

## **EMC filters**

3-phase line reactors for converters 4 A ... 900 A, 40  $^\circ\text{C},$  50/60 Hz

Series/Type: B86305L Date: November 2018

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## Line reactors, output chokes and output filters

### 3-phase line reactors for converters

3-phase line reactors for converters Rated voltage  $V_R$ : 520 V AC Rated current  $I_R$ : 4 A to 900 A

#### Construction

- 3-phase line reactor
- Natural cooling

### Features

- Easy to install
- Low weight
- Compact design
- Design complies with IEC 60076-6
- Degree of protection<sup>1</sup>): IP20 (4 A ... 21 A, 35 A, 46 A) IP10 (30 A, 50 A, 60 A) IP00 (75 A ... 900 A)
- Inductance constant up to 1.5 × I<sub>R</sub>
- Inductance higher than 60% rated value at  $3 \times I_R$
- UL approved insulation system T-EIS-CF1 CF1

### **Typical applications**

- Frequency converters for motor drives, e.g.
  - elevators
  - pumps
  - traction systems
  - conveyor systems
  - HVAC systems (heating, ventilation and air conditioning)
- Power supplies

## Terminals

- Finger-safe terminal blocks (< 75 A)</p>
- Busbars from 75 A

## Marking

Marking on component:

Manufacturer's logo, ordering code, rated current, rated frequency, inductance, approximate weight, date code

Minimum data on packaging:

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

1) According to IEC 60529





## Line reactors, output chokes and output filters

## 3-phase line reactors for converters

#### Technical data and measuring conditions

| Rated voltage V <sub>R</sub>                                     | 520 V AC (50/60 Hz)                                |  |  |
|--|--|--|--|
| Rated current I <sub>R</sub> Referred to 40 °C rated temperature |  |  |  |
| Test voltage V <sub>test</sub>                                   | 1100 V DC, 2 s (line/line)                         |  |  |
|  | 2500 V DC, 2 s (lines/case)                        |  |  |
| Relative voltage drop $u_k$ in %                                 | At I <sub>R</sub> ; 50 Hz and 400 V AC             |  |  |
| Insulation class   | F (155 °C)   |  |  |
| Overload capability (thermal)                                    | 3 · I <sub>R</sub> , t < 3 s in 300 s              |  |  |
| Climatic category (IEC 60068-1)                                  | 25/100/21 (-25 °C/+100 °C/21 days damp heat test)  |  |  |
| Approvals  | Insulation system class 155 (F); T-EIS-CF1 UL 1446 |  |  |

#### Characteristics and ordering codes

| l <sub>R</sub> *       | U <sub>k</sub> | R <sub>typ</sub> <sup>1)</sup> | L <sub>R</sub> <sup>2)</sup> | PL <sup>3)</sup> | Approx. weight | Ordering code   |
|------------------------|----------------|--------------------------------|------------------------------|------------------|----------------|-----------------|
| А                      | %              | mΩ                             | mH                           | W                | kg             |                 |
| V <sub>R</sub> = 520 V | AC             |                                |                              |                  |                |                 |
| 4                      | 5.4            | 335.0                          | 10.0                         | 25               | 1.5            | B86305L0004R000 |
| 7                      | 4.0            | 112.0                          | 4.2                          | 31               | 2.1            | B86305L0007R000 |
| 10                     | 5.4            | 78.0                           | 4.0                          | 43               | 2.6            | B86305L0010R000 |
| 11                     | 3.6            | 63.0                           | 2.6                          | 37               | 2.5            | B86305L0011R000 |
| 16                     | 4.4            | 42.2                           | 2.0                          | 65               | 3.0            | B86305L0016R000 |
| 21                     | 4.0            | 24.0                           | 1.4                          | 62               | 4.8            | B86305L0021R000 |
| 30                     | 4.1            | 12.4                           | 1.0                          | 50               | 5.5            | B86305L0030R000 |
| 35                     | 4.0            | 11.0                           | 0.84                         | 80               | 6.6            | B86305L0035R000 |
| 46                     | 4.0            | 8.0                            | 0.64                         | 94               | 8.5            | B86305L0046R000 |
| 50                     | 4.1            | 7.8                            | 0.6                          | 120              | 8.4            | B86305L0050R000 |
| 60                     | 4.1            | 6.2                            | 0.5                          | 100              | 8.5            | B86305L0060R000 |
| 75                     | 4.1            | 5.7                            | 0.4                          | 170              | 12.0           | B86305L0075S000 |
| 100                    | 4.1            | 3.2                            | 0.3                          | 160              | 15.0           | B86305L0100S000 |
| 156                    | 4.2            | 1.47                           | 0.2                          | 250              | 21.5           | B86305L0156S000 |
| 230                    | 4.7            | 0.9                            | 0.15                         | 340              | 32.0           | B86305L0230S000 |
| 390                    | 4.0            | 0.46                           | 0.075                        | 400              | 49.2           | B86305L0390S000 |
| 600                    | 4.1            | 0.3                            | 0.05                         | 650              | 65.5           | B86305L0600S000 |
| 800                    | 4.1            | 0.2                            | 0.038                        | 880              | 84.5           | B86305L0800S000 |
| 900                    | 4.2            | 0.19                           | 0.034                        | 990              | 90.5           | B86305L0900S000 |

1) Typical value at 20  $^\circ\text{C},$  tolerance  $\pm10\%$ 

2) Tolerance -0%/+20%,

3) At I\_R , 50 Hz, 20  $^\circ\text{C}$ 

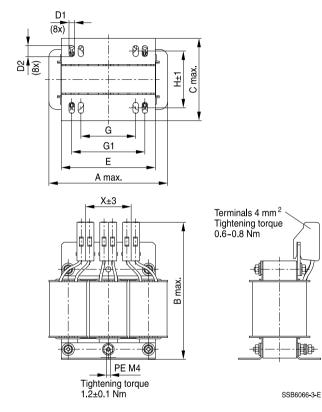
\* Higher current values upon request



3-phase line reactors for converters

### **Dimensional drawings**

## B86305L0004R000 ... B86305L0021R000 (4 A ... 21 A)



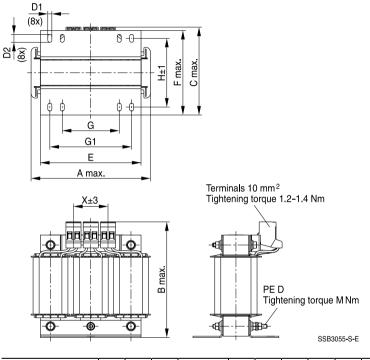
| Ordering code   | А   | В   | С   | $D1 \times D2$ | E   | G  | G1   | Н  | Х  |
|-----------------|-----|-----|-----|----------------|-----|----|------|----|----|
| B86305L0004R000 | 100 | 135 | 60  | 6×9            | 80  | 40 | 60   | 42 | 40 |
| B86305L0007R000 | 124 | 123 | 93  | 6 × 12         | 100 | 60 | 80.5 | 60 | 34 |
| B86305L0010R000 | 130 | 150 | 90  | 6×12           | 100 | 60 | 80.5 | 62 | 50 |
| B86305L0011R000 | 124 | 123 | 93  | 6 × 12         | 100 | 60 | 80.5 | 60 | 34 |
| B86305L0016R000 | 130 | 150 | 90  | 6 × 12         | 100 | 60 | 80.5 | 62 | 50 |
| B86305L0021R000 | 154 | 149 | 117 | 6 × 12         | 125 | 75 | 107  | 88 | 50 |

General tolerances according to ISO 2768-cL Dimensions in mm



#### 3-phase line reactors for converters

## B86305L0035R000, B86305L0046R000 (35 A, 46 A)



| Ordering code   | А   | В   | С   | $D1 \times D2$ | Е   | F   | G  | G1  | Н   | Х    | D  | M (Nm)   |
|-----------------|-----|-----|-----|----------------|-----|-----|----|-----|-----|------|----|----------|
| B86305L0035R000 | 154 | 153 | 137 | 6×12           | 125 | 127 | 75 | 107 | 98  | 51.5 | M4 | 1.2±0.1  |
| B86305L0046R000 | 183 | 180 | 138 | 6×12           | 150 | 133 | 85 | 122 | 104 | 51.5 | M6 | 3.0±0.15 |

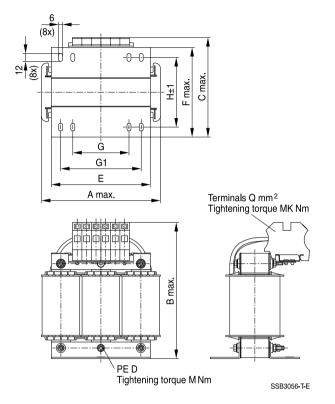
General tolerances according to ISO 2768-cL Dimensions in mm



## Line reactors, output chokes and output filters

### 3-phase line reactors for converters

## B86305L0030R000, B86305L0050R000, B86305L0060R000 (30 A, 50 A, 60 A)



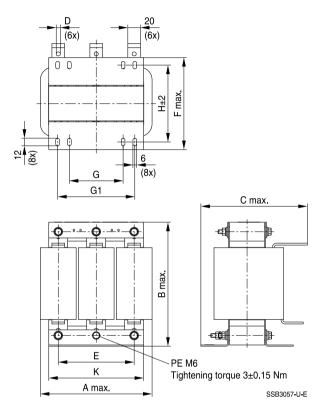
| Ordering code   | А   | В   | С   | Е   | F   | G  | G1  | Н     | Q                  | MK      | D  | М        |
|-----------------|-----|-----|-----|-----|-----|----|-----|-------|--------------------|---------|----|----------|
|                 |     |     |     |     |     |    |     |       | (mm <sup>2</sup> ) | (Nm)    |    | (Nm)     |
| B86305L0030R000 | 155 | 170 | 135 | 125 | 120 | 75 | 107 | 90    | 16                 | 2.0-2.3 | M4 | 1.2±0.1  |
| B86305L0050R000 | 185 | 200 | 150 | 150 | 131 | 85 | 122 | 104.5 | 16                 | 2.0-2.3 | M6 | 3.0±0.15 |
| B86305L0060R000 | 180 | 205 | 150 | 150 | 135 | 85 | 122 | 105   | 35                 | 3.2-3.7 | M6 | 3.0±0.15 |

General tolerances according to ISO 2768-cL Dimensions in mm



#### 3-phase line reactors for converters

## B86305L0075S000 (75 A)



| Ordering code   | А   | В   | С   | ØD  | Е   | F   | G  | G1  | Н   | к   |
|-----------------|-----|-----|-----|-----|-----|-----|----|-----|-----|-----|
| B86305L0075S000 | 185 | 202 | 175 | 6.5 | 120 | 148 | 85 | 122 | 122 | 150 |

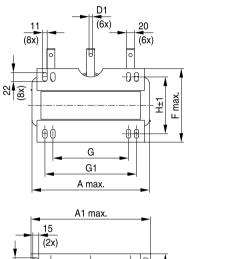
General tolerances according to ISO 2768-cL Dimensions in mm

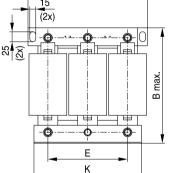


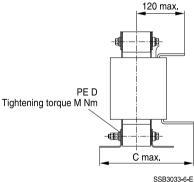
Line reactors, output chokes and output filters

3-phase line reactors for converters

## B86305L0100S000 ... B86305L0390S000 (100 A ... 390 A)







| Ordering code   | А   | A1  | В   | С   | ØD1 | Е   | F   | G   | G1  | Н   | К   | D   | М     |
|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
|                 |     |     |     |     |     |     |     |     |     |     |     |     | (Nm)  |
| B86305L0100S000 | 270 | 270 | 210 | 180 | 6.5 | 180 | 145 | 105 | 181 | 100 | 240 | M8  | 6±0.3 |
| B86305L0156S000 | 280 | 270 | 215 | 200 | 8.5 | 180 | 155 | 105 | 181 | 113 | 240 | M8  | 6±0.3 |
| B86305L0230S000 | 320 | 300 | 290 | 235 | 8.5 | 200 | 185 | 190 | 230 | 142 | 270 | M10 | 10±1  |
| B86305L0390S000 | 320 | 300 | 300 | 235 | 11  | 200 | 210 | 190 | 230 | 169 | 270 | M8  | 6±0.3 |

General tolerances according to ISO 2768-cL

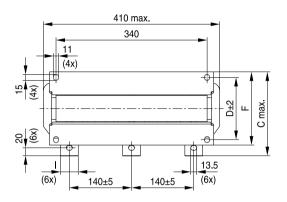
Dimensions in mm

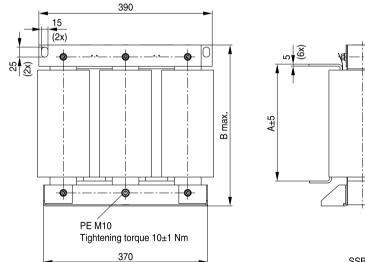


## Line reactors, output chokes and output filters

#### 3-phase line reactors for converters

## B86305L0600S000...B86305L0900S000 (600 A...900 A)





| -   | (ex)     | <br>₩ |        |
|-----|----------|-------|--------|
|     | <b>†</b> |       |        |
| A±5 |          |       |        |
| 1   |          |       | $\geq$ |

SSB3058-V-E

| Ordering code   | А   | B <sub>max.</sub> | C <sub>max.</sub> | D   | I  | F <sub>max.</sub> |
|-----------------|-----|-------------------|-------------------|-----|----|-------------------|
| B86305L0600S000 | 295 | 410               | 230               | 157 | 40 | 190               |
| B86305L0800S000 | 370 | 470               | 250               | 167 | 50 | 200               |
| B86305L0900S000 | 370 | 470               | 260               | 177 | 50 | 210               |

General tolerances according to ISO 2768-cL Dimensions in mm



#### 3-phase line reactors for converters

#### Cautions and warnings

Please read all safety and warning notes carefully before installing the filter and putting it into operation (see  $\triangle$ ). 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 filters may be used only for their intended application within the specified values in lowvoltage 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.

## A 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. 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 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 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).
- Filters must be protected in the application against impermissible exceeding of the rated currents by overcurrent protective devices.
- 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<sub>L</sub><sup>1)</sup> ≤10 mA the PE conductor must have a KU value<sup>2)</sup> of 4.5<sup>3</sup>; for leakage currents I<sub>L</sub> >10 mA the PE conductor must have a KU value of 6<sup>4</sup>.
- 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.
- Because the product can become very hot during operation, there is the risk of burns if touched. The product can remain hot for some time after the power is switched off!

 A value of KU = 4.5 with respect to interruptions is attained with: a) permanently connected protective earth connection ≥1.5 mm<sup>2</sup> and b) a protective earth connection ≥2.5 mm<sup>2</sup> via connectors for industrial equipment (IEC 60309-2)

<sup>1)</sup> I<sub>L</sub> = 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.

<sup>4)</sup> KU = 6 with respect to interruptions is achieved for fixed-connection lines ≥10 mm<sup>2</sup> where the type of connection and installation correspond to the requirements for PEN conductors as specified in relevant standards.



## Line reactors, output chokes and output filters

## 3-phase line reactors for converters

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.

| Торіс   | Instructions  | Reference chapter<br>(data book),<br>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<br>converter filters             |
| Rated voltage   | When power distribution systems deviating from the symmetric TN-S system is to check the suitability of the filters and the allowed voltages including the fault cases.   | Power distribution<br>systems,<br>7                  |
| Protection from<br>residual voltages<br>Discharge resistors         | Active parts must be discharged within 5 s to a voltage of less than 60 V (or 50 $\mu$ 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,<br>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,<br>6.2                           |
| Installing and<br>removing of filters<br>Installation               | When installing and removing our 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,<br>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<br>system (network<br>types), 7.6 |
| Safety notes on<br>leakage currents                                 | The filter leakage currents specified in the data book<br>are intended for user information only. The maximum<br>leakage current of the entire electrical equipment or<br>appliance has to be limited for safety reasons. Please<br>obtain the applicable limits for your application from<br>the relevant regulations, provisions and standards. | Leakage current,<br>8.4<br>Leakage current,<br>8.6   |
| Voltage derating<br>Hazards caused by<br>overloading the<br>filters | If the permissible limits for the higher-frequency voltages at the filter are exceeded, the filter may be damaged or destroyed.   | Voltage derating,<br>9.8                             |
| Current derating at<br>elevated ambient<br>temperatures             | Non-observance of the current derating may lead to overheating and consequently represents a fire hazard.   | Current derating, 10.1                               |



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## 3-phase line reactors for converters

| Торіс   | Instructions  | Reference chapter<br>(data book),<br>paragraph |
|---|---|--|
| Protective earth<br>connection at<br>operating currents<br>>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,                                  |
| Mounting position   | Note the mounting position of the filters! It must<br>always be ensured that natural convection is not<br>impaired.   | 0  |
| Long motor cables   | Long motor cables cause parasitic currents in the<br>installation. The cable lengths indicated for the output<br>chokes and output filters serve for orientation. The<br>user must check the technical parameters and<br>especially the choke temperatures for the respective<br>application. | Mounting<br>instructions,<br>point 15          |

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## 3-phase line reactors for converters

## Symbols and terms

| Symbol             | English                                       | German                           |
|--------------------|---|----------------------------------|
| α                  | Insertion loss                                | Einfügungsdämpfung               |
| C <sub>R</sub>     | Rated capacitance                             | Bemessungskapazität              |
| Cx                 | Capacitance X capacitor                       | Kapazität X-Kondensator          |
| C <sub>Y</sub>     | Capacitance Y capacitor                       | Kapazität Y-Kondensator          |
| $\Delta V$         | Voltage drop (input to output)                | Spannungsabfall im Filter        |
| dv/dt              | Rate of voltage rise                          | Spannungsanstiegsgeschwindigkeit |
| f                  | Frequency                                     | Frequenz                         |
| f <sub>M</sub>     | Converter output frequency                    | Motorfrequenz                    |
| f <sub>P</sub>     | Pulse frequency                               | Pulsfrequenz                     |
| f <sub>R</sub>     | Rated frequency                               | Bemessungsfrequenz               |
| f <sub>res</sub>   | Resonant frequency                            | Resonanzfrequenz                 |
| I <sub>c</sub>     | Current through capacitor                     | Strom durch Kondensator          |
| ILK                | Filter leakage current                        | Filter-Ableitstrom               |
| I <sub>max</sub>   | Maximum current                               | Maximalstrom                     |
| I <sub>N</sub>     | Nominal current                               | Nennstrom                        |
| I <sub>op</sub>    | Operating current (design current)            | Betriebsstrom                    |
| I <sub>pk</sub>    | Rated peak withstand current                  | Bemessungs-Stoßstromfestigkeit   |
| l <sub>a</sub>     | Capacitive reactive current                   | Kapazitiver Blindstrom           |
| I <sub>R</sub>     | Rated current                                 | Bemessungsstrom                  |
| ls                 | Interference current                          | Störstrom                        |
| Ľ                  | Inductance                                    | Induktivität                     |
| L <sub>B</sub>     | Rated inductance                              | Bemessungsinduktivität           |
| L <sub>stray</sub> | Stray inductance                              | Streuinduktivität                |
| PL                 | Power loss                                    | Verlustleistung                  |
| R                  | Resistance                                    | Widerstand                       |
| R <sub>is</sub>    | Insulation resistance                         | Isolationswiderstand             |
| R <sub>typ</sub>   | DC resistance, typical value                  | Gleichstromwiderstand, Richtwert |
| TA                 | Ambient temperature                           | Umgebungstemperatur              |
| T <sub>max</sub>   | Upper category temperature                    | Obere Kategorietemperatur        |
| T <sub>min</sub>   | Lower category temperature                    | Untere Kategorietemperatur       |
| T <sub>B</sub>     | Rated temperature                             | Bemessungstemperatur             |
| u <sub>k</sub>     | Refered voltage drop in %                     | Bezogener Spannungsabfall in %   |
| V <sub>eff</sub>   | RMS voltage                                   | Effektivspannung                 |
| Vĸ                 | Voltage drop                                  | Spannungsabfall                  |
| VIE                | Voltage line to earth; voltage line to ground | Spannung Phase zu Erdpotential   |
| VN                 | Nominal voltage                               | Nennspannung                     |
| V <sub>B</sub>     | Rated voltage                                 | Bemessungsspannung               |
| V <sub>peak</sub>  | Peak voltage                                  | Spitzenspannung                  |
| V <sub>test</sub>  | Test voltage                                  | Prüfspannung                     |
| V <sub>X</sub>     | Voltage over X capacitor                      | Spannung über X-Kondensator      |
| V <sub>y</sub>     | Voltage over Y capacitor                      | Spannung über Y-Kondensator      |
| XL                 | Inductive reactance                           | Induktiver Blindwiderstand       |
| Z                  | Impedance                                     | Scheinwidertand                  |
| Z                  | Impedance, absolute value                     | Scheinwiderstand (Betragswert)   |



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Release 2018-10

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|-----------------|------------------|-----------------|-----------------|-----------------|
| B86305L0035R000 | B86305L0011R000  | B86305L0060R000 | B86305L0030R000 | B86305L0016R000 |
| B86305L0100S000 | B86305L0010R000  | B86305L0390S000 | B86305L0050R000 | B86305L0075S000 |
| B86305L0156S000 | B86305L0600S000  | B86305L0800S000 | B86305L0900S000 |                 |



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



## Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный) **Факс:** 8 (812) 320-02-42 **Электронная почта:** <u>org@eplast1.ru</u> **Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.