

PARALLEL CONNECTION OF FUSE-LINKS



To increase the rated current of the fuses, the fuse-links can be connected in parallel as pairs of P50U... or quads of P50T06, provided the following conditions are met:

- Fuses for parallel connection must be of identical type and rated current with max. 5% difference of d.c. voltage drop. The suitable combinations are selected by the manufacturer on the basis of purchase order.
- Fuses are connected to the terminals for pairs or quads of fuse-links, which dimensional sketches are shown in this chapter.

Parameters of the sets:

- The values of power losses are approximately equal to the sum of values of power losses of individual fuses. The time/current characteristic of the set is identical to the time/current characteristic of individual fuse. The values of expected current must be multiplied by the number of fuses connected in parallel. The values of I^2t of the set are equal to the product of I^2t of individual fuse and square of the number of parallel fuses.

Example:

4 fuses connected in parallel with I^2t for selected current 50 000 A²s.

$$I^2t \text{ of the set: } : 50\,000 \times 4^2 = 800\,000 \text{ A}^2\text{s}$$

	I_n [A]	Type	Product code	I^2t total [A ² s]	Weight [kg]	Package [pcs]
P50T06	2x200	P50T06 2x200A aR	18279	104 000	0.700	1
	2x250	P50T06 2x250A aR	18280	204 000	0.700	1
	2x315	P50T06 2x315A aR	11208	420 000	0.700	1
	2x350	P50T06 2x350A aR	18281	520 000	0.700	1
	2x400	P50T06 2x400A aR	10526	680 000	0.700	1
P50U06	2x250	P50U06 2x250A aR	14800	114 000	1.200	1
	2x315	P50U06 2x315A aR	14906	214 000	1.200	1
	2x350	P50U06 2x350A aR	18282	254 000	1.200	1
	2x400	P50U06 2x400A aR	11837	448 000	1.200	1
	2x500	P50U06 2x500A aR	11887	800 000	1.200	1
	2x630	P50U06 2x630A aR	11840	1 760 000	1.200	1
P50U10	2x400	P50U10 2x400A aR	11296	1 040 000	1.380	1
	2x450	P50U10 2x450A aR	18283	1 600 000	1.380	1
	2x500	P50U10 2x500A aR	11297	2 320 000	1.380	1
	2x550	P50U10 2x550A aR	18284	3 000 000	1.380	1
	2x630	P50U10 2x630A aR	12313	3 400 000	1.380	1
P50V10	2x700	P50V10 2x700A aR	18285	4 400 000	1.750	1
P50U10S	2x400	P50U10S 2x400A aR	17017	1 040 000	1.390	1
	2x450	P50U10S 2x450A aR	12432	1 600 000	1.390	1
	2x500	P50U10S 2x500A aR	18122	2 320 000	1.390	1
	2x550	P50U10S 2x550A aR	18286	3 000 000	1.390	1
	2x630	P50U10S 2x630A aR	15535	3 400 000	1.390	1
P50V10S	2x700	P50V10S 2x700A aR	15463	4 400 000	1.760	1

Terminals for pairs of fuse-links connected in parallel must be ordered separately (2 pcs).

Parameters

Pairs of fuses for parallel connection

P50T06	P50U06	P50U10	P50V10	P50U10S	P50V10S
2 x 200 A	2 x 250 A	2 x 400 A	-	2 x 400 A	-
2 x 250 A	2 x 315 A	2 x 450 A	-	2 x 450 A	-
2 x 315 A	2 x 350 A	2 x 500 A	-	2 x 500 A	-
2 x 350 A	2 x 400 A	2 x 550 A	-	2 x 550 A	-
2 x 400 A	2 x 500 A	2 x 630 A	-	2 x 630 A	-
-	2 x 630 A	-	2 x 700 A	-	2 x 700 A

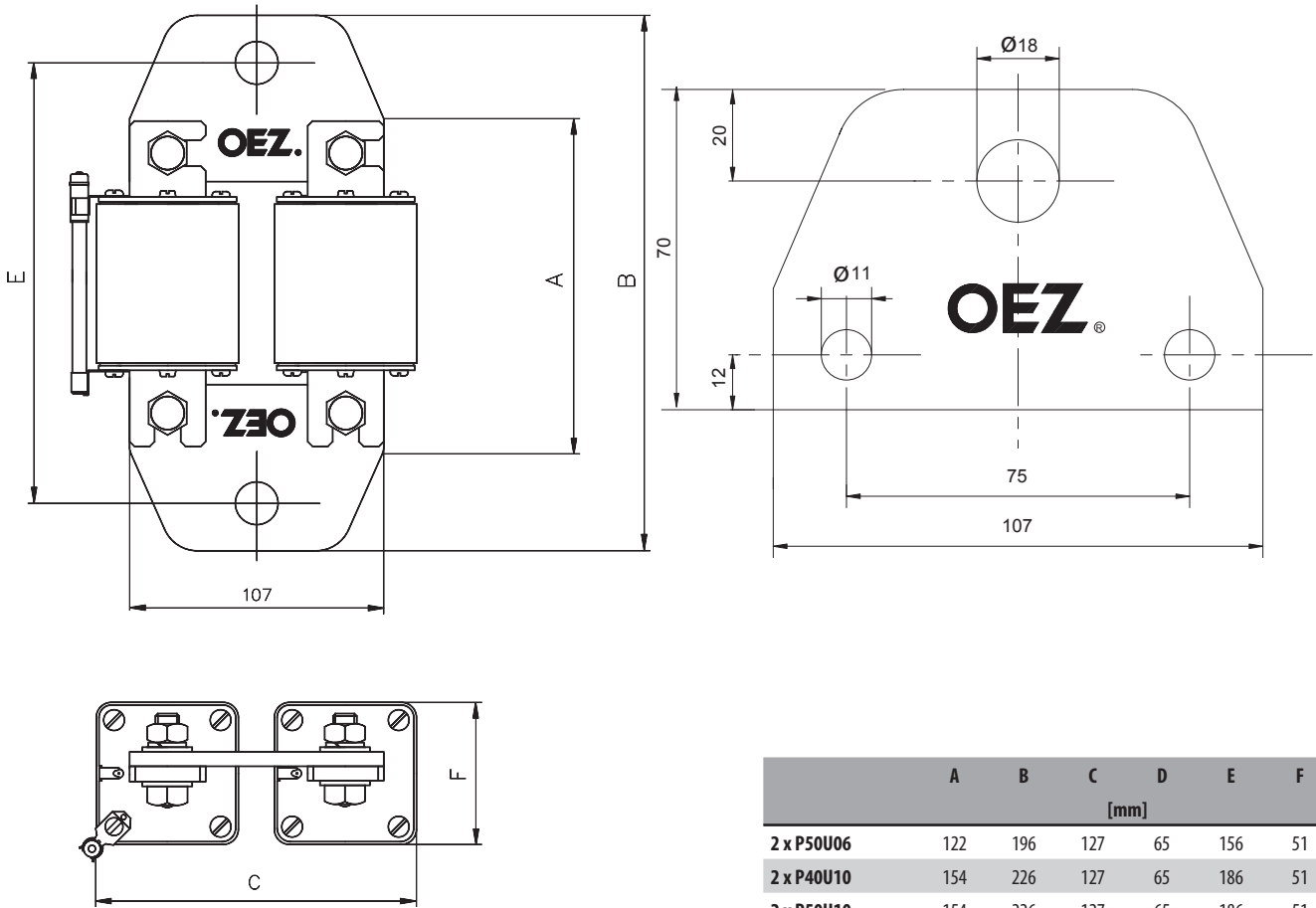
Terminals for pairs of fuse-links connected in parallel

I_n [A]	Type	Product code	Terminal thickness [mm]	Weight [kg]	Package [pcs]
400 ÷ 800	CS-P50TUV-2PS800	15585	3	0.165	5
1000	CS-P50TUV-2PS1000	15586	4	0.221	5
1250	CS-P50TUV-2PS1250	15587	5	0.277	5
1600	CS-P50TUV-2PS1600	15588	6	0.332	5

For connection of other number of fuse-links in parallel, it is recommended to contact the manufacturer.

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Dimensions



	A	B	C	D	E	F
	[mm]					
2 x P50U06	122	196	127	65	156	51
2 x P40U10	154	226	127	65	186	51
2 x P50U10	154	226	127	65	186	51