

# DATA SHEET

Capacitors for Power Electronics

DC Link Capacitor

**TYPE :** PVAJP 9510-2/2500-S-T3

**Standard:** IEC 61071; EN 61881

### CHARACTERISTICS

Rated Capacitance	$C_N$	2500 $\mu\text{F}$	$\pm 10\%$
Rated DC Voltage	$U_{N\text{DC}}$	2 000 $\text{V}_{\text{DC}}$	
Maximum Ripple Voltage	$U_r$	200 $\text{V}$	
Non-Recurrent Surge Voltage	$u_s$	3000 $\text{V}$	
Maximum RMS Current	$I_{\text{max}}$	330 $\text{A}$	
Maximum Peak Current	$\hat{i}$	30 $\text{kA}$	
Maximum Surge Current	$i_s$	90 $\text{kA}$	
Series Resistance	$R_s$	0,6 $\text{m}\Omega$	
Self Inductance	$L_s$	10 $\text{nH}$	
Dielectric Dissipation Factor	$\tan\delta_0$	$2 \times 10^{-4}$	

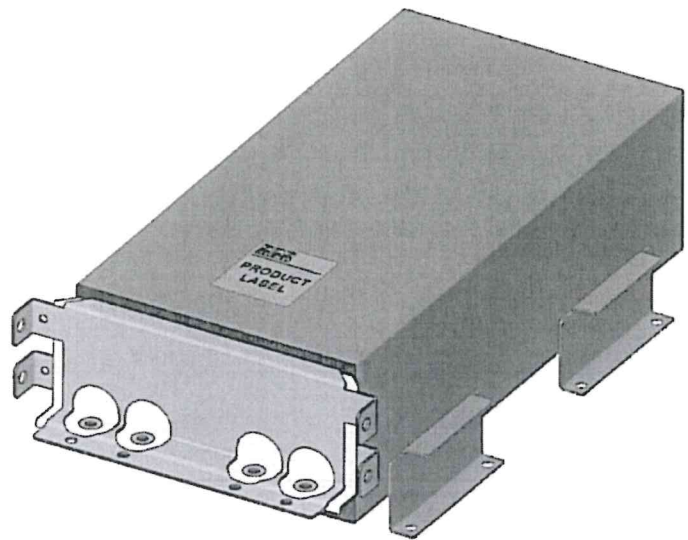
Overvoltage 1,1 $U_N$	30% / day	2200 $\text{V}_{\text{DC}}$
Overvoltage 1,15 $U_N$	30min / day	2300 $\text{V}_{\text{DC}}$
Overvoltage 1,2 $U_N$	5 min / day	2400 $\text{V}_{\text{DC}}$
Overvoltage 1,3 $U_N$	1 min / day	2600 $\text{V}_{\text{DC}}$
Overvoltage 1,5 $U_N$	100 ms / day	3000 $\text{V}_{\text{DC}}$

Case temperature	$\Theta_{\text{min/max}}$	-40/+85 $^{\circ}\text{C}$
Maximum Hotspot temperature	$\Theta_{\text{HS}}$	85 $^{\circ}\text{C}$
Storage temperature	$\Theta_{\text{storage}}$	-40/+85 $^{\circ}\text{C}$

Lifetime Expectancy	100 000 h
at Hotspot temperature	70 $^{\circ}\text{C}$
Failure Rate	100 FIT

### DIMENSIONS

Width	$W \pm 1$	250 mm
Depth	$D \pm 1$	145 mm
Height	$H \pm 1$	500 mm
Terminals	Flat copper - nickel coated	
Weight	m	24,0 kg



### TEST DATA

Test Voltage between terminals	$U_{T/T}$	3 000 $\text{V}_{\text{DC}}/10\text{s}$
Test Voltage terminals-case	$U_{T/C}$	6 000 $\text{V}_{\text{AC}}/10\text{s}$

### DESIGN

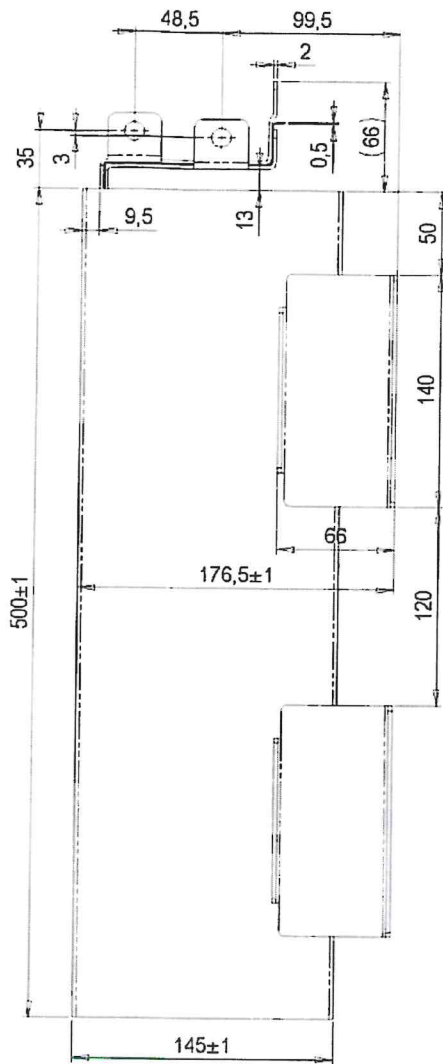
Dielectrics	MKP metallized polypropylene capacitor
Mechanical construction	Aluminium case, filled with polyurethan resin, complies UL-94,V0 Dry type, PCB and halogen free
Safety devices	Three thermal sensors Pt100 inside the capacitor, cable lenght 2 m Self healing system - SH, Protected - segmented film

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<b>PVAJP 9510-2/2500-S-T3</b>		DRW. No.	<b>3BP2317</b>	DRAWN	J.P. 23.4.2020
				APPV'D	V.F. 23.4.2020
	ZEZ SILKO, s.r.o. Pod Černým lesem 683 564 01 ŽAMBERK Czech Republic	tel : +420 465 673 111 fax : +420 465 612 319 e-mail: zez@zez-silko.cz http://www.zez-silko.cz		MODIFICATION	INDEX

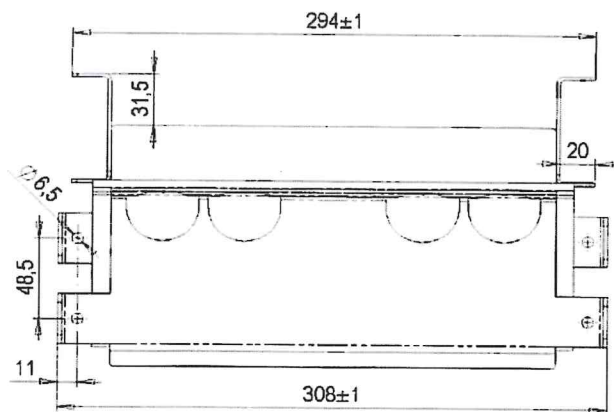
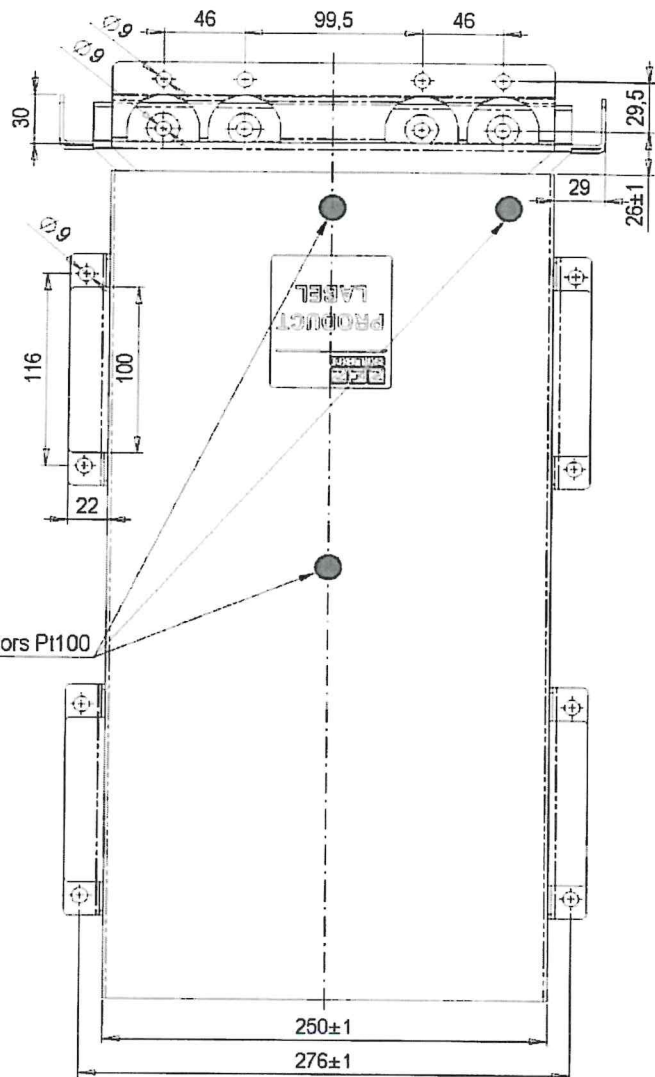
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Thermal sensors P1100



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	ZEZ SILKO, s.r.o. Pod Černým lesem 683 564 01 ŽAMBERK Czech Republic	tel: +420 465 673 111 fax: +420 465 612 319 e-mail: zez@zez-silko.cz <a href="http://www.zez-silko.cz">http://www.zez-silko.cz</a>	MODIFICATION		
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