

Data Sheet

RISH CD30/60 Compact VAF Meter





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Application:

RISH CD30/60 Compact VAF Meter measures electrical parameters in 1 Phase Network for AC direct current measurement application.

Salient Features:

- True RMS measurement.
- 2 Line 4 digits ultra bright LED display.
- Direct current measurement upto 30/60 A depending on model.
- Fast & Easy Installation on housing with self clicking.
- Optional RS485 (MODBUS) for remote settings and monitoring.

RISH CD60

Product Features:

Display parameters:

Voltage VLN, Line current, Frequency, RPM, System Min-Max Voltage and Current, System Voltage and Current THD

True RMS Measurement:

The instrument measures distorted waveform upto 15th harmonic.

2 line 4 digits LED display:

2 Line 4 digits seven segment LED display for simultaneous reading of voltage and current.

Storage of system parameters:

The instrument stores minimum and maximum values for system voltage, system current available on both display and MODBUS.

Front panel keys:

Using three key, it is possible to go to desired parameter on screen instantly. Three keys are also useful for easy setup navigation and changing setup parameters.

Display Autoscroll:

Display auto scroll enables user to see all parameters without key operation. On site selection of auto/manual scrolling.

Direct Connected Current Measurement:

Instrument measures current upto 30/60A depending on variant, without any external CT.

Communication:

Optional Isolated multi baud rate RS485 (MODBUS) output for remote viewing, configuration and external logging.

On site programmable PT parameters:

Potential Transformer (PT) primary and secondary is programmable on site through front panel keys and MODBUS. PT Primary value ranging from 57VLN to 4618 kVLN. PT Secondary value ranging from 57VLN to 300VLN.

Auxiliary supply:

Higher Auxiliary power supply with voltage range 60V-280V AC / DC. Lower Auxiliary power supply with voltage range 20-60V AC/DC.

Enclosure Protection for dust and water:

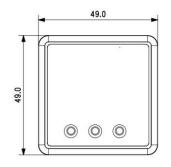
Conforms to IP 54 (for front face) & IP 20 (for back) & as per IEC60529.

EMC Compatibility:

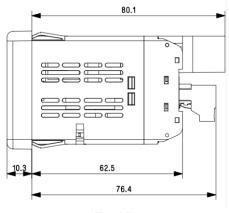
Compliance to IEC61326



Dimensions Details

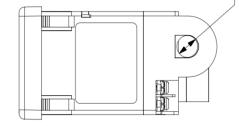


Front View

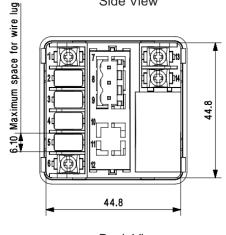


Top View

Ø 9.5



Side View



Back View

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Technical Specifications:

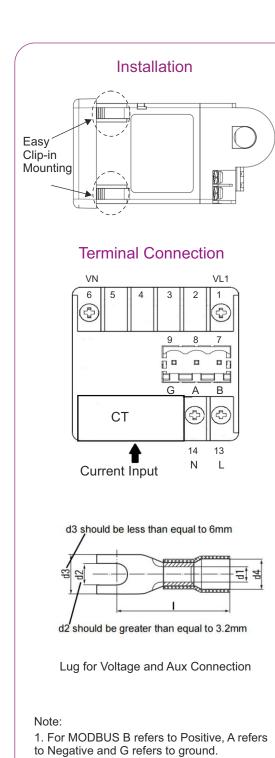
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0 100% of Nominal value)
.5 % of Nominal Current
0 100% of Nominal value)
.2 % of mid frequency
%
025 % /°C for Voltage and Frequency
05 % /°C for Current
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Control

Record

Measure

Analyze



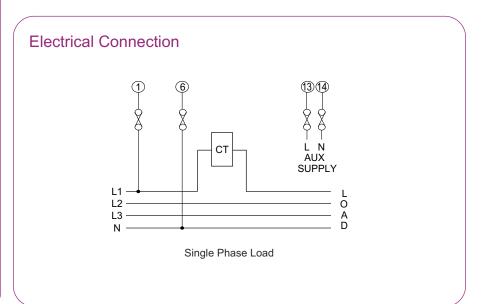
2. Use stranded wire for terminal connection.

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Technical Specifications:

Environmental:	
Operating temperature	-20°C to +60°C
Storage temperature	-30°C to +70°C
Relative humidity	0 90% non condensing
Warm up time	Minimum 3 minute
Shock	Half sine wave, Peak acceleration 30gn (300 m/s^2), duration of 18ms 3 axis - 6 shocks in each axis
Vibration	10 55 Hz, 0.15mm amplitude
Altitude	2000 m max
Enclosure:	
Front	IP 54
Back	IP 20
Mechanical:	
Housing dimensions	49 x 49 x 90.4 mm ³
Panel cut-out	45 x 45 mm ²
Back depth	80.1 mm
Packed/Unpacked Weight	145 gm, 115 gm
Clamp Screw Size	M3
Cable size for Voltage and Aux	2.5 mm ²
Cable size for Modbus	2.5 mm ²
Cable size for Current	90.25 mm ²
Torque to be applied	0.3 N-m to 0.5 N-m
Safety:	
Pollution degree Installation category High Voltage Test	2 III 3.3 kV AC, 50Hz for 1 minute between aux. and measuring inputs 2.2 kV AC, 50Hz for 1 minute between aux. and modbus





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Electrical Parameters:

Sr No.	Parameters	1 Phase 2 Wire
1	System Voltage	\checkmark
2.	Max System Voltage/Current	\checkmark
3.	Min System Voltage/Current	\checkmark
4.	System Frequency	\checkmark
5.	RPM	\checkmark
6.	System Voltage and Current THD	\checkmark

Ordering Information:

Parameters	AV00-	X X X X X X X 100000
Size	48 x 48mm	S
Accuracy	Class 0.5	5
System Type	1 Phase	1
Input Voltage	57.7 - 300VLN	1
Input Current	30A (CD30)	0
	60A (CD60)	2
Optional Output	RS485 communication	R
	Not Required	Z
Power Supply	60V – 280V AC/DC	Н
	20V–60V AC/DC	L

Ordering Example

AV00-S5110RH100000 - 48 x 48mm, Class 0.5, 1 Phase, 57.7 - 300VLN, 30A, RS485 communication, 60V-280V AC/DC





