

PRW SERIES

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

Metallized 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 leads 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 1709:1984)
- b) Motor Run Capacitors (IS 2993:1998)

1. SPECIFICATIONS

a) **AC Fan Motor Capacitor**

| | |
|-----------------------|---|
| Series | PRW Series |
| Type | Metallized Polypropylene AC fan motor Capacitor |
| Reference Standard | IS1709: 1984 |
| Rated Voltage | 440 Vac |
| Rated Frequency | 50/60 Hz |
| Climatic Category | -25/85°C/21 |
| Type | MPP-SH |
| Safety Protection | P0 |
| Capacitance Range | 1 to 6μF |
| Capacitance Tolerance | ±5% |

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b) Motor Run Capacitor

| | |
|-----------------------|--|
| Series | PRW Series |
| Type | Metallized Polypropylene Motor Run Capacitor |
| Reference Standard | IS2993 : 1998 |
| Rated Voltage | 440 Vac |
| Rated Frequency | 50/60 Hz |
| Climatic Category | -25/85°C/21 |
| Type | MPP-SH |
| Safety Protection | P0 |
| Capacitance Range | 8 to 72 μ F |
| Capacitance Tolerance | \pm 5% |
| Class of Operation | Class C/ Class D |

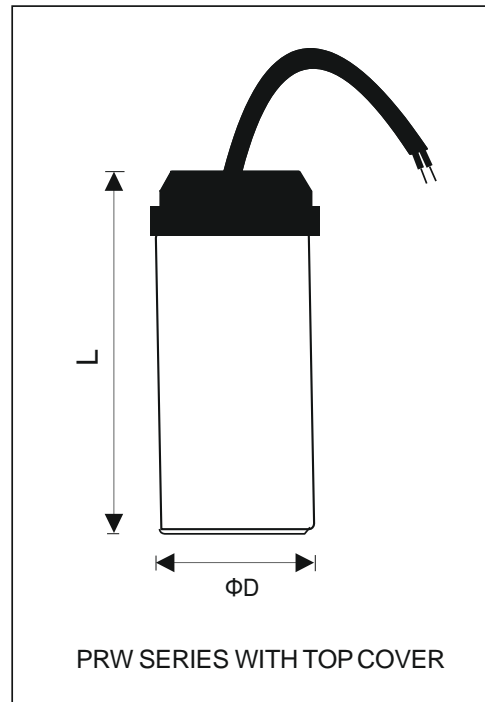
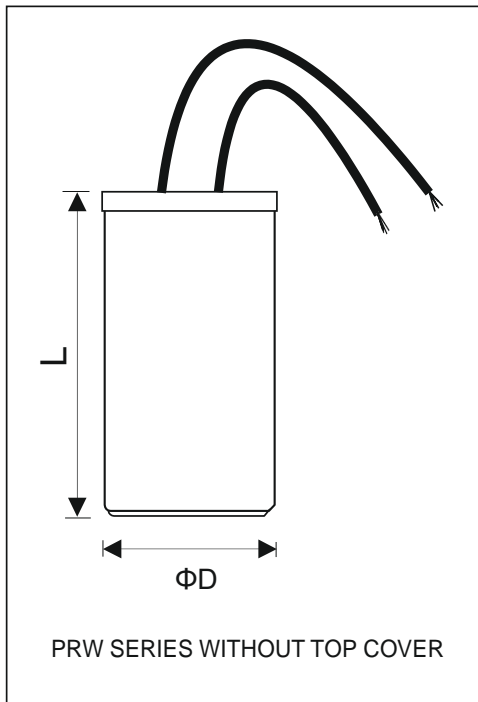
2. OTHER INFORMATION

| | |
|--|--|
| Type of packing and Lead configuration | Bulk. Multistrand copper wire leads 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 ØD±1 (mm) | Length L±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-1709:1984)

| Part Number | Rating (μ F) | Diameter $\varnothing D \pm 1$ (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-2993:1998)

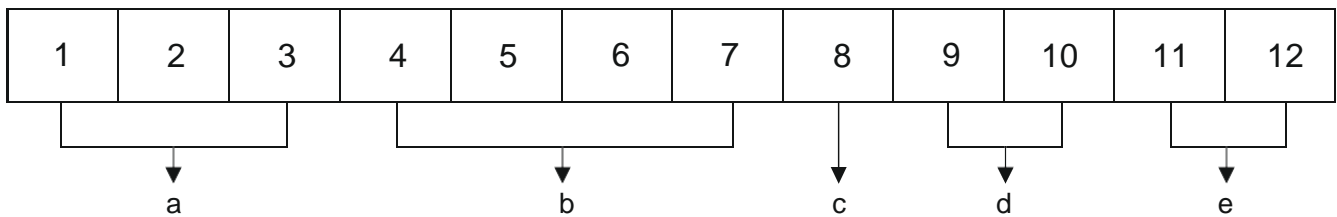
| Part Number | Rating (μ F) | Diameter $\varnothing D \pm 1$ (mm) | Length $L \pm 3$ (mm) | Case Code | Wire Length (mm) |
|--------------|----------------------|---|-----------------------------|--------------|---------------------|
| PRW08R0GGJTC | 8 | 35 | 68 | GJ | 195 \pm 5 |
| PRW08R0GGNTC | | 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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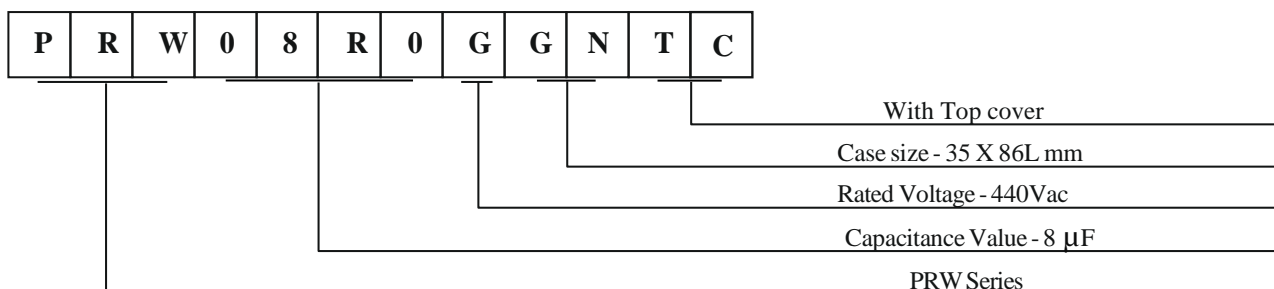
6. CAPACITOR ORDERING INFORMATION

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



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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-1709)

- | | |
|---|----------------------------|
| 1) Manufacturer's Name and Logo  | 2) Climatic Category |
| 3) Nominal capacitance value in μf | 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)

- | | |
|---|-------------------------------------|
| 1) Manufacturer's Name and Logo  | 2) Climatic Category |
| 3) Nominal capacitance value in μf | 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 SEPARATORS 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 |