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PSM measurement modules with CAN bus for PSM busbars – DK 7859.410

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ENCLOSURES POWER DISTRIBUTION CLIMATE CONTROL IT INFRASTRUCTURE SOFTWARE & SERVICES

FRIEDHELM LOH GROUP

PSM measurement modules with CAN bus for PSM busbars – DK 7859.410

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Product description

Description:	A power meter and switching functions for the output slots can be added to any PSM busbar with these PSM plug-in modules. The modules are also suitable for upgrading existing PSM installations if it becomes necessary to record the power data or add a switching option for the connected equipment. There are three variants available with different socket types. In the PSM busbar, the PSM modules occupy two module slots each. Measurements are displayed locally on a backlit LC display. For quick checks, the colour changes to red if current and power limits are exceeded.
Benefits:	Simple, shock-hazard-protected, plug & play installation with the system operational PSM module is easily fitted into and removed from the PSM busbar, allowing it to be used at changing locations Compatible with the European PSM busbar range CAN bus for direct connection to CMC III system (RJ 45, 2 x socket) In redundant systems, the circuit may be switched over by rotating the module Suitable for use at ambient temperatures of up to +60 °C Facilitates the implementation of requirements to ISO 50001 and EN 50600-2-2
Function principle:	Measurement of power consumption per module Output slots may be switched individually and in groups via CMC III Status LEDs for CAN bus communication per module LC matrix display with multi-coloured backlight for local display Location sensor for correct display and Web view in 90° increments Adjustable limits for voltage, current and active power Configurable overload detection per module High level of measurement accuracy Alarm signalling via the display Universal connector lock, IEC 60320, C13 and C19 slots that are not needed may be closed
Measurement functions:	Voltage V, current A, frequency Hz Active power kW, active energy kWh Reactive power kVar, reactive energy kVarh Apparent power kVA, apparent energy kVAh Power factor cosPhi, crest factor Operating hours meter d, h, min

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	Measurement accuracy of ± 1% Resettable measurement functions / reset via software / interval measurement: Active energy kWh, operating hours meter h, threshold values (voltage, current, power) freely configurable
Material:	Socket inserts: Plastic (PA6 GF 30 V1) Section: Aluminium, anodised
Protection category IP to IEC 60 529:	IP 20
Standards:	EN 50 600-2-2 EN 60950
Directives:	Low Voltage Directive 2014/35/EU EMC Directive 2014/30/EU
Supply includes:	PSM measurement modules with CAN bus CAN bus connection cable, 1 m

Product description

Sockets:	8 x C13
Required number of module slots:	2
Monitoring:	Alarm management via CMC III (e.g. e-mail or text message) Visualisation of the switching status on the CMC III website and RiZone Up to 16 PSM modules on one CMC III PU (per IP address) Rights management via CMC III (e.g. restriction of the switching function)
Dimensions:	Width: 53 mm Depth: 45 mm Length: 500 mm
Rated operating voltage:	18 V (DC) - 24 V (DC) Power supply via CMC III system
Infeeds:	Qty.: 1 Input voltage: 230 V AC Tolerance of input voltage: ± 10 %
Rated voltage:	16 A
Heat loss per module (at 230 V):	3680 W
Relay:	Type: Dual coil, bistable Switching load: 4000 VA
Interface bus system:	2 x CAN bus interfaces to CMC III (max. 16 on PU/4 on PU Compact) 2 x RJ45 (connection to CMC)
Maximum quantity of:	CMC III Processing Unit: 16

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Ambient conditions:	Operating temperature: +5 °C...+60 °C Storage temperature: -20 °C...+70 °C Relative humidity (non-condensing): 10 % Ambient humidity (non-condensing): 90 % Maximum operating altitude: 2000 m
Contamination level:	2
Interfaces:	Network protocol: Network functionality (only in conjunction with CMC III system): IPv4, IPv6, SNMPv3, Modbus/TCP, OPC-UA
Packs of:	1 pc(s).
Weight/pack:	1 kg
Copper weight (kg per piece):	0
EAN:	4028177801844
Customs tariff number:	85369001
ETIM 7.0:	EC000330
ETIM 6.0:	EC000330
eCl@ss 8.0/8.1:	27371306
eCl@ss 6.0/6.1:	27142604
Product description:	DK PSM measuring module, for modular PSM power distribution, occupies 2 slots in the busbar, output: IEC 60 320 8 x C13, input: 207 V – 250 V, 16 A, (max. 3680 W)

Approvals

Certificates:	EAC
Declarations:	Declaration of conformity

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