

## ► MEASUREMENTS:

- SINGLE AND THREE PHASE VOLTAGE & CURRENT
- POWER: W - Wh - VA - VAh - var - varh
- FOUR QUADRANTS COS $\phi$
- SINGLE AND TOTAL HARMONIC DISTORSION V/I
- TOTAL WORKING HOURS
- AMBIENT TEMPERATURE
- PROGRAMMABLE ALARM RELAY:
  - > Under/Over V - Overcurrent - Frequency - Low Cos $\phi$  - THD% I
- RECORDING MAX VALUE:
  - > Voltage (Lx/N - Lx/Lx) - Current - THD% (V - I) - Temp. (internal)

► RJ11 - TTL STANDARD - SERIAL INTERFACE:  
OWNER / MODBUS RTU COMMUNICATION PROTOCOL

## ► 144x144 PANEL MOUNTING

## ► SELF-EXTINGUISHED MATERIAL UL94 V0



## EU Directives - CE Marking:

&gt; 2014/30/UE - EMC

&gt; 2014/35/UE - LVD

## TECHNICAL DATA

	UNIT	MITFR3	
Supply voltage AC $\pm 10\%$	V $\sim$	230 L/N	3x400 + N
Nominal Frequency	Hz	50 - 60 (range: 45 - 65)	
Power consumption (max. AC)	VA	6.8	12
Rated Current (CT)	A	5/1...50000	
Immunity Time For Microbreakings		< 50ms	
Display Type	-	3 Display - 4 Digit - 7 Segment	

Measuring Type	-	True RMS
Voltage [ Lx/N ]	V $\sim$	100 / 280 $\pm 1\%$
Voltage [ Lx/Lx ]	V $\sim$	180 / 490 $\pm 1\%$
Current [ CT ]	A	0.055 / 5.5 $\pm 0.5\%$
Frequency	Hz	45 / 65 $\pm 1\%$
Cos $\phi$ [ Lx/Lx ]	-	0.00 / 1.00 $\pm 1\%$
Active Power [ Lx ]	W/kWh	Class 1
Reactive Power [ Lx ]	var/kvarh	Class 1
Apparent Power [ Lx ]	VA/var	Class 1
Voltage and Current THD	%	0 / 255
Ambient Temperature	$^{\circ}\text{C}$	0/+60 $^{\circ}\text{C}$ (or $^{\circ}\text{F}$ )

Working temperature	$^{\circ}\text{C}$	-20 / +60
Storage temperature	$^{\circ}\text{C}$	-30 / +70
Electrical Insulation	kV	4
Oversvoltage Category	-	II
Protection degree	IP	41 Front Cover - 20 Terminal Block
Pollution degree	-	2
Relative Humidity w/o cond.	RH%	90
Altitude up to	m	2000
Weight	g	680
Dimensions	mm	149 x 149 x 68

## Real Time Values

Voltage Lx/N	V $\sim$
Voltage Lx/Lx	V $\sim$
Current	A
Cos $\phi$	-
Active Power	W
Apparent Power	VA
Reactive Power	var

## Informations

Firmware Version
CT value
Alarm Events

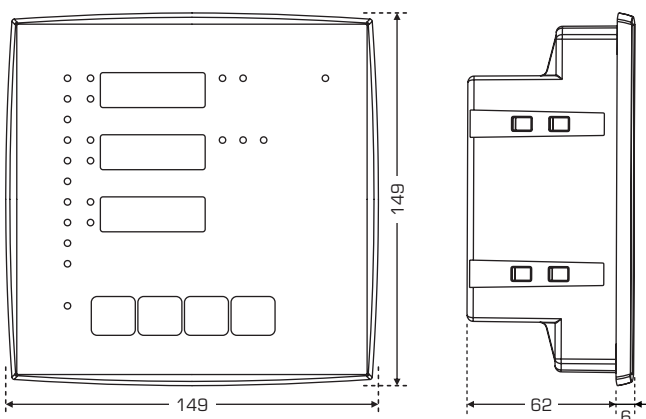
## Total Counter Values

Imported and Exported	
Active Energy	Wh
Lagging Apparent Power	VAh
Leading Apparent Power	VAh
Lagging Reactive Power	varh
Leading Reactive Power	varh

## Communication Data

Modbus Address
Modbus Mode
Bandwidth

## DIMENSIONS (mm)



## WIRING DIAGRAM

