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PDU managed – DK 7979.436

Date : Jun 24, 2021

ENCLOSURES POWER DISTRIBUTION CLIMATE CONTROL IT INFRASTRUCTURE SOFTWARE & SERVICES

FRIEDHELM LOH GROUP

PDU managed – DK 7979.436

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Product description

Description:	High-end power distribution in a compact design for IT network and server racks. Depending on the design, they come with an extensive range of management functions for energy measurement and monitoring.
Benefits:	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 Colour coding of phases and fuse circuits (L1=pink, L2=black, L3=white) Tool-free divider kit for VX IT PDU self-supplied, no external power supply required Measurement accuracy ± 1% (kWh) to EN 62 053-21 Programmable 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 alarms Adjustable limit values (warning/alarm) for current, voltage, output, individual settings for each output slot
Technical specifications:	Display/controller unit in the PDU enclosure rotatable through 180° and replaceable Integral, fully-redundant power pack, power supply from all phases Error-tolerant PDU power supply redundant across all phases Voltage V, current A, frequency Hz Active power, active energy, apparent power, apparent energy Power factor (cosPhi) and phase angle Zero conductor current measurement/load imbalance detection Fuse monitoring for PDUs with integral fuse Bright TFT display, 128 x 128 pixels (RGB) with back-lighting and energy-saving mode to display output data and basic PDU configuration Position sensors for display rotation and correct PDU representation on the website Multi-colour LEDs (green/amber/red) to indicate switching states and limits per individual output slot Power LED to indicate voltage Power-saving design, minimal intrinsic power consumption
Measurement functions:	Emergency power supply to PDU web server via PoE, sequential disconnection of the outputs Switching function per output slot Avoids 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 Plus measurement per output slot Powerful CPU (ARM Cortex A8) Digital input (floating 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 and monitoring functions per output slot, switched
Sockets:	24 x C 13 6 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:	400 V (AC)
Infeeds:	Qty.: 1 Phases per infeed: 3~

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 %
Type of electrical connection:	CEE
Rated current (max.):	16 A
Output:	11 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:	5.74 kg
Copper weight (kg per piece):	0
EAN:	4028177948204
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 managed 16A/3P CEE 24xC13+6xC19, DK PDU managed, High-end power distributor incl. extensive measurement,, switching and monitoring functions of each output slot, with network interface and display

Approvals

Certificates:	EAC
Declarations:	Declaration of conformity