



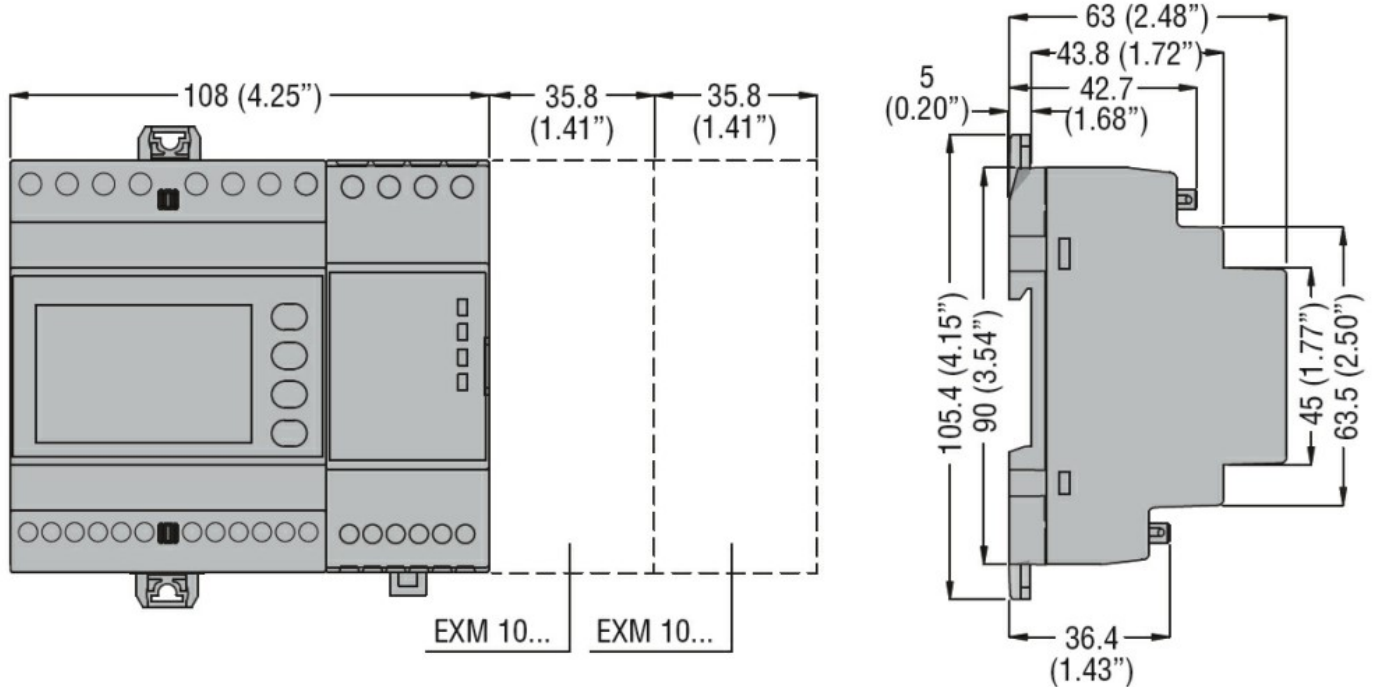
**General characteristics**

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		
<b>Power supply</b>			
Operating voltage range	85...264VAC / 93.5...300VDC		
Rated frequency	Hz	45...55	
<b>Control circuit</b>			
Rated current (Ie)	A	CT /5A /1A	
<b>Auxiliary supply</b>			
Rated auxiliary supply voltage Us			
AC	min	VAC	100
	Max	VAC	240
DC	min	VDC	110
	Max	VDC	250
<b>Power consumption</b>			
AC (Max)	VA	4.6VA at 110VAC; 12.5VA at 230VAC	
DC (Max)	VA	23mA at 110VDC; 11mA at 250VDC	
<b>Power dissipation</b>			
AC (Max)	W	2.5W at 110VAC; 2.7W at 230VAC	
DC (Max)	W	2.3W at 110VDC; 2.5W at 250VDC	

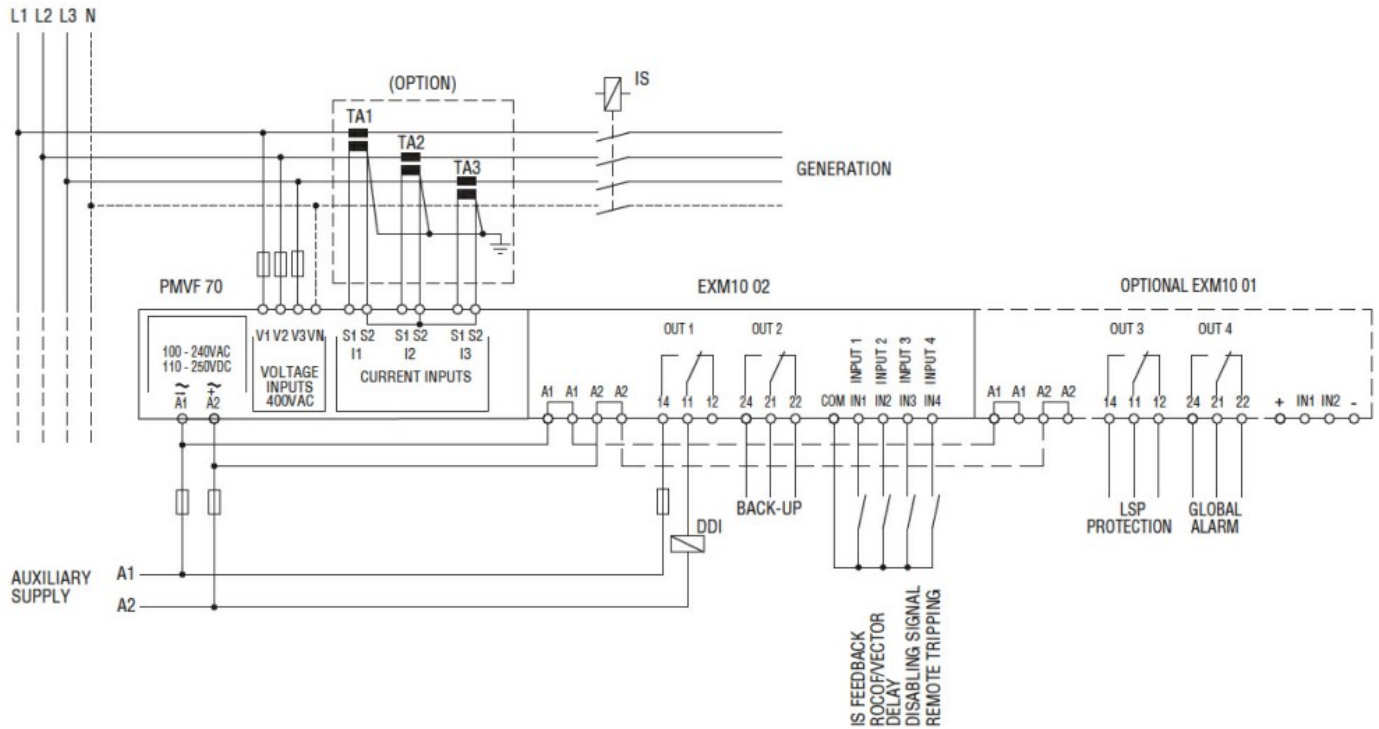
Immunity time for microbreakings	ms	≤50ms at 100VDC; ≤200ms at 240VDC
<b>Voltage inputs</b>		
Maximum rated operational voltage		400VAC L-L; 230VAC L-N 50Hz
Measurement range	V	20...480VAC L-L; 10...276VAC L-N
Frequency range	Hz	45...55
<b>Current inputs</b>		
Measurement range		For 1A scale: 0.01...1.2A; for 5A scale: 0.01...6A
Measurement method		RMS
Overload peak	A	50A for 1 second
Burden per phase	W	≤0.6W
<b>Relay outputs</b>		
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
<b>Digital inputs</b>		
Number and type of inputs		4 negative (PNP)
Input voltage		12VDC isolated
Input current	mA	7
<b>Connections</b>		
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
<b>Housing</b>		
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**



**Certifications and compliance**

**Compliance**

IEC/EN 61000-6-2

IEC/EN 61000-6-4

IEC/EN 61010-1

**Certificates**

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

ENA (Energy Network Association): G59/G99