

PCC series for Mild HEV HybridPACK™1

 Series/Type:
 B25655

 Ordering code:
 B25655J4267K**1

 Date:
 August 2009

 Version:
 2

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Preliminary data

Characteristics

C _R	265 µF ±10%
V _R	450 V DC
W _R	27 Ws
max	80 A
L _{self}	30 nH
tan δ_0	2 · 10 ⁻⁴
R _s	1.5 mΩ

Maximum ratings

V _s	600 V
î	1.3 kA
l _s	5.3 kA
(dV/dt) _{max}	5 V/µs
(dV/dt) _s	20 V/µs

Test data

V_{TT} 675 V DC, 10

 R_{ins} C ≥ 10000 s tan δ (50 Hz) ≤ 8 · 10⁻⁴

Climatic category

	J - J
40/110/21 (IE	C 68-1/2)
T_{min}	–40 °C
T _{max}	+110 °C
Humidity	Max. relative
	humidity ≤ 95%
T _{stg}	–45 … +110 °C
Values after Test Ca, IEC 68-2	
(21 days, 40°C, 93% rel. humidity)	
$\Delta C/C$	≤ 5%
$\Delta tan \delta$	≤ 4 · 10 ⁻⁴
$R_{_{ins}}\cdotC$	≥ 3000 s

Mean life expectancy

t _{LD}	15 000 h
$\alpha_{_{\sf FQ}}$	300 fit



Design data

Dimensions $I \times w \times h$
Approx. weight
Impregnation

Terminals

Creepage distance Clearance

Plastic case

140 mm × 67 mm × 50 mm 700 g Resin filled

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Flat copper

9 mm 9 mm

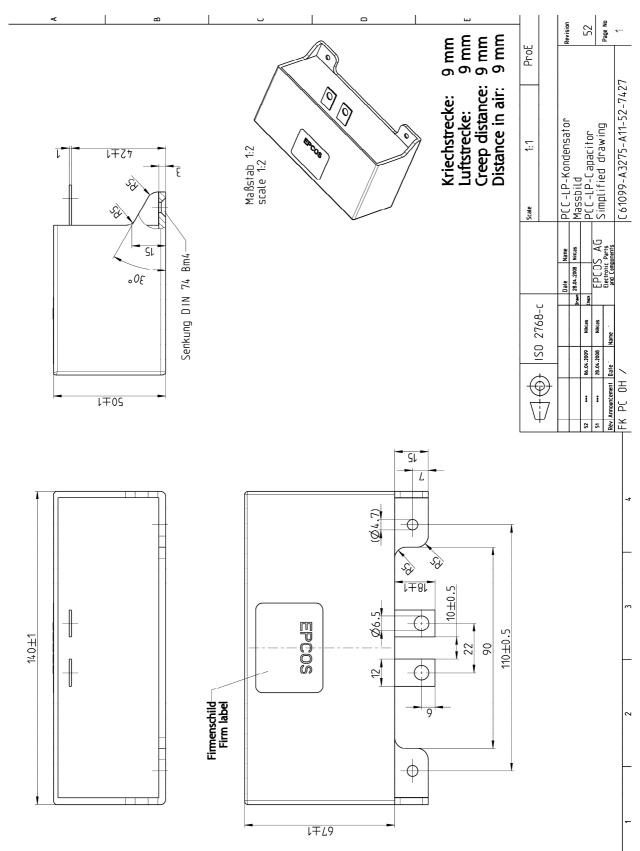


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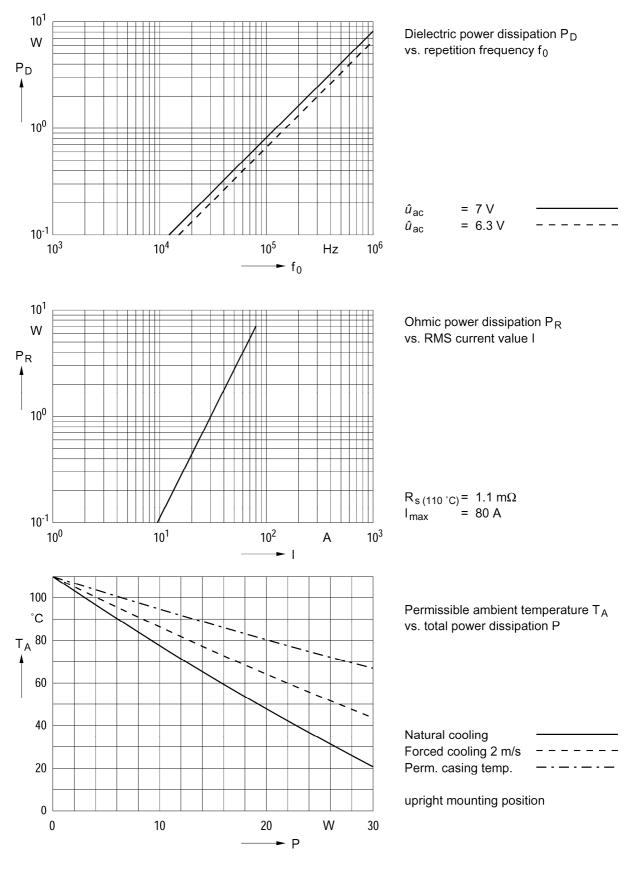
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Cautions and warnings

- In case of dents of more than 1 mm depth or any other mechanical damage, capacitors must not be used at all.
- Check tightness of the connections/terminals periodically.
- The energy stored in capacitors may be lethal. To prevent any chance of shock, discharge and short-circuit the capacitor before handling.
- Failure to follow cautions may result, worst case, in premature failures, bursting and fire.

<u>Safety</u>

- Electrical or mechanical misapplication of capacitors may be hazardous. Personal injury or property damage may result from bursting of the capacitor or from expulsion of melted material due to mechanical disruption of the capacitor.
- Ensure good, effective grounding for capacitor enclosures.
- Observe appropriate safety precautions during operation (self recharging phenomena and the high energy stored in capacitors).
- Handle capacitors carefully, because they may still be charged even after disconnection.
- The terminals of capacitors, connected bus bars and cables as well as other devices may also be energized.
- Follow good engineering practice.

Thermal load

After installation of the capacitor it is necessary to verify that maximum hot-spot temperature is not exceeded at extreme service conditions.

Mechanical protection

The capacitor has to be installed in a way that mechanical damages and dents in the case are avoided.

Storage and operating conditions

Do not use or store capacitors in corrosive atmosphere, especially where chloride gas, sulfide gas, acid, alkali, salt or the like are present. In dusty environments regular maintenance and cleaning especially of the terminals is required to avoid conductive path between phases and/or phases and ground.

Service life expectancy

Electrical components do not have an unlimited service life expectancy; this applies to self-healing capacitors too. The maximum service life expectancy may vary depending on the application the capacitor is used in.

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