

Product designation	Interface protection system compliant with VDE-AR-N 4105, VDE-AR-N 4110, VDE-AR-N 4120 and VDE V 0126-1-1		
Product type designation	PMVF81		
<b>General characteristics</b>			
Description	System with or without neutral. Dual threshold minimum and maximum voltage and frequency protection. ROCOF and Vector shift		
Type of system	Three-phase with/without neutral / Single-phase		
<b>Power supply</b>			
Operating voltage range	21...264VAC / 21...264VDC		
Rated frequency	Hz	45...55	
Power consumption Max	VA	6.2	
Power dissipation Max	W	2	
<b>Auxiliary supply</b>			
Rated auxiliary supply voltage Us			
AC	min	VAC	24
	Max	VAC	240
DC	min	VDC	24
	Max	VDC	240
Power consumption			
AC (Max)	VA	2.5VA at 24VAC; 6.2VA at 240VAC	
DC (Max)	VA	60mA at 24VDC; 7mA at 240VDC	
Power dissipation			
AC (Max)	W	1.6W at 24VAC; 2W at 240VAC	
DC (Max)	W	1.5W at 24VDC; 1.7W at 240VDC	

Immunity time for microbreakings	ms	240VAC 50Hz ≤2000ms 240VDC ≤1000ms 24VAC 50Hz ≤30ms 24VDC ≤15ms
----------------------------------	----	--

**Voltage inputs**

Maximum rated operational voltage		400VAC L-L; 230VAC L-N 50Hz
-----------------------------------	--	--------------------------------

Measurement range	V	40...480VAC L-L; 23...277VAC L-N
-------------------	---	----------------------------------

Frequency range	Hz	45...55
-----------------	----	---------

**Current inputs**

Measurement method		RMS
--------------------	--	-----

**Relay outputs**

Number of relays	Nr.	3
------------------	-----	---

Contact arrangement		2 changeover contact/SPDT each + 1NO
---------------------	--	--------------------------------------

Rated operational voltage AC (IEC)	VAC	250
------------------------------------	-----	-----

UL/CSA and IEC/EN 60947-5-1 designation		For OUT1-OUT2 contact: 8A 250VAC AC1/C300, 8A 30VDC For OUT3 contact: 2A 250VAC AC1/C300; 2A 30VDC
---	--	--

**Digital inputs**

Number and type of inputs		5 to be used with dry contact with common.
---------------------------	--	--

Input current	mA	6
---------------	----	---

**Connections**

Terminals type		Screw - removable
----------------	--	-------------------

Tightening torque for terminals	max	Nm	0.8
	max	Ibin	4.5

Conductor cross section	AWG/Kcmil	min	AWG	24
		Max	AWG	12

IEC	min	mm <sup>2</sup>	0.2
	Max	mm <sup>2</sup>	4

**Insulations**

Rated insulation voltage Ui	V	300
-----------------------------	---	-----

**Housing**

Execution (n° of modules)		4
---------------------------	--	---

Material		Polyamide
----------	--	-----------

Mounting		Modular 4U
----------	--	------------

IEC degree of protection		IP40 on front; IP20 at terminals
Dimensions (W x H x D)	mm	71.6 x 105.4 x 63
Weight	g	326
<b>ETIM classification</b>		
ETIM 8.0		EC001438 - Voltage monitoring relay