

# ELF<sup>™</sup> 3200 Series

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



### So much in so little!

#### Tiny!

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

#### Smart!

- True RMS
- Auto scaling: Kilo - Mega - Giga
- 3 Phase Wiring Check
- Large Multi-function 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
- Dustproof
- Retrofit 90 mm<sup>2</sup> cutouts
- Protection from accidental contact with live terminals
- User programmable, Multiple Parameters
- User programmable Star or Delta. For the first time, you don't even need to specify CT secondary (1A/ 5A)
- 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

## Models

Product Version V02.05

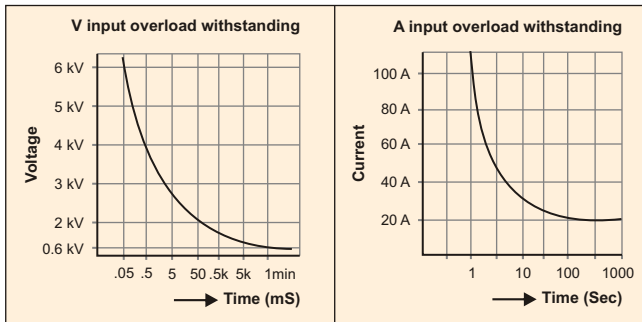
| Parameter                | ELF 3259 | ELF 3234                    |    |     |    | ELF 3234-3                  |    |     |
|--------------------------|----------|-----------------------------|----|-----|----|-----------------------------|----|-----|
|                          |          | User PAR Setup <sup>1</sup> |    |     |    | User PAR Setup <sup>1</sup> |    |     |
|                          |          | W                           | VA | VAR | PF | W                           | VA | VAR |
| RMS<br>AVG<br>L1 L2 L3   | V        | ✓                           |    |     |    |                             |    |     |
|                          | A        | ✓                           |    |     |    |                             |    |     |
|                          | % Load   | ✓                           |    |     |    |                             |    |     |
|                          | % Unbal  | ✓                           |    |     |    |                             |    |     |
|                          | F        |                             |    |     |    |                             |    |     |
|                          | RPM      | ✓                           |    |     |    |                             |    |     |
| RMS<br>TOTAL<br>L1 L2 L3 | W        | ✓                           |    |     |    | ✓                           |    |     |
|                          | VA       | ✓                           | ✓  |     |    |                             | ✓  |     |
|                          | VAR      | ✓                           |    | ✓   |    |                             |    | ✓   |
|                          | PF       |                             |    |     | ✓  | ✓                           | ✓  | ✓   |
| INTEG<br>3PH energy      | Wh       | ✓                           |    |     |    | ✓                           |    |     |
|                          | VAh      |                             | ✓  |     |    |                             | ✓  |     |
|                          | VARh     |                             |    | ✓   |    |                             |    | ✓   |
|                          | -VARh    |                             |    | ✓   |    |                             |    | ✓   |
| OLD<br>3PH energy        | Wh       | ✓                           |    |     |    | ✓                           |    |     |
|                          | VAh      |                             | ✓  |     |    |                             | ✓  |     |
|                          | VARh     |                             |    | ✓   |    |                             |    | ✓   |
|                          | -VARh    |                             |    | ✓   |    |                             |    | ✓   |

Note1: Set up parameter (PAR) is user programmable as shown.

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

For comprehensive parameters and simultaneous viewing, we recommend the **EM 6400 Series DigitAN<sup>™</sup>/Power Max<sup>™</sup>**

## Technical Specifications



- Sensing : True RMS, 1 sec update time  
4 Quadrant Power & 2 Quadrant Energy
- Input : 4 Voltage inputs ( $V_1, V_2, V_3, V_N$ )  
110 or 415 V L-L nominal  
(Range 80 to 500 V L-L)
- Auxiliary Supply : 80-270V ac, 45 to 65 Hz  
(Control Power)
- Input current : Current inputs ( $A_1, A_2, A_3$ )  
Field configurable 1A or 5A  
(Range 50mA to 6A)  
Overload 10 A 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, Value
- Resolution : Energy 8 digit (4 per page)  
Power, 3 $\emptyset$  VA 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><sub>-0</sub>) x (43<sup>+1</sup><sub>-0</sub>) mm
- Mounting : Flush Mount, Slide Lock
- Warranty : 1 Year from date of Invoice

## 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

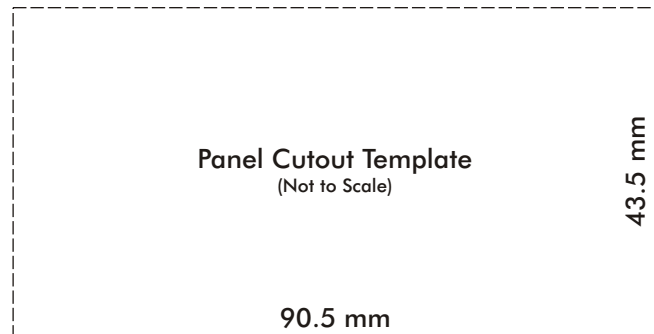
## Accessories

Optional: Fused Voltage Probes & Clamp-on Current Probes for portable use. 96 x 96 Adaptor plate

## Ordering Information

Specify

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



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Conzerv Representative

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