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## PDU metered – DK 7979.240

Date : Jul 5, 2021

ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

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SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# PDU metered – DK 7979.240

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## Product description

<b>Description:</b>	High-end power distribution in a compact design for IT network and server racks. With power measurement at the infeed or per phase.
<b>Benefits:</b>	<ul style="list-style-type: none"><li>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</li><li>Colour coding of phases and fuse circuits (L1=pink, L2=black, L3=white)</li><li>Tool-free divider kit for VX IT</li><li>PDU self-supplied, no external power supply required</li><li>Measurement accuracy <math>\pm 1\%</math> (kWh) to EN 62 053-21</li><li>Integral real-time clock with battery buffering (max. 10 years, battery replaceable)</li><li>Integral electromagnetic buzzer for acoustic alarms</li><li>Adjustable limit values (warning/alarm) for voltage, current, output</li><li>Operating hours meter, total and cyclical, resettable</li><li>Power-saving design, minimal intrinsic power consumption</li></ul>
<b>Technical specifications:</b>	<ul style="list-style-type: none"><li>Display/controller unit in the PDU enclosure rotatable through 180° and replaceable</li><li>Integral, fully-redundant power pack, power supply from all phases</li><li>Error-tolerant PDU power supply redundant across all phases</li><li>Voltage V, current A, frequency Hz</li><li>Active power, active energy, apparent power, apparent energy</li><li>Power factor (cosPhi) and phase angle</li><li>Zero conductor current measurement/load imbalance detection</li><li>Fuse monitoring for PDUs with integral fuse</li><li>Bright TFT display, 128 x 128 pixels (RGB) with back-lighting and energy-saving mode to display output data and basic PDU configuration</li><li>Position sensors for display rotation and correct PDU representation on the website</li><li>Power LED to indicate voltage</li></ul>
<b>Measurement functions:</b>	<ul style="list-style-type: none"><li>Measurement per phase or infeed</li><li>Powerful CPU (ARM Cortex A8)</li><li>Digital input (floating contact)</li><li>Additional alarm output/relay output (changeover contact)</li></ul>
<b>Material:</b>	<ul style="list-style-type: none"><li>Aluminium section, black anodised</li><li>Slots: Plastic</li></ul>

<b>Protection category IP to IEC 60 529:</b>	IP 20
<b>Standards:</b>	EN 62368-1 EN 61000-3 EN 61000-4 EN 61000-6 EN 62053-21
<b>Directives:</b>	EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU
<b>Supply includes:</b>	Assembly parts
<b>Options:</b>	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
<b>Product description</b>	
<b>Variant:</b>	Measurement per phase
<b>Sockets:</b>	36 x C 13 6 x C 19
<b>To fit:</b>	Enclosure type: VX IT enclosure frame Enclosure type: VX IT 19" mounting angles Height: ≥ 2000 mm Height: ≥ 2200 mm
<b>Dimensions:</b>	Width: 44 mm Depth: 70 mm Length: 1895 mm
<b>Rated operating voltage:</b>	400 V (AC)
<b>Infeeds:</b>	Qty.: 1 Phases per infeed: 3~
<b>Length of connection cable:</b>	3 m
<b>Ambient conditions:</b>	Operating temperature: +5 °C...+50 °C Storage temperature: -20 °C...+70 °C Ambient humidity (non-condensing): 10 % - 95 %
<b>Type of electrical connection:</b>	CEE
<b>Rated current (max.):</b>	16 A
<b>Output:</b>	11 kW

<b>Interfaces:</b>	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)
<b>Packs of:</b>	1 pc(s).
<b>Weight/pack:</b>	6.1 kg
<b>Copper weight (kg per piece):</b>	0
<b>EAN:</b>	4028177947801
<b>Customs tariff number:</b>	85366990
<b>ETIM 7.0:</b>	EC000330
<b>ETIM 6.0:</b>	EC000330
<b>eCl@ss 8.0/8.1:</b>	27142604
<b>eCl@ss 6.0/6.1:</b>	27142604
<b>Product description:</b>	PDU metered 16A/3P CEE 36xC13+6xC19, DK PDU metered, Compact basic power distributor incl. energy measurement per phase, with network interface and display, WHD: 44x1895x70 mm
<b>Approvals</b>	
<b>Certificates:</b>	EAC
<b>Declarations:</b>	Declaration of conformity