

ARW SERIES

Al. can construction with resin top and flexible multistrand wire lead out

Metallized Polypropylene (MPP) Capacitors are film Capacitors, made out of two Al-Zn metallized films with plastic film acting as dielectric. ARW series MPP Capacitors are with resin top sealing, flexible multistrand copper wire lead out and encapsulated in Aluminium can with or without black cap.

Based on international standards ARW MPP Capacitors are categorized 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	ARW 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	2 to 6 μ F
Capacitance Tolerance	$\pm 5\%$
Class of Operation	Class C/ Class D

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b) Motor Run Capacitor

Series	ARW 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 60 μ F
Capacitance Tolerance	$\pm 5\%$
Class of Operation	Class C/ Class D

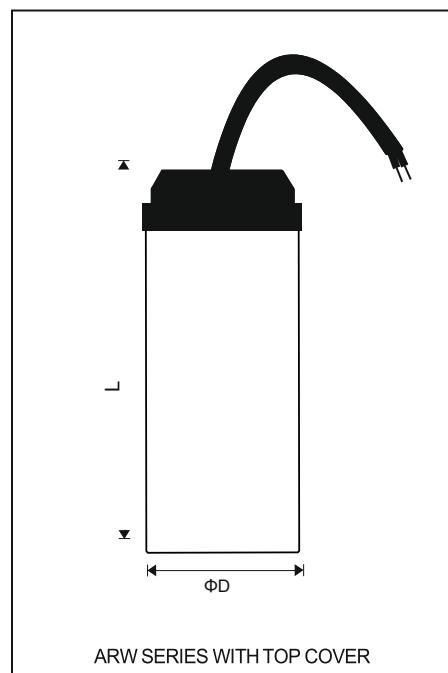
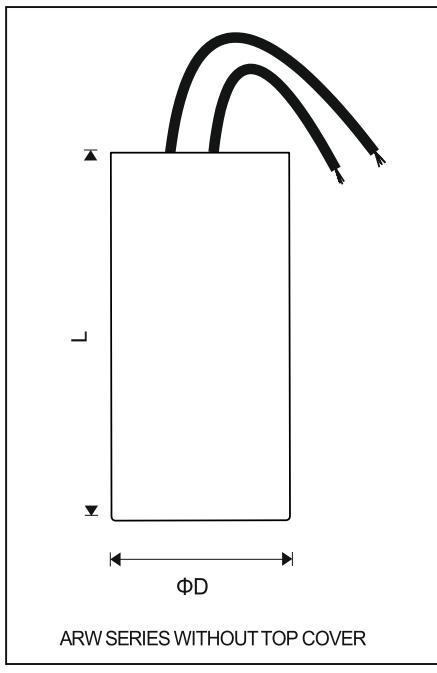
2. OTHER INFORMATION

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)
CC	27	48
EF	30	56
GK	35	71
GN	35	86
JQ	40	92
LT	45	112
LY	45	140
NY	50	140
QY	54	140

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5. STANDARD RATING TABLE

a) AC Fan Motor Capacitor (IS 2993 PART 1:2024)

Part Number	Rating (μ F)	Diameter $\text{ØD}\pm 2$ (mm)	Length $L\pm 3$ (mm)	Case Code	Wire Length (mm)
ARW02R0GCCWC	2	27	48	CC	100 \pm 5
ARW02R0GEFWC	2	30	56	EF	100 \pm 5
ARW2R25GCCWC	2.25	27	48	CC	100 \pm 5
ARW2R25GEFWC	2.25	30	56	EF	100 \pm 5
ARW02R5GCCWC	2.5	27	48	CC	100 \pm 5
ARW02R5GEFWC	2.5	30	56	EF	100 \pm 5
ARW03R0GEFWC	3	30	56	EF	100 \pm 5
ARW3R15GEFWC	3.15	30	56	EF	100 \pm 5
ARW03R5GEFWC	3.5	30	56	EF	100 \pm 5
ARW04R0GEFWC	4	30	56	EF	100 \pm 5
ARW06R0GGKTC	6	35	71	GK	200 \pm 5

b) Motor Run Capacitors (IS 2993 PART 1:2024)

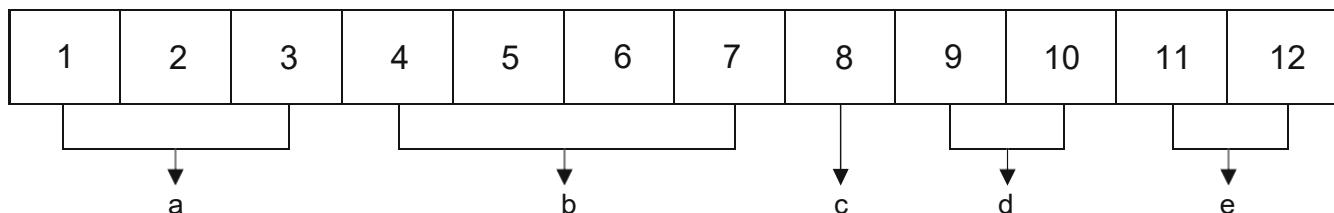
Part Number	Rating (μ F)	Diameter $\text{ØD}\pm 2$ (mm)	Length $L\pm 3$ (mm)	Case Code	Wire Length (mm)
ARW08R0GGNTC	8	35	86	GN	250 \pm 5
ARW10R0GGNTC	10	35	86	GN	250 \pm 5
ARW12R5GGNTC	12.5	35	86	GN	250 \pm 5
ARW15R0GJNTC	15	40	86	JN	250 \pm 5
ARW18R0GLTTC	18	45	112	LT	250 \pm 5
ARW20R0GLTTC	20	45	112	LT	250 \pm 5
ARW25R0GLTTC	25	45	112	LT	250 \pm 5
ARW30R0GLTTC	30	45	112	LT	250 \pm 5
ARW36R0GLYTC	36	45	140	LY	250 \pm 5
ARW40R0GNYTC	40	50	140	NY	250 \pm 5
ARW45R0GNYTC	45	50	140	NY	250 \pm 5
ARW50R0GNYTC	50	50	140	NY	250 \pm 5
ARW60R0GQYTC	60	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
ARW: Al. 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: EF - 30 x 56 NY - 50 x 140	WC – Without cover TC – Top Cover

Eg: ARW Series 8 μ F/440VAC

With top cover

A	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											
ARW Series											

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7. MARKING ON THE CAPACITOR

For ARW 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 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 PART1:2024)

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

3. 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
CC	200
EF	200
GK	81
GN	81
JN	64

Case Code	No.s/ Carton
JQ	64
LT	49
LY	49
NY	36
QY	36