

TracFeed[®] DCP3

Multifunctional device for protection and control
in DC switchgear Panels



TracFeed® DCP3

Multifunctional device for protection and control in DC switchgear panels

Overview

TracFeed® DCP3 is a powerful system platform designed for the universal application of providing protection as well as carrying out controlling, monitoring and measurement tasks in dc switchgear panels for dc traction railway systems.

It is the third generation of the very successful device family TracFeed® DCP.

Advantages

The hardware is interchangeable with DCP1x6 as well as TracFeed® DCP2 series units.

New

- Fault location
- Ethernet ring topology with HSR or PRP
- Measured value logging on USB memory
- Optional fibre optic measurement inputs

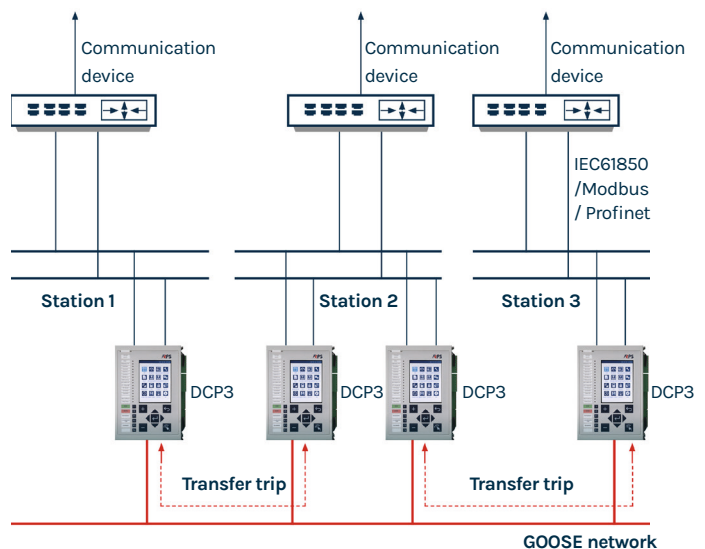
Functions

- Instantaneous Overcurrent protection (76_1)
- Overcurrent protection (76_2)
- Current Rate of Rise protection (ROR)
- Thermal Overload protection (26)
- Overvoltage protection (59)
- Undervoltage protection (27)
- Breaker Failure supervision (72BF)
- Rectifier Current supervision (76R)
- Touch Voltage supervision (64U)
- Frame Leakage Current protection (64I)
- Cable supervision (64C)
- Line Test (3LT)
- Fast Line Test (3LT)
- Impedance protection (21)
- Normalised value with timetag: Records feeder current and voltage when the threshold is exceeded
- Control and supervision: Supports all control and monitoring functions that are required for DC power supply applications

- Event recorder (internal): protection list & warning list up to 127 events, 16 Disturbance records with COMTRADE format, which can be analyzed with the analysis software. Event recording can be extended via additional SSD
- Time synchronization with IRIG-B or NTP
- Communication interface: three Ethernet ports, one serial port
- Protocol: IEC 61850, IEC 60870-5-103/104, Modbus, Modbus TCP, Modbus RTU, Profinet, Profibus DP
- Storage: 1 USB 2.0 (type A) and SSD (optional)
- Embedded Webserver
- Programmable using customised logic (KFlogic)

IEC 61850

- The TracFeed® DCP3 multifunctional device supports the MMS & GOOSE service of communication networks and systems in traction substations based upon the IEC 61850 standard. Transfer trip and necessary interlocking functions for bay interlocking, as well as overall substation interlocking, can be handled with GOOSE service.





RPS/EN/428/0824

© 2024. All rights reserved by Rail Power Systems GmbH.

The specifications set out in this document apply to popular applications. They do not represent performance limits. This means that divergent specifications may be attained in specific applications. The contractually agreed specifications alone shall apply. We reserve the right to effect technical modifications. TracFeed® is a registered trademark of Rail Power Systems GmbH.

Rail Power Systems GmbH

Garmischer Straße 35 | 81373 Munich | Germany | T +49 89 41999-0 | F +49 89 41999-270 | www.rail-ps.com