  Type number  LT1 - D8011 1NO+1NC	220V 220V 230V	380V 400V 30 Rates 380V 400V	37 d capacity 415V	37 (kW) 440V	690V 37 660V 690V	closed  20  Coil cape closed	200 acity (VA)	in AC-3 440V to up  65A  Rated current in AC-3 440V to up  80A	ment (N.m)  5  Tightening moment (N.m)	power supply conductor  25  Section of the power supply conductor  50	230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24 36 48 110	(pcs)  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 1/20  1 / 20  1 / 20  1 / 1/20  1 / 1/20  1 / 1/20  1 / 1/5  1 / 1/5  1 / 1/5  1 / 1/5  1 / 1/5	23651 23652 23653 23654 23655 23656 23657  Catalogue number 23801 23802 23803 23804 23805 23806
LT1 - D6511 1NO+1NC Type number	230V 18.5 220V 230V	380V 400V 30 Rater 380V 400V 37	37 d capacity 415V	37 (kW) 440V	690V 37 660V 690V	closed  20  Coil cape closed	200 acity (VA) open	in AC-3 440V to up  65A  Rated current in AC-3 440V to up  80A  Rated current in AC-3 440V	ment (N.m)  5  Tightening moment (N.m)	power supply conductor  25  Section of the power supply conductor  50	230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24 36 400 12 24 36 48 110	(pcs)  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 1/20  1 / 20  1 / 1/20	23651 23652 23653 23654 23655 23656 23657  Catalogue number 23801 23802 23803 23804 23805 23806 23807
LT1 - D6511 1NO+1NC  Type number  LT1 - D8011 1NO+1NC	220V 220V 230V	380V 400V 30 Rates 380V 400V	37 d capacity 415V 45	37 (kW) 440V 45	690V 37 660V 690V	20 Coil capa closed  20 Coil capa	200 acity (VA) open 200 acity (VA)	in AC-3 440V to up  65A  Rated current in AC-3 440V to up  80A	ment (N.m)  5  Tightening moment (N.m)	section of the power supply conductor  Section of the power supply conductor  Section of the power supply conductor	230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24 36 48 110  Coil voltage (V)	(pos)  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 1/20  1 / 20  Packing/Box (pcs)  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  Packing/Box (pcs)	23651 23652 23653 23654 23655 23656 23657  Catalogue number 23801 23802 23803 23804 23805 23806 23807  Catalogue number
LT1 - D6511 1NO+1NC  Type number  LT1 - D8011 1NO+1NC	230V 18.5 220V 230V	380V 400V 30 Rater 380V 400V 37	37 d capacity 415V 45	37 (kW) 440V 45	690V 37 660V 690V	20 Coil capa closed  20 Coil capa	200 acity (VA) open 200 acity (VA)	in AC-3 440V to up  65A  Rated current in AC-3 440V to up  80A  Rated current in AC-3 440V	ment (N.m)  5  Tightening moment (N.m)	section of the power supply conductor  Section of the power supply conductor  Section of the power supply conductor	230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24 36 48 110  Coil voltage (V)  230 240 36 24 36 24 36 36 36 38 310	(pos)  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 1/20  1 / 1/20  1 / 1/20  Packing/Box (pcs)  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15	23651 23652 23653 23654 23655 23656 23657  Catalogue number 23801 23802 23803 23804 23805 23806 23807  Catalogue number 23801
LT1 - D6511 1NO+1NC  Type number  LT1 - D8011 1NO+1NC	230V 18.5 220V 230V	380V 400V 30 Rater 380V 400V 37	37 d capacity 415V 45	37 (kW) 440V 45	690V 37 660V 690V	20 Coil capa closed  20 Coil capa	200 acity (VA) open 200 acity (VA)	in AC-3 440V to up  65A  Rated current in AC-3 440V to up  80A  Rated current in AC-3 440V	ment (N.m)  5  Tightening moment (N.m)	section of the power supply conductor  Section of the power supply conductor	Coil voltage (V)  230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24 36 48 110	(pos)  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 1/20  1 / 20  Packing/Box (pcs)  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15	23651 23652 23653 23654 23655 23656 23656 23657  Catalogue number 23801 23802 23803 23804 23805 23806 23807  Catalogue number 23801
LT1 - D6511 1NO+1NC  Type number  LT1 - D8011 1NO+1NC  Type number	220V 230V 230V 22 22 220V 230V	380V 400V 30 380V 400V 37 Rated 380V 400V	37 d capacity 415V 45 d capacity 415V	440V 37 (kW) 440V 45	690V 37 660V 690V 45	closed  20  Coil capa closed  20  Coil capa closed	200 acity (VA) open 200 acity (VA) open	in AC-3 440V to up  Rated current in AC-3 440V to up  80A  Rated current in AC-3 440V to up	ment (N.m)  5  Tightening moment (N.m)	section of the power supply conductor  Section of the power supply conductor  Section of the power supply conductor	230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24 36 400 11 20 24 36 48 110  Coil voltage (V)  230 400 12 24 36 48 110	(pos)  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 30  Packing/Box (pcs)  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15	23651 23652 23653 23654 23655 23656 23656 23657  Catalogue number 23801 23802 23803 23804 23805 23806 23807  Catalogue number 23801
LT1 - D6511 1NO+1NC  Type number  LT1 - D8011 1NO+1NC  Type number	230V 18.5 220V 230V	380V 400V 30 Rater 380V 400V 37	37 d capacity 415V 45	37 (kW) 440V 45	690V 37 660V 690V	20 Coil capa closed  20 Coil capa	200 acity (VA) open 200 acity (VA)	in AC-3 440V to up  65A  Rated current in AC-3 440V to up  80A  Rated current in AC-3 440V	ment (N.m)  5  Tightening moment (N.m)	section of the power supply conductor  Section of the power supply conductor	Coil voltage (V)  230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24 36 48 110	(pos)  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 30  Packing/Box (pcs)  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15	23651 23652 23653 23654 23655 23656 23656 23657  Catalogue number 23801 23802 23803 23804 23805 23806 23807  Catalogue number 23951 23952 23953 23954
LT1 - D6511 1NO+1NC  Type number  LT1 - D8011 1NO+1NC  Type number	220V 230V 230V 22 22 220V 230V	380V 400V 30 380V 400V 37 Rated 380V 400V	37 d capacity 415V 45 d capacity 415V	440V 37 (kW) 440V 45	690V 37 660V 690V 45	closed  20  Coil capa closed  20  Coil capa closed	200 acity (VA) open 200 acity (VA) open	in AC-3 440V to up  Rated current in AC-3 440V to up  80A  Rated current in AC-3 440V to up	ment (N.m)  5  Tightening moment (N.m)	section of the power supply conductor  Section of the power supply conductor  Section of the power supply conductor	230 400 12 24 36 48 110  Coil voltage (V)  230 400  12 24 36 48 110  Coil voltage (V)  230 400 12 24 36 48 110  Coil voltage (V)	(pcs)  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 1/20  1 / 1/20  1 / 1/5  1 / 15	23651 23652 23653 23654 23655 23656 23657  Catalogue number 23801 23802 23803 23804 23805 23806 23807  Catalogue number 23951 23952 23953 23954 23955
LT1 - D6511 1NO+1NC  Type number  LT1 - D8011 1NO+1NC  Type number	220V 230V 230V 22 22 220V 230V	380V 400V 30 380V 400V 37 Rated 380V 400V	37 d capacity 415V 45 d capacity 415V	440V 37 (kW) 440V 45	690V 37 660V 690V 45	closed  20  Coil capa closed  20  Coil capa closed	200 acity (VA) open 200 acity (VA) open	in AC-3 440V to up  Rated current in AC-3 440V to up  80A  Rated current in AC-3 440V to up	ment (N.m)  5  Tightening moment (N.m)	section of the power supply conductor  Section of the power supply conductor  Section of the power supply conductor	Coil voltage (V)  230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24 36 48 110  Coil voltage (V)  230 400 12 24 36 48 110	(pos)  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 20  1 / 30  Packing/Box (pcs)  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15  1 / 15	23651 23652 23653 23654 23655 23656 23656 23657  Catalogue number 23801 23802 23803 23804 23805 23806 23807  Catalogue number 23951 23952 23953 23954

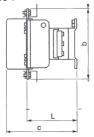
## Low voltage contactors LT 1 - F

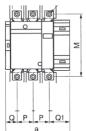




# Documents corresponding to the product:

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

- \* 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 dime	nsions (mm)			
туре	а	b	С	L	M	Q	Q1	Р
LT 1 F150	163.5	170	171	107	150	26	57.5	40
LT 1 F225	168.5	197	181	113.5	172	21	51.5	48
LT 1 F265	201.5	203	181	141	178	39	66.5	48
LT 1 F400	213	206	219	145	182	43	74	48
LT 1 F630	309	304	255	155	264	60	89	80
LT 1 E800	300	304	255	155	264	60	80	80

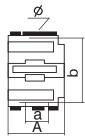
			Motor ra	ated capac	city (kW)			Coil capa	acity (VA)	Rated current in	Tightening mo-		Packing/Box	Catalogue
Type number	220V 230V	380V 400V	415V	440V	500V	660V 690V	1000V	closed	open	AC-3 440V to up	ment (N.m)	Coil voltage (V)	(pcs)	number
												230	1/4	23111
												400	1 / 4	23112
												12	1 / 4	23113
LT1 - F115	30	55	59	59	59	80	60	45	550	115 A	18	24	1/4	23114
												36	1/4	23115
												48	1/4	23116
												110	1/4	23117
												230	1/4	23151
												400	1/4	23152
1.74	40	75	00	00	00	400	CF	45	FF0	450 A	٥٢	12	1/4	23153
LT1 - F150	40	75	80	80	90	100	65	45	550	150 A	25	24 36	1/4	23154
												48	1/4	23155 23156
												110	1/4	23157
												230	1/2	23861
												400	1/2	23862
												12	1/2	23863
LT1 - F225	63	110	110	110	129	129	100	55	805	225 A	35	24	1/2	23864
L11 1220	00	110	110	110	120	120	100	00	000	22071	00	36	1/2	23865
												48	1/2	23866
												110	1/2	23867
												230	1/2	23261
												400	1/2	23262
												12	1/2	23263
LT1 - F265	75	132	140	140	160	160	147	10	700	265 A	35	24	1/2	23264
												36	1/2	23265
												48	1/2	23266
												110	1/2	23267
LT1 - F400	110	200	220	250	257	280	185	18	1000	400 A	50	230	1/1	23751
L11-1400	110	200	220	230	231	200	100	10	1000	400 A	30	400	1/1	23752
LT1 - F630	200	335	375	400	400	450	450	25	1500	630 A	50	230	1/1	23771
211 1000	200	000	010	700		700	700	20	1000	00071		400	1/1	23772
LT1 - F800	250	450	450	450	450	475	450	15	1300	800 A	50	230	1/1	23881
211 1000	200	700	700		700	710		10	1000			400	1/1	23882

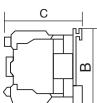




Standard EN60947-1; EN 60947-4-1

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"





LP1-D 09~95

The contactors LP1 D are alternating current contactors with constant current coil for control. The power plugs of the contactor are designed for control of alternating current circuits and consumers operating in normal operating class AC-3 with frequently switching on/off the consumer and dirty working environment. The contactors are suitable for consumers with electrical power consumption from 9A to 225A.

#### Functions:

- switching on/off alternating current consumers in direct current controlling schemes 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 contacts
- secured cover of the movable part of the contactor

- \* Rated operating voltage of the controlling coil: from 12V DC to 220V DC
- \* Rated operating voltage of the power circuit: up to 690V DC
- \* insulation voltage: 690V
- \* Surge voltage wear resistance: >8000V
- \* 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
- \* Electrical wear resistance (number of cycles):≥10000000
- \* 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

Type		Overa	all dimensions	(mm)	
Туре	Α	В	С	а	b
LP 1 D0910	47	76	95	34/35	50/60
LP 1 D1210	47	76	95	34/35	50/60
LP 1 D1810	47	76	95	34/35	50
LP 1 D2510	57	86	101	40	50
LP 1 D3210	57	86	101	40	50
LP 1 D4011	77	129	176	40	100
LP 1 D5011	77	129	176	40	100
LP 1 D6511	77	129	176	40	100
LP 1 D9511	87	129	182	40	100
LP 1 F115	163.5	170	171	40	150
LP 1 F150	163.5	170	171	40	150
LP 1 F225	168.5	197	181	48	172

Туре	Rated cur-	Auxiliary contact	R	ated capac	ity of the co	nsumer (kV	V)	Packing/		Catalogue nu	ımber accordir	ng to the coil vo	oltage (V DC)	
Турс	rent (A)	(pcs.)	230V	400V	415V	440V	690V	Box (pcs)	12	24	36		110	230
LP 1 D0910	9	1NO	2.20	4.00	4.00	4.00	5.50	1/40	23962	23098	23130	23971	23980	23139
LP 1 D1210	12	1NO	3.00	5.50	5.50	5.50	7.50	1/40	23963	23128	23131	23972	23981	23140
LP 1 D1810	18	1NO	4.00	7.50	7.50	7.50	10.0	1/40	23964	23188	23132	23973	23982	23141
LP 1 D2510	25	1NO	5.50	11.0	11.0	11.0	15.0	1/30	23925	23258	23133	23974	23983	23142
LP 1 D3210	32	1NO	7.50	15.0	15.0	15.0	18.5	1/30	23966	23328	23134	23975	23984	23143
LP 1 D4011	40	1NO+1NC	11.0	18.5	18.5	18.5	30.0	1/10	23967	23408	23135	23976	23985	23144
LP 1 D5011	50	1NO+1NC	15.0	22.0	22.0	22.0	33.0	1/10	23968	23508	23136	23977	23986	23145
LP 1 D6511	65	1NO+1NC	18.5	30.0	30.0	30.0	37.0	1/10	23969	23658	23137	23978	23987	23146
LP 1 D9511	95	1NO+1NC	25.0	45.0	45.0	45.0	45.0	1/10	23970	23958	23138	23979	23988	23147
LP 1 F115	115	1NO	30.0	55.0	59.0	59.0	80.0	1/4	23911	23118	23914	23917	23989	23148
LP 1 F150	150	1NO	40.0	75.0	80.0	80.0	100	1/4	23912	23158	23915	23918	23990	23149
LP 1 F225	225	1NO	63.0	110	110	110	129	1/2	23913	23228	23916	23919	23994	23201





Standard EN60947-1; EN 60947-4-1

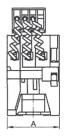
The products are in accordance with the directives of EC "Low voltage directives (LVD) no. 73/23 EEC" and "Electromagnetic Compatibility Directives (EMC) no. 89/336 EEC"

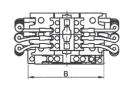
The AC contactors CJ19-43 are specially designed electrical devices for commutation of three phase capacitors used for power correction. They are alternating current contactor LT1 Dxx with mounted a group for peak current lowering from the transitional process of the capacitor's switching on/off. This group is a combination of current limiting resistors, switched on in the beginning of the transitional process (switching on/off of the capacitor group). The contactors are suitable for capacitors with rate up to 50 kVAr.

#### **Functions:**

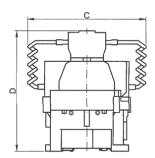
- switching on/off of capacitors for reactive power compensation
- making of systems for compensation of the energy reactive component
- lowering of the peak transitional currents at switching on/off of the capacitor
- remarkable with high reliability of current characteristics
- reliable separation of power contacts
- secured part of the contactor against consumer contact
- do not allow manual operation

- \* Operation class: AC 6
- \* Rated operating voltage of the controlling coil: 230V AC; 50/60Hz
- \* Rated operating voltage of the power circuit: up to 690V AC
- \* insulation voltage: 690V
- \* Surge voltage wear resistance: >8000V
- \* Limits of the controlling coil voltage: from 0.8 to 1.15 Uc
- \* Number of the contacts: 3 NO power contacts +1NO operative
- \* Joining terminal: screw terminal
- \* Connecting:
- flexible conductors with or without cable terminal
- rigid conductors
- \* Electrical wear resistance (number of cycles):≥300000
- \* Mechanical wear resistance (number of cycles):≥1000000
- \* Number of cycles (switching on) per hour: up to 600
- \* 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





Type	Overall dimensions (mm)					
Туре			С	D		
CJ19-32 DPK	56	74	130	150		
CJ19-40 DPK	75	127	180	150		
CJ19-65 DPK	85	127	200	157		
CJ19-95 DPK	85	127	200	157		
CJ19-115DPK	122	165	230	157		
CJ19-150DPK	122	165	230	157		
CJ19-170DPK	122	165	230	157		



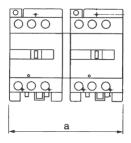
Туре	Rated current (A)	Rated capacity of the consumer (kVAr)		Coil voltage	Packing/Box (pcs)	Catalogue number
	400/440V 690V		(V)			
CJ19-32 DPK	32	8	12.5	230	1/20	23932
CJ19-32 DPK	32	8	12.5	400	1/20	23910
CJ19-40 DPK	40	12.5	15	230	1/16	23900
CJ19-40 DPK	40	12.5	15	400	1/16	23940
CJ19-65 DPK	65	25	30	230	1/16	23961
CJ19-65 DPK	65	25	30	400	1/16	23965
CJ19-95 DPK	95	30	36	230	1/16	23909
CJ19-95 DPK	95	30	36	400	1/16	23995
CJ19-115 DPK	115	35	40	230	1/4	23991
CJ19-150 DPK	150	40	50	230	1/4	23992
CJ19-170 DPK	170	50	60	230	1/4	23993

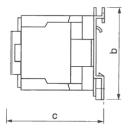




Standard EN60947-1; EN 60947-4-1

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 4-Dxx series contactors are specially designed electromagnetic devices for commutation of three phase induction motor with reversing controlling scheme. They represent two alternating current contactors LT 4-Dxx series factory mechanically joined together. The mechanical joining also provides locking of the contactors against simultaneous switching on. The contactor is used for reverse control of induction motors with shortly joined rotor. The contactors from the series are offered for consumers up to 95A.

#### Functions:

- switching on of electrical motors in one direction of rotation and reversing of the rotation direction at outside command
- making of control systems
- remarkable with high reliability of current characteristics
- reliable switching on or separation of power contacts
- secured part of the contactors against consumer contact
- secured cover of the movable part of the contactor
- impossibility for simultaneous switching on of the two contactors from the group due to mechanical locking

## Technical data:

- \* Operation class: AC 3
- \* Rated operating voltage of the controlling coil: 230V AC; 50/60 Hz
- \* Rated operating voltage of the power circuit: up to 690V AC
- \* insulation voltage: 690V
- \* Surge voltage wear resistance: >8000V
- \* Limits of the controlling coil voltage: from 0.8 to 1.15 Uc
- \* Number of plugs: 3 NO power contacts +1NO operative (for contactors over 40A there is also additional 1NC contact)
- \* Joining terminal: screw terminal
- \* Connecting:
- flexible conductors with or without cable terminal
- rigid conductors

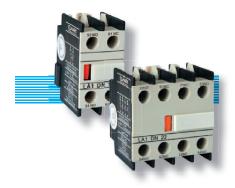
Note: The contactors are offered without fabric cabling

- \* Electrical wear resistance (number of cycles):≥1 000 000
- \* Mechanical wear resistance (number of cycles):≥10 000 000
- \* Number of cycles (switching on) per hour: up to 600
- \* 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

Type	Overall dimensions (mm)				
туре	Α	В	С		
LT 4 - D1810	100	70	83		
LT 4 - D2510	130	80	98		
LT 4 - D3210	130	80	105		
LT 4 - D4011	167	126	116		
LT 4 - D6511	167	126	116		
LT 4 - D9511	182	127	127		

Time	Dated aureat (A)	Rated capacity of the consumer (kW)					Dealine (Dev (nee)	Oatala assa assa bas
Туре	Rated current (A)	230V	400V	415V	440V	690V	Packing/Box (pcs)	Catalogue number
LT 4 D1810	18	4	7.5	7.5	7.5	10	1 / 20	23301
LT 4 D2510	25	5.5	11	11	11	15	1 / 20	23302
LT 4 D3210	32	7.5	15	15	15	18.5	1 / 20	23303
LT 4 D4011	40	11	18.5	18.5	18.5	30	1/8	23304
LT 4 D6511	65	18.5	30	30	30	37	1/8	23305
LT 4 D9511	95	25	45	45	45	45	1/6	23306





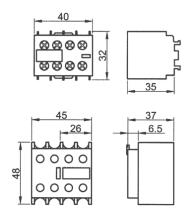
Standard EN 60947-4-1
The products are in accordance with the directives of EC "Low voltage directives (LVD) no. 73/23 EEC" and "Electromagnetic Compatibility Directives (EMC) no. 89/336 EEC"

## **Auxiliary contacts**

At necessity the element provide auxiliary number of contacts. They are specially designed for mounting on the movable part of the magnetic core of the contactors LT 1K/D series.

## Functions:

- extending the number of the operative contactors up to 4 in different Combinations  $% \left( 1\right) =\left( 1\right) \left( 1\right) \left($
- switches on simultaneously with the other contact system of the contactor
- \* Operation class: AC 3
- \* insulation voltage: 690V
- \* Joining terminal: screw terminal
- \* Connecting:
- flexible conductors with or without cable terminal
- rigid conductors
- \* Mounting:
- on the movable cover of the contactor through pinching
- mounting position: vertical gradient maximum± 5°
- \* Plastic: wear resistance of UV rays and non-flammable (self-extinguishing material)



Туре	Number of contacts	Catalogue number
LT01-DN02	2NC	23002
LT01-DN11	NO+NC	23011
LT01-DN20	2NO	23020
LT01-DN22	2NO+2NC	23022
LT01-DN40	4NO	23040
LT01-DN04	4NC	23004
LT01-KN11	NO+NC	23001
LT01-KN22	2NO+2NC	23003





## **Auxiliary contacts LT03-DN11**

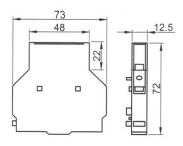
Providing on necessity additional number of plug points and are mounted sideward to the movable part of the magnetic cores of contactors of the series LT1 D. Variants with two additional plug points NO and NC are offered.

## Functions:

- expanding the number of the operational plug points
- switching on simultaneously with the rest of the contact system of the contactor

## **Technical characteristics:**

- \* Environment operational regime: AC 3
- \* Insulation voltage: 690V
- \* Double connector: screw connector
- \* Connection:
- flexible conductors with or without cable end
- solid conductors
- \* Mounting method:
- mounting position sideward to the contactor
- \* Plastic: resistant to UV and non-burning (self-extinguishing material)

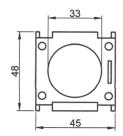


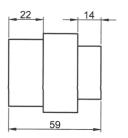
Туре	Catalogue number
LT03-DN11	23311



## Time delay contact block LT02-Dxx

LT02-Dxx is designed to set time intervals from 0.1 to 180s in different control schemes. It is used most frequently in combination with contactors from LT1-Dxx series to form "star/delta" starters for electrical motor control, as it provides the necessary time for motor winding.

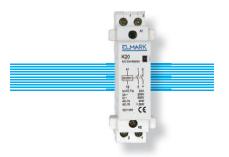




Туре	Number of contacts	Time delay	Catalogue number
LT02-DT0	NO+NC	0.1~3s	23901
LT02-DT2	NO+NC	0.1~30s	23902
LT02-DT4	NO+NC	10~180s	23903

## Module contactors K series





Documents corresponding to

The products are in accordance

with the directives of EC "Low

voltage directives (LVD) no.

73/23 EEC" and "Electromag-

netic Compatibility Directives

(EMC) no. 89/336 EEC"

the product:

Standard EN 61095

Modular contactors K series are used for commutation of mono-phase and three-phase low power electrical consumers. They provide connection between the consumers in small overall dimensions, silent work, mounting only at DIN-rails.

## Functions:

- switching on of consumers
- making of control systems
- remarkable with high reliability of current characteristics
- reliable switching on or separation of power contacts

- \* Operation class: AC 7a
- \* Rated operating voltage of the controlling coil: 230V AC; 50/60 Hz
- \* Rated operating voltage of the power circuit: up to 690V AC
- \* insulation voltage: 690V
- \* Surge voltage wear resistance: >8000V
- \* Joining terminal: screw terminal
- \* Connecting:
- flexible conductors with or without cable terminal
- rigid conductors
- \* Mounting:
- on DIN-rail or
- 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



Туре	ln	Coil voltage (V)	Contacts	Packing/Box (pcs)	Catalogue number
K20	20A	230V	2NO	1 / 17 / 170	23008
K20	20A	230V	NO+NC	1 / 17 / 170	23007
K20	20A	230V	2NC	1 / 17 / 170	23009
K40	40A	230V	2NO+2NC	1 / 5 / 50	23422
K40	40A	230V	4NO	1 / 5 / 50	23409

