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PDU switched – DK 7979.316

Date : Jul 5, 2021

ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES

FRIEDHELM LOH 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:	<p>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 tools</p> <p>Colour coding of phases and fuse circuits (L1=pink, L2=black, L3=white)</p> <p>Tool-free divider kit for VX IT</p> <p>PDU self-supplied, no external power supply required</p> <p>Measurement accuracy $\pm 1\%$ (kWh) to EN 62 053-21</p> <p>Programmable startup behaviour following voltage recovery (on/off/last status)</p> <p>Programmable switching behaviour (time/programmable logic)</p> <p>Integral real-time clock with battery buffering (max. 10 years, battery replaceable)</p> <p>Integral electromagnetic buzzer for acoustic alarms</p> <p>Adjustable limit values (warning/alarm) for voltage, current, output</p> <p>Operating hours meter, total and cyclical, resettable</p>
Technical specifications:	<p>Display/controller unit in the PDU enclosure rotatable through 180° and replaceable</p> <p>Integral, fully-redundant power pack, power supply from all phases</p> <p>Error-tolerant PDU power supply redundant across all phases</p> <p>Voltage V, current A, frequency Hz</p> <p>Active power, active energy, apparent power, apparent energy</p> <p>Power factor (cosPhi) and phase angle</p> <p>Zero conductor current measurement/load imbalance detection</p> <p>Fuse monitoring for PDUs with integral fuse</p> <p>Monitoring of the optionally available overvoltage protection</p> <p>Bright TFT display, 128 x 128 pixels (RGB) with back-lighting and energy-saving mode to display output data and basic PDU configuration</p> <p>Position sensors for display rotation and correct PDU representation on the website</p> <p>Multi-colour LEDs (green/amber/red) to indicate switching states and warning/alarm limits per phase or infeed</p> <p>Power LED to indicate voltage</p> <p>Power-saving design, minimal intrinsic power consumption</p>
Measurement functions:	<p>Emergency power supply to PDU web server via PoE, sequential disconnection of the outputs</p> <p>Switching function per output slot</p> <p>Avoids overload peaks: Sequential activation of the outputs following voltage recovery</p>

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 to IEC 60 529:	IP 20
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
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Declarations:	Declaration of conformity
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