

Electrolytic Capacitors and Operating Voltages

EL series capacitors by COMAR guarantee 2 working voltages in a single component: 250 Vac and 330 Vac. This means satisfying most application needs, with a single product.

The ON Time with respect to the Total Insertion Time is equal to:

- **1.70%**, or 20 turns on / hour of 3 seconds every 3 minutes at **250 Vac**;
- **0.55%**, or 20 turns on / hour of 1 second every 3 minutes at **330 Vac**.

For a correct use of the EL electrolytic capacitor, the maximum and minimum ON / OFF insertion values - indicated below - shall be respected:

Hourly Insert.	SD= $t_{ON}+t_{OFF}$ of the cycle (s)	Ue=250V		Ue=330V	
		ED= 1,70%		ED= 0,55%	
		t_{ON}	t_{OFF}	t_{ON}	t_{OFF}
20	180,0	3,06	176,94	0,99	179,01
40	90,0	1,53	88,47	0,50	89,51
60	60,0	1,02	58,98	0,33	59,67
80	45,0	0,77	44,24	0,25	44,75
100	36,0	0,61	35,39	0,20	35,80
120	30,0	0,51	29,49	0,17	29,84
140	25,7	0,44	25,28	0,14	25,57
160	22,5	0,38	22,12	0,12	22,38
180	20,0	0,34	19,66	0,11	19,89
200	18,0	0,31	17,69	0,10	17,90

Valid values for working frequency at 50 HZ, ambient temperature <40° C and n. 20 hourly max.

The relationship between the Number of Insertions and the ON Time is therefore shown:

