## PMVF70



INTERFACE PROTECTION UNIT COMPLIANT WITH ENA (ENERGY NETWORK ASSOCIATION) G59/G99 FOR THREE-PHASE SYSTEM, WITH OR WITHOUT NEUTRAL, LOW AND HIGH VOLTAGE, MIN AND MAX VOLTAGE AND FREQUENCY DUAL THRESHOLD PROTECTION, R.O.C.O.F AND VECTOR SHIFT, 230VAC - 400VAC

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Product designation Product type designation				Interface protection system units compliant with G59 (ENA) technical guide PMVF70
General characteristic	•			
Description				System with or without neutral in low or high voltage. Dual threshold minimum and maximum voltage and frequency protection. ROCOF and Vector shift
Type of system				Single-phase and three-phase
Power supply				three-phase
Operating voltage ran	e			85264VAC / 93.5300VDC
Rated frequency			Hz	4555
Control circut Rated current (le) Auxiliary supply			A	CT /5A /1A
Rated auxiliary supply	voltage Us			
	AC			
		min Max	VAC VAC	100 240
	DC	IVIdX	VAC	240
		min	VDC	110
		Max	VDC	250
Power consumption				
	AC (Max)		VA	4.6VA al 110VAC; 12.5VA at 230VAC
	DC (Max)		VA	23mA at 110VDC; 11mA at 250VDC
Power dissipation				

AC (Max)

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		or in 1,	
		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		А	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			For NO contact: 5A 250VAC AC1/C300; 5A 30VDC For NC contact: 2A 250VAC AC1/C300; 2A 30VDC
Digital inputs			
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			
	max max	Nm Ibin	0.8 4.5
Conductor cross section			
AWG/Kcmil			
	min Max	AWG AWG	24 12
IEC			

IEC

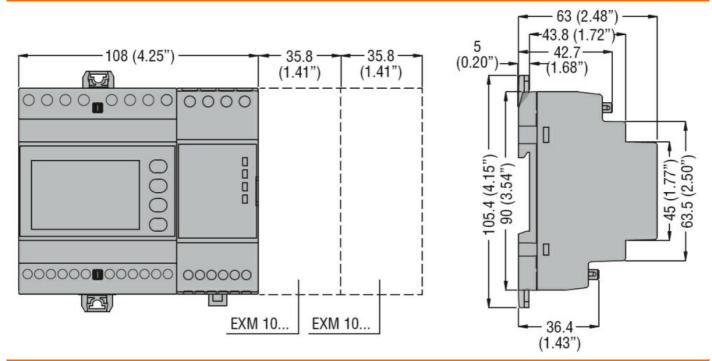
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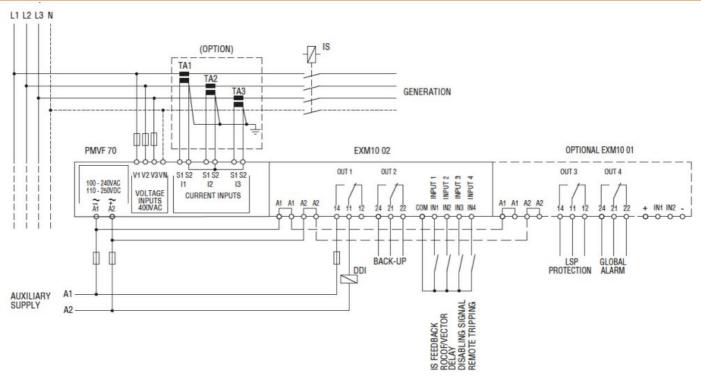
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	min	mm²	0.2
	Max	mm²	4
Housing			
Execution (n° of modules)			6
Material			Polyamide
Mounting			Modular 6U
IEC degree of protection			IP40 on front;
			IP20 at terminals
Dimensions (W x H x D)		mm	108 x 105.4 x 63
Weight		g	470

Dimensions



## Wiring diagrams



PMVF70



ENERGY AND AUTOMATION

## **PMVF70** INTERFACE PROTECTION UNIT COMPLIANT WITH ENA (ENERGY NETWORK ASSOCIATION) G59/G99 FOR THREE-PHASE SYSTEM, WITH OR WITHOUT NEUTRAL, LOW AND HIGH VOLTAGE, MIN AND MAX VOLTAGE AND FREQUENCY DUAL THRESHOLD PROTECTION, R.O.C.O.F AND VECTOR SHIFT, 230VAC - 400VAC

Certifications and compliance

## Compliance

IEC/EN 61000-6-2	
IEC/EN 61000-6-4	
IEC/EN 61010-1	

Certificates

ENA (Energy Network Association): G59/G99