



FEATURES

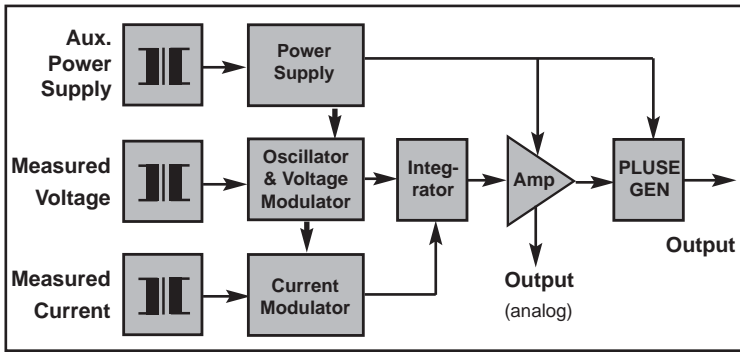
- Accuracy : $\pm 0.2\%$ RO.
- Precision measurement for unbalance system
- Precision measurement even for distorted wave
- High impulse & surge protection (5KV)
- The case can be mounted on a 35mm rail which complies with DIN 46277



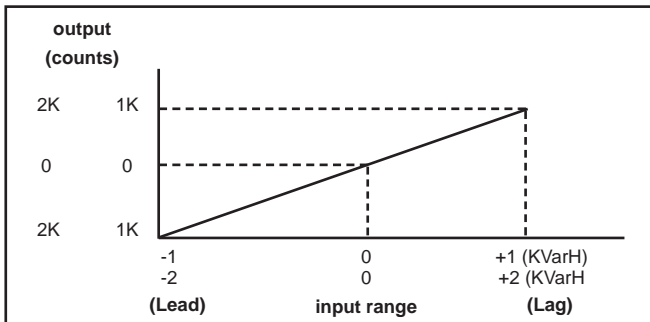
DESCRIPTION

Model : S3-RHD-1 1 Φ 2W, VARHOUR
 S3-RHD-3 3 Φ 3W, VARHOUR
 S3-RHD-3A 3 Φ 4W, VARHOUR

For kilovar-hour-measurement, we build in another Linear integrator Circuit. This circuit accepts signal from Vars portion and integrates with respect to time, to produce a pulse output via volt free contacts, result in pulse proportional to kilovar-hours.



INPUT - OUTPUT CURVE



SPECIFICATION

Input

Input Range				Max. Input Over Capability	
Circuit	Amp.	Voltage	Basic KVarH		
Single Phase	5 A	110V(120V)	0~ ± 0.5 KVarH	Ampere : 3 x rated continuous 10 x rated 10 secs. 50 x rated 1 sec.	
		220V(240V)	0~ ± 1 KVarH		
3-Phase 3-Wire	5 A	110V(120V)	0~ ± 1 KVarH		
		220V(240V)	0~ ± 2 KVarH		
3-Phase 4-Wire	5 A	190V(110V) (208/120V)	0~ ± 1.5 KVarH		Voltage : 2 x rated continuous
		380V(220V) (416/240V)	0~ ± 3 KVarH		

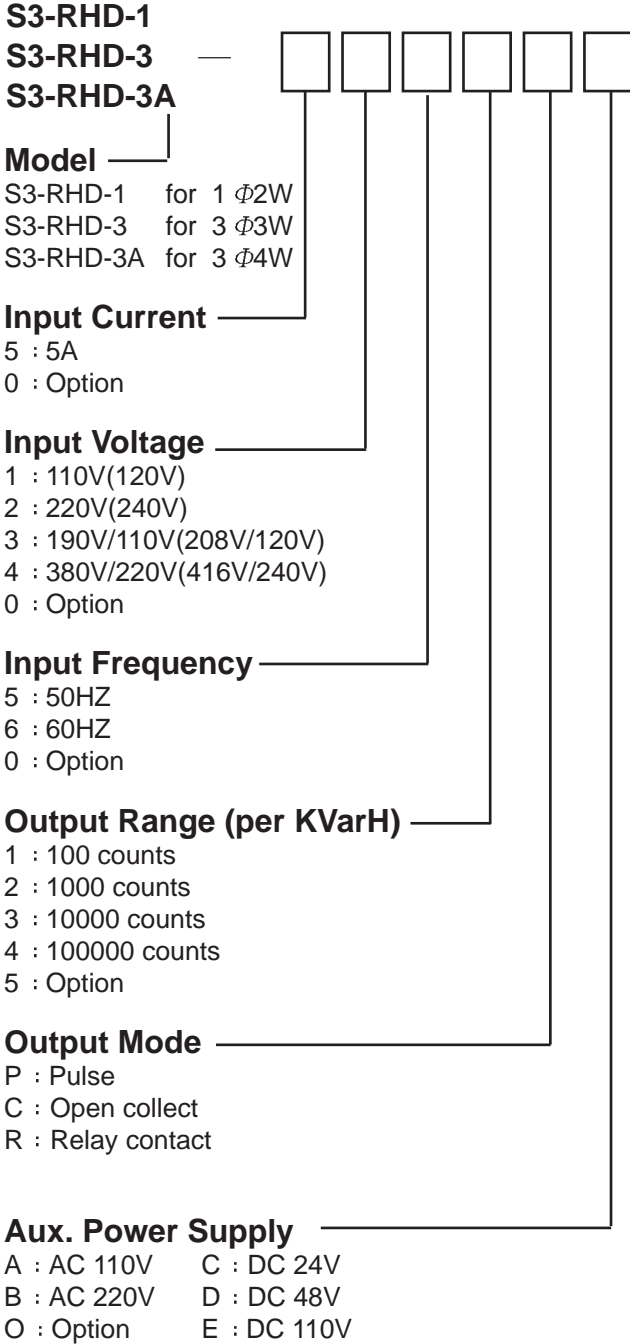
Output

Output Range		Output Mode		
per 1KVarH	100 counts	Pulse	Open Collect	SPST Relay Contacts
	1000 counts			
	10000 counts	DC 15V, 10mA	DC 30V, 100mA	AC 110V, 0.5A DC 24V, 1A
	100000 counts			

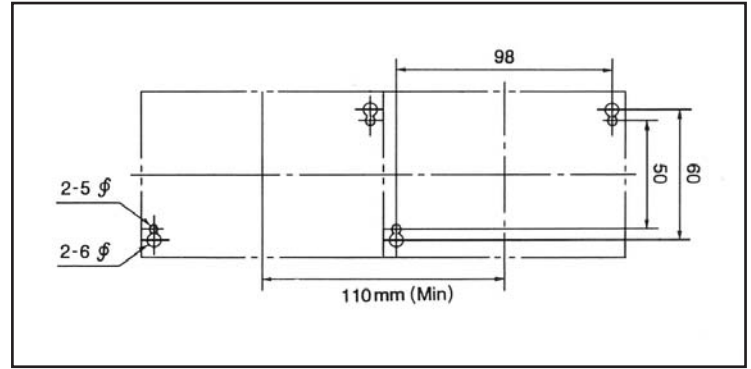
- Accuracy $\pm 0.2\%$ RD.
- Input frequency 50HZ ± 0.02 HZ or 60HZ ± 0.02 HZ
- Input burden ≤ 0.1 VA (ampere input)
 ≤ 0.2 VA (Voltage input)
- Aux. power supply AC110V $\pm 15\%$, 50HZ/60HZ
AC220V $\pm 15\%$, 50HZ/60HZ
DC 24V, 48V, 110V, $\pm 15\%$
- Power effect $\leq 0.1\%$ RO.
- Power consumption ≤ 4 VA, \leq DC 3W
- Waveform effect $\leq 0.2\%$ RO. at distortion factor 15%
- Electromagnetic balance effect $\leq 0.1\%$ RO.
- Mutual interference effect $\leq 0.1\%$ RO. between element.
- Magnetic field strength $\leq 0.2\%$ RO., 400A/M
- Span adjustment range $\geq 5\%$ RO.
- Zero adjustment range $\geq 1\%$ RO.
- Operating temperature range 0~60°C
- Storage temperature range -10~70°C
- Temperature coefficient ≤ 100 PPM, 25°C ± 10 °C
- Max. relative humidity 95%
- Isolation Input/output/power/case
- Insulation resistance $\geq 100M\Omega$, DC 500V
- Dielectric withstand voltage Between input/output/power/case
(IEC 414,688,ANSI C37) AC 2.6KV, 60HZ, 1min
- Impulse withstand test 5KV, 1.2 x 50 μ s
(IEC 255-4,ANSI C37 90a) Common mode & differential mode
- Performance Designed to comply with IEC688
- Safety requirements IEC414, BS5458



ORDERING INFORMATION

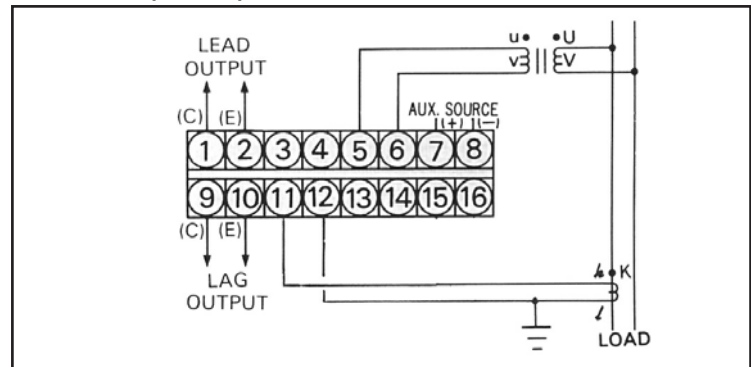


★ PANEL MOUNTING HOLES (UNIT:mm)

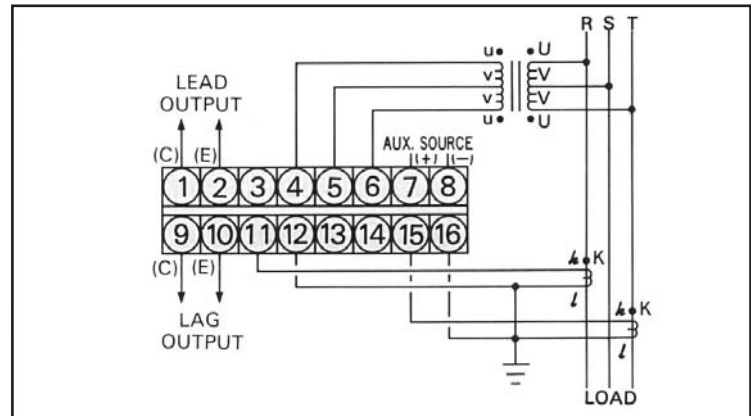


CONNECTION DIAGRAM

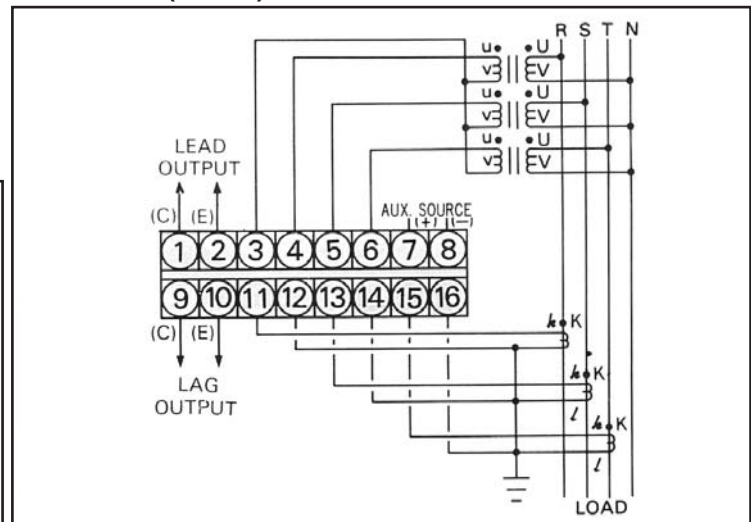
S3-RHD-1 (1 Φ 2W)



S3-RHD-3A (3 Φ 3W)



S3-RHD-3A (3 Φ 4W)



THE OUTSIDE DIMENSION (UNIT:mm)

