RAILWAY

AC/DC SOLUTIONS & SERVICES





KOHLER_®

SO Tail® DC Traction Electrical Solutions



CONTROL COMMAND

Hardware / Software SIL development Multi-platform

HIGH SPEED CIRCUIT BREAKER





RECTIFIER

750 / 1500 / 3000 VDC Up to 6 MW Fix or withdrawable



VOLTAGE LIMITING DEVICE

Dangerous Voltage Protection Class 1 to 4 Indoor or Outdoor



OUTDOOR LINE EQUIPMENT

Switch / disconnector / contactor Metallic or insulating enclosures Up to IP 66



INDOOR DC CABINETS

Isolating / Earthing switch Stray Current / Negative Cubicle Substation or workshop

Smart Railway Interface

The $\mathsf{SR}\,l^\circ$ protection relay can be integrated on HSCB or VLD products. It has 3 main functions: protection, control command and user interface.

► RAILWAY DC LINE PROTECTION FUNCTIONS (ANSI 27/32/50/59...)

Safety SIL2 development according to EN50128 and EN50129.

- ► THE CONTROL COMMAND FUNCTION is easily configurable and adds new services:
- Commissioning assistance
- Help for maintenance:
 - » Predictive maintenance
 - » Manual and datasheet on board
 - » Remote diagnosis
 - » Commissioning assistance

Several protocols are available to communicate with the customer's network: IEC61850, Modbus, ...

► THE INTERFACE is fully customizable via a 7-inch color touch screen. Operating and maintenance data can be easily exported with USB plug.

The user can connect his smartphone and tablet to the protection relay through an android & IOS application.

RELIABILITY

Managed by dedicated FPGA Protection

SIL In compliance with EN 50128/EN 50129 standards

CONNECTED

Bluetooth, remote connection, ...

NETWORK COMMUNICATION

IEC61850, Modbus

OPERATOR ASSISTANCE

Customizable HMI

Control command modification program (with ladder diagram)

Smartphone & tablet applications (Android & IOS)

Network monitoring

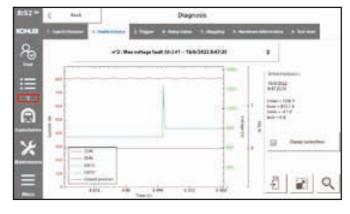
RAILWAY MAINTENANCE SUPPORT

Remote diagnosis

Support of the maintainer during preventive and curative

Predictive maintenance tools

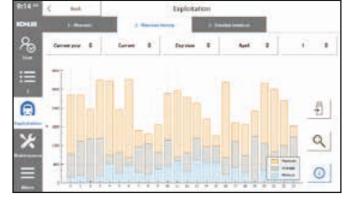
Measure and analysis tools



KOHLER

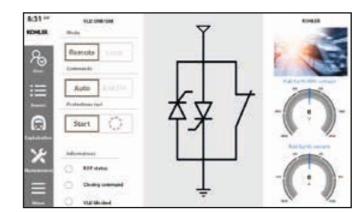
* KOHLER

Scope function for real-time network analysis

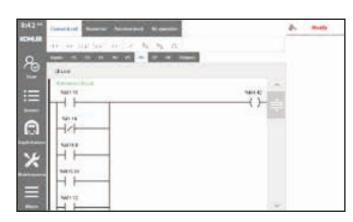


KOHLER

Line consumption diagram



Voltage limiting device main page



Ladder function for control customization







KOHLER So many skills

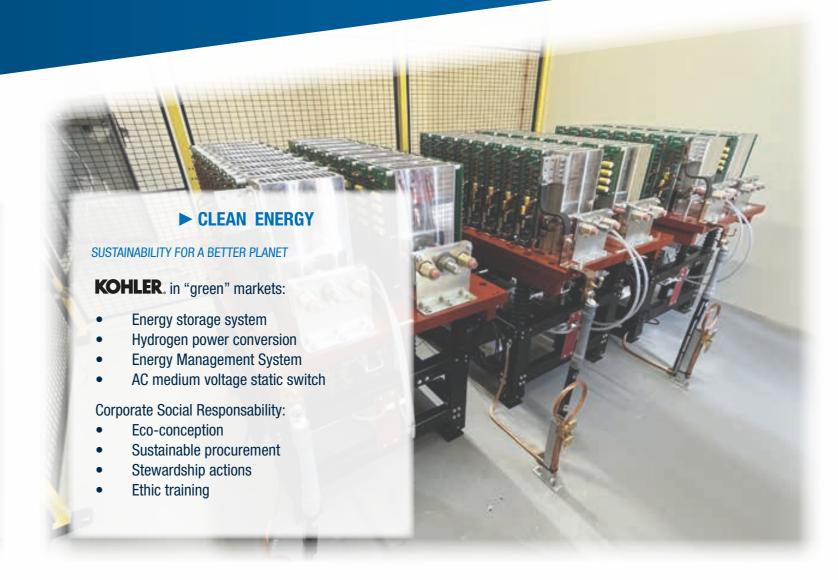
► SMART ELECTRICAL SOLUTIONS

BETTER LIFETIME & LIFE CYCLE COST

KOHLER, in smart strategy:

- Measure and metering
- Power management
- Predictive maintenance tools
- Temperature control
- Automatic reconfiguration
- Events log
- Wireless connection and iOS & Android App
- Unlicensed and open access system





► OVERALL PACKAGES & SOLUTIONS

SAVE SPACE, TIME AND COST

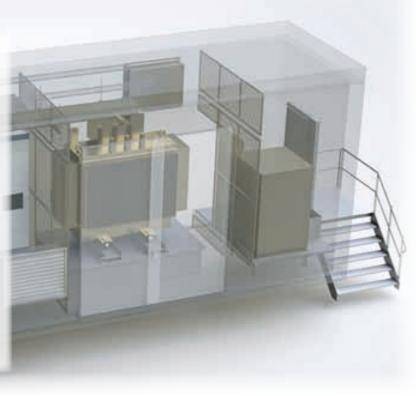
KOHLER. in "Plug&Play" electrical sub-stations:

Engineering:

- Design of MV & LV assemblies
- Thermal & Mechanical studies
- Fire suppression system

Solutions integration:

- Shelters
- Containers
- Skids
- Modular structures



➤ ENGINEERING YOUR PROJECT IS OUR PROJECT KOHLER. in the making of your design: Project management Specification Simulation & calculation Electrical & Mechanical design Customization Documentation Services: Installation assistance Commissioning Training

ELECTRICAL EQUIPMENT ORIGINAL MANUFACTURER

1

CONTACT CUSTOMER SERVICES

+33 (0)800 001 530

service.clients@kohler.com service.pieces@kohler.com





- Original equipment manufacturer
- Control command, automation and industrial IT solutions
- AC/DC railway solutions and services
- Electronic solutions

- Standard production equipment
- Global offer
- Custumer services, installation, retrofit



















KOHLER.

CHOLET (HEAD OFFICE)
18, rue de la Gâtine
Parc d'Activité du Cormier
BP 50426 - F - 49304 CHOLET CEDEX
France

Tel.: +33 (0)2 41 64 52 00 Fax: +33 (0)2 41 64 52 20 Email: soreel@kohler.com DAGNEUX Rue du Pré de la Craz ZI Les Chartinières F - 01120 DAGNEUX France

Tel.: +33 (0)4 37 40 46 60 Fax: +33 (0)4 78 06 66 10 Email: soreel@kohler.com www.kohler-soreel.com

FOLLOW US

in f

©