

INTERFACE PROTECTION SYSTEM UNIT **PMVF81**

compliant with VDE-AR-N 4105,
VDE-AR-N 4110, VDE-AR-N 4120 and
VDE V 0126-1-1 application guide



®
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ENERGY AND AUTOMATION

INTERFACE PROTECTION SYSTEM UNIT COMPLIANT WITH VDE-AR-N 4105, VDE-AR-N 4110, VDE-AR-N 4120 AND VDE V 0126-1-1

The **PMVF81** device has been designed as an Interface Protection (IP) in accordance with VDE-AR-N 4105, VDE-AR-N 4110, VDE-AR-N 4120 and VDE V 0126-1-1 application guides.

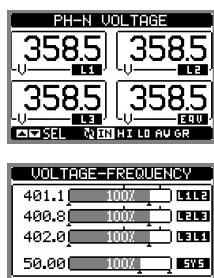


PMVF81

Order code	Rated voltage	
	Control [V]	Auxiliary [V]
Three-phase systems with or without neutral. Dual threshold minimum and maximum voltage and frequency protection. R.O.C.O.F and Vector shift. Modular type with three relay outputs.		
PMVF81	230VAC 400VAC	24...240VAC/ 24...240VDC

Display

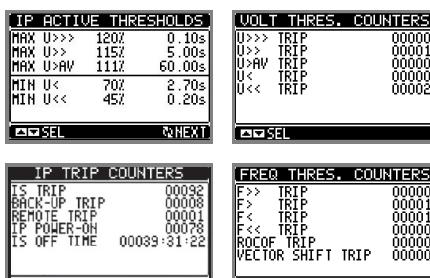
PLANT MEASURES



MAIN MENU - SYNOPTIC



DIAGNOSTIC - COLLECTION OF STATISTICAL DATA



Accessories



Order codes	Description
Communication ports.	
EXM1010	Opto-isolated USB interface
EXM1011	Opto-isolated RS232 interface
EXM1012	Opto-isolated RS485 interface
EXM1013	Opto-isolated Ethernet interface
EXM1018	IEC/EN 61850 interface
Inputs and outputs.	
EXM1001	2 digital opto-isolated inputs and 2 relay outputs 5A 250VAC
Modem.	
EXCGSM01	Remote control and monitoring GSM modem via SMS

● IEC/EN/BS 61850 protocol

The EXP1018 module will be made available only when the competent authorities have established the exact terms of the supervision and control of the specific commands.

Reference standards

Compliant with standards VDE-AR-N 4105, VDEAR-N 4110, VDE-AR-N 4120 V, VDE V 0126-1-1 and IEC/EN 61010-1, IEC/EN 61000-6-2, IEC/EN 61000-6-4 application guides.



Germany: VDE-AR-N 4105, VDE-AR-N 4110, VDE-AR-N 4120, VDE V 0126-1-1



Romania: VDE-AR-N 4105 , VDE-AR-N 4110, VDE-AR-N 4120, VDE V 0126-1-1



Croatia: VDE-AR-N 4105 , VDE-AR-N 4110, VDE-AR-N 4120, VDE V 0126-1-1



Switzerland: NA/EEA-NE7 – CH 2020



South Africa: NRS 097-2-1



Norway: VDE-AR-N 4105 , VDE-AR-N 4110, VDE-AR-N 4120, VDE V 0126-1-1



Turkey: VDE-AR-N 4105 , VDE-AR-N 4110, VDE-AR-N 4120, VDE V 0126-1-1



India: VDE-AR-N 4105 , VDE-AR-N 4110, VDE-AR-N 4120, VDE V 0126-1-1



France: VDE V 0126-1-1



Australia: VDE-AR-N 4105 , VDE-AR-N 4110, VDE-AR-N 4120, VDE V 0126-1-1



Greece: VDE-AR-N 4105 , VDE-AR-N 4110, VDE-AR-N 4120, VDE V 0126-1-1



Cipro: VDE-AR-N 4105 , VDE-AR-N 4110, VDE-AR-N 4120, VDE V 0126-1-1

Backup power supply



PMVFUPS02

Compatibility:

- Compatible with contactors (IS or backup function) with standard AC or electronic coil.
- Compatible with undervoltage trip releases (IS or backup function) of moulded case circuit breakers.

Order code	Description
PMVFUPS02	Input 230VAC. Output 230VAC with stored energy 645Ws and power 650VA

General characteristics

Many IP standards require an auxiliary power supply to feed the interface protection (IP), the interface switch (IS) and the backup switch for at least 5 seconds in the event of a power failure. PMVFUPS02 guarantees the necessary energy by accumulating it in capacitors, thus avoiding the use of batteries that require maintenance.

- Power supply: 230VAC, 50Hz
- Output voltage: 230VAC, 50Hz
- Output power: 650VA
- Accumulated energy: 645Ws
- Accumulation time: 60sec
- Modular housing: 9 modules
- Mounting on 35mm DIN rail (IEC/EN/BS 60715) or screw fixing via pull out tabs
- Operating temperature: -5...+50°C
- Degree of protection IP20 on front and terminals.

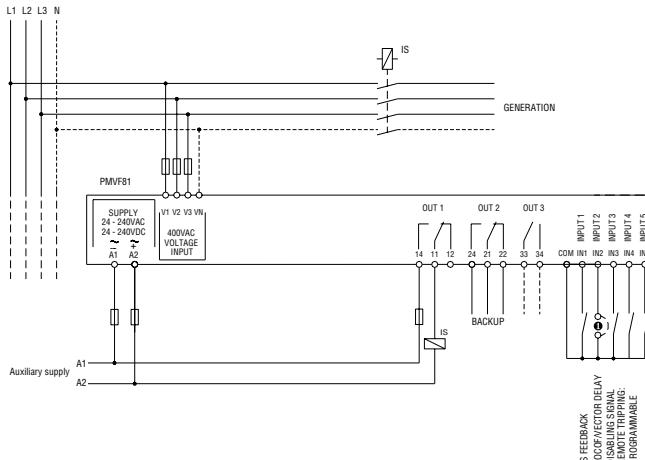
Reference standard

Compliant with standards: IEC/EN/BS 61010-1.

Wiring diagrams

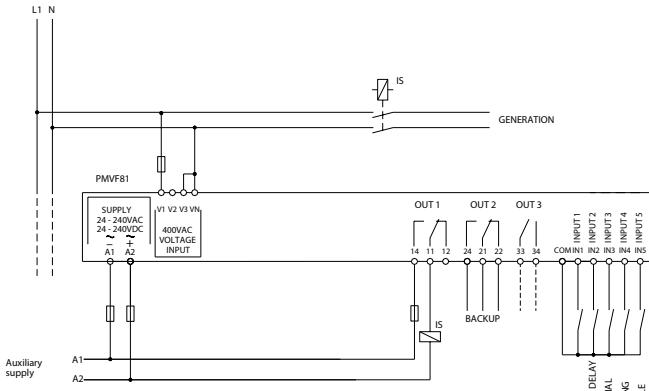
Three-phase connection

LOW VOLTAGE DISTRIBUTION NETWORK



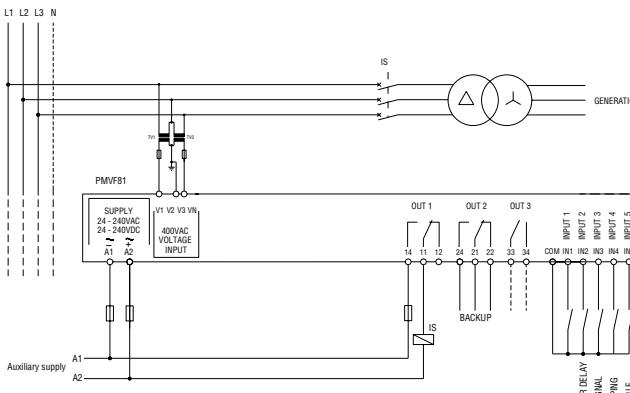
Single-phase connection

LOW VOLTAGE DISTRIBUTION NETWORK



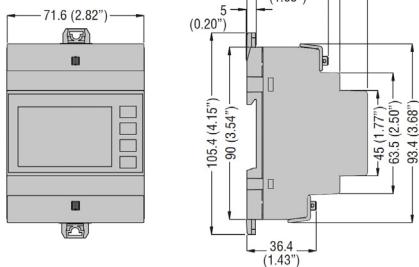
Connection through VTs in Medium/High Voltage (VDE-AR-N 4110 and VDE-AR-N 4120)

MEDIUM/HIGH VOLTAGE DISTRIBUTION NETWORK

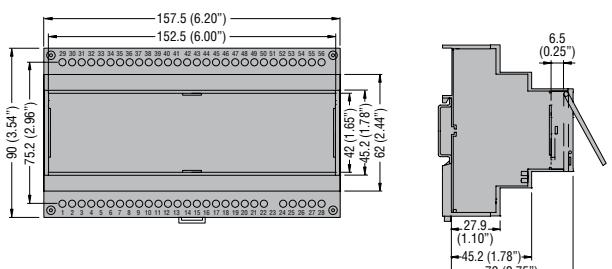


Dimensions [mm (in)]

PMVF81



PMVFUPS02



INTERFACE PROTECTION SYSTEM UNIT PMVF81



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