

TECHNICAL SPECIFICATION

Low voltage contactors with direct current coil LP-1D



Description:

The contactors LP1 D are alternating current contactors with DC operating of 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

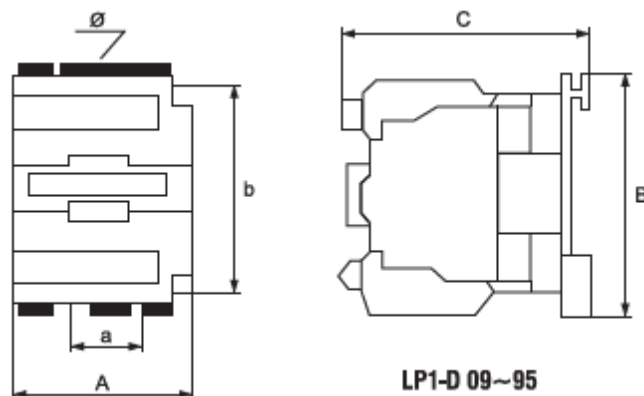
Technical data:

- Rated operating voltage of the 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: operating range of coil
- 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
- Plastic: wear resistance of UV rays and non-flammable (self-extinguishing material)
- 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 $\pm 5^\circ$
- Ambient temperature: $-10^\circ\text{C} + 65^\circ\text{C}$
- Altitude: up to 2000m

Dimensions:



Type	A	B	C	a	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

Variants:

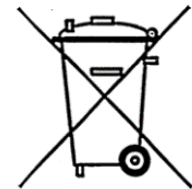
Type	Rated current (A)	Auxiliary contact (pcs)	Rated capacity of the consumer (kW)					Packing / box (pcs)
			230V	400V	415V	440V	690V	
LP 1 D0910	9	1NO	2.20	4.00	4.0	4.0	5.50	1 / 40
LP 1 D1210	12	1NO	3.00	5.50	5.50	5.50	7.50	1 / 40
LP 1 D1810	18	1NO	4.00	7.50	7.50	7.50	10.0	1 / 40
LP 1 D2510	25	1NO	5.50	11.0	11.0	11.0	15.0	1 / 30
LP 1 D3210	32	1NO	7.50	15.0	15.0	15.0	18.5	1 / 30
LP 1 D4011	40	1NO+1NC	11.0	18.5	18.5	18.5	30.0	1 / 10
LP 1 D5011	50	1NO+1NC	15.0	22.0	22.0	22.0	33.0	1 / 10
LP 1 D6511	65	1NO+1NC	18.5	30.0	30.0	30.0	37.0	1 / 10
LP 1 D9511	95	1NO+1NC	25.0	45.0	45.0	45.0	45.0	1 / 10
LP 1 F115	115	1NO	30.0	55.0	59.0	59.0	80.0	1 / 4
LP 1 F150	150	1NO	40.0	75.0	80.0	80.0	100	1 / 4
LP 1 F225	225	1NO	63.0	110	110	110	129	1 / 2

Type	Catalogue number according to the coil voltage (V DC)					
	12V	24V	36V	48V	110V	230V
LP 1 D0910	23962	23098	23130	23971	23980	23139
LP 1 D1210	23963	23128	23131	23972	23981	23140
LP 1 D1810	23964	23188	23132	23973	23982	23141
LP 1 D2510	23925	23258	23133	23974	23983	23142
LP 1 D3210	23966	23328	23134	23975	23984	23143
LP 1 D4011	23964	23408	23135	23976	23985	23144
LP 1 D5011	23968	23508	23136	23977	23986	23145
LP 1 D6511	23969	23658	23137	23978	23987	23146
LP 1 D9511	23970	23958	23138	23979	23988	23147
LP 1 F115	23911	23118	23914	23917	23989	23148
LP 1 F150	23912	23158	23915	23918	23990	23149
LP 1 F225	23913	23228	23916	23919	23994	23201

Standards:

Standard EN60947-1;

EN 60947-4-1



The products are in accordance with the directives of EC “Low voltage directives (LVD) no. 2006/95/EC” and “Electromagnetic Compatibility Directives (EMC) no. 2004/108/EC”