

# ELF 3200 Series

## Digital Energy, Power & V,A,F Meters



### Models

Product Version V02.05

		ELF3259	ELF3234	ELF3234_3
	V V1 V2 V3 V12	•		
	V23 V31			
	A A1 A2 A3	•		
	% load (Per Phase)	•		
	% Unbal (Amp)	•		
	F	•		
	RPM	•		
RMS TOTAL L1 L2 L3	W/VA/VAR/PF		⊙	
	W/VA/VAR			⊙
	PF			•
INTEG 3PH energy	Wh/VAh/VARh (Ind & Cap)		⊙	⊙
OLD 3PH energy	Wh/VAh/VARh (Ind & Cap)		⊙	⊙

### Note1:

- 10 year back-up of integrated (Energy) data
- VA measurement selectable: 3D or Arithmetic
- • - standard
- ⊙ - user selectable

For comprehensive parameters and simultaneous viewing, we recommend the EM 6400 Series

### So much in so little!

#### Tiny!

- 96 x 48 mm. Depth 40 mm
- Low CT, PT, Aux Supply burden

#### Smart!

- True RMS
- Auto scaling: Kilo - Mega - Giga
- 3 Phase Wiring Check for CT reversal
- Bright red LED display
- Auto-scrolling
- INTG (Energy Parameters)
- OLD Energy Parameter (Wh, VAh, VARh, -VARh) previous energy values
- Easy access to setup using right key during power on
- Unbalance in phases (%Unbal), RPM, Load %

#### Global!

- Universal operation
- Dust proof
- Retrofit 90 mm 2 cutouts
- Protection from accidental contact with live terminals
- User programmable, Multiple Parameters
- User programmable Star or Delta.
- User Programmable CT, PT ratios - Primary and Secondary
- Wide range of Auxiliary Supply

#### Rugged Construction

- Emission : CISPR 22
- Fast Transient : Upto 2kV, IEC 61000-4-4, level 3
- Impulse voltage : 6kV, IEC 60060, 1.2/50

## Technical Specifications

V input overload withstanding		A input overload withstanding	
■ Sensing	:	True RMS, 1 sec update time 4 Quadrant Power & 2 Quadrant Energy	
■ Input	:	4 Voltage inputs (V1, V2, V3, VN) 110 or 415 V L-L nominal (Range 80 to 500 V L-L)	
■ Auxiliary Supply (Control Power)	:	80-270V ac, 45 to 65 Hz	
■ Input current	:	Current inputs (A1, A2, A3) Field configurable 1A or 5A (Range 50mA to 6A) Overload 10A max. continuous 50A max. for 3 Seconds	
■ Burden	:	0.2 VA max. per Volts / Amps input 3VA max. on Auxiliary Supply	
■ Frequency	:	45 to 65 Hz	
■ Display	:	4 Digit 7 Segment 14 mm LED Display	
■ Display sequence	:	Parameter (2 Sec), Value (8 Sec)	
■ Resolution	:	Energy 8 digit (4 per page) Power, 3Ø V, A, Hz 4 digit	
■ Environmental	:	Operating Temperature - 10°C to 60°C (14°F to 140°F) Storage Temperature - 25°C to + 70°C (-13°F to 158°F) Humidity 5% to 95% Non Condensing	
■ Weight	:	225 gms approx	
■ Dimensions	:	Bezel 96 x 48 mm Depth 40 mm behind Bezel	
■ Panel Cut-out	:	(90 <sup>±1</sup> ) x (43 <sup>±1</sup> ) mm	
■ Mounting	:	Flush Mount, Slide Lock	

## Accuracy

Class 1.0: W / Wh: Class 1.0 as per IEC 62052-11 & IEC 62053-21,  
VAR / VARh: Class 2.0

All other parameters 1.0% of reading.

Class 0.5: W / Wh: Class 0.5 as per IEC 62052-11 & IEC 62053-21,  
VAR / VARh: Class 1.0

All other parameters 0.5% of reading.

Note: 1. PF Accuracy same as W/Wh in %

2. Additional error of 0.05% of full scale for current below 200 mA

3. Full-scale 3 x 240V x 5A

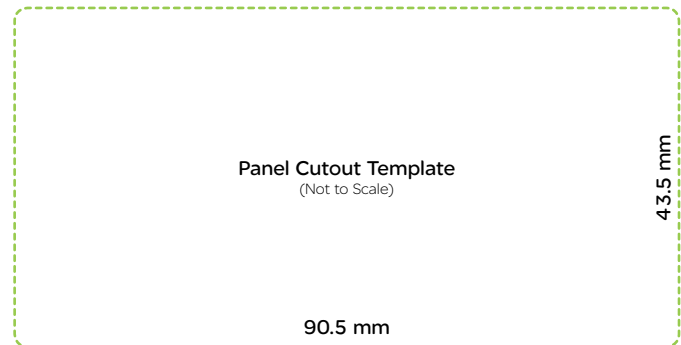
## Accessories

96 x 96 Adaptor plate

## Ordering Information

### Specify

Model No.	Accuracy Class
ELF 3259	<input type="checkbox"/> CL 1.0
	<input type="checkbox"/> CL 0.5
ELF 3234	<input type="checkbox"/> CL 1.0
	<input type="checkbox"/> CL 0.5
ELF 3234-3	<input type="checkbox"/> CL 1.0
	<input type="checkbox"/> CL 0.5



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