

NEURON[®]
CAPACITORS

**INDIA'S
FINEST
QUALITY
CAPACITOR**



30 YEARS OF
EXCELLENCE

IS:1709, IS:2993, IS:13340



Range of Over 60+ Capacitors



About us :

Neuron is a leading foremost manufacturers of film capacitors in New Delhi, India established in 1994. Well built and customer focused approach for superior quality have enabled Neuron to attain and sustain leadership in industry for over three decades. The ethical working experience gained in last decades have empowered us to offer specific classifications & expertise in capacitors for industrial, domestic, medical, agricultural and specialized applications serving original equipment manufacturers (OEM) and distributors.

We have employed next generation manufacturing practices like integrated work stations, error-free assembly and streamlined techniques of production. Our Productivity and precision are improved through selection of finest grade raw material and process control by adoption of high-end robotic techniques, sophisticated tools and intelligent automated machineries.

Our extensive custom design and development capabilities coupled with broad - standardized product offerings, allowing us to provide intelligent capacitor solutions that meet your applications-requirements & prepared to perform efficiently, even in harsh conditions.

With Neuron , You don't get just cosmic products, but also the promise of a long term relationship with us



Capacitor for Fans :

Construction :

Dielectric	: Electronic Grade fine quality polypropylene.
Element	: MPP Film wound on intelligent automated high speed CNC Winding Machine.
Impregnate	: Soft Polyurethane resin
Case	: Plastic case with press fit type top Aluminum case with press fit type top /Epoxy top sealing
Terminals	: Two wire , Cable type / Lug type

Specifications : As per IS 1709:1984, Un 250 to 500Vac fn50/60Hz, MPP-SH

Features :

Self Healing Property
High insulation resistance
Low energy consumption ($\tan\delta \leq 0.2\% @27^{\circ}\text{C}$)
Withstand wide range of voltage , temperature and humidity



C (μf) $\pm 5\%$	Dimensions $\varnothing \times \text{H}$ (mm)
1.50 - 4.00	28 x 52
4.00 - 8.00	30 / 35 x 54
8.00 - 10.0	35 x 60

Special Purpose Fan Capacitor :



- Fan Capacitors with Clamp
- Fan Capacitor with connectors
- Fan Capacitor Box Type

Features :

- Self Healing Property
- Compact Size
- Easy to Install



Oil Filled Capacitors (Extra Extended Life Capacitor)



C (μf) ±5%	Dimensions Ø x H (mm)
2.00 - 4.00	27 x 52
5.00 - 8.00	35 x 52
10.00 - 20.0	35 x 70

Construction :

Dielectric	: Electronic Grade fine quality polypropylene.
Element	: MPP Film wound on intelligent automated high speed CNC Winding Machine.
Impregnate	: Oil Filled
Case	: Aluminum Can
Sealing	: Hermetically sealed with epoxy / PU topping / Leakproof
Terminals	: Wire type

Specifications : Un 250 to 500Vac fn50, MPP-SH

Features :

Self Healing Property
High Thermal Conductivity
High insulation resistance
Low energy consumption ($\tan\delta \leq 0.2\% @27^\circ\text{C}$)
Withstand wide range of voltage , temperature and humidity

Motor Run Capacitors :

Construction :

Dielectric	: Electronic Grade fine quality polypropylene.
Element	: MPP Film wound on intelligent automated high speed CNC Winding Machine.
Impregnate	: Soft Polyurethane resin
Case	: Plastic case with press fit type top Aluminum case with press fit type top /Epoxy top sealing
Terminals	: Two wire , Cable type / Lug type

Specifications : As per IS 2993:1998 IEC – 60252-1, Un 250 to 500Vac fn50/60Hz, MPP-SH

Features :

Self Healing Property
High insulation resistance
Low energy consumption ($\tan\delta \leq 0.2\% @27^\circ\text{C}$)
Withstand wide range of voltage , temperature and humidity

C (μf) ±5%	Dimensions Ø x H (mm)
1.00 - 5.00	28 x 52
5.00 - 10.0	30 x 52 /35 x 52
10.0 - 15.0	35 x 60
20.0 - 25.0	40 x 70
20.0 - 36.0	40 x 90
36.0 - 60.0	45 x 90 /120
60.0 - 72.0	50 x 90 /120
80.0 – 100.0	63 x 120





Capacitors For Submersible Pumps Panel :

Construction :

Dielectric	: Electronic Grade fine quality polypropylene.
Element	: MPP Film wound on intelligent automated high speed CNC Winding Machine.
Impregnate	: Soft Polyurethane resin
Case	: Plastic case with press fit type top Aluminum case with press fit type top /Epoxy top sealing
Terminals	: Two wire , Cable type / Lug type

Features :

Self Healing Property
High insulation resistance
Low energy consumption ($\tan\delta \leq 0.2\% @27^\circ\text{C}$)
Withstand wide range of voltage , temperature and humidity

Specifications : Un 250 / 440Vac , C/D, fn50/60Hz, MPP-SH

C (μf) $\pm 5\%$	Dimensions $\varnothing \times \text{H}$ (mm)
20.0 - 36.0	40 x 72
30.0 - 36.0	35 x 95
36.0 - 50.0	40 x 95
60.0 - 72.0	45 x 95
80.0 - 100	50 x 95/ 120



Specifications : Un 400 / 440Vac , B/C, fn50/60Hz, MPP- SH

C (μf) $\pm 5\%$	Dimensions $\varnothing \times \text{H}$ (mm)
20.0 - 30.0	40 x 95
30.0 - 50.0	40 / 45 x 95
60.0 - 72.0	50 x 95

Capacitors for Agriculture :



Construction :

Dielectric	: Electronic Grade fine quality polypropylene.
Element	: MPP Film wound on intelligent automated high speed CNC Winding Machine.
Impregnate	: Soft Polyurethane resin
Case	: Powder Coated MS Boxes Aluminum case with press fit type top /Epoxy top sealing
Terminals	: Two wire , Cable type / Tin Plated Nut Bolt Screw type

Specifications : Un 440Vac, fn50Hz, MPP- SH

C (μf) $\pm 5\%$	Dimensions L x B x H (mm)
72.0	50 x 105 x 200
108 - 144	50 x 145 x 200
180 - 216	90 x 145 x 220
252 - 288	120 x 145 x 240

Features :

Self Healing Property
High insulation resistance
Low energy consumption ($\tan\delta \leq 0.2\% @27^\circ\text{C}$)
Withstand wide range of voltage , temperature and humidity



AC Motor Start Capacitor (SH Type) :

Construction :

Dielectric	: Electronic Grade fine quality polypropylene.
Element	: MPP Film wound on intelligent automated high speed CNC Winding Machine.
Impregnate	: Soft Polyurethane resin
Case	: Plastic with press fit type top Aluminum with press fit type top /Epoxy top sealing
Terminals	: Two wire , Cable type / Lug type



Specifications : Un 250 VAC, fn50Hz, MPP- SH

Features :

Extra Extended Life
Self Healing Property
High insulation resistance
Low energy consumption ($\tan\delta \leq 0.2\% @27^\circ\text{C}$)
Withstand wide range of voltage , temperature and humidity

Range	C (μf) $\pm 5\%$	Dimensions $\text{Ø} \times \text{H}$ (mm)
40 - 60	30	35/ 40 x 72
60 - 80	45	40 x 72
80 - 100	60	40 x 95
100 - 120	75	40 x 95
120 - 150	90	45 x 95
150 - 200	105	50 x 95
200 - 250	120	50 x 95
250 - 300	135	50 x 120
300 - 350	160	50 x 120

Motor Start Electrolytic Capacitors(Non- SH Type)



Construction :

Electrode are made of Aluminum foil separated with paper

Casing	: Aluminum Can
Impregnate	: Paper soaked with electrolyte
Terminal	: Wire Type
Duty Cycle	: 1.7% (20 starts per hours, each start not more than 3 sec.)

Specifications : Un 230 VAC, 50Hz, 275V surge

Range	C (μf) $\pm 5\%$	Dimensions $\text{Ø} \times \text{H}$ (mm)
40 - 60	50	40 x 100
60 - 80	75	40 x 100
80 - 100	90	40 x 100
100 - 120	115	40 x 100
120 - 150	135	45 x 100
150 - 200	175	45 x 120
200 - 250	225	45 x 120



Capacitors for Air Conditioners(Brust Proof Capacitors):

Construction :

Dielectric	: Electronic Grade fine quality polypropylene
Element	: MPP Film wound on intelligent automated high speed CNC Winding Machine.
Casing	: Aluminum Can and Top (UL 94V (0), APPROVED ROHS)
Impregnate	: Soft Polyurethane resin
Terminals	: 2+4, 2+3+4 Type Lugs

Specifications : Un 440Vac fn50Hz, Temp. 85°C

Features

Self – healing Properties
High insulation resistance
Low energy consumption
P2/S2 safety class as per IEC 60252-f1 (ed 2) am 1
Over pressure disconnection safety device
Class of operation B/C



C (μf) ±5%	Dimensions Ø x H (mm)
25.0 - 60.0	40/45 x 104
60.0 – 80.0	50 x 104
36.0 +2/4/6	50 x 120
45.0 +2/4/6	50 x 120
50.0 +2/4/6	50 x 120
60.0 +6/10	50 x 120

Capacitors for Lighting :

Construction :

Dielectric	: Electronic Grade fine quality polypropylene.
Element	: MPP Film wound on intelligent automated high speed CNC Winding Machine.
Impregnate	: Soft Polyurethane resin
Case	: Plastic case with press fit type top
Terminals	: Two wire , Cable type / Lug type

Specifications : Un 250Vac ,50Hz, MPP SH, Internal discharge R fitted



C (μf) ±5%	Dimensions Ø x H (mm)
3.15 – 4.00	26 x 45
8.00 -10.0	30 x 55
12.5 - 20.0	35 x 55
25.0 - 33.0	35 x 72
33.0 - 42.0	40 x 72



L.T. Power Capacitors for PFC:

For Agriculture Application

Construction :

Dielectric	: Electronic Grade fine quality polypropylene.
Element	: MPP Film wound on intelligent automated high speed CNC Winding Machine.
Impregnate	: Soft Polyurethane resin
Case	: MS Boxes / Aluminium casing with stud
Terminal	: Three wire / Screw

Features :

Self-Healing Property
Very Low energy consumption, ($\tan\delta \leq 0.2\% @27^\circ\text{C}$)
Easy installation and connection (with wall mounting)
Maintenance free, Long Life
Maximum inrush current handling capability



Specifications :

Range	1.0 KVAR – 25.0 KVAR (-5%, +10%)
Voltage	250V-440VAC, 50Hz, Δ , 3 Ph.
Ui	3kv/-, Discharge device E/I
Certification	IS13340 Part I & Part II :2012

For Industrial Application:-

Construction :

Dielectric	: Electronic Grade fine quality polypropylene.
Element	: MPP Film wound on intelligent automated high speed CNC Winding Machine.
Impregnate	: Soft Polyurethane resin
Case	: MS Boxes / Aluminium casing with stud
Terminals	: Three wire / Screw

Specifications :

Range	: 1.0 KVAR – 25.0 KVAR (-5%, +10%)
Voltage	: 250V-440VAC, 50Hz, Δ , 3 Ph. Ui 3kv/-, Discharge device E/I
Certification	: IS13340 Part I & Part II :2012

Features :

Self-Healing Property
Very Low energy consumption, ($\tan\delta \leq 0.2\% @27^\circ\text{C}$)
Easy installation and connection (with wall mounting)
Maintenance free, Long Life
Maximum inrush current handling capability

Wide Range of Neuron Max Power Capacitor
 Self-Healing Normal Duty
 Self-Healing Heavy Duty
 Self-Healing Super Heavy Duty



Electrical Characteristics	SH Normal Duty	SH Heavy Duty	SH Super Heavy Duty
Max. Permissible Voltage	1.1 Un	1.2 Un	1.3 Un
Max. Permissible Current	1.3 In	1.4 In	1.5 In
Max. Permissible transient peak current	100 In	200 In	300 In
Losses (Total) per KVAR	≤ 0.5 W/KVAR	≤ 0.5 W/KVAR	≤ 0.5 W/KVAR
Life Expectancy	100000 hrs.	150000 hrs.	200000 hrs.
Designed for	Linear inductive load	Non-Linear inductive load upto 10%	Non-Linear inductive load upto 15%

*Electrical characteristics capabilities are subject to time duration and effect of line harmonics in a day.



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