



Transformatoren und Gerätebau

A Member of Sumida Group  **sumida**

Green core[®] The Energy Saver

**in Power Quality:
effective for
regenerative inverters**

- + High power efficiency
- + Switching frequency up to 20 kHz
- + Reduced design size and weightiness
- + Low noise emission
- + Manufactured in accordance to the
certified insulation system UR E181051



renewable
energy



drive technology



railway technology

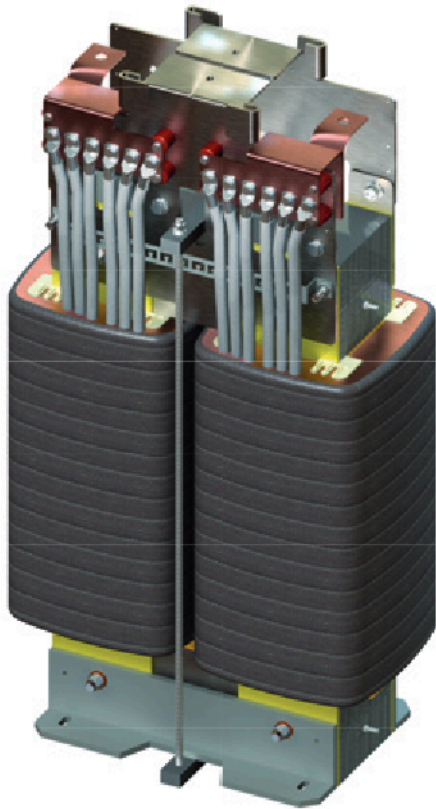
...and more information about:

Schmidbauer Transformatoren und Gerätebau GmbH
Spanberg 16 ▪ D-84332 Hebertsfelden ▪ Germany
www.schmidbauer.net
drossel-entwicklung@schmidbauer.net



Power Quality

Green core[®] Inductive Systems

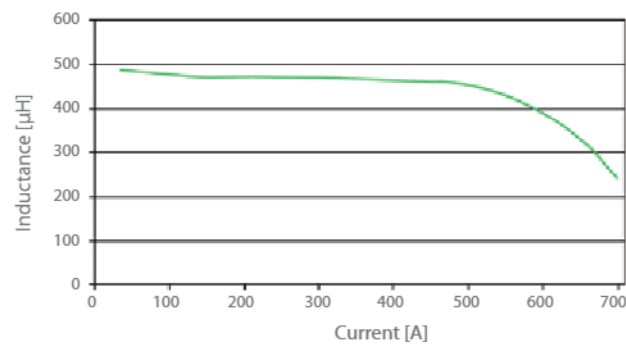


Leading engineering performance by Schmidbauer

Green core[®] Inductive Systems is developed for reactors in grid feeding and back dining converters. It is useful for single-phase as well as three-phase applications and can also be used for many several reactor and transformer topologies.

- + High dielectric strength by the use of high grade insulation materials
- + Reducing of the leakages like skin- and proximity-effects
- + Execution in Cu/Al strip or HF litz wire up to 2,500 amps
- + Protection category: up to IP66
- + Cooling concept: natural, forced cooling, water cooling

Linear inductance process



The existing illustration demonstrates the linear course of the inductance process and the saturation point in depending upon the electricity from a reactor developed in according to the **Green core[®] Inductive Systems**.

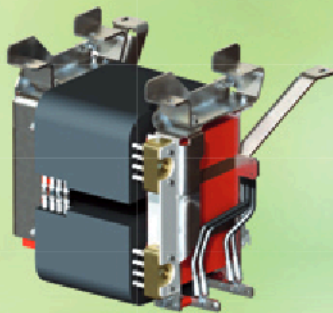
More information available:

www.schmidbauer.net

...or just give us a call – we'd be glad to advise you!

Phone +49 (0)8721 / 96 62-0

Green core[®] Inductive Systems in action



RAILWAY TECHNOLOGY

Water-cooled filter reactor
for electric tramways
Weight: 200 kg / 210 kW



DRIVE ENGINEERING

3 AC commutation reactor
for back dining converter systems
Weight: 28 kg / 50 kW

Highest quality standards for **Green core**-reactors

- + exclusive use of high-quality materials and major manufacturers
- + high-grade plastics
- + magnet wires and impregnation systems in the insulation class H
- + high surge-voltage and insulation strength



We offer a wide range of power quality products

- | | |
|----------------------------|--|
| + commutation reactors | + non-standard and special design also according to your details |
| + regeneration choke | + water-cooled design |
| + boost inductor | + vacuum block casting compound also with cooling elements |
| + output choke | + integrated temperature monitoring |
| + sine wave filter reactor | + own UL insulation systems for insulation materials class B and F |
| + du/dt-filter | + consultation and maintenance servicing for the UL approval |
| + motor reactor | of your complete system |
| + line reactor | |



Manufactured in according to UR E181051 insulation system

VDE0570-1 (EN61558-1 / IEC 61558-1):
safety of transformers, power supply units, etc.

VDE0570-2-20 (EN61558-2-20 / IEC61558-2-20):
special requirements for small reactors

Standards



WIND ENERGY TECHNOLOGY

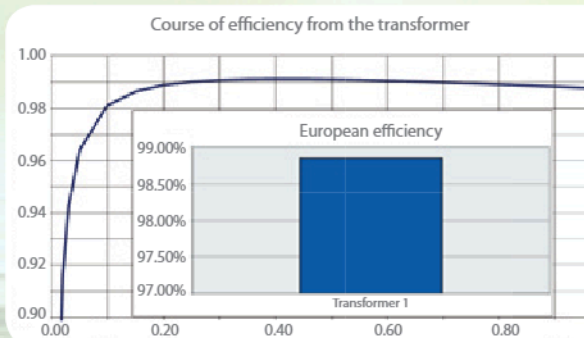
3 AC Choke
Weight: 400 kg / 750 kW
for grid feeding inverter systems



We build your assembly!

SOLAR TECHNOLOGY

Isolating transformer with reactor
Weight: 450 kg transformer, 55 kg reactor
for photovoltaic power inverter



High performance products

according to customers needs,
self-construction and -development

About Schmidbauer

We are an innovative manufacturer of transformers, reactors, inductive components, filter assemblies and customized control systems. As a part of the Schmidbauer group with 200 employees, we develop and manufacture powerful products in the range of electrical engineering.

In order to offer the customer an efficient total product range, the electronical and sheet metal assemblies are available by our business partner, at the same place of location. We offer our customers high-quality solutions due to our technological know-how, our flexible and modern production lines, as well as short distances during the development, within the company group.

Our products

TRANSFORMERS



Transformers in the low voltage range up to 630 kVA. Take a look at our product range. It is worthwhile!

REACTORS



We develop and build all kinds of reactors. The strongest current ripple becomes weak at us.

TOOLBUILDING



From the circuit board to the final product. Subassemblies individually manufactured or automated manufacturing in order to meet your needs.

MEDICAL ENGINEERING



The art to reconcile customer demand, engineering standards, safety and the patient.



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