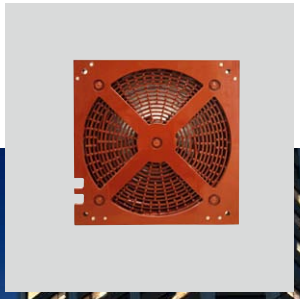
EN

2016/17
Edition 2

RAILWAY TECHNOLOGY INDUCTIVE COMPONENTS

BLOCK custom and standard products for railway technology

Developed according to the latest railway technology standards
100 %



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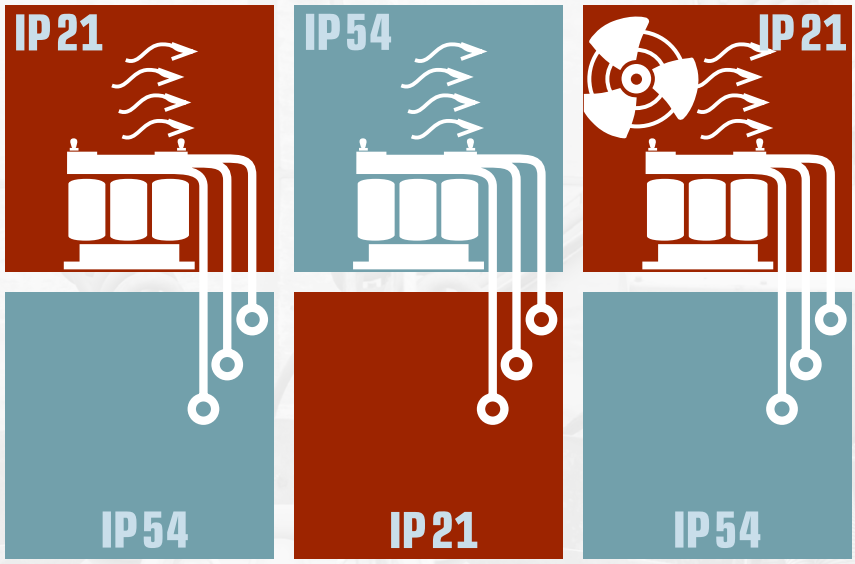
RAILWAY SYSTEMS REQUIRE A ROBUST AND PROVEN TECHNOLOGY FOR THEIR PRODUCTS.
BLOCK'S FOCUS IS ON SUPPORTING THESE TYPES OF APPLICATIONS.

READY FOR ANY REQUIREMENT: PRO-CONNECT

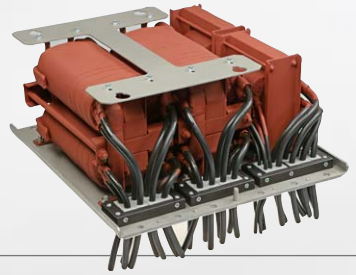


PRO-CONNECT: An enclosure design specifically to allow a combination of different IP-rated areas without additional gaskets. This reduces the system's susceptibility to failures and minimizes installation costs.

PRO CONNECT

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**

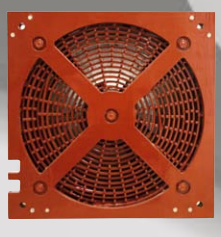


MF-TRANSFORMER
Medium frequency transformer assembly with four single transformers

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

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

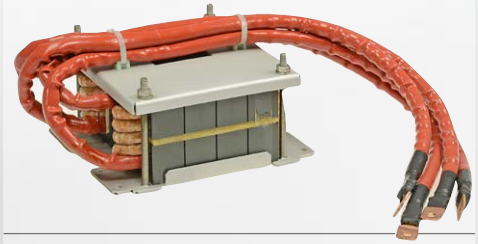


REACTOR
Air core reactor to minimize the effects of voltage sags and to limit peak currents
Prepared for forced air cooling with 3 m/s

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

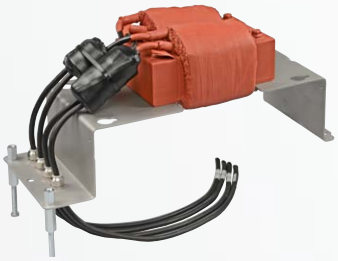
REACTOR
Three-phase sine filter reactor with cooling channels for natural air cooling

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



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



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

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

MF-TRANSFORMER
Modular medium frequency transformer with scalable power rating
Prepared for forced air cooling with 3 m/s

EXAMPLE:
9 Modules
Power: 250 kVA
Primary voltage: 600 V
Secondary voltage: 750 V
Frequency: 20 kHz
Weight: 60 kg
PRO-CONNECT

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

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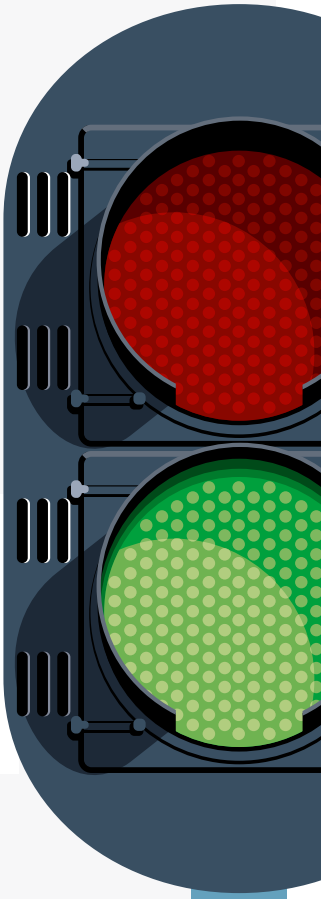
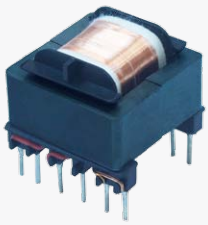


BEST-IN-CLASS
POWER COMPONENTS FOR SIGNAL TECHNOLOGY

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.

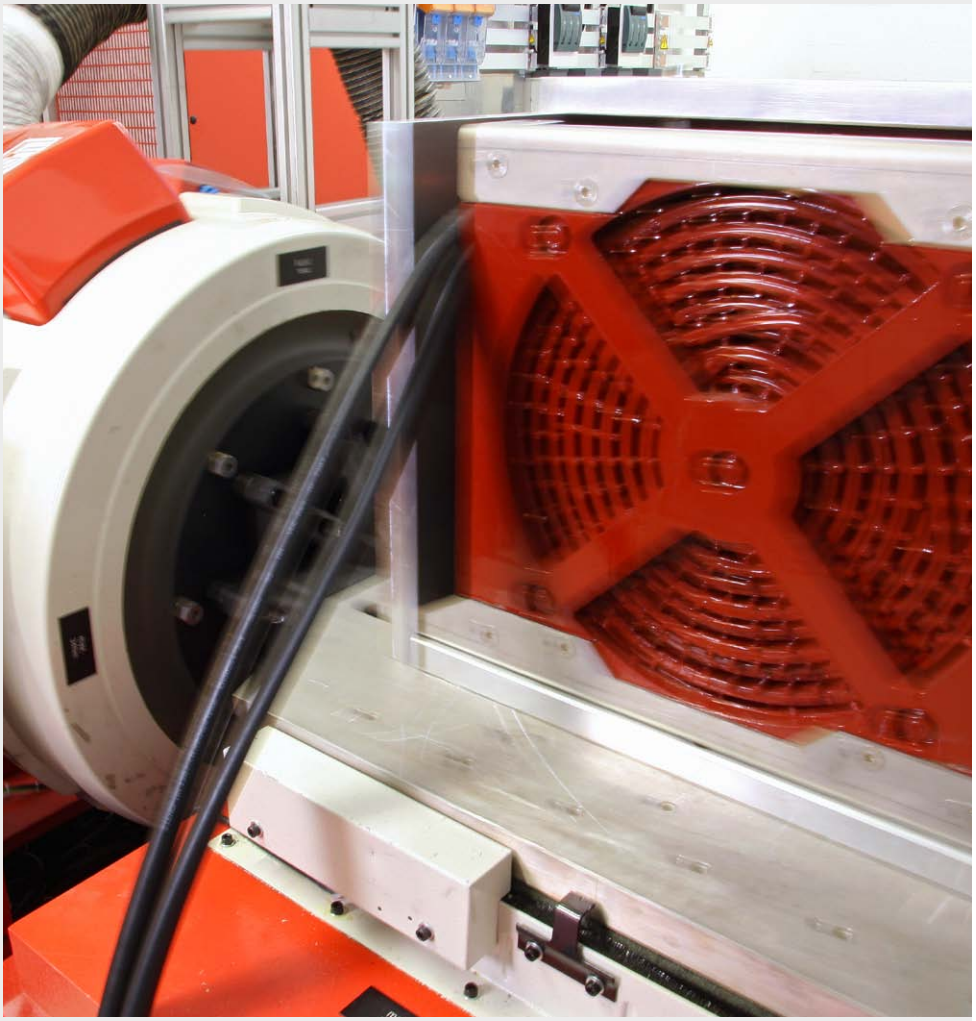


For example

- **CURRENT CONVERTERS**
- **PCB TRANSFORMERS**
- **ISOLATING TRANSFORMERS**
- **LED DRIVER FOR TRACK FIELD LIGHTING**

RAILWAY TECHNOLOGY

STANDARDS 100%



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