



# ALUMINUM CAPACITORS

095 PLL-4TSI



## Long-Life 4-Terminal Snap-In Aluminum Power Capacitors

### KEY BENEFITS

- Up to 450 V available
- Case sizes larger than standard snap-in, 35 x 50 mm up to 45 x 100 mm
- 4-terminal snap-in for stable mounting on PC board
- Very long useful life: 10 000 hours at 85 °C
- Low ESR, high ripple current capability

### APPLICATIONS

- Solar systems
- Uninterruptible power supplies (UPS)
- Motor drives
- Wind energy systems

### Aluminum Capacitors Power Long Life 4 Terminal Snap-In

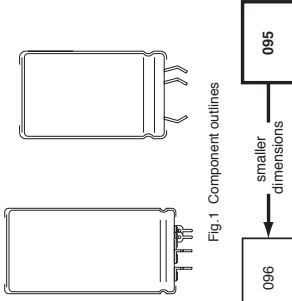


Fig.1 Component outlines

DESCRIPTION	VALUE
Nominal case size (D x L in mm)	35 x 50 to 45 x 100
Rated capacitance range C <sub>R</sub>	390 μF to 2200 μF ± 20 %
Tolerance on C <sub>R</sub>	
Rated voltage range, U <sub>R</sub>	350 V to 450 V
Category temperature range	-40 °C to + 85 °C
Endurance test at 85 °C	3000 hours
Useful life at 85 °C, 1.4 x I <sub>R</sub> applied	10 000 hours
Useful life at 0 V, 85 °C	400 000 hours
Shelf life at 0 V, 85 °C	1000 hours
Based on sectional specification	IEC 60384-4/EN130300
Climatic category IEC 60 068	40/085/56

500 V available on request!

SELECTION CHART FOR C <sub>R</sub> , U <sub>R</sub> AND RELEVANT NOMINAL CASE SIZES (∅ D x L in mm)	
C <sub>R</sub> (μF)	U <sub>R</sub> (V)
390	400
470	350
560	35 x 50 45 x 40
680	35 x 60 40 x 60 45 x 50
820	35 x 70 40 x 70 45 x 60

#### FEATURES

- Polarized aluminum electrolytic capacitors, non-solid electrolyte
- Large types, minimized dimensions, cylindrical aluminum case, insulated with a blue sleeve
- Pressure relief on the side of the aluminum case
- Very long useful life: 10 000 hours at 85 °C
- Temperature range up to 85 °C
- Keyed polarity
- Low ESR, high ripple current capability

#### APPLICATIONS

- Telecommunication and industrial systems
- Smoothing and filtering applications
- Switched mode power supplies
- Renewable energy power converters
- Energy storage in pulse systems
- For excellent mounting stability

#### MARKING

- The capacitors are marked (where possible) with the following information:
- Rated capacitance (in μF)
  - Tolerance code on rated capacitance, code letter in accordance with IEC 60062 (M for ± 20 %)
  - Rated voltage (in V)
  - Date code (YYMM)
  - Name of manufacturer
  - Code for factory of origin
  - '-' sign to identify the negative terminal, visible from the top and side of the capacitor
  - Code number
  - Climatic category in accordance with IEC 60068



RoHS COMPLIANT

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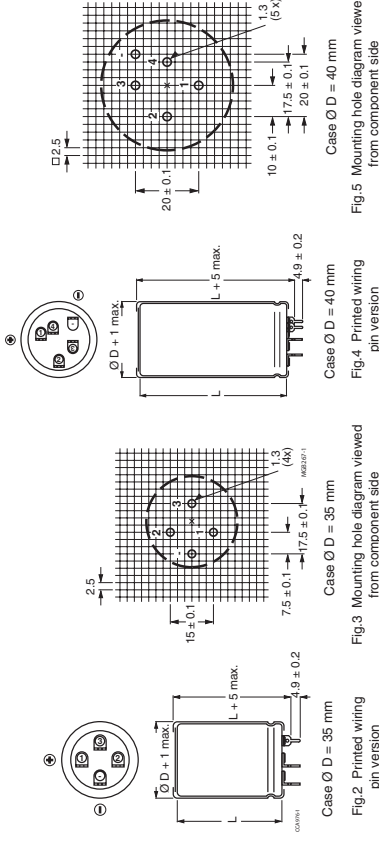
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SELECTION CHART FOR C <sub>R</sub> , U <sub>R</sub> AND RELEVANT NOMINAL CASE SIZES (∅ D x L in mm)			
C <sub>R</sub> (μF)	U <sub>R</sub> (V)		
350	400	420	450
35 x 80	35 x 100	35 x 100	40 x 100
40 x 60	40 x 70	40 x 70	45 x 70
45 x 50	45 x 60	45 x 60	45 x 70
40 x 80	40 x 100	40 x 100	45 x 100
45 x 70	45 x 80	45 x 80	45 x 100
40 x 100	45 x 100	45 x 100	-
45 x 100	-	-	-

#### DIMENSIONS in millimeters AND AVAILABLE FORMS

##### PRINTED WIRING



#### FOUR TERMINAL SNAP-IN

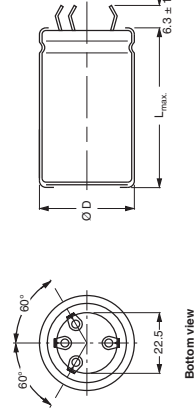


Fig.6 4-Terminal Snap-in

Dummy terminals (A and C) must be free from the electrical circuit

Fig.7 Mounting hole diagram

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