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PDU metered – DK 7979.235

Date : Jul 28, 2021

ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



PDU metered – DK 7979.235

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Product description

Description:	High-end power distribution in a compact design for IT network and server racks. With power measurement at the infeed or per phase.
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 $\pm 1\%$ (kWh) to EN 62 053-21 - Integral real-time clock with battery buffering (max. 10 years, battery replaceable) - Integral electromagnetic buzzer for acoustic alarms - Adjustable limit values (warning/alarm) for voltage, current, output - Operating hours meter, total and cyclical, resettable - Power-saving design, minimal intrinsic power consumption
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 - Power LED to indicate voltage
Measurement functions:	- Measurement per phase or infeed - 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 per phase
Sockets:	18 x C 13 3 x C 19
To fit:	Enclosure type: VX IT enclosure frame Enclosure type: VX IT 19" mounting angles Height: ≥ 1200 mm Height: ≥ 1800 mm
Dimensions:	Width: 44 mm Depth: 70 mm Length: 1095 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:	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:	4.22 kg
Copper weight (kg per piece):	0
EAN:	4028177947757
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 metered 16A/3P CEE 18xC13+3xC19, DK PDU metered, Compact basic power distributor incl. energy measurement per phase, with network interface and display, WHD: 44x1095x70 mm
Approvals	
Certificates:	EAC
Declarations:	Declaration of conformity