

EMC filters

Feedthrough components Capacitors

Series/Type: B85121

The following products presented in this data sheet are being withdrawn.

| Ordering Code | Substitute Product | Date of Withdrawal | Deadline Last Orders | Last Shipments |
|-----------------|--------------------|-----------------------|-------------------------|-------------------|
| B85121A4503B250 | | 2015-03-13 | 2015-06-30 | 2015-09-30 |
| B85121A4252C160 | | 2015-03-13 | 2015-06-30 | 2015-09-30 |
| B85121A2503C160 | | 2015-03-13 | 2015-06-30 | 2015-09-30 |

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| Ordering Code | Substitute Product | Date of Withdrawal | Deadline Last Orders | Last Shipments |
|-----------------|--------------------|-----------------------|-------------------------|-------------------|
| B85121A2503B250 | | 2015-03-13 | 2015-06-30 | 2015-09-30 |
| B85121A2353A250 | | 2015-03-13 | 2015-06-30 | 2015-09-30 |
| B85121A2105A750 | | 2015-03-13 | 2015-06-30 | 2015-09-30 |
| B85121A2105A630 | | 2015-03-13 | 2015-06-30 | 2015-09-30 |
| B85121A2105A250 | | 2015-03-13 | 2015-06-30 | 2015-09-30 |
| B85121A2105A201 | | 2015-03-13 | 2015-06-30 | 2015-09-30 |
| B85121A2105A101 | | 2015-03-13 | 2015-06-30 | 2015-09-30 |
| B85121A2104E750 | | 2015-03-13 | 2015-06-30 | 2015-09-30 |
| B85121A2103C160 | | 2015-03-13 | 2015-06-30 | 2015-09-30 |
| B85121A1104C160 | | 2015-03-13 | 2015-06-30 | 2015-09-30 |

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Feedthrough components

B85121

Capacitors

Rated voltage V_R: 110 V AC to 440 V AC

Rated current I_R: 16 A to 200 A

Rated capacitance C_R : 0.0025 μF to 4.7 μF

Construction

- Building-block system
- MKP/MKT technology (dry, self-healing)
 Dielectric: polypropylene or polyester, metallized
- Metal case, polyurethane potting (UL 94 V-0)
- For central screw fixing

Features

- Compact dimensions
- High insertion loss
- Easy to install
- High contact reliability thanks to central screw fixing
- Design complies with IEC 60384-14
- UL 60384-14 pending

Typical applications

Broadband interference suppression for AC/DC supply lines, e. g. in

- shielded rooms
- telephone exchanges, base stations
- electrical machines and systems
- power supplies

Terminals

- Threaded studs
- Axial leads

Marking

Marking on component:

Manufacturer's logo, ordering code, rated capacitance, rated voltage, rated current, climatic category, circuit diagram, date code

Minimum data on packaging:

Manufacturer's logo, ordering code, quantity, date code

Circuit diagram







| Feedthrough components | B85121A*160 |
|------------------------|---------------|
| Capacitors | Ø 16 mm, 16 A |

Feedthrough capacitors Ø 16 mm

Technical data and measuring conditions

| Rated voltage V _R | 110 V AC 440 V AC (50/60 Hz) / 160 V DC 600 V DC |
|---------------------------------|--|
| Rated current I _R | Referred to 40 °C rated temperature |
| | Reduced current values at 400 Hz |
| Capacitance tolerance | ±20% |
| Climatic category (IEC 60068-1) | 40/085/56 (-40 °C/+85 °C/56 days damp heat test) |
| Screw cap fixing | M10 × 0.75 |
| Approvals | UL 60384-14, 250 V AC pending ¹⁾ |

¹⁾ UL1283 approval expired in Dec. 2013

Characteristics and ordering codes

| I _R | C _R | V _R DC | V _{test} DC | Terminal | Approx. weight | Ordering code | Approvals |
|--------------------|----------------|----------------------|-------------------------|-------------|-------------------|-----------------|-----------|
| Α | μF | V | V | | g | | 71 |
| | 10 V AC | | | | <u> </u> 9 | | /L |
| v _R – I | 10 1 70 | | | | | | |
| 16 | 0.1 | 160 | 800 | Axial leads | 45 | B85121A1104C160 | Р |
| $V_R = 25$ | 50 V AC | | | | | | |
| 16 | 0.01 | 600 | 1750 | Axial leads | 45 | B85121A2103C160 | Р |
| 16 | 0.05 | 600 | 1750 | Axial leads | 45 | B85121A2503C160 | Р |
| $V_R = 44$ | 40 V AC | | | | | | |
| 16 | 0.0025 | 600 | 4350 | Axial leads | 45 | B85121A4252C160 | Р |

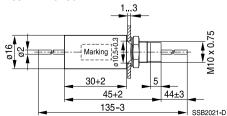
P = Approval pending

Insertion loss (dB); typical values at 50 Ω

| C _R (μF) | 10 kHz | 100 kHz | 1 MHz | 10 MHz | 100 MHz | > 300 MHz |
|---------------------|--------|---------|-------|--------|---------|-----------|
| 0.0025 | - | - | _ | 12 | 45 | > 60 |
| 0.01 | _ | _ | 4 | 25 | 55 | > 70 |
| 0.05 | - | 1 | 17 | 35 | 52 | > 80 |
| 0.1 | _ | 4 | 20 | 40 | 60 | > 80 |

Dimensional drawing

B85121A*C160



Tightening torque: 3 +0.5 Nm General tolerances according to ISO 2768-cL Dimensions in mm



| Feedthrough components | B85121A*250, E750 |
|------------------------|---------------------|
| Capacitors | Ø 20 mm, 25 A, 75 A |

Feedthrough capacitors Ø 20 mm

Technical data and measuring conditions

| Rated voltage V _R | 250 V AC 440 V AC (50/60 Hz) / 600 V DC |
|---------------------------------|--|
| Rated current I _R | Referred to 40 °C rated temperature |
| | (B85121A*E750 referred to 50 °C rated temperature) |
| | Reduced current values at 400 Hz |
| Capacitance tolerance | ±20% |
| Climatic category (IEC 60068-1) | 40/085/56 (-40 °C/+85 °C/56 days damp heat test) |
| Screw cap fixing | M12 × 0.75 |
| Approvals | UL 60384-14, 250 V AC pending ¹⁾ |

¹⁾ UL1283 approval expired in Dec. 2013

Characteristics and ordering codes

| I _R | C _R | V _{test} DC | Terminal | Figure | Approx. weight | Ordering code | Approvals |
|------------------|----------------|-------------------------|-------------|--------|----------------|-----------------|-----------|
| Α | μF | V | | | g | | 71 |
| V _R = | 250 V A | AC, V _R : | = 600 V DC | | | | |
| 25 | 0.035 | 4000 | M4 | 1 | 60 | B85121A2353A250 | Р |
| 25 | 0.05 | 4000 | Axial leads | 2 | 60 | B85121A2503B250 | Р |
| 75 | 0.1 | 1700 | M6 | 3 | 70 | B85121A2104E750 | Р |
| V _R = | 440 V A | AC, V _R : | = 600 V DC | | | | |
| 25 | 0.05 | 4000 | Axial leads | 2 | 60 | B85121A4503B250 | Р |

P = Approval pending

Insertion loss (dB); typical values at 50 Ω

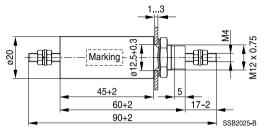
| C _R (μF) | 10 kHz | 100 kHz | 1 MHz | 10 MHz | 100 MHz | > 300 MHz |
|---------------------|--------|---------|-------|--------|---------|-----------|
| 0.035 | - | 1 | 12 | 32 | 55 | > 90 |
| 0.05 | _ | 2 | 18 | 35 | 60 | > 90 |
| 0.1 | - | 5 | 22 | 40 | 70 | > 90 |



| Feedthrough components | B85121A*250, E750 |
|------------------------|---------------------|
| Capacitors | Ø 20 mm, 25 A, 75 A |

Dimensional drawings

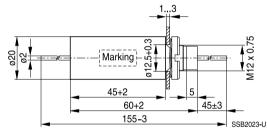
Figure 1, B85121A2353A250



| Thread | Tightening torque |
|-------------------|-------------------|
| M4 | 1.2 +0.1 Nm |
| $M12 \times 0.75$ | 4.0 +0.5 Nm |

General tolerances according to ISO 2768-cL Dimensions in mm

Figure 2, B85121A*B250

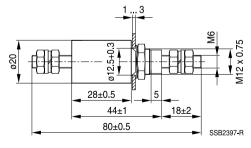


Tightening torque: 4 +0.5 Nm

General tolerances according to ISO 2768-cL

Dimensions in mm

Figure 3, B85121A2104E750



| Thread | Tightening torque |
|------------|-------------------|
| M6 | 3 +0.1 Nm |
| M12 × 0.75 | 4 +0.5 Nm |

General tolerances according to ISO 2768-cL Dimensions in mm



| Feedthrough components | B85121A*A250, A750 |
|------------------------|---------------------|
| Capacitors | Ø 30 mm, 25 A, 75 A |

Feedthrough capacitors Ø 30 mm

Technical data and measuring conditions

| | |
|---------------------------------|--|
| Rated voltage V _R | 250 V AC (50/60 Hz) / 600 V DC |
| Rated current I _R | Referred to 40 °C rated temperature |
| | Reduced current values at 400 Hz |
| Capacitance tolerance | ±20% |
| Climatic category (IEC 60068-1) | 40/085/56 (-40 °C/+85 °C/56 days damp heat test) |
| Screw cap fixing | M20 × 1 |
| Approvals | UL 60384-14, 250 V AC pending ¹⁾ |

¹⁾ UL1283 approval expired in Dec. 2013

Characteristics and ordering codes

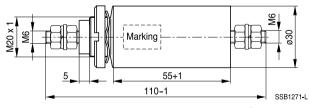
| I _R | C _R | Terminal | Approx. weight | Ordering code | Approvals |
|----------------|------------------------|-----------------------------------|----------------|-----------------|------------|
| Α | μF | | g | | <i>9</i> 7 |
| $V_{R} = 250$ | V AC, V _R : | = 600 V DC, V _{test} = 2 | 2000 V DC | | |
| 25 | 1.0 | M6 | 180 | B85121A2105A250 | Р |
| 75 | 1.0 | M6 | 180 | B85121A2105A750 | Р |

P = Approval pending

Insertion loss (dB); typical values at 50 Ω

| C _R (μF) | 10 kHz | 100 kHz | 1 MHz | 10 MHz | 100 MHz | 1 GHz |
|---------------------|--------|---------|-------|--------|---------|-------|
| 1.0 | 5 | 25 | 45 | 50 | 85 | > 90 |

Dimensional drawing



| Thread | Tightening torque |
|---------|-------------------|
| M6 | 3 +0.5 Nm |
| M20 × 1 | 10 +1 Nm |

General tolerances according to ISO 2768-cL Dimensions in mm



| Feedthrough components | B85121A*A630, A101, A201 |
|------------------------|--------------------------|
| Capacitors | Ø 55 mm, 63 A 200 A |

Feedthrough capacitors Ø 55 mm

Technical data and measuring conditions

| Rated voltage V _R | 250 V AC (50/60 Hz) / 600 V DC |
|---------------------------------|--|
| Rated current I _R | Referred to 40 °C rated temperature |
| | Reduced current values at 400 Hz |
| Capacitance tolerance | ±20% |
| Climatic category (IEC 60068-1) | 40/085/56 (-40 °C/+85 °C/56 days damp heat test) |
| Screw cap fixing | M32 × 1.5 |
| Approvals | UL 60384-14, 250 V AC pending ¹⁾ |

¹⁾ UL1283 approval expired in Dec. 2013

Characteristics and ordering codes

| I _R | C _R | V_{test} | Terminal | Dime | ension | S | Approx. | Ordering code | Approvals |
|----------------|----------------|------------|----------|------|--------|-------------------|---------|-----------------|------------|
| | | DC | | l+1 | I₁-1 | I ₂ -3 | weight | | |
| Α | μF | ٧ | | mm | | | g | | <i>7</i> 1 |
| $V_{R} = 25$ | 0 V AC, | $V_R = 60$ | 0 V DC | | | | | | |
| 63 | 0.5 | 3000 | M6 | 30 | 100 | 50 | 250 | B85121A2504A630 | Р |
| 63 | 1.0 | 2500 | M6 | 30 | 100 | 50 | 250 | B85121A2105A630 | Р |
| 63 | 2.0 | 2500 | M6 | 60 | 130 | 50 | 300 | B85121A2205A630 | Р |
| 63 | 4.7 | 2000 | M6 | 60 | 130 | 50 | 300 | B85121A2475A630 | Р |
| 100 | 0.5 | 3000 | M8 | 30 | 110 | 53 | 250 | B85121A2504A101 | Р |
| 100 | 1.0 | 2500 | M8 | 30 | 110 | 53 | 250 | B85121A2105A101 | Р |
| 100 | 2.0 | 2500 | M8 | 60 | 140 | 53 | 300 | B85121A2205A101 | Р |
| 100 | 4.7 | 2000 | M8 | 60 | 140 | 53 | 300 | B85121A2475A101 | Р |
| 200 | 0.5 | 3000 | M10 | 30 | 120 | 59 | 250 | B85121A2504A201 | Р |
| 200 | 1.0 | 2500 | M10 | 30 | 120 | 59 | 250 | B85121A2105A201 | Р |
| 200 | 2.0 | 2500 | M10 | 60 | 150 | 59 | 350 | B85121A2205A201 | Р |
| 200 | 4.7 | 2000 | M10 | 60 | 150 | 59 | 350 | B85121A2475A201 | P |

P = Approval pending

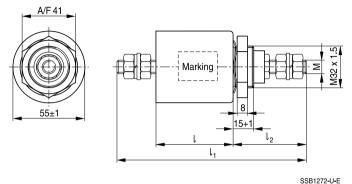
Insertion loss (dB); typical values at 50 Ω

| C _R (μF) | 10 kHz | 100 kHz | 1 MHz | 10 MHz | 100 MHz | 1 GHz |
|---------------------|--------|---------|-------|--------|---------|-------|
| 0.5 | 2 | 15 | 35 | 40 | 80 | > 90 |
| 1.0 | 5 | 25 | 45 | 50 | 85 | > 90 |
| 2.0 | 10 | 30 | 50 | 55 | > 90 | > 90 |
| 4.7 | 15 | 35 | 55 | 65 | > 90 | > 90 |



| Feedthrough components | B85121A*A630, A101, A201 |
|------------------------|--------------------------|
| Capacitors | Ø 55 mm, 63 A 200 A |

Dimensional drawing



General tolerances according to ISO 2768-cL Dimensions in mm

| Thread | Tightening torque |
|--------|-------------------|
| M6 | 3 +0.5 Nm |
| M8 | 5 +0.5 Nm |
| M10 | 8 +2 Nm |

| Thread | Tightening torque |
|-----------|-------------------|
| M32 × 1.5 | 24 +2.5 Nm |



Feedthrough components

B85121

Capacitors

Cautions and warnings

Please read all safety and warning notes carefully before installing the EMC filter and putting it into operation (see ...). The same applies to the warning signs on the filter. Please ensure that the signs are not removed nor their legibility impaired by external influences.

Death, serious bodily injury and substantial material damage to equipment may occur if the appropriate safety measures are not carried out or the warnings in the text are not observed.

Using according to the terms

The EMC filters may be used only for their intended application within the specified values in low-voltage networks in compliance with the instructions given in the data sheets and the data book. The conditions at the place of application must comply with all specifications for the filter used.

▲ Warning

- It shall be ensured that only qualified persons (electricity specialists) are engaged on work such as planning, assembly, installation, operation, repair and maintenance. They must be provided with the corresponding documentation.
- Danger of electric shock. EMC filters contain components that store an electric charge. Dangerous voltages can continue to exist at the filter terminals for longer than five minutes even after the power has been switched off.
- The protective earth connections shall be the first to be made when the EMC filter is installed and the last to be disconnected. Depending on the magnitude of the leakage currents, the particular specifications for making the protective-earth connection must be observed.
- Impermissible overloading of the EMC filter or filter, such as with circuits able to cause resonances, impermissible voltages at higher frequencies etc. can lead to bodily injury and death as well as cause substantial material damages (e.g. destruction of the filter housing).
- EMC filters and filters must be protected in the application against impermissible exceeding of the rated currents by overcurrent protective circuitry.
- In case of leakage currents >3.5 mA you shall mount the PE conductor stationary with the required cross section before beginning of operation and save it against disconnecting. For leakage currents I_L¹⁾ <10 mA the PE conductor must have a KU value²⁾ of 4.5 A³⁾; for leakage currents I_L ≥10 mA the PE conductor must have a KU value of 6.4)
- Output chokes and output filters must be protected in the application against impermissible exceeding of the component temperature.
- The converter output frequency must be within the specified range to avoid resonances and uncontrolled warming of the output chokes and output filters.

¹⁾ I_L = leakage current let-go

The KU value (symbol KU) is a classification parameter of safety-referred failure types designed to ensure protection against hazardous body currents and excessive heating.

A value of KU = 4.5 with respect to interruptions is attained with: a) a permanently connected protective earth circuit ≥2.5 mm² connected via shroud connectors (IEC 60309-2) and b) a protective earth circuit.

⁴⁾ KU = 6 with respect to interruptions is achieved for fixed – connection lines ≥10 mm² where the type of connection and line layout correspond to the requirements for PEN conductors as specified in relevant standards.



| Feedthrough components | B85121 |
|------------------------|--------|
| Canacitors | |

The table below summarizes the safety instructions that must be observed without fail. A detailed description can be found in the relevant chapters of the databook.

| Topic | Instructions | Reference chapter (data book), paragraph |
|---|--|--|
| Selecting a filter | When selecting a filter, it is mandatory to observe the rated data of the equipment (such as its rated input current, rated voltage, harmonic content etc.) as well as the derating instructions in Chapters 9 and 10. | Selection guide for converter filters |
| Rated voltage | When power distribution systems deviating from the symmetric TN-S system is to check the suitability of the EMC filters and the allowed voltages including the fault cases. | Power distribution systems, 7 |
| Protection from residual voltages Discharge resistors | Active parts must be discharged within 5 s to a voltage of less than 60 V (or 50 μ C). If this limit cannot be observed due to the operating mode, the hazardous point must be permanently marked in a clearly visible way. | Safety regulations, 6.1 |
| | Filters which are not permanently connected (e.g. when the test voltage is applied to the filter at the incoming goods inspection) must be discharged after the voltage has been switched off. | Safety regulations, 6.2 |
| Installing and removing of EMC filters and filters Installation | When installing and removing our EMC filters und filters, a voltage-free state must be set up and secured with observance of the five safety rules described in EN 50110-1. | Safety regulations, 6.4 |
| Use in IT systems | The special features of the IT system ("first fault case" and other fault cases) shall be observed. | Power distribution system (network types), 7.6 |
| Safety notes on leakage currents | The filter leakage currents specified in the data book are intended for user information only. The maximum leakage current of the entire electrical equipment or appliance has to be limited for safety reasons. Please obtain the applicable limits for your application from the relevant regulations, provisions and standards. | Leakage current, 8.4 Leakage current, 8.6 |
| Voltage derating Hazards caused by | If the permissible limits for the higher-frequency voltages at the filter are exceeded, the filter may be | Voltage derating, 9.8 |
| overloading the filters | damaged or destroyed. | |
| Current derating at elevated ambient temperatures | Non-observance of the current derating may lead to overheating and consequently represents a fire hazard. | Current derating, 10.1 |



| Feedthrough components | B85121 |
|------------------------|--------|
| Capacitors | |

| Topic | Instructions | Reference chapter (data book), paragraph |
|--|--|--|
| Protective earth connection at operating currents >250 A | For operating currents greater than 250 A, we recommend the PE connection to be set up between the feed (filter: line) and output (filter: load) not via the PE terminal bolt in the filter housing. | instructions, point |
| Mounting position | Note the mounting position of the filters! It must always be ensured that natural convection is not impaired. | • |
| Long motor cables | Long motor cables cause parasitic currents in the installation. The cable lengths indicated for the output chokes and output filters serve for orientation. The user must check the technical parameters and especially the choke temperatures for the respective application. | Mounting instructions, point 15 |

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| Feedthrough components | B85121 |
|------------------------|--------|
| Canacitors | |

Symbols and terms

| Symbol | English | German |
|-----------------------|---|----------------------------------|
| α | Insertion loss | Einfügungsdämpfung |
| C_R | Rated capacitance | Bemessungskapazität |
| C _x | Capacitance X capacitor | Kapazität X-Kondensator |
| C_Y | Capacitance Y capacitor | Kapazität Y-Kondensator |
| ΔV | Voltage drop (input to output) | Spannungsabfall im Filter |
| dv/dt | Rate of voltage rise | Spannungsanstiegsgeschwindigkeit |
| f | Frequency | Frequenz |
| M | Converter output frequency | Motorfrequenz |
| : P | Pulse frequency | Pulsfrequenz |
| R | Rated frequency | Bemessungsfrequenz |
| res | Resonant frequency | Resonanzfrequenz |
| С | Current through capacitor | Strom durch Kondensator |
| LK | Filter leakage current | Filter-Ableitstrom |
| max | Maximum current | Maximalstrom |
| N | Nominal current | Nennstrom |
| l _{op} | Operating current (design current) | Betriebsstrom |
| pk | Rated peak withstand current | Bemessungs-Stoßstromfestigkeit |
| Iq | Capacitive reactive current | Kapazitiver Blindstrom |
| R. | Rated current | Bemessungsstrom |
| S | Interference current | Störstrom |
| _ | Inductance | Induktivität |
| -R | Rated inductance | Bemessungsinduktivität |
| -stray | Stray inductance | Streuinduktivität |
| י _ר ב | Power loss | Verlustleistung |
| ₹ | Resistance | Widerstand |
| R is | Insulation resistance | Isolationswiderstand |
| R_{typ} | DC resistance, typical value | Gleichstromwiderstand, Richtwert |
| Γ _A | Ambient temperature | Umgebungstemperatur |
| Γ_{max} | Upper category temperature | Obere Kategorietemperatur |
| Γ_{min} | Lower category temperature | Untere Kategorietemperatur |
| Γ_{R} | Rated temperature | Bemessungstemperatur |
| J _k | Refered voltage drop in % | Bezogener Spannungsabfall in % |
| √ _{eff} | RMS voltage | Effektivspannung |
| √ _K | Voltage drop | Spannungsabfall |
| V LE | Voltage line to earth; voltage line to ground | Spannung Phase zu Erdpotential |
| √ _N | Nominal voltage | Nennspannung |
| √ _R | Rated voltage | Bemessungsspannung |
| √ _{peak} | Peak voltage | Spitzenspannung |
| V _{test} | Test voltage | Prüfspannung |
| √ _X | Voltage over X capacitor | Spannung über X-Kondensator |
| v _Y | Voltage over Y capacitor | Spannung über Y-Kondensator |
| X _L | Inductive reactance | Induktiver Blindwiderstand |
| Z | Impedance | Scheinwidertand |
| IZI | Impedance, absolute value | Scheinwiderstand (Betragswert) |



Important notes

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, EPCOS is 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 an EPCOS product with the properties described in the product specification is suitable for use in a particular customer application.
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- 3. The warnings, cautions and product-specific notes must be observed.
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D38999/20FC4PN L/C FN7561-63-M6 FN7563-200-M10 FN7611-63-M6 FN7660-100-M8 FN7660-200-M10 1202F-054 1609991-8

16DFC6-C 16FFD6-HE 2-1609992-2 2425-601-X5W0-103ZLF 2443-007-X5S0-102MLF 2443-007-X5W0-502ZLF 1609990-8 1609991-3

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