

# EL

## Motor Start Electrolytic Capacitors



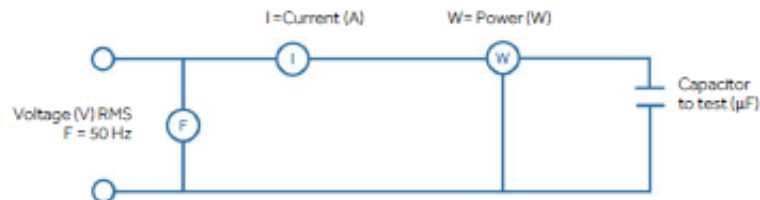
The **EL** electrolytic capacitor have **high capacitance** ( $\mu\text{F}$  value) able to provide an high starting torque to the motor. It is a non polarized capacitor especially designed for intermittent AC voltage applications for single-phase motors.

### PERFORMANCE DATA

- Rated Voltage 250 Vac
- Rated Frequency 50 / 60 Hz
- Capacitance Range from 25  $\mu\text{F}$  to 550  $\mu\text{F}$
- 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.

### 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:  
 $\text{Tan } d = W / (V \times I) = (\text{true watts} / \text{apparent watts})$
- 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	kW	0,074	0,183	0,368	0,552	0,736	1,104	1,472
	HP	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

Standard version:

Type	Cn ( $\mu$ F)	Dimension D x H (mm)
8140610	25 - 30	46 x 85
8140710	31.5 - 37	46 x 85
8140810	40 - 48	46 x 85
8140910	50 - 60	46 x 85
8141010	64 - 77	46 x 85
8141110	80 - 96	46 x 85
8141210	100 - 120	46 x 85
8141310	125 - 150	46 x 85
8141410	160 - 192	46 x 85
8141510	200 - 240	46 x 85
8141610	250 - 300	46 x 85
8141710	315 - 378	46 x 85
8141810	400 - 480	46 x 85
8141910	450 - 550	46 x 85

Optional requests:

- Protective cap, code 730046
- Mounting bracket, code 565008;
- Bipolar cable, length 300 mm with Female Faston 6.35 mm, code 7850694;

**MECHANICAL CONFIGURATION**

