

INTERFACE PROTECTION SYSTEM COMPLIANT WITH VDE-AR-N 4105 AND VDE V 0126-1-1 FOR THREE-PHASE SYSTEM, WITH OR WITHOUT NEUTRAL, DUAL THRESHOLD MINIMUM AND MAXIMUM VOLTAGE AND FREQUENCY PROTECTION, R.O.C.O.F. AND VECTOR SHIFT

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Product designation  Product type designation					Interface protection system compliant with VDE-AR-N 4105 and VDE V 0126-1-1 PMVF80
Description  Type of system					System with or without neutral. Dual threshold minimum and maximum voltage and frequency protection. ROCOF and Vector shift Three-phase with/without
Power supply					neutral / Single- phase
Operating voltage rang	е				85264VAC / 93.5300VDC
Rated frequency Control circut				Hz	4555
Rated current (le)  Auxiliary supply				A	CT /5A /1A
Rated auxiliary supply	voltage Us AC				
			min Max	VAC VAC	100 240
	DC		min Max	VDC VDC	110 250
Power consumption	AC (Max)			VA	4.6VA al 110VAC; 12.5VA at
	DC (Max)			VA	230VAC 23mA at 110VDC; 11mA
Power dissipation	AC (Max)				at 250VDC



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		W	2.5W at 110VAC;2.7W at 230VAC
DC (Max)		W	2.3W at 110VDC; 2.5W at 250VDC
Immunity time for microbreakings		ms	≤50ms at 100VDC; ≤200ms at 240VDC
Voltage inputs			
Maximum rated operational voltage			400VAC L- L;230VAC L-N 50Hz
Measurement range		V	20480VAC L- L; 10276VAC L-N
Frequency range		Hz	4555
Current inputs			
Measurement range			For 1A scale: 0.011.2A; for 5A scale: 0.01 6A
Measurement method			RMS
Overload peak		Α	50A for 1 second
Burden per phase		W	≤0.6W
Relay outputs			
Number of relays		Nr.	2
Contact arrangement			1 changeover contact/SPDT each
Rated operational voltage AC (IEC)		VAC	250
UL/CSA and IEC/EN 60947-5-1 designation  Digital inputs			For NO contact: 5A 250VAC AC1/C300; 5A 30VDC For NC contact: 2A 250VAC AC1/C300; 2A 30VDC
Number and type of inputs			4 negative (PNP)
Input voltage			12VDC isolated
Input current		mA	7
Connections			
Terminals type			Screw - removable
Tightening torque for terminals	nax	Nm	0.8
	nax	Ibin	4.5
Conductor cross section  AWG/Kcmil			
	min	AWG	24
	Max	AWG	12
IEC			

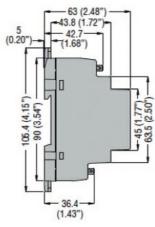


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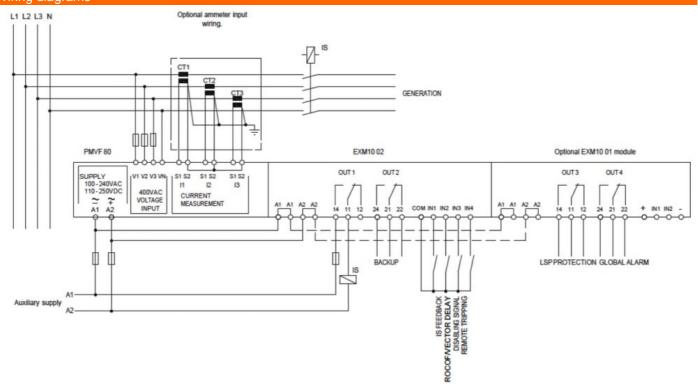
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	min	mm²	0.2
	Max	mm²	4
Housing			
Execution (n° of modules)			6
Material			Polyamide
Mounting			Modular 6U
IEC degree of protection			IP40 on front;
LC degree of protection			IP20 at terminals
Dimensions (W x H x D)		mm	108 x 105.4 x 63
Weight		g	470
Dimensions			

## 108 (4.25") 35.8 (1.41") (0.2



## Wiring diagrams



## Certifications and compliance

Compliance

IEC/EN 61000-6-2

IEC/EN 61000-6-4

IEC/EN 61010-1

Certificates

CE





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EAC		
VDE V 0126-1-1		
VDE-AR-N 4105		

ETIM classification

**ETIM 8.0** 

EC001438 -Voltage monitoring relay