



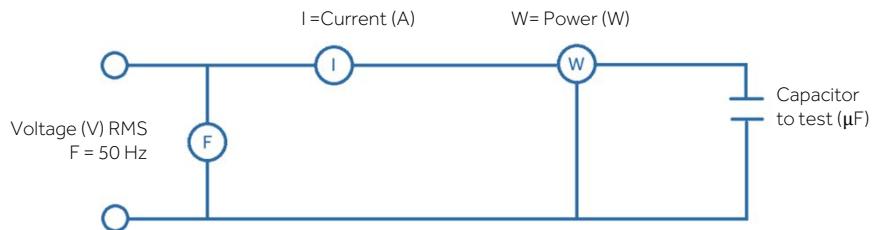
## PERFORMANCE DATA

- Rated Voltage 250 Vac
- Rated Frequency 50 / 60 Hz
- Capacitance Range from 25  $\mu$ F to 550  $\mu$ F
- Capacitance Tolerance 0% + 20% o -/+ 10% (0% + 22% for 8141910)
- Operating class:  
250 Vac The standard time rating defined of IEC 60252 is 1,7% full time and corresponds to a duty cycle of 3 seconds on and 177 seconds off.
- 330 Vac The standard time rating defined of IEC 60252 is 0,55% full time and corresponds to a duty cycle of 1 second.

The EL electrolytic capacitor have **high capacitance** ( $\mu$ 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.

## TECHNICAL DATA

Operating Temperature	-45 °C / +65 °C (higher temperatures on request)
Storage Temperature	-40 °C / +70 °C
Endurance test	500 h
Dissipation Loss Angle	Measurement frequency: 50 Hz, the typical value shall not exceed 0,10, calculated as follows: $\tan \delta = W / (V \times I) = (\text{true watts} / \text{apparent watts})$
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	kW HP	0,074	0,183	0,368	0,552	0,736	1,104	1,472
		1/10	1/4	1/2	3/4	1	1,5	2
220 V		20 $\mu$ F	50 $\mu$ F	100 $\mu$ F	150 $\mu$ F	200 $\mu$ F	300 $\mu$ F	-
280 V		10 $\mu$ F	25 $\mu$ F	50 $\mu$ F	80 $\mu$ F	100 $\mu$ F	150 $\mu$ F	200 $\mu$ 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 (mm)
8140610	25 - 30	250 V	46 x 85
8140710	31,5 - 37	250 V	46 x 85
8140810	40 - 48	250 V	46 x 85
8140910	50 - 60	250 V	46 x 85
8141010	64 - 77	250 V	46 x 85
8141110	80 - 96	250 V	46 x 85
8141210	100 - 120	250 V	46 x 85
8141310	125 - 150	250 V	46 x 85
8141410	160 - 192	250 V	46 x 85
8141510	200 - 240	250 V	46 x 85
8141610	250 - 300	250 V	46 x 85
8141710	315 - 378	250 V	46 x 85
8141810	400 - 480	250 V	46 x 85
8141910	450 - 550	250 V	46 x 85

Other solutions are available on request.

Optional requests:

- Protective cap , code 730046;
- 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 plastic case
Finishing	Double faston terminal. Dimension = 6,3 x 0,8 mm
Figure	<p>The figure contains several technical drawings illustrating the mechanical configuration of the capacitors:</p> <ul style="list-style-type: none"> <li><b>Mounting bracket:</b> A circular bracket with a central hole of diameter Ø and outer dimensions of Ø43.45 mm. A side view shows a thickness of 13.78 mm.</li> <li><b>Closure Cap:</b> A cylindrical component with a flange. Dimensions shown include 19.50, 38.00, Ø12.40, 28.00, 39.25, 39.25, 98.00, 18.24, 9.45, 1.85, D ±0.50, L +0.50 / -0.76, and F.</li> <li><b>Base dimensions:</b> Two views of the base showing height L +0.50 / -0.76, width D ±0.50, and thickness 1.85.</li> <li><b>Terminal detail:</b> A top-down view of the terminals with a distance of 6.32 ± 0.10 between them and a height of 9.50.</li> </ul>