



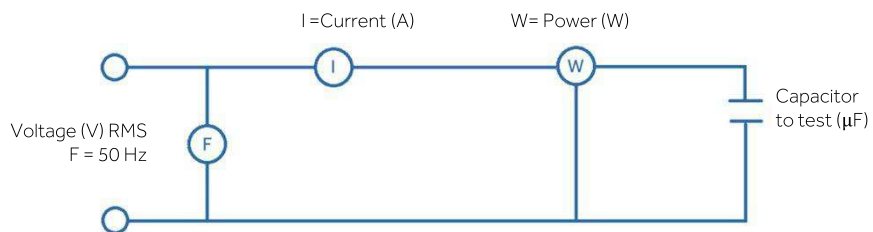
The **EL** electrolytic capacitor have **high capacitance** ( $\mu\text{F}$  value) able to provide an high starting torque to the motor. It is a non polarized capacitor especially designed for intermittent AC voltage applications for single-phase motors.

### PERFORMANCE DATA

- **Rated Voltage**                    **320 Vac** (capacitance  $\leq 315 \mu\text{F}$ )  
    **250 Vac** (capacitance  $\geq 315 \mu\text{F}$ )
- **Rated Frequency**                **50 / 60 Hz**
- **Capacitance Range**              **from 25  $\mu\text{F}$  to 550  $\mu\text{F}$**
- **Capacitance Tolerance**        **- 0% + 25% or -/+ 10%**
- **Working Condition**            **The standard time rating defined of IEC 252 is 1,67% full time and corresponds to a duty cycle of 3 seconds on and 177 seconds off.**

### TECHNICAL DATA

- Operating Temperature**             $-45 \text{ }^\circ\text{C} / +65 \text{ }^\circ\text{C}$  (higher temperatures on request)
- Storage Temperature**             $-40 \text{ }^\circ\text{C} / +70 \text{ }^\circ\text{C}$
- Endurance test**                      500 h
- Dissipation Loss Angle**            Measurement frequency: 50 Hz, the typical value shall not exceed 0,10, calculated as follows:  
 $\text{Tan } d = W / (V \times I) = (\text{true watts} / \text{apparent watts})$
- Capacitance Measurement**        Capacitance shall be determined by measuring the current – after 2/3 sec. of energizing – through the capacitor at rated voltage and frequency.  
 The capacitance is defined as follows:  $C = (I \times 10^6) / 2 \pi^2 \times f \times V$



### TYPICAL VALUES

For Single-phase Motor	<i>kW</i>	0,074	0,183	0,368	0,552	0,736	1,104	1,472
	<i>HP</i>	1/10	1/4	1/2	3/4	1	1,5	2
220 V		20 $\mu\text{F}$	50 $\mu\text{F}$	100 $\mu\text{F}$	150 $\mu\text{F}$	200 $\mu\text{F}$	300 $\mu\text{F}$	-
280 V		10 $\mu\text{F}$	25 $\mu\text{F}$	50 $\mu\text{F}$	80 $\mu\text{F}$	100 $\mu\text{F}$	150 $\mu\text{F}$	200 $\mu\text{F}$

Note: the indicated voltages are the working capacitor voltages

### STANDARDS AND APPROVALS

- Reference standards**            CEI EN 60252-2 (capacitor); UL 810; CEI EN 60695-11-10 (electrolyte).
- Homologation**                JIS C 4905 IMQ CE 133-3; SEV 1029; EIA RS 463; CQC
- Directives**                      It complies with the RoHs Directive

## CONFIGURATION

Table

Type	Cn ( $\mu$ F)	Rated Voltage	Dimension D x H <sub>1</sub> /H <sub>2</sub> (mm)
8140610	25 - 31,5	250/320	46 x 85/98
8140710	31,5 - 40	250/320	46 x 85/98
8140810	40 - 50	250/320	46 x 85/98
8140910	50 - 63	250/320	46 x 85/98
8141010	63 - 80	250/320	46 x 85/98
8141110	80 - 100	250/320	46 x 85/98
8141210	100 - 125	250/320	46 x 85/98
8141310	125 - 160	250/320	46 x 85/98
8141410	160 - 200	250/320	46 x 85/98
8141510	200 - 250	250/320	46 x 85/98
8141610	250 - 315	250/320	46 x 85/98
8141710	315 - 400	250	46 x 85/98
8141810	400 - 480	250	46 x 85/98
8141910	450 - 550	250	46 x 85/98

Other solutions are available on request.

## Optional requests:

- **Protective cap**, code 730050;
- **Mounting bracket**, code 565008;
- **Bipolar cable**, length 300 mm with Female Faston 6.35 mm, code 7850694;
- EL Capacitors can be equipped with **Resistors** (codes on request);
- EL Capacitors can be supplied in a more compact version, with a **diameter of 36.5 mm** (codes on request).

## MECHANICAL CONFIGURATION

Case	Plane base self-extinguishing (V2) plastic case
Finishing	Double faston terminal. Size = 6,3 x 0,8 mm
Figure	