



ALUMINUM CAPACITORS

110 PHT-ST Series

Capacitors - Specifically Designed for Traction and Heavy Duty Applications

Screw Terminal Aluminum Power Capacitors with High Ripple Current Handling for Traction



KEY BENEFITS

- Long useful life: > 10 000 hours at +85 °C
- Tight tolerance: -10 +30 %
- -40 °C to +85 °C operating temperature range
- Low ESR

APPLICATIONS

- Traction
- Heavy duty applications
- Various industrial applications

RESOURCES

- Datasheet: 110 PHT-ST www.vishay.com/doc?28411
- For technical questions contact aluminumcaps2@vishay.com
- Material categorization: For definitions please see www.vishay.com/doc?99912



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COMPLIANT

One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components





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Screw Terminal Aluminum Power Capacitors with High Ripple Current Handling for Traction



FEATURES

- Long useful life: > 10 000 h at +85 °C
- Available in case sizes up to Ø 90 mm x 220 mm
- Low ESR
- Polarized aluminum electrolytic capacitors, non-solid electrolyte
- Large types, cylindrical aluminum case, insulated with a blue sleeve
- Pressure relief in the sealing
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

- Traction (metro/subway, light rail, streetcars/tram)
- Heavy duty applications
- Various industrial applications

MARKING

The capacitors are marked with the following information:

- Rated capacitance (in μF)
- Tolerance on rated capacitance, code letter in accordance with IEC 60062 (Q for -10 %/+30 %)
- Rated voltage (in V)
- Date code (YYMM or in 2 digits according to IEC 60062)
- 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

| QUICK REFERENCE DATA | |
|--|-------------------------------------|
| DESCRIPTION | VALUE |
| Nominal case size (Ø D x L in mm) | 76 x 146 to 76 x 220 ⁽¹⁾ |
| Rated capacitance range (E6 series), C_R | 6000 μF ⁽¹⁾ |
| Tolerance on C_R | -10 %/+30 % |
| Rated voltage range, U_R | 250 V to 450 V ⁽¹⁾ |
| Category temperature range | -40 °C to +85 °C |
| Useful life at 85 °C | > 10 000 h |
| Useful life at 70 °C | > 40 000 h |
| Useful life at 40 °C, 1.4 x I_R applied | > 400 000 h |
| Shelf life at 0 V, 85 °C | 500 h |
| Based on sectional specification | IEC 60384-4/EN130300 |
| Climatic category IEC 60068 | 40/085/056 |

Note

- ⁽¹⁾ Other values available on request.

| C_R (μF) | U_R (V) | | | | |
|----------------------------|-----------|----------|----------|----------|----------|
| | 250 | 300 | 350 | 400 | 450 |
| 6000 | 76 x 146 | 76 x 220 | 76 x 220 | 76 x 220 | 76 x 220 |

Note

- Other values available on request.

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