

ELF[™] 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 mm² 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 ¹ | | | | User PAR Setup ¹ | | |
| | | W | VA | VAR | PF | W | VA | VAR |
| RMS AVG L1 L2 L3 | V | • | | | | | | |
| | A | • | | | | | | |
| | % Load | • | | | | | | |
| | % Unbal | • | | | | | | |
| | F | • | | | | | | |
| | RPM | • | | | | | | |
| RMS TOTAL L1 L2 L3 | W | | • | | | • | | |
| | VA | | | • | | | • | |
| | VAR | | | | • | | | • |
| | PF | | | | | • | • | • |
| INTEG 3PH energy | Wh | | • | | | • | | |
| | VAh | | | • | | | • | |
| | VARh | | | | • | | | • |
| | -VARh | | | | • | | | • |
| OLD 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[™]

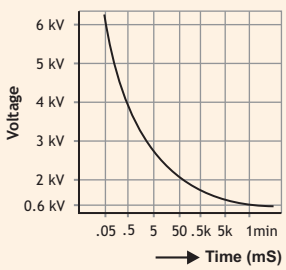
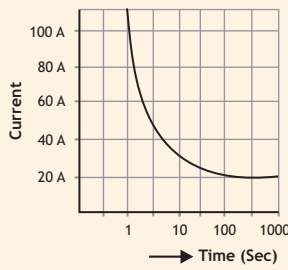
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1 224-356-9865

Technical Specifications

| V input overload withstanding | | A input overload withstanding | |
|--|--|---|--|
|  | |  | |
| <ul style="list-style-type: none"> ■ 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 (Control Power) : 80-270V ac, 45 to 65 Hz ■ Input current : Current inputs (A_1, A_2, A_3) 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, $3\varnothing$ 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 : $(90^{+1}_{-0}) \times (43^{+1}_{-0})$ mm ■ Mounting : Flush Mount, Slide Lock ■ Warranty : 3 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

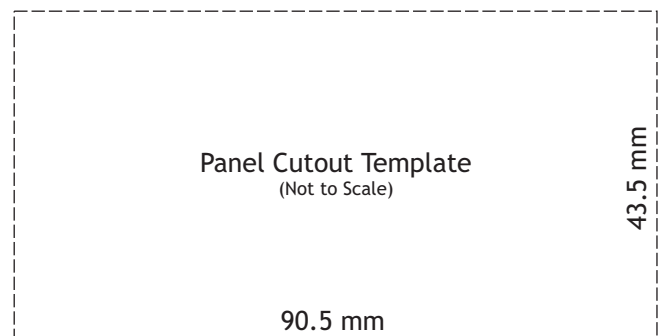
Accessories

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 <input type="checkbox"/> CL 0.5 |
| <input type="checkbox"/> ELF 3234 | <input type="checkbox"/> CL 1.0 <input type="checkbox"/> CL 0.5 |
| <input type="checkbox"/> ELF 3234-3 | <input type="checkbox"/> CL 1.0 <input type="checkbox"/> CL 0.5 |



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