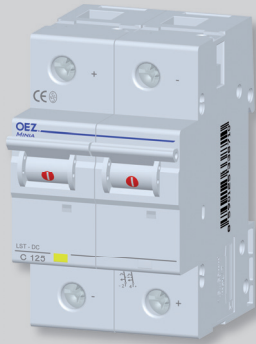


MINIATURE CIRCUIT BREAKERS LST-DC



LST-DC-125C-2



PS-LS-1100

- Series of miniature circuit breakers up to 125 A / DC 440 V.
- For protection of cables and conductors against overload and short-circuit.
- Tripping characteristics C according to EN 60898-1.
- Breaking capacity I_{cn} 10 kA.
- Possibility of sealing in on or off position.
- Device polarity must be always observed in connecting.

Circuit breakers for direct current (DC), 2-pole

I_n [A]	Characteristic C		Number of modules	Weight [kg]	Package [pcs]
	Type	Order code			
80	LST-DC-80C-2	OEZ:37241	3	0,45	2
100	LST-DC-100C-2	OEZ:37242	3	0,45	2
125	LST-DC-125C-2	OEZ:37243	3	0,45	2

Accessories


Auxiliary switch PS-LS

Arrangement of contacts ¹⁾	Type	Order code	Number of modules	Weight [kg]	Package [pcs]
11	PS-LS-1100	OEZ:35664	0,5	0,043	1

¹⁾ Each digit indicates successively the number of make and break contacts.

MINIATURE CIRCUIT BREAKERS LST-DC

Specifications

Type	LST-DC	
Standards	EN 60898-1	
Approval marks		
Number of poles	2	
Tripping characteristics	C	
Rated current	I_n	80, 100, 125 A
Rated operating voltage	U_e	DC 440 V
Max. operating voltage	U_{max}	DC 448 V
Min. operating voltage (1 pole)	U_{min}	DC 12 V
Rated short-circuit ultimate breaking capacity (EN 60947-2)	I_{cu}	DC 10 kA ($t \leq 5$ ms)
Rated short-circuit service breaking capacity (EN 60947-2)	I_{cs}	DC 100 % I_{cu}
Electrical endurance	4 000 operating cycles	
Mechanical endurance	10 000 operating cycles	
Mounting on "U" rail according to EN 60715 - Type	TH 35	
Degree of protection - with connected conductors	IP20	
Connection		
Conductor Cu - rigid (solid, stranded)	1.5 ÷ 50 mm ² , 2x 16 mm ²	
Torque	3.5 Nm	
Top or bottom connection	top/bottom ¹⁾	
Operating conditions		
Ambient temperature	°C	-30 ÷ +55 °C
Working position	arbitrary	
Seismic resistance	EN 980: 1993 ²⁾	

¹⁾ It is necessary to keep the polarity marked on the circuit breaker.

²⁾ It passed the seismic tests for NPP Dukovany and Temelín.

Internal impedance Z, powers losses P, impedance of fault loop Z_s

I_n [A]	Z ¹⁾ [mΩ/pole]	P ¹⁾ [W/pole]	Max. impedance of fault loop for TN network Z _s [Ω] ²⁾	
			t ≤ 5 s (for U _e 220 V DC)	t ≤ 0,1 s (for U _e 440 V DC)
80	0.91	5.79	0.49	0.79
100	0.80	8.03	0.39	0.63
125	0.61	9.46	0.31	0.50

¹⁾ Average values per protected pole.

²⁾ According to EN 60364-4-41; times t ≤ 5 and 0,1 s are disconnection times.

Correction of rated currents of miniature circuit breakers LST-DC

I_n [A]	Correction of rated currents for ambient temperature -30 °C up to +60 °C [A] ¹⁾									
	-30 °C	-20 °C	-10 °C	0 °C	10 °C	20 °C	30 °C	40 °C	50 °C	60 °C
80	104.0	104.0	100.0	96.0	92.0	88.0	80	74.4	70.4	67.2
100	130.0	130.0	125.0	120.0	115.0	110.0	100	93.0	88.0	84.0
125	162.5	162.5	156.3	150.0	143.8	137.5	125	116.3	110.0	105.0

¹⁾ Valid for 1 pole and any characteristic, reference temperature: 30 °C.

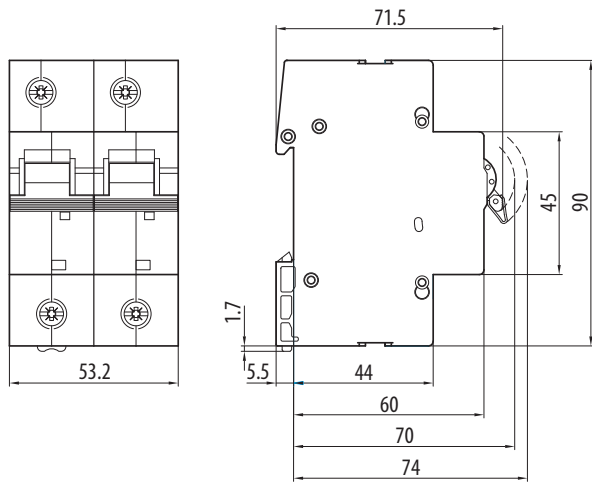
	Correction of rated currents of miniature circuit breakers installed side by side [A] ²⁾				
	1	2	3	4	5
80		76.00	74.00	72.00	70.40
100		95.00	92.50	90.00	88.00
125		118.75	115.63	112.50	110.00

²⁾ Valid for reference temperature 30 °C.

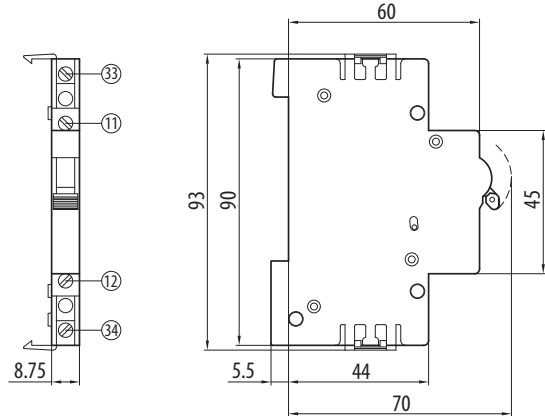
MINIATURE CIRCUIT BREAKERS LST-DC

Dimensions

LST-DC...-2

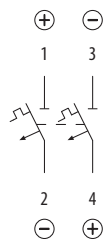


PS-LS-..

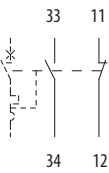


Diagram

LST-DC...-2



PS-LS-1100



Wiring diagram

2-pole connection of LST-DC

