



Interface
protection
system units
compliant with
standard SHAMS
DUBAI - DRRG
(DEWA)
PMVF60

Product designation

Product type designation

General characteristics

Description

Type of system

Power supply

Operating voltage range

Rated frequency

Control circuit

Rated current (Ie)

Auxiliary supply

Rated auxiliary supply voltage Us

AC

min	VAC	100
Max	VAC	240

DC

min	VDC	110
Max	VDC	250

Power consumption

AC (Max)

VA	4.6VA at 110VAC; 12.5VA at 230VAC
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DC (Max)

VA	23mA at 110VDC; 11mA at 250VDC
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Power dissipation

AC (Max)

INTERFACE PROTECTION UNIT COMPLIANT WITH SHAMS DUBAI DRRG (DEWA) - SEC (SAUDI ELECTRICITY COMPANY) FOR THREE-PHASE SYSTEM, WITH OR WITHOUT NEUTRAL, LOW AND MEDIUM VOLTAGE, MIN AND MAX VOLTAGE AND FREQUENCY DUAL THRESHOLD PROTECTION, R.O.C.O.F AND VECTOR SHIFT, 230VAC - 400VAC

	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 50/60Hz
Measurement range	V	20...480VAC L-L; 10...276VAC L-N
Frequency range	Hz	45...66
Current inputs		
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
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	Nm 0.8
	max	lbin 4.5
Conductor cross section		
AWG/Kcmil	min	AWG 24
	Max	AWG 12
IEC		

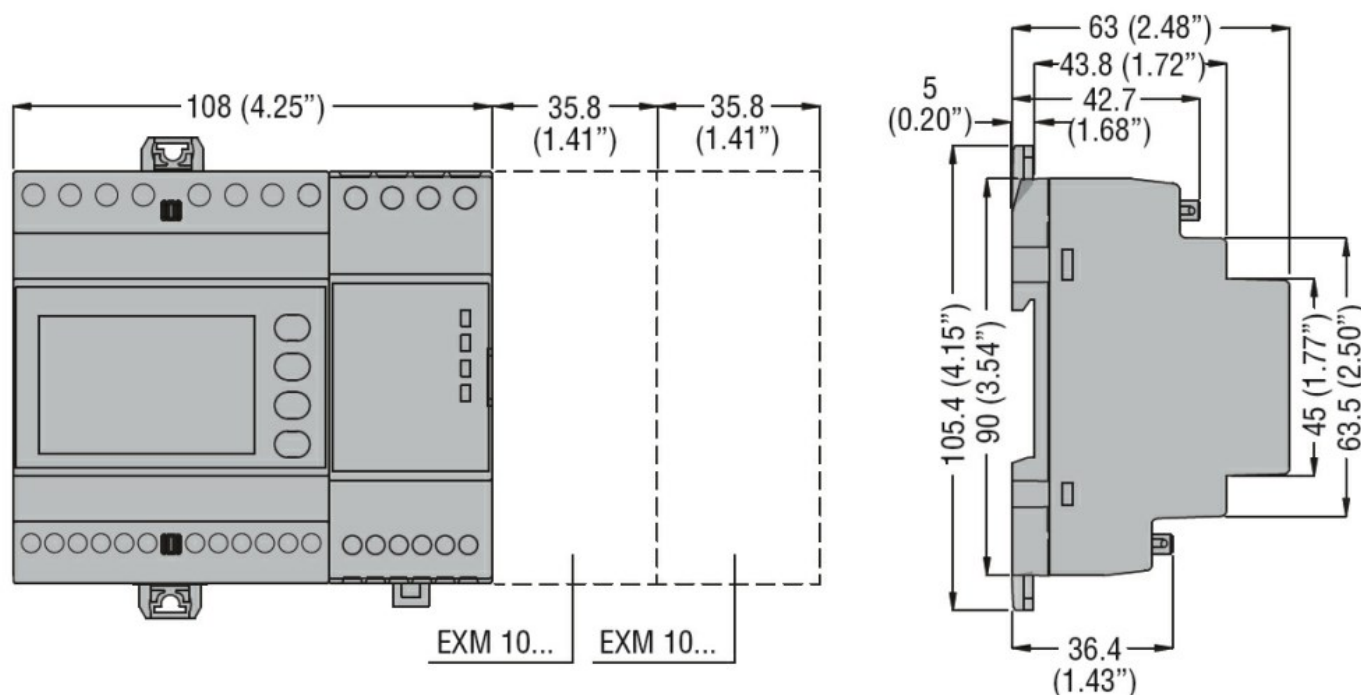
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min	mm ²	0.2
Max	mm ²	4

Housing

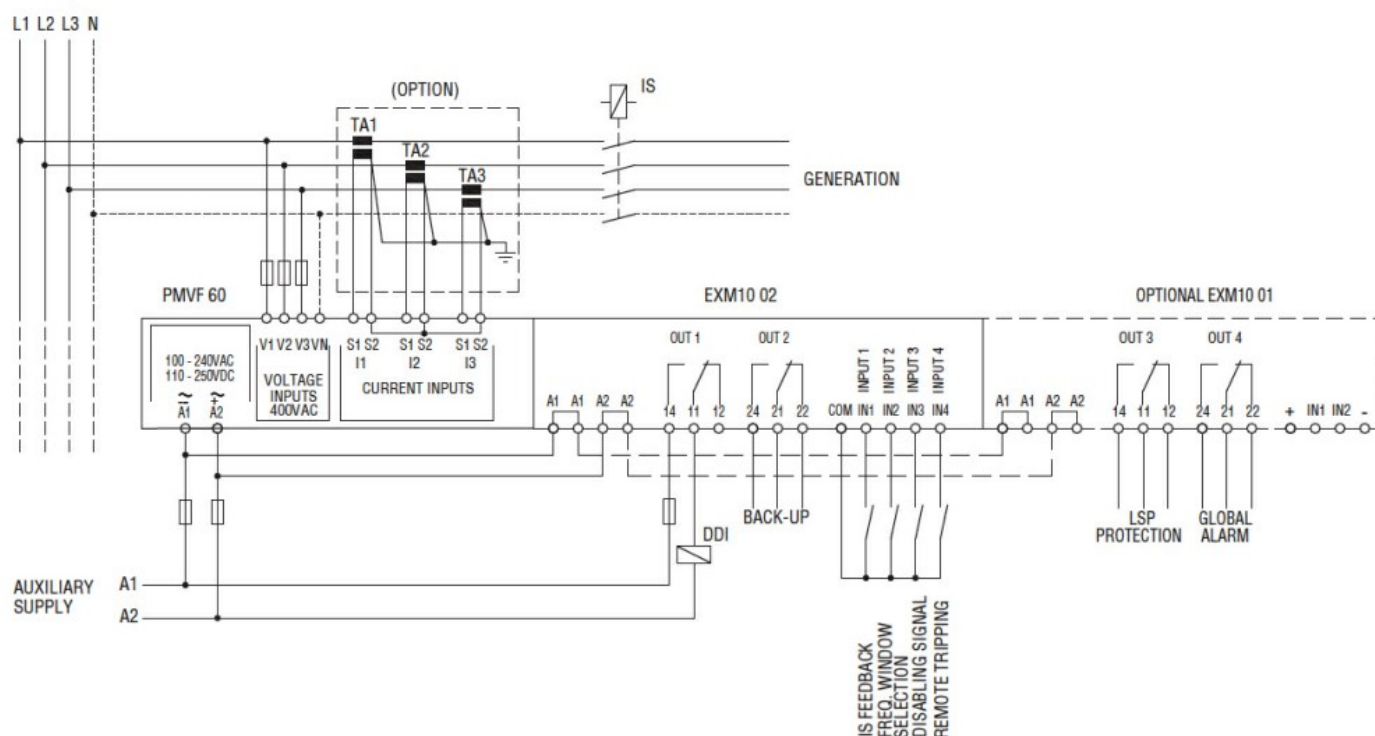
Execution (n° of modules)	6
Material	Polyamide
Mounting	Modular 6U
IEC degree of protection	IP40 on front; IP20 at terminals
Dimensions (W x H x D)	mm 108 x 105.4 x 63
Weight	g 470

Dimensions



Wiring diagrams

INTERFACE PROTECTION UNIT COMPLIANT WITH SHAMS DUBAI DRRG (DEWA) - SEC (SAUDI ELECTRICITY COMPANY) FOR THREE-PHASE SYSTEM, WITH OR WITHOUT NEUTRAL, LOW AND MEDIUM 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 60255-26

IEC/EN 60255-27

Certificates

SEC (Saudi Electricity Company) TECHNICAL STANDARD

SHAMS DUBAI - DRRG STANDARDS VERSION 2.0

ETIM classification

ETIM 8.0

EC001438 -
Voltage
monitoring relay