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► PDU switched – DK 7979.316

Date : Jul 5, 2021

ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES

FRIEDHELM LÖH GROUP



PDU switched – DK 7979.316

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Product description

| | |
|----------------------------------|---|
| Description: | High-end power distribution in a compact design for IT network and server racks. With switching function and power measurement at the infeed or per phase. |
| Benefits: | <ul style="list-style-type: none">For vertical mounting, it may be attached in the zero-U space of the Rittal VX IT or TS IT rack with no need for toolsColour coding of phases and fuse circuits (L1=pink, L2=black, L3=white)Tool-free divider kit for VX ITPDU self-supplied, no external power supply requiredMeasurement accuracy $\pm 1\%$ (kWh) to EN 62 053-21Programmable startup behaviour following voltage recovery (on/off/last status)Programmable switching behaviour (time/programmable logic)Integral real-time clock with battery buffering (max. 10 years, battery replaceable)Integral electromagnetic buzzer for acoustic alarmsAdjustable limit values (warning/alarm) for voltage, current, outputOperating hours meter, total and cyclical, resettable |
| Technical specifications: | <ul style="list-style-type: none">Display/controller unit in the PDU enclosure rotatable through 180° and replaceableIntegral, fully-redundant power pack, power supply from all phasesError-tolerant PDU power supply redundant across all phasesVoltage V, current A, frequency HzActive power, active energy, apparent power, apparent energyPower factor (cosPhi) and phase angleZero conductor current measurement/load imbalance detectionFuse monitoring for PDUs with integral fuseMonitoring of the optionally available overvoltage protectionBright TFT display, 128 x 128 pixels (RGB) with back-lighting and energy-saving mode to display output data and basic PDU configurationPosition sensors for display rotation and correct PDU representation on the websiteMulti-colour LEDs (green/amber/red) to indicate switching states and warning/alarm limits per phase or infeedPower LED to indicate voltagePower-saving design, minimal intrinsic power consumption |
| Measurement functions: | <ul style="list-style-type: none">Emergency power supply to PDU web server via PoE, sequential disconnection of the outputsSwitching function per output slotAvoids overload peaks: Sequential activation of the outputs following voltage recovery |

Relay states are saved even in the event of a power failure
Bistable relays: Low current consumption and high switching capacity, also suitable for higher starting currents up to max. 300 A
Grouping: Joint switching of multiple outputs
Measurement per phase or infeed
Powerful CPU (ARM Cortex A8)
Digital input (floating contact)
Additional alarm output/relay output (changeover contact)
Additional alarm output/relay output (changeover contact)

Material: Aluminium section, black anodised
Slots: Plastic

Protection category IP 20
IP to IEC 60 529:

Standards: EN 62368-1
EN 61000-3
EN 61000-4
EN 61000-6
EN 62053-21

Directives: EMC Directive 2014/30/EU
Low Voltage Directive 2014/35/EU

Supply includes: Assembly parts

Options: Type 3 overvoltage protection with interchangeable arresters while operational, with status monitoring, suitable for integration into PDU enclosure
Residual current measurement (type B) per infeed/phase/fuse
Monitoring of the optionally available overvoltage protection
CMC III CAN bus sensors may be connected for ambient monitoring, max. 8 sensors
Other enclosure colours are available

Product description

Variant: Measurement per phase, switching function per output

Sockets: 24 x C 13
4 x C 19

To fit: Enclosure type: VX IT enclosure frame
Enclosure type: VX IT 19" mounting angles
Height: ≥ 1800 mm
Height: ≥ 1800 mm

Dimensions: Width: 44 mm
Depth: 70 mm
Length: 1495 mm

Rated operating voltage: 230 V (AC)

Infeeds: Qty.: 1
Phases per infeed: 1~

| | |
|---------------------------------------|---|
| Length of connection cable: | 3 m |
| Ambient conditions: | Operating temperature: +5 °C...+50 °C Storage temperature: -20 °C...+70 °C Ambient humidity (non-condensing): 10 % - 95 % |
| Circuit-breaker 16 A (qty.): | 2 |
| Type of electrical connection: | CEE |
| Rated current (max.): | 32 A |
| Output: | 7.4 kW |
| Interfaces: | Fully redundant Ethernet interface 10/100/1000 Mbit/s (2x RJ45, 1x with PoE) USB 2.0 port (USB-A) for mass configuration, firmware updates & data logging CAN bus interface (RJ 45) for a maximum of 8 ambient sensors Serial interface RS232 (RJ12) for LTE unit, scripting, CLI Use of own certificates/TLS 1.2 E-mail forwarding in case of alarm (SMTP) User administration including rights management LDAP(S)/Radius/Active Directory connection Syslog server connection (max. 2 servers) Fully redundant monitoring via 2nd network Network protocol: Web server (HTTP, HTTPS, SSL) SSH, Telnet, NTP Network protocol: TCP/IP v4 & v6, DHCP, DNS Network protocol: SNMP v1, v2c & v3, Modbus/TCP, OPC-UA Network protocol: MIB for linking into 3rd party DCIM software Network protocol: FTP/SFTP (update/file transfer) |
| Packs of: | 1 pc(s). |
| Weight/pack: | 5.7 kg |
| Copper weight (kg per piece): | 0 |
| EAN: | 4028177947917 |
| Customs tariff number: | 85366990 |
| ETIM 7.0: | EC000330 |
| ETIM 6.0: | EC000330 |
| eCl@ss 8.0/8.1: | 27142604 |
| eCl@ss 6.0/6.1: | 27142604 |
| Product description: | PDU switched 32A/1P CEE 24xC13+4xC19, DK PDU switched, Compact basic power distributor incl. energy measurement per phase, switching function for each output slot, with network interface and display |

Approvals

Certificates: EAC

Declarations: Declaration of conformity