

PRW SERIES

PP can construction with resin top and flexible multistrand wire lead out

Metallised Polypropylene (MPP) Capacitors are film Capacitors, made out of two Al-Zn metallized films with plastic film acting as dielectric. PRW series MPP Capacitors are provided with resin top sealing, flexible multistrand copper wire lead out and encapsulated in PP can with or without black cap. Based on international standards PRW MPP Capacitors are categorised as

- a) AC Fan motor Capacitors (IS 2993 PART1:2024)
- b) Motor Run Capacitors (IS 2993 PART1:2024)

1. SPECIFICATIONS

a) AC Fan Motor Capacitor

Series	PRW Series
Type	Metalized Polypropylene AC fan motor Capacitor
Reference Standard	IS 2993 PART1:2024
Rated Voltage	440 Vac
Rated Frequency	50/60 Hz
Climatic Category	-25/85°C/21
Type	MPP-SH
Safety Protection	S0
Capacitance Range	1 to 6 μ F
Capacitance Tolerance	$\pm 5\%$
Class of Operation	Class C/ Class D

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b) Motor Run Capacitor

Series	PRW Series
Type	Metalized Polypropylene Motor Run Capacitor
Reference Standard	IS 2993 PART1:2024
Rated Voltage	440 Vac
Rated Frequency	50/60 Hz
Climatic Category	-25/85°C/21
Type	MPP-SH
Safety Protection	S0
Capacitance Range	8 to 72 μ F
Capacitance Tolerance	$\pm 5\%$
Class of Operation	Class C/ Class D

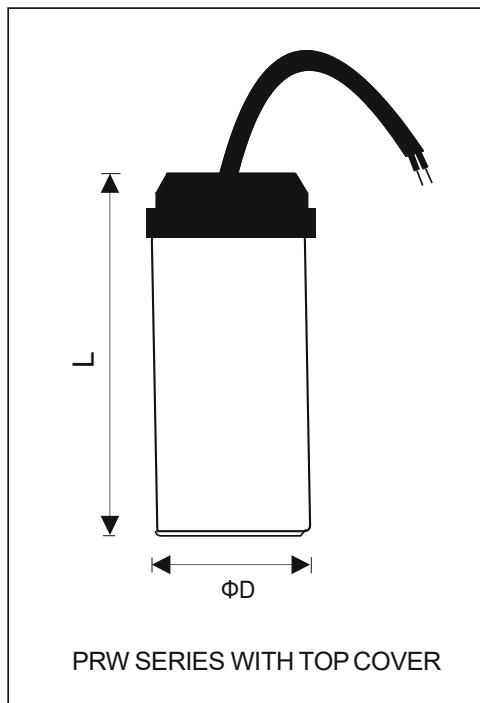
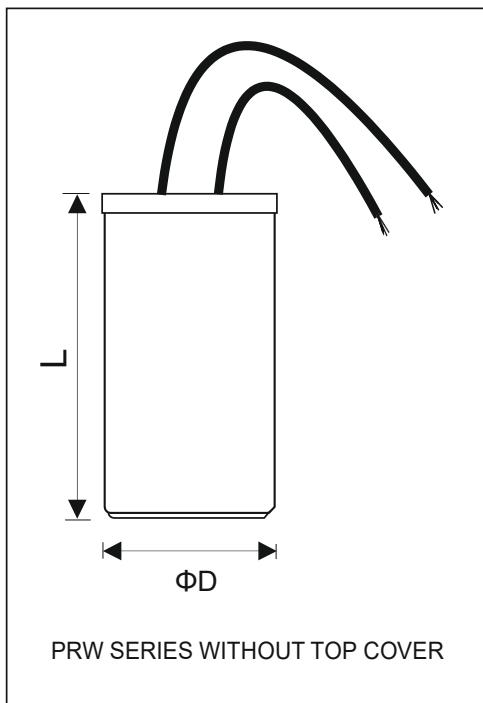
2. OTHER INFORMATION

Type of packing and Lead configuration	Bulk. Multistrand copper wire lead out.
Capacitor codification system	Refer section 6 for details
Dimensional specification	Refer section 4 for details
Marking specification	Refer section 7 for details

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3. PHYSICAL OUTLINE



All Dimensions are in “mm”

4. DIMENSIONS (All units in mm)

Case Code	Diameter $\text{ØD}\pm 2$ (mm)	Length $L\pm 3$ (mm)
CD	27	52
ED	30	52
GJ	35	68
GN	35	86
HN	38	86
JN	40	86
LS	45	110
NS	50	110
NY	50	140
QY	54	140

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5. STANDARD RATING TABLE

a) AC Fan Motor Capacitor (IS 2993 PART1:2024)

Part Number	Rating (μ F)	Diameter $\varnothing D \pm 2$ (mm)	Length $L \pm 3$ (mm)	Case Code	Wire Length (mm)
PRW01R0GCDWC	1	27	52	CD	100 \pm 5
PRW01R2GCDWC	1.2	27	52	CD	100 \pm 5
PRW1R25GCDWC	1.25	27	52	CD	100 \pm 5
PRW01R5GCDWC	1.5	27	52	CD	100 \pm 5
PRW01R7GCDWC	1.7	27	52	CD	100 \pm 5
PRW1R85GCDWC	1.85	27	52	CD	100 \pm 5
PRW02R0GCDWC	2	27	52	CD	100 \pm 5
PRW02R0GEDWC		30	52	ED	100 \pm 5
PRW2R25GCDWC	2.25	27	52	CD	100 \pm 5
PRW2R25GEDWC		30	52	ED	100 \pm 5
PRW02R5GCDWC	2.5	27	52	CD	100 \pm 5
PRW02R5GEDWC		30	52	ED	100 \pm 5
PRW03R0GCDWC	3	27	52	CD	100 \pm 5
PRW03R0GEDWC		30	52	ED	100 \pm 5
PRW3R15GCDWC	3.15	27	52	CD	100 \pm 5
PRW3R15GEDWC		30	52	ED	100 \pm 5
PRW03R5GCDWC	3.5	27	52	CD	100 \pm 5
PRW03R5GEDWC		30	52	ED	100 \pm 5
PRW04R0GCDWC	4	27	52	CD	100 \pm 5
PRW04R0GEDWC		30	52	ED	100 \pm 5
PRW05R0GEDWC	5	30	52	ED	140 \pm 5
PRW05R0GGJTC		35	68	GJ	195 \pm 5
PRW06R0GEDWC	6	30	52	ED	140 \pm 5
PRW06R0GGJTC		35	68	GJ	195 \pm 5

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b) Motor Run Capacitors (IS 2993 PART1:2024)

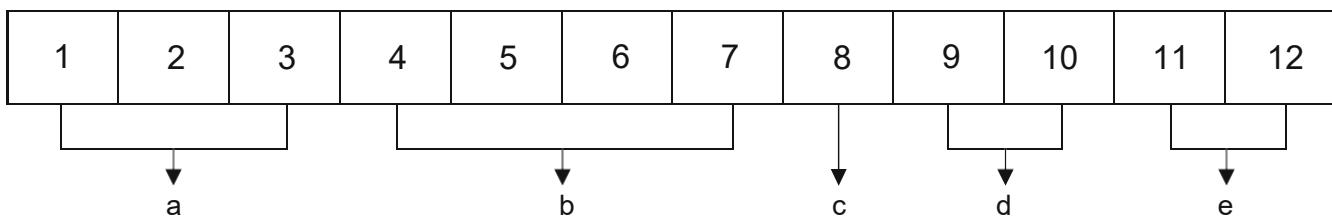
Part Number	Rating (μ F)	Diameter $\text{ØD}\pm 2$ (mm)	Length $L\pm 3$ (mm)	Case Code	Wire Length (mm)
PRW08R0GGJTC	8	35	68	GJ	195 \pm 5
PRW08R0GGNTC		35	86	GN	250 \pm 5
PRW10R0GGJTC	10	35	68	GJ	195 \pm 5
PRW10R0GGNTC		35	86	GN	250 \pm 5
PRW12R0GGNTC	12	35	86	GN	250 \pm 5
PRW12R5GGNTC	12.5	35	86	GN	250 \pm 5
PRW12R5GHNTC		38	86	HN	250 \pm 5
PRW15R0GGNTC	15	35	86	GN	250 \pm 5
PRW15R0GJNTC		40	86	JN	250 \pm 5
PRW18R0GJNTC	18	40	86	JN	250 \pm 5
PRW20R0GJNTC	20	40	86	JN	250 \pm 5
PRW20R0GLSTC		45	110	LS	250 \pm 5
PRW25R0GLSTC	25	45	110	LS	250 \pm 5
PRW30R0GLSTC	30	45	110	LS	250 \pm 5
PRW36R0GLSTC	36	45	110	LS	250 \pm 5
PRW40R0GNSTC	40	50	110	NS	250 \pm 5
PRW45R0GNSTC	45	50	110	NS	250 \pm 5
PRW50R0GNSTC	50	50	110	NS	250 \pm 5
PRW60R0GNYTC	60	50	140	NY	250 \pm 5
PRW72R0GQYTC	72	54	140	QY	250 \pm 5

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6. CAPACITOR ORDERING INFORMATION

Capacitors are identified with the help of a 12-digit code. Expansion of part Nos are detailed below.



a	b	c	d	e
Series Code	Capacitance Value Code	Voltage Code	Case Code	Top Cover Details
PRW: PP can, Resin Top, Wire termination	Eg: (i) 20 μ F is coded as 20R0 (ii) 2.5 μ F is coded as 02R5 (For the range of Capacitance refer rating table)	A - 110 V B - 230 V G - 440 V	Eg: ED - 30 x 52 GJ - 35 x 68	WC – Without cover TC – Top Cover

Eg: PRW Series 8 μ F/440VAC

With top cover

P	R	W	0	8	R	0	G	G	N	T	C

With Top cover

Case size - 35 X 86L mm

Rated Voltage - 440Vac

Capacitance Value - 8 μ F

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7. MARKING ON THE CAPACITOR

For PRW series MPP Capacitors product information is printed on the can in black letters.

The following information are marked on the Capacitor;

a) AC Fan Motor Capacitor (IS 2993 PART1:2024)

- | | | |
|---|---|----------------------------|
| 1) Manufacturer's Name and Logo |  | 2) Climatic Category |
| 3) Nominal capacitance value in μ f | | 4) Capacitance tolerance |
| 5) Rated voltage | | 6) Rated frequency |
| 7) Self – healing (SH) | | 8) Type of dielectric- MPP |
| 9) Specification (standard) number | | 10) Date code (Year-Month) |

b) Motor Run Capacitors (IS 2993 PART1:2024)

- | | | |
|---|---|-------------------------------------|
| 1) Manufacturer's Name and Logo |  | 2) Climatic Category |
| 3) Nominal capacitance value in μ f | | 4) Capacitance tolerance |
| 5) Rated voltage | | 6) Rated frequency |
| 7) Self – healing (SH) | | 8) Class of operation |
| 9) Safety protection | | 10) Specification (standard) number |
| 11) Date code (Year-Month) | | 12) ISI Mark and Licence No: |

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8. DATE CODE

Year Code:

Year	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Letter Code	M	N	P	R	S	T	U	V	W	X

Year	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
Letter Code	A	B	C	D	E	F	H	J	K	L

Year code repeats after each cycle of 20 years

Month Code:

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	O	N	D

9. PACKING QUANTITY

MPP Capacitors are packed in a PRIMARY cardboard carton by incorporating suitable SEPERATORS to avoid damages during transit. The primary cartons are then placed in a MOTHER Cardboard carton before shipment.

Packing quantity per primary carton are detailed below;

Case Code	No.s/ Carton
CD	200
ED	200
GJ	81
GN	81
HN	81

Case Code	No.s/ Carton
JN	64
LS	49
NS	36
NY	36
QY	36