Filters for Power Lines
(Low leakage current)

16 to 100 A,
100 dB from 14 kHz

Series/Type: B84263

Date: January 2004

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EPCOS AG is a TDK Group Company.
Filters for power lines (low leakage current)  
16 to 100 A, 100 dB from 14 kHz

2- and 4-line-filters
16 to 100 A
Multi-stage
Stopband attenuation 14 kHz to 40 GHz

Features
- Low volume and low voltage drop
- Practically no leakage current flow on the grounding conductor in normal operation because of the capacitor configuration (capacitive circuit to ground only through neutral)
- Insertion loss to CISPR 17

Design
The electrical components are incorporated in an RF-tight case of high-grade steel. The cables enter through glands. The RF-tight termination of the openings is produced by specially shaped lids.
The conductors and equipment grounding conductor are connected by threaded bolts. The surface around the fixing holes is left as bare metal (unpainted) to ensure good RF contact with metal surfaces (chassis, ground).

Protective measures (grounding)
The high capacitances between the lines and ground require special protective measures. If there are no product-specific requirements, protection with a secondary ground wire (cross section min. 10 mm$^2$) in accordance with EN 50178 is necessary. For this purpose the filter case have connecting bolts at each end.
Resistors are incorporated in the filter to discharge capacitors after turn-off.

Scope of supply
Filters are supplied complete with all parts required for RF-tight installation (fixing screws, flanges, RF gaskets, cable glands) and installation instructions.

Installation
No welding is needed on the shielding wall, so any subsequent installation is quite simple. And the uniform template of the attachment points allows straightforward replacement of 2-line filters by 4-line filters for example.

Accessories and special versions
RF-tight flexible connector fittings are available for installation spaced away from the shielding wall. Filters with an EMP protection add-on for surge currents up to 100 kA per line are available on request. To match requirements, filters can be supplied with different kinds of EMC or shielding cable glands.

Tests
All filters are 100% tested and the results are archived under a filter's serial number. If required, a test report can be generated for the serial number.
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16 to 100 A, 100 dB from 14 kHz

Circuit diagrams

2-line filters

![2-line filter diagram](SGR0158-C-E)

4-line filters

![4-line filter diagram](SGR0159-K-E)

R = 1 MΩ
Filters for power lines (low leakage current)  
B84263  
16 to 100 A, 100 dB from 14 kHz

**Insertion loss** $\alpha_e$ (typical values at $Z = 50 \, \Omega$)

**Measurement circuit**

Asymmetrical measurement circuit to MIL-STD-220A

**General technical data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>Unit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage 2-line filters</td>
<td>$V_R$</td>
<td>250 V</td>
<td>Line/line</td>
</tr>
<tr>
<td>Rated voltage 4-line filters</td>
<td>$V_R$</td>
<td>440 V</td>
<td>Line/line</td>
</tr>
<tr>
<td></td>
<td></td>
<td>250 V</td>
<td>Line/case</td>
</tr>
<tr>
<td>Rated frequency</td>
<td>$f_R$</td>
<td>50/60 Hz</td>
<td></td>
</tr>
<tr>
<td>Rated current</td>
<td>$I_R$</td>
<td>See characteristics</td>
<td>Referred to +40 °C ambient temperature</td>
</tr>
<tr>
<td>Maximum admissible overcurrent</td>
<td>$I_{over}$</td>
<td>$75 \cdot I_R$ for 50 ms</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>$10 \cdot I_R$ for 1 s</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>$2 \cdot I_R$ for 1 min</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>$1.4 \cdot I_R$ for 15 min</td>
<td></td>
</tr>
<tr>
<td>Test voltage</td>
<td>$V_{test}$</td>
<td>1200 VDC, 2 s</td>
<td>Line/line</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1200 VDC, 2 s</td>
<td>Line/case</td>
</tr>
<tr>
<td>Voltage drop/phase</td>
<td>$\Delta V$</td>
<td>$&lt;1$ %</td>
<td>Of $V_R$ at 50 Hz and $I_R$</td>
</tr>
<tr>
<td>Maximum DC resistance</td>
<td>$R_{max}$</td>
<td>See characteristics</td>
<td>Per line</td>
</tr>
</tbody>
</table>
### General technical data (continued)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power dissipation ( P_D )</td>
<td>See characteristics</td>
</tr>
<tr>
<td>Capacitive leakage current ( I_{\text{leak}} )</td>
<td>See characteristics</td>
</tr>
<tr>
<td>Difference potential N to PE at 50 Hz</td>
<td>To EN 50160</td>
</tr>
<tr>
<td>Max. permissible harmonic distortion (THD)</td>
<td>8%</td>
</tr>
<tr>
<td>Permissible ambient temperature ( T_A )</td>
<td>−25/+40 °C</td>
</tr>
<tr>
<td>Climatic category (EN 60068-1)</td>
<td>25/085/56 °C/56 days damp</td>
</tr>
<tr>
<td>Mechanical version</td>
<td>Cable glands at both ends</td>
</tr>
<tr>
<td></td>
<td>or flexible connector fitting</td>
</tr>
<tr>
<td></td>
<td>Direct connection to shielding wall</td>
</tr>
</tbody>
</table>

### Characteristics and ordering codes

<table>
<thead>
<tr>
<th>( I_R ) (A)</th>
<th>Mechanical version</th>
<th>( R_{\text{max}} ) (mΩ)</th>
<th>( P_D ) (W)</th>
<th>( I_{\text{leak}} ) (mA/V)</th>
<th>Dimensional drawing</th>
<th>Page</th>
<th>Approx. weight (kg)</th>
<th>Ordering code</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>C</td>
<td>&lt; 40</td>
<td>&lt; 18</td>
<td>&lt; 2</td>
<td>1</td>
<td>6</td>
<td>8</td>
<td>B84263C0022B013</td>
</tr>
<tr>
<td>16</td>
<td>D</td>
<td>&lt; 40</td>
<td>&lt; 18</td>
<td>&lt; 2</td>
<td>2</td>
<td>7</td>
<td>8</td>
<td>B84263D0022B013</td>
</tr>
<tr>
<td>40</td>
<td>C</td>
<td>&lt; 20</td>
<td>&lt; 60</td>
<td>&lt; 2.5</td>
<td>3</td>
<td>8</td>
<td>18</td>
<td>B84263C0023B013</td>
</tr>
<tr>
<td>40</td>
<td>D</td>
<td>&lt; 20</td>
<td>&lt; 60</td>
<td>&lt; 2.5</td>
<td>4</td>
<td>9</td>
<td>18</td>
<td>B84263D0023B013</td>
</tr>
<tr>
<td>16</td>
<td>C</td>
<td>&lt; 80</td>
<td>&lt; 60</td>
<td>&lt; 2</td>
<td>5</td>
<td>10</td>
<td>25</td>
<td>B84263C1160E003</td>
</tr>
<tr>
<td>16</td>
<td>D</td>
<td>&lt; 80</td>
<td>&lt; 60</td>
<td>&lt; 2</td>
<td>6</td>
<td>11</td>
<td>25</td>
<td>B84263D1160E003</td>
</tr>
<tr>
<td>40</td>
<td>C</td>
<td>&lt; 30</td>
<td>&lt; 140</td>
<td>&lt; 2.5</td>
<td>7</td>
<td>12</td>
<td>27</td>
<td>B84263C1400E003</td>
</tr>
<tr>
<td>40</td>
<td>D</td>
<td>&lt; 30</td>
<td>&lt; 140</td>
<td>&lt; 2.5</td>
<td>8</td>
<td>13</td>
<td>27</td>
<td>B84263D1400E003</td>
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<tr>
<td>100</td>
<td>C</td>
<td>&lt; 6</td>
<td>&lt; 70</td>
<td>&lt; 2.5</td>
<td>9</td>
<td>14</td>
<td>50</td>
<td>B84263C11101E003</td>
</tr>
<tr>
<td>100</td>
<td>D</td>
<td>&lt; 6</td>
<td>&lt; 180</td>
<td>&lt; 2.5</td>
<td>10</td>
<td>15</td>
<td>50</td>
<td>B84263D11101E003</td>
</tr>
</tbody>
</table>
**Filters for power lines (low leakage current)**

**B84263**

_16 to 100 A, 100 dB from 14 kHz_

**Dimensional drawings**

**Dimensional drawing 1** (cable glands at both ends)  

B84263C0022B013

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1. **Input end:** Cable gland PG 21 (mounted)
2. **Shielded end:** Cable gland PG 29/21  
   (cable gland PG 29, PG 21 and reducer ring in accessory bag)

**Paint color:** RAL 7035 (light gray, semigloss)

**Fixing dimensions**

---

The cable glands (with cutout sealing ring) are suitable for the following overall cable diameter:

<table>
<thead>
<tr>
<th>PG 29</th>
<th>17 to 19 mm</th>
<th>20 to 22 mm</th>
<th>23 to 25 mm</th>
<th>26 to 28 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG 21</td>
<td>9 to 11 mm</td>
<td>12 to 14 mm</td>
<td>15 to 17 mm</td>
<td>18 to 20 mm</td>
</tr>
</tbody>
</table>

RF-tight connection to shielding wall with connector fitting, see page 16.
Filters for power lines (low leakage current)  
B84263  
16 to 100 A, 100 dB from 14 kHz

**Dimensional drawing 2** (direct connection to shielding wall)  

B84263D0022B013

1. **Input end:** Cable gland PG 21 (mounted)
2. **Shielded end:** Cable gland PG 29/21  
   (cable gland PG 29, PG 21 and reducer ring in accessory bag)

**Paint color:** RAL 7035 (light gray, semigloss)

**Fixing dimensions**

The cable glands (with cutout sealing ring) are suitable for the following overall cable diameter:

<table>
<thead>
<tr>
<th>PG 29</th>
<th>17 to 19 mm</th>
<th>20 to 22 mm</th>
<th>23 to 25 mm</th>
<th>26 to 28 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG 21</td>
<td>9 to 11 mm</td>
<td>12 to 14 mm</td>
<td>15 to 17 mm</td>
<td>18 to 20 mm</td>
</tr>
</tbody>
</table>

RF-tight connection to shielding wall, see page 16.
Filters for power lines (low leakage current)  B84263
16 to 100 A, 100 dB from 14 kHz

**Dimensional drawing 3** (cable glands at both ends)  2 x 40 A

B84263C0023B013

1. Input end: Cable gland PG 21 (mounted)
2. Shielded end: Cable gland PG 29/21
   (cable gland PG 29, PG 21 and reducer ring in accessory bag)

Paint color: RAL 7035 (light gray, semigloss)

**Fixing dimensions**

The cable glands (with cutout sealing ring) are suitable for the following overall cable diameter:

<table>
<thead>
<tr>
<th>Cylinder marking</th>
<th>Diameter</th>
<th>Diameter</th>
<th>Diameter</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG 29</td>
<td>17 to 19 mm</td>
<td>20 to 22 mm</td>
<td>23 to 25 mm</td>
<td>26 to 28 mm</td>
</tr>
<tr>
<td>PG 21</td>
<td>9 to 11 mm</td>
<td>12 to 14 mm</td>
<td>15 to 17 mm</td>
<td>18 to 20 mm</td>
</tr>
</tbody>
</table>

RF-tight connection to shielding wall with connector fitting, see page 16.
Filters for power lines (low leakage current)  
B84263  
16 to 100 A, 100 dB from 14 kHz

**Dimensional drawing 4** (direct connection to shielding wall)  
2 x 40 A  
B84263D0023B013

![Dimensional drawing 4](image_url)

1. Input end: Cable gland PG 21 (mounted)
2. Shielded end: Cable gland PG 29/21  
   (cable gland PG 29, PG 21 and reducer ring in accessory bag)

Paint color: RAL 7035 (light gray, semigloss)

**Fixing dimensions**

![Fixing dimensions](image_url)

The cable glands (with cutout sealing ring) are suitable for the following overall cable diameter:

<table>
<thead>
<tr>
<th>PG 29</th>
<th>17 to 19 mm</th>
<th>20 to 22 mm</th>
<th>23 to 25 mm</th>
<th>26 to 28 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG 21</td>
<td>9 to 11 mm</td>
<td>12 to 14 mm</td>
<td>15 to 17 mm</td>
<td>18 to 20 mm</td>
</tr>
</tbody>
</table>

RF-tight connection to shielding wall, see page 16.
**Filters for power lines (low leakage current)**

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**16 to 100 A, 100 dB from 14 kHz**

**Dimensional drawing 5** (cable glands at both ends)  
B84263C1160E003

1. **Input end:** Cable gland PG 29/21  
   (PG 29 mounted, PG 21 and reducer ring in accessory bag)

2. **Shielded end:** Cable gland PG 29/21  
   (cable gland PG 29, PG 21 and reducer ring in accessory bag)

Paint color: RAL 7035 (light gray, semigloss)

**Fixing dimensions**

The cable glands (with cutout sealing ring) are suitable for the following overall cable diameter:

<table>
<thead>
<tr>
<th>Cable</th>
<th>17 to 19 mm</th>
<th>20 to 22 mm</th>
<th>23 to 25 mm</th>
<th>26 to 28 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG 29</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PG 21</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

RF-tight connection to shielding wall with connector fitting, see page 16.
Dimensional drawing 6 (direct connection to shielding wall) 4 x 16 A

B84263D1160E003

---

① Input end: Cable gland PG 29/21
(PG 29 mounted, PG 21 and reducer ring in accessory bag)

② Shielded end: Cable gland PG 29/21
(cable gland PG 29, PG 21 and reducer ring in accessory bag)

Paint color: RAL 7035 (light gray, semigloss)

**Fixing dimensions**

The cable glands (with cutout sealing ring) are suitable for the following overall cable diameter:

<table>
<thead>
<tr>
<th>PG 29</th>
<th>17 to 19 mm</th>
<th>20 to 22 mm</th>
<th>23 to 25 mm</th>
<th>26 to 28 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG 21</td>
<td>9 to 11 mm</td>
<td>12 to 14 mm</td>
<td>15 to 17 mm</td>
<td>18 to 20 mm</td>
</tr>
</tbody>
</table>

RF-tight connection to shielding wall, see page 16.
Dimensional drawing 7 (cable glands at both ends) 4 x 40 A

Input end: Cable gland PG 29/21
(PG 29 mounted, PG 21 and reducer ring in accessory bag)

Shielded end: Cable gland PG 29/21
(cable gland PG 29, PG 21 and reducer ring in accessory bag)

Paint color: RAL 7035 (light gray, semigloss)

Fixing dimensions

The cable glands (with cutout sealing ring) are suitable for the following overall cable diameter:

<table>
<thead>
<tr>
<th>PG 29</th>
<th>17 to 19 mm</th>
<th>20 to 22 mm</th>
<th>23 to 25 mm</th>
<th>26 to 28 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG 21</td>
<td>9 to 11 mm</td>
<td>12 to 14 mm</td>
<td>15 to 17 mm</td>
<td>18 to 20 mm</td>
</tr>
</tbody>
</table>

RF-tight connection to shielding wall with connector fitting, see page 16.
Filters for power lines (low leakage current)  
B84263  
16 to 100 A, 100 dB from 14 kHz

**Dimensional drawing 8** (direct connection to shielding wall)  
B84263D1400E003

1. Input end: Cable gland PG 29/21  
(PG 29 mounted, PG 21 and reducer ring in accessory bag)
2. Shielded end: Cable gland PG 29/21  
(cable gland PG 29, PG 21 and reducer ring in accessory bag)

Paint color: RAL 7035 (light gray, semigloss)

**Fixing dimensions**

The cable glands (with cutout sealing ring) are suitable for the following overall cable diameter:

<table>
<thead>
<tr>
<th>PG 29</th>
<th>17 to 19 mm</th>
<th>20 to 22 mm</th>
<th>23 to 25 mm</th>
<th>26 to 28 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG 21</td>
<td>9 to 11 mm</td>
<td>12 to 14 mm</td>
<td>15 to 17 mm</td>
<td>18 to 20 mm</td>
</tr>
</tbody>
</table>

RF-tight connection to shielding wall, see page 16.
Dimensional drawing 9 (cable glands at both ends)  4 x 100 A

Input end:  Cable gland PG 42/29  
(PG 42 mounted, PG 29 and reducer ring in accessory bag)

Shielded end:  Cable gland PG 42/29  
(cable gland PG 42, PG 29 and reducer ring in accessory bag)

Paint color: RAL 7035 (light gray, semigloss)

Fixing dimensions

The cable glands (with cutout sealing ring) are suitable for the following overall cable diameter:

<table>
<thead>
<tr>
<th>Cable Type</th>
<th>Diameter Range</th>
<th>29 to 31 mm</th>
<th>32 to 34 mm</th>
<th>35 to 37 mm</th>
<th>38 to 40 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG 42</td>
<td>29 to 31 mm</td>
<td>32 to 34 mm</td>
<td>35 to 37 mm</td>
<td>38 to 40 mm</td>
<td></td>
</tr>
<tr>
<td>PG 29</td>
<td>17 to 19 mm</td>
<td>20 to 22 mm</td>
<td>23 to 25 mm</td>
<td>26 to 28 mm</td>
<td></td>
</tr>
</tbody>
</table>

RF-tight connection to shielding wall with connector fitting, see page 16.
Filters for power lines (low leakage current)  
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**Dimensional drawing 10** (direct connection to shielding wall)  
B84263D1101E003

1. Input end: Cable gland PG 42/29  
(PG 42 mounted, PG 29 and reducer ring in accessory bag)

2. Shielded end: Cable gland PG 42/29  
(cable gland PG 42, PG 29 and reducer ring in accessory bag)

Paint color: RAL 7035 (light gray, semigloss)

**Fixing dimensions**

The cable glands (with cutout sealing ring) are suitable for the following overall cable diameter:

<table>
<thead>
<tr>
<th>PG 42</th>
<th>29 to 31 mm</th>
<th>32 to 34 mm</th>
<th>35 to 37 mm</th>
<th>38 to 40 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG 29</td>
<td>17 to 19 mm</td>
<td>20 to 22 mm</td>
<td>23 to 25 mm</td>
<td>26 to 28 mm</td>
</tr>
</tbody>
</table>

RF-tight connection to shielding wall, see page 16.
RF-tight connection to shielding wall with connector fitting (mechanical version C)

![Diagram of RF-tight connection]

<table>
<thead>
<tr>
<th>Cable gland</th>
<th>Connector fitting (must be ordered separately)</th>
<th>Ordering code</th>
<th>Hole in shielding wall</th>
<th>Bare metal area on shielding wall</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG 29</td>
<td>Nominal width 25 mm</td>
<td>B84298A0042L***</td>
<td>∅ 37 +0.5 mm</td>
<td>∅ 55 +5 mm</td>
</tr>
<tr>
<td>PG 42</td>
<td>Nominal width 40 mm</td>
<td>B84298A0044L***</td>
<td>∅ 54 +0.5 mm</td>
<td>∅ 70 +5 mm</td>
</tr>
</tbody>
</table>

(***: add required length in cm (see also chapter "Installation accessories").)

RF-tight connection to shielding wall (mechanical version D)

![Diagram of RF-tight connection]

<table>
<thead>
<tr>
<th>Cable gland</th>
<th>Parts for RF-tight mounting (in accessory bag)</th>
<th>Required hole in shielding wall</th>
<th>Bare metal area on shielding wall</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG 21</td>
<td>Suitable cable gland with long thread, RF gasket and check nut.</td>
<td>∅ 37 +0.5 mm</td>
<td>∅ 55 +5 mm</td>
</tr>
<tr>
<td>PG 29</td>
<td>Suitable cable gland with long thread, RF gasket and check nut.</td>
<td>∅ 54 +0.5 mm</td>
<td>∅ 70 +5 mm</td>
</tr>
</tbody>
</table>
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The following applies to all products named in this publication:

1. Some parts of this publication contain **statements about the suitability of our products for certain areas of application**. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out that such statements cannot be regarded as **binding statements about the suitability of our products for a particular customer application**. As a rule we are either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether a product with the properties described in the product specification is suitable for use in a particular customer application.

2. We also point out that **in individual cases, a malfunction of electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified**. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or life-saving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of an electronic component.

3. **The warnings, cautions and product-specific notes must be observed.**

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