PMVF30D048

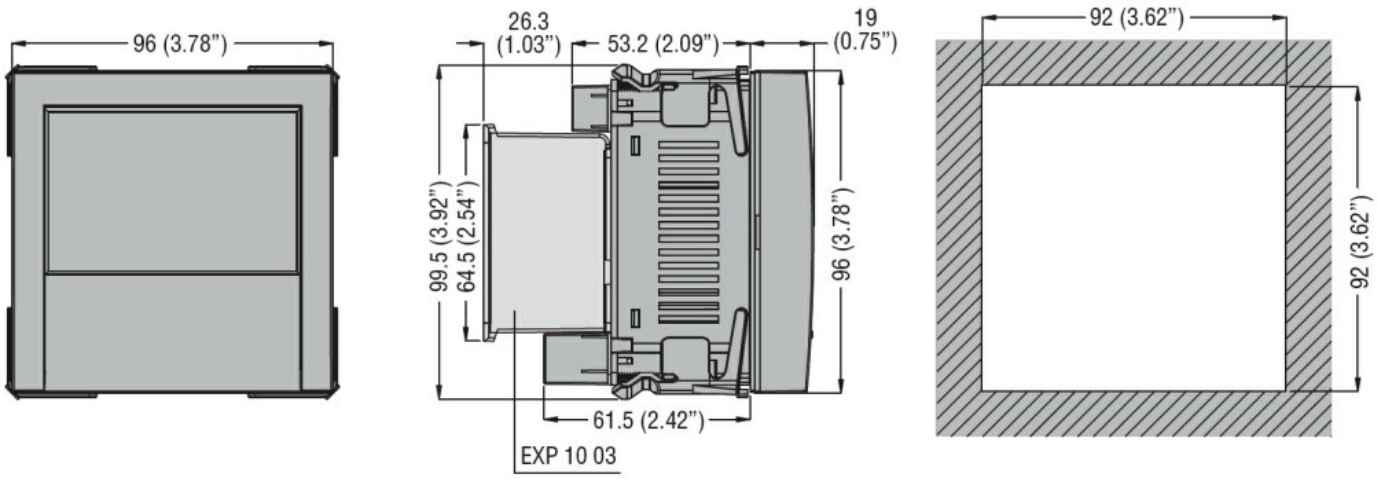
INTERFACE PROTECTION SYSTEM UNIT COMPLIANT WITH ITALIAN STANDARD CEI 0-16, FOR MV SYSTEM, DUAL THRESHOLD MINIMUM AND MAXIMUM VOLTAGE AND FREQUENCY PROTECTION, MEASUREMENTS VIA VTS IN MV OR DIRECT IN LV

Product designation			Interface protection system units compliant with italian standard CEI 0-16
Product type designation			PMVF30D048
General characteristics			
Description			Medium-voltage system. Dual threshold minimum and maximum voltage and frequency protection
Power supply			
Operating voltage range			90…440VAC / 93.5…300VDC
Rated frequency		Hz	45…55
Control circut			
Rated current (Ie)		A	CT /5A /1A
Auxiliary supply			
Rated auxiliary supply voltage Us			
	AC		
	min	VAC	100
	Max	VAC	400
	DC		
	min	VDC	110
	Max	VDC	250
Power consumption			
	AC (Max)		
		VA	7.5VA al 110VAC; 10VA at 230VAC; 14VA at 400VAC
	DC (Max)		
		VA	35mA at 110VDC; 14mA at 250VDC
Power dissipation			
	AC (Max)		
		W	4W at 110VAC;4.2W at 220VAC; 5W at 400VAC
	DC (Max)		
		W	3.8W at 110VDC; 4W at 250VDC

Immunity time for microbreakings		ms	≤30ms at 110VAC; ≤140ms at 230VDC
Voltage inputs			
Maximum rated operational voltage			50…500VAC (for voltages/frequency / 50…150V (for residual voltage measurement)
Measurement range		V	400-150000V (VT primary)
Frequency range		Hz	45…55
Current inputs			
Measurement range			For 1A scale: 0.01…1.2A; for 5A scale: 0.01… 6A
Type of input			Shunts powered by external current transformer (low voltage) 5A max
Measurement method			RMS
Overload peak		A	50A for 1 second
Burden per phase		W	≤0.3W
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			5A 250VAC AC1/B300; 5A 30VDC
Digital inputs			
Number and type of inputs			4 negative (NPN)
Input voltage			24VDC isolated
Input current		mA	7
Connections			
Terminals type			Screw - removable
Tightening torque for terminals			
	max	Nm	0.5
	max	lbin	4.5
Conductor cross section			
AWG/Kcmil			
	min	AWG	24
	Max	AWG	12
IEC			
	min	mm²	0.2
	Max	mm²	2.5
Housing			
Material			Polyamide
Mounting			Flush mount 96x96mm / 3.78x3.78"

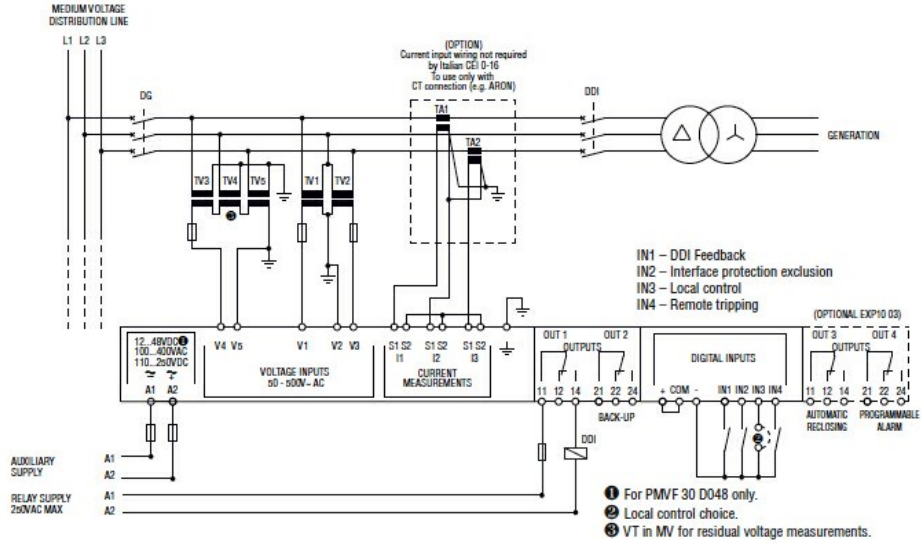
IEC degree of protection		IP65 on front; IP20 at terminals
Dimensions (W x H x D)	mm	96 x 96 x 53.2
Weight	g	566

Dimensions

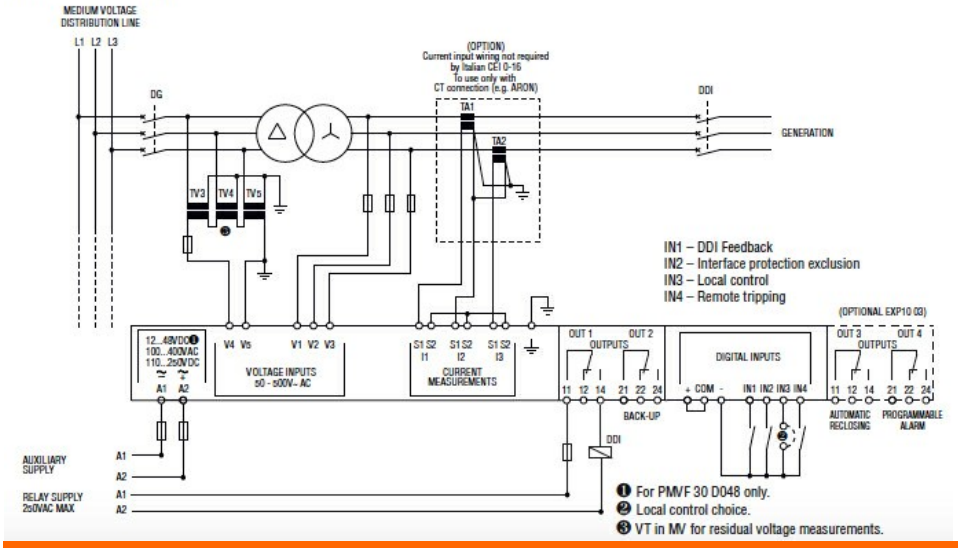


Wiring diagrams

Connection through VTs in Medium Voltage
Three-phase connection



Direct connection in Low Voltage
Three-phase connection



Certifications and compliance

Compliance

IEC/EN 60255-5
IEC/EN 61000-6-2
IEC/EN 61000-6-3
IEC/EN 61010-1

Certificates

CEI 0-16

ETIM classification

ETIM 8.0	EC001438 - Voltage monitoring relay