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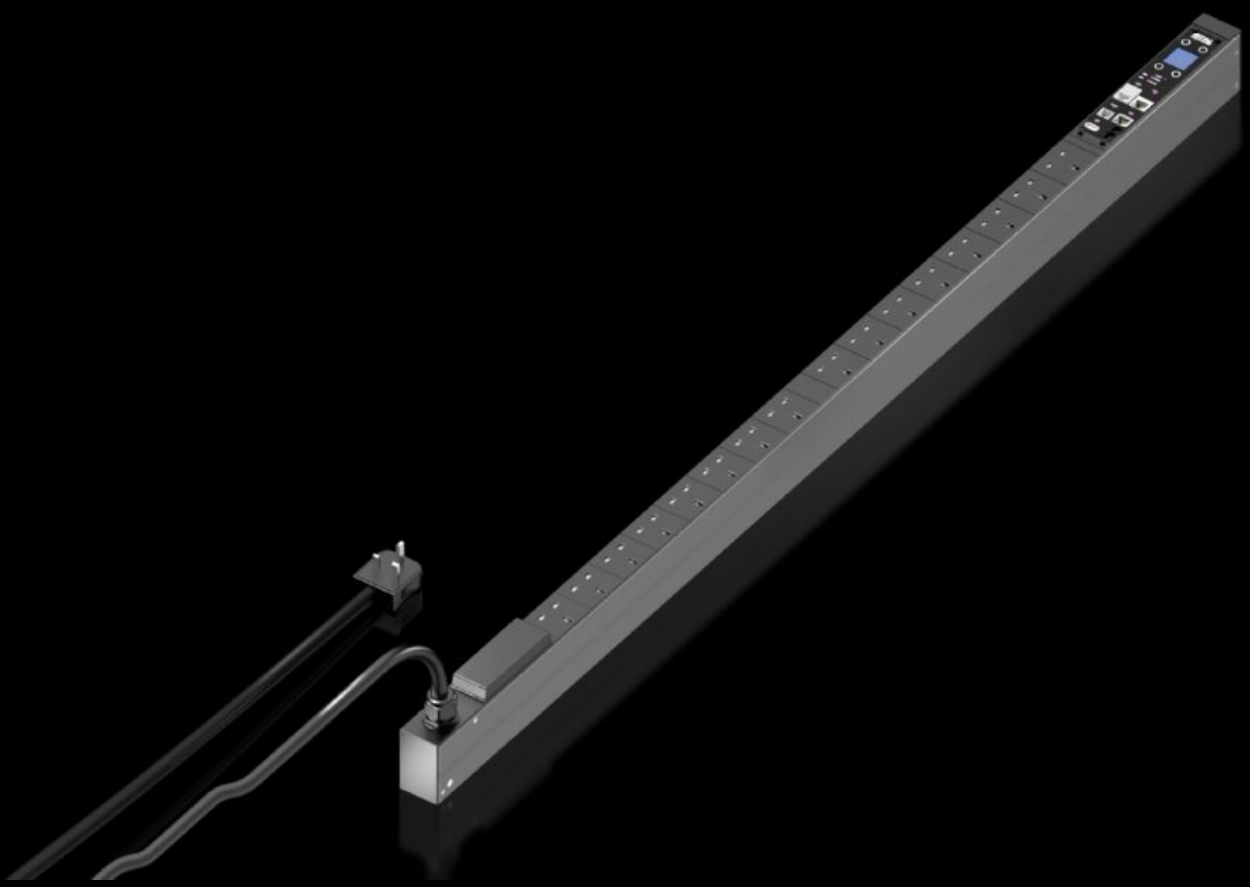

DK 7979.822

PDU UK, metered version

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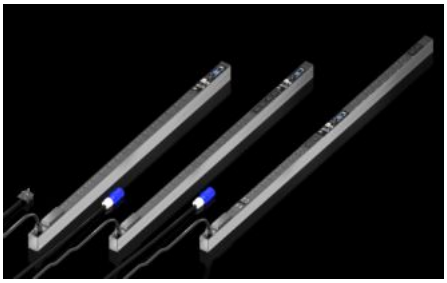
ENCLOSURES | POWER DISTRIBUTION | CLIMATE CONTROL | IT INFRASTRUCTURE | SOFTWARE & SERVICES

FRIEDHELM LOH GROUP

DK 7979.822 - PDU UK, metered version

The power distributor is specifically designed for data centres and free-standing racks with UK (BS 1363) connectors.







Features

Model No.	DK 7979.822
Design	482.6 mm (19") version Metered UK
Product 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	Tool-free divider kit for VX IT Power-saving design, minimal intrinsic power consumption
Technical specifications	Colour coding of phases and fuse circuits (L1=pink, L2=black, L3=white) Compact circuit-breaker (16 A - Carling type)
Product modification	Minimum order volume 5 units
Material	Aluminium section, black anodised Slots: Plastic
Supply includes	Assembly parts

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Features

Options	Type 3 overvoltage protection with interchangeable arresters while operational, with status monitoring, suitable for integration into PDU enclosure CMC III CAN bus sensors may be connected for ambient monitoring, max. 16 sensors
Dimensions	Width: 44 mm Depth: 70 mm Length: 1,495 mm
No. of sockets and type	16 x BS 1363 / 4 x C19
Sockets	16 x BS 1363 4 x C 19
Rated current (max.)	16 A
Power consumption	3.7 kW
Infeeds	Qty.: 1 Phases per infeed: 1~
Length of connection cable	3 m
Type of electrical connection	CEE
Directives	EMC Directive 2014/30/EU Low Voltage Directive 2014/35/EU
Standards	EN 62368-1 EN 61000-3 EN 61000-4 EN 61000-6 EN 62053-21
Operating temperature range	5 °C...60 °C
Ambient humidity (non-condensing)	10...95 %
Storage temperature range	-25 °C...70 °C
To fit	Enclosure type: VX IT enclosure frame: ≥ 1,800 mm Enclosure type: VX IT 19" mounting angles: ≥ 2,000 mm
Packs of	1 pc(s).
CRA risk class	Default (Low Risk)

Features

Customs tariff number	85366990
ETIM 9	EC000330
ETIM 8	EC002762
ECLASS 8.0	27142604
Product description	DK PDU UK, metered, compact basic power distribution incl. energy measurement per phase, with network interface and display, WLD: 44 x1495 x70 mm, 16xBS 1363, IEC 60 320: 4x C19

Approvals

Approvals	Cyber Security Certificate TÜV-tested safety
Explanations	Declaration of conformity

Tender text

Compact power distributor for deployment in IT server and network enclosures. Vertical installation in the Zero-U space using the supplied universal brackets for common IT racks. Suitable for tool-free quick assembly in the Rittal VX IT and TS IT racks using the special supplied plug-%-play fastener. Robust aluminium housing with permanently mounted output slots, IEC 60320/C13 or IEC 60320/C19 as well as CEE 7/3 (earthing-pin) and BS 1363 (UK), depending on the type (see below for details). The IEC C13 / C19 output slots can be protected with a lock against unintentional removal of the connectors. Unused slots can be closed with slot covers available as accessories. This precludes an unintentional overloading of individual phases an circuits. The fuse circuits and phases are colour-coded for multiphase PDU variants. A fixed-mounted connection cable with IEC C20 or CEE connector appropriate for the variant makes the PDU available for immediate deployment.
The PDU metered has extensive measurement functions for the current and power monitoring of each phase. The integral TFT colour display anables the basic configuration setting and quick access of the electrical consumption data. Two Gigabit network interfaces and the integrated Web server allow access and data transmission using various protocols. The consumption parameters can be forwarded to a DCIM software via SNMP, OPC-UA, Modbus/TCP. For monitoring the ambient parameters, up to 16 sensors (for example temperature / humidity / smoke / leakage / access) as well as VX IT and TS IT handle systems from the CMC accessories program can be connected to the CAN sensor interface.
Optinally, an overvoltage protection module (type3) can be placed on the PDU at the infeed; the overvoltage protection module is equipped with arrestors that can be replaced during operation. For intelligent PDUs, the status is monitored via the network interface, the PDU basic has a floating alarm contact for monitoring the

overvoltage protection. As option, intelligent PDU variants can be supplied with an AC/DC sensitive residual current measurement (RCM type B) with up to 6 measurement points. This changes the PDU length and the number of installed slots for each standard length.

Technical specifications metered
Input voltage range (L/N/PE): 230 VAC, 50-60Hz
input current: 16A
No. of phases: 1
Marking of phases (3-phase PDU only L1, L2, L3):
Rittal Power Pink, black, white
Number of slots type BS1363 (total): 16
Number of slots type IEC 60320/C19 (total): 4
No. of circuit brakers: -
Hydraulic-magnetic protective circuit-breaker: 16 A
Connector PDU input:
EN 60309 / CEE (L+N+PE, 6h)
Length of connection cable: 3m
Connection cable type: H05-VV
No. of wires: 3
Cable cross-section: 2,5mm²
PDU housing width: 44mm
PDU housing depth: 70mm
PDU housing height: 1495mm
PDU material: Aluminium, anodised, in RAL 9005 (black)<(>,<)>
other colours available on request
PDU mounting adaptor (VX IT / TS IT) –Mounting options:
Frame + Zero-U space + cable route
Measurement functions: Measurement per phase or infeed
Values recorded (per phase):
Voltage (V), current (A), frequency (Hz), Power factor<(>,<)>
active energy (kWh), apparent power (kVA)
Active power(kW),neutral conductor current measurement<(>,<)>
fuse monitoring (at 32 A)
Optional: Residual current monitoring (RCM)
AC + DC (RCM Typ B)
max. 6 measurement points per PDU possible
(input / per phase / per fuse)
0 mA – 100 mA je RCM
Voltage measurement range: 90 - 255 V
Voltage resolution: 0.1 V

Voltage accuracy: 2%
Current measurement range: 0 - 32 A
Current resolution: 0.1 A
Current accuracy: 2%
Frequency accuracy: 2%
Active power (kW) accuracy: 2%
Apparent power (kVA) accuracy: 2%
Active energy (kWh) accuracy: 1%
Power factor accuracy: 2%
Freely settable limit values per slot
for (warning/alarm): Voltage, current, power: yes
Operating hours meter: Yes
Display: TFT, RGB 128x128 pixels
Network interface: 2x RJ45, per 10/100/1000 MBit/s
Network interface: RJ45, integral web server
Supported protocols:
HTTP, HTTPS, SSL, SSH, NTP, Telnet
TCP/IP v4 and v6, DHCP, DNS, NTP, Syslog
SNMP v1, v2c und v3, XML
FTP/SFTP (update/file transfer)
E-mail forwarding (SMTP)
User administration including rights management: Yes
LDAP(S)/Radius/Active Directory connection: Yes
USB port for firmware update+data logging functions: Yes
CAN bus interface: RJ45, for connecting 16 sensors
CAN sensor types: Temperature<(>,<)>
temperature/humidity (combined),infrared access sensor<(>,<)>
leakage, NH measurement module, smoke alarm, vandalism<(>,<)>
airflow, EFD, differential pressure<(>,<)>
VX IT / TS IT handle system
Plug & play drivers - Rittal RiZone DCIM software: Yes
Digital input: 1
Alarm relay: 48 V DC/2 A
Acoustic signal encoder
Serial interface
Conformity: CE
Standards:
Safety: EN 62368
EMV:
EN 55022 / B
EN 61000-4-2
EN 61000-4-3

EN 61000-6-2
EN 61000-6-3
Safety Directive: 2014/35/EU
EMC Directive: 2014/30/EU
MTBF (at 40°C) 100.000 hours
Protection category: IP 20 (EN 60529)
Protection class: Class 1
Pollution degree: 2
Overvoltage category: II
Environmental properties: 2011/65/EU (RoHS 2), WEEE
Storage temperature: -20 °C to +70 °C
Ambient temperature: +5°C to +50°C
Ambient humidity 10 - 95% rel. humidity, non-condensing
Operating altitude (max. above mean sea level): 3000 m
Connector lock for C14 and C20 connectors:
1x (further connector locks optional - DK 7979.020)
Covers C13 (optional accessory): DK 7955.010
Covers C19 (optional accessory): DK 7955.015
Type: Rittal PDU metered, Model No.: DK 7979.822

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