RAILWAY TECHNOLOGY
INDUCTIVE COMPONENTS
AND POWER SUPPLIES

BLOCK custom and standard products for railway technology

Developed according to the latest railway technology standards
100 %
RAILWAY SYSTEMS REQUIRE A ROBUST AND PROVEN TECHNOLOGY FOR THEIR PRODUCTS. BLOCK’S FOCUS IS ON SUPPORTING THESE TYPES OF APPLICATIONS.

READY FOR ANY REQUIREMENT:
PRO-CONNECT

PRO-CONNECT: An enclosure design specifically to allow a combination of different IP-rated areas without additional gaskets. This reduces the system’s susceptibility to failures and minimizes installation costs.
OUR **SOLUTIONS**
TO BOOST YOUR TRANSPORTATION EFFICIENCY

- **HIGH RESISTANCE AGAINST HARSH CONDITIONS LIKE WATER, ICE, SNOW AND METAL DUST** ACCORDING TO **EN60310**
- **POLLUTION DEGREE PD4**
- **FIRE PROTECTION ACCORDING TO EN45545 HL3**

**REACTOR**
Ferrite core input reactor with cooling channels for natural air cooling

**EXAMPLE:**
Inductance: 230 µH
Current DC: 70 A
Current AC: 110 A
Main current harmonic frequency: 5 kHz

**REACTOR**
Air core reactor to minimize the effects of voltage sags and to limit peak currents
Prepared for forced air cooling with 3 m/s

**EXAMPLE:**
Inductance: 2,3 mH
Current RMS: 300 A
Current peak: 210 A (discontinuous mode)
Frequency: 30 kHz

**REACTOR**
Three-phase sine filter reactor with cooling channels for natural air cooling

**EXAMPLE:**
Inductance: 110 µH
Current RMS: 100 A
Fundamental frequency: 50 Hz
Main current harmonic frequency: 7400 Hz

**MF-TRANSFORMER**
Medium frequency transformer assembly with four single transformers

**EXAMPLE:**
Power: 2 x 100 kVA / 2 x 20 kVA
Primary voltage: 600 V
Secondary voltage: 750 V / 150 V
Frequency: 18 kHz
Weight: 65 kg

**PRO-CONNECT**
- **HIGH RESISTANCE AGAINST HARSH CONDITIONS LIKE WATER, ICE, SNOW AND METAL DUST** ACCORDING TO **EN60310**
- **POLLUTION DEGREE PD4**
- **FIRE PROTECTION ACCORDING TO EN45545 HL3**
**MF-TRANSFORMER**
Modular medium frequency transformer with scalable power rating
Prepared for forced air cooling with 3 m/s

**EXAMPLE:**
Power: 55 kVA
Primary voltage: 600 V
Secondary voltage: 750 V
Frequency: 20 kHz
Weight: 15 kg

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**REACTOR**
Ferrite core reactor for boost converters, which can be mounted on heat sink or cool plate

**EXAMPLE:**
Inductance: 12 µH
Current RMS: 110 A
Current peak: 210 A (discontinuous mode)
Frequency: 30 kHz

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**REACTOR**
EMC filter reactor for differential mode with integrated ferrite cores for common mode

**EXAMPLE:**
Inductance: 2 x 1,0 mH
Current DC: 90 A
PRO-CONNECT

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**MF-TRANSFORMER**
Encapsulated medium frequency transformer for mounting on heat sink or into container wall

**EXAMPLE:**
Power: 40 kVA
Primary voltage: 500 V
Secondary voltage: 600 V
Frequency: 8 kHz
Weight: 20 kg

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**MF-TRANSFORMER**
Medium frequency transformer with uncut nanocrystalline core technology: significant noise reduction, lower losses and heat dissipation

**EXAMPLE:**
Power: 50 kVA
Primary voltage: 500 V
Secondary voltage: 750 V
Frequency: 2,5 kHz square wave voltage
Weight: 30 kg
BEST-IN-CLASS
POWER COMPONENTS FOR SIGNAL AND LIGHTING TECHNOLOGY

We guarantee proven product reliability and longevity through the highest quality levels in compliance with railway standards. This is our contribution for better safety in railway transportation.

For example

• CURRENT CONVERTERS
• PCB TRANSFORMERS
• ISOLATING TRANSFORMERS
• LED DRIVER FOR TRACK FIELD LIGHTING
• ELECTRONIC CIRCUIT BREAKERS WITH IO-LINK INTERFACE
• DC-DC CONVERTER