



ELECTRICAL COMPONENTS SDN BHD

THE FIRST CHOICE IN ENERGY EFFICIENCY



825 Series Lighting Capacitor

Lighting Capacitor is used in Fluorescent Fittings, Street Lanterns and with other High Intensity Discharge Lamps in parallel connection.

Why You Need Capacitor?

Most of the power distribution authorities have a requirement of high power factor for lighting fittings of generally 0.85 to 0.90 minimum.

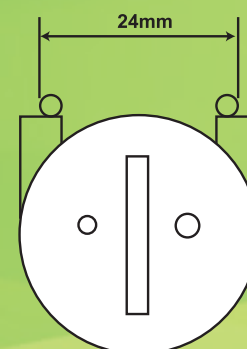
A typical Fluorescent circuit without power factor correction has an inherent low power factor (around 0.4 to 0.5), due to the control gear inductance. This inductance is in the circuit to stabilize the pulsation of the current passing through the lamp. As in the case of lighting fittings where many lamps are used, high input current is recorded thus high cost of electricity.

The inclusion of a Capacitor which has an opposite effect of an inductor can raise the power factor and reduce the current drawn from the mains. This will result in savings in electricity cost and equipment cost in terms of reduction in copper and transformer size.

PRODUCT CHARACTERISTICS

No.	Specifications	825N Series	825P Series
1	Construction	Plastic Case	
2	Type	Dry, Self-Healing	
3	Dielectric	Bi-axially Oriented Polypropylene	
4	Applications	Parallel Lighting Compensation	
5	Rated Voltage(Un)	240 / 250 Vac	
6	Rated Frequency(Fn)	50 Hz / 60 Hz	
7	Capacitance Tolerance	±10%	+10% / - 0%
8	Temperature rating	-25°C to +85°C	
9	Dissipation Factor	$\text{tg}\delta \leq 30 \times 10^{-4}$	
10	Case material	Plastic Self-Extinguishing According To UI 94 Standard	
11	Terminals	Standard - Flying leads 200mm length Optional - BJB Capacitor Connector	
12	Fixing / Screw Torque	Side Clip and/or M8 Stud / < 4Nm	
13	Discharge Resistor	Yes	
14	Safety Protection Class	Type A	
15	Standards	IEC61048:2006 (Safety) / IEC61049:1991(Performance)	
16	RoHS Compliance	Yes	
17	Declaration	(a) The capacitor type 825series does not contain any substance associated with PCB. (b) It does not contain substance which is liquid at ($t_c + 10^\circ\text{C}$) = 95°C	

Fixing Options



Side-Clip



Stud M8 X 10mm

Product Code	μf	Voltage	Pieces Per Box	Can Dimension [OD \pm 1.0]mm x [H \pm 2.0]mm
825*ELCO0020	2.00	240/250	130	30 x 58
825*ELCO0025	2.50	240/250	130	30 x 58
825*ELCO0030	3.00	240/250	130	30 x 58
825*ELCO0032	3.25	240/250	130	30 x 58
825*ELCO0034	3.40	240/250	130	30 x 58
825*ELCO0035	3.50	240/250	130	30 x 58
825*ELCO0040	4.00	240/250	130	30 x 58
825*ELCO0045	4.50	240/250	130	30 x 58
825*ELCO0050	5.00	240/250	130	30 x 58
825*ELCO0055	5.50	240/250	130	30 X 58
825*ELCO0060	6.00	240/250	100	35 X 58
825*ELCO0065	6.50	240/250	100	35 X 58
825*ELCO0070	7.00	240/250	100	35 X 58
825*ELCO0075	7.50	240/250	100	35 X 58
825*ELCO0080	8.00	240/250	100	35 X 58
825*ELCO0084	8.40	240/250	100	35 X 58
825*ELCO0090	9.00	240/250	100	35 X 58
825*ELCO0100	10.00	240/250	100	35 X 58
825*ELCO0115	11.50	240/250	85	35 X 75
825*ELCO0120	12.00	240/250	85	35 X 75
825*ELCO0125	12.50	240/250	50	40 X 75
825*ELCO0130	13.00	240/250	50	40 X 75
825*ELCO0140	14.00	240/250	50	40 X 75
825*ELCO0150	15.00	240/250	50	40 X 75
825*ELCO0160	16.00	240/250	50	40 X 75
825*ELCO0180	18.00	240/250	50	40 X 75
825*ELCO0200	20.00	240/250	50	40 X 75
825*ELCO0220	22.00	240/250	40	45 X 95
825*ELCO0250	25.00	240/250	40	45 X 95
825*ELCO0250	25.00	240/250	40	45 X 75
825*ELCO0300	30.00	240/250	40	45 X 95
825*ELCO0320	32.00	240/250	40	45 X 95
825*ELCO0350	35.00	240/250	40	45 X 95
825*ELCO0400	40.00	240/250	35	50 X 95
825*ELCO0450	45.00	240/250	35	50 X 95

* N for capacitance tolerance $\pm 10\%$; P for $+10\%/-0\%$