VAF Meters - Digital

VAF39A



96 x 96 mm

Features:

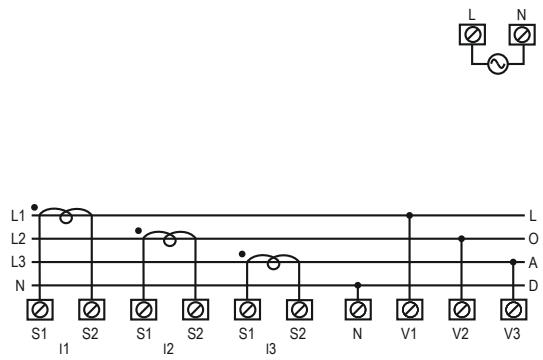
- 3Ø (True RMS) Voltage
- 3Ø (True RMS) Current
- Power (kW, kVAR, kVA)
- Power factor
- Frequency
- Run hour (Hour - Mins)
- RPM

Technical specifications

Display specifications	
Display	7 segment LED display
Digits	3 rows of 3 digits
Digit height	0.57" (14.5 mm)
Input specifications	
Electrical connection	3Ø-3W & 3Ø-4W
Input voltage rated	11 to 300V AC (L-N); 19 to 600V AC (L-L)
Input current rated	Nominal 5A (Min-20mA, Max-7.2A)
Frequency	45 to 65 Hz
Display scrolling	Automatic / Manual (Programmable)
RPM	Pole: 0 (Range: 0-98, selectable in steps of 2), Frequency: 45-65 Hz
Run hour	0-99999.9 hr
Resolution	Current, Voltage & Power: Depending on CT & PT RPM: 0.1 Run hour: 0.1 hr Power factor: 0.01
Accuracy	Voltage (L- N / L- L/ Average): ±0.5% of F.S. ±2 digits Current & average current: ±0.5% of F.S. ±2 digits Run hour: ±1% RPM: ±0.5% Frequency: ±0.1 Hz ±1 digit Power: 1%, Power factor: ±0.01
Measurements	1) 3Ø Voltage (L-N, L-L, Avg.) 2) 3Ø Current (I1, I2, I3, Avg.) 3) Frequency 4) RPM 5) Run hour 6) Power 7) Power factor
Installation category	Installation category II (600V) Installation category III (35V-480V)
Supply specifications	
Auxillary supply	85-276V AC/DC, (50/60 Hz)
Burden	< 0.5VA @5A per phase
Settable parameters	
CT primary	1A / 5A to 10,000A (Programmable for any value) Note: 1A to 10000A if CT secondary is 1 else 5A to 10000A
CT secondary	1A or 5A
PT primary	100V to 500kV (programmable for any value)
PT secondary	100V to 500V AC (L-L) (programmable for any value)

Environmental specifications	
Temperature	Operating: -10 °C to +55 °C Storage: -20 °C to +75 °C
Humidity (non-condensing)	Upto 85%
Mechanical specifications	
Mounting	Panel mount
Weight	206 gm
IP degree of protection	Front: IP65 Back: IP20 Terminal: IP20

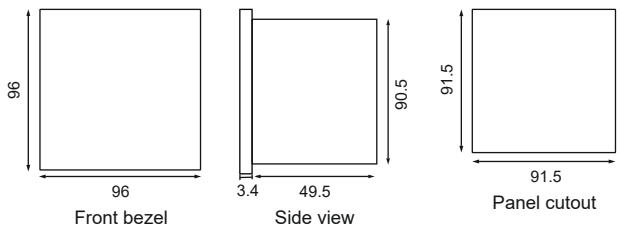
Terminal connections



Cable Size (AWG): 20 to 14; Tightening Torque (Lb-inch): 6.1955 to 7.0806

Cable Size (mm^2): 0.5 to 2.5; Tightening Torque (N-m): 0.7 to 0.8

Dimensions (All are in mm)



Ordering information

Product code	Supply voltage	Certification
VAF39A	85 to 276V AC/DC, (50/60 Hz)	- - -

Standards compliance

Applicable EMI / EMC Standards		
Product standard: IEC 61326 - 1		
Category	**Standards**	**Compliance**
ESD Immunity	IEC 61000-4-2	Level IV (Air discharge: 15kV), (Contact discharge: 8kV)
Surge Immunity	IEC 61000-4-5	+/- 2kV Common mode, (Line to ground) +/- 1kV Differential mode, (Line to line)
Radiated Susceptibility	IEC 61000-4-3	Level III, 80 to 1000MHz (10V/m) Level II, 1.4GHz to 2GHz (3V/m) Level I, 2GHz to 2.7GHz (3V/m)
Conducted Susceptibility	IEC 61000-4-6	Level II (3V/m)
Voltage Dips and Interruptions	IEC 61000-4-11	**Dips:** 0% Residual voltage/ 1 Cycle (Criteria B), 40% Residual voltage / 10 Cycles 50Hz / 12 Cycles 60Hz (Criteria C) 70% Residual voltage / 25 Cycles 50Hz /30 Cycles 60Hz (Criteria C) **Interruptions:** 0% Residual voltage / 250 Cycles 50Hz / 300 Cycles 60Hz (Criteria C)
Conducted Emission	CISPR-11	
Radiated Emission	CISPR-11	
Electrical Fast Transient	IEC 61000-4-4	Level III (2kV)