



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				•			•

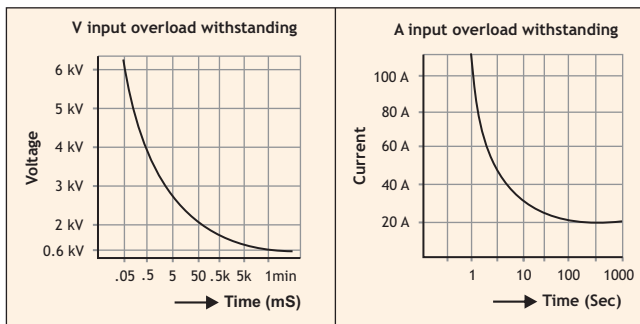
Note1: Set up parameter (PAR) is user programmable as shown.

- 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[™]

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 (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, 3ϕ 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

