## **SSU34**

## Three phase + N voltage monitoring | 400 V AC



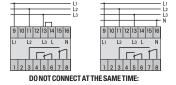
Power supply		10
Nominal voltage	400 V AC	
Operating voltage range	240 495 V	· · · · · · · · · · · · · · · · · · ·
Power consumption AC/DC	1.5 VA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Rated frequency	50 Hz	
Measuring circuit		
Measured parameters	U, ΔPhi, Δf	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Monitoring functions	Under, over, phase failure, phase sequence	
Number of voltage measurement inputs	4 (L1 / L2 / L3 / N)	fig. 1. Wiring diagram
Rated AC voltage L-N / L-L	230 V / 400 V	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AC voltage measurement range L-N / L-L	160 275 V / 280 480 V	
Undervoltage setting range	160 225 V / 280 390 V	9 10 11 12 13 14 15 16 9 10 11 12 13 14 1:
Overvoltage setting range	235 275 V / 410 480 V	LI L2 L3 L N LI L2 L3 L
Voltage difference setting range L-L	20 100 V 35 173 V	
Rated base frequency	50 Hz	
Frequency difference setting range L-L	3 15 Hz	DO NOT CONNECT AT THE SAME TIME: Neutral conductor N and bridge L3-!!
Phase angle difference setting range L-L	3 15 nz 3 15°	fig. 2. DC load limit curve
Alarm delay	0.2 5 s	
	0.2 5 5	
Main circuit		3
Number of contacts	2 CO	
Contact Material	Ø AgNi	
Rated voltage	250 V	
Rated current	5 A	
Minimum load	10 mA, 12 V	
Inrush current	15 A, 20 ms	0.2
Rated load DC	fig. 2	0.1
Rated load AC-1	1250 VA	0 50 100 150 200 2 Voltage [V]
Mechanical endurance (cycles)	5 x 10 <sup>6</sup>	
Electrical endurance at rated load AC-1 (cycles)	fig. 3	fig. 3. AC voltage endurance
Insulation		
Rated test voltage measuring / measuring circuit	3 kV rms / 1 min	
Rated test voltage measuring circuit / main circuit	3 kV rms / 1 min	
Rated test voltage open contact	1 kV rms / 1 min	g 1 1 1 1
Pollution degree	2	<sup>8</sup> 2 2 2 10 <sup>6</sup>
Overvoltage category	- 11	ĭ N
General data		
	-40 85 °C	105
Ambient temperature storage Ambient temperature operation	-40 85 °C -10 60 °C	$10^{\circ}$
Conductor cross section	2.5 mm <sup>2</sup> , 2 x 1.5 mm <sup>2</sup>	Switching current [A]
Nominal screw torque	0.5 Nm	fig. 4. Dimensions (mm)
Module width		
	fig. 4	
Weight	350 g	
Protection degree	IP 20	
Housing material	PC	
Product references		1835
Types	Product reference 400	

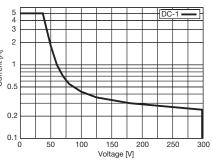
Types	Product reference	400
Three phase monitoring	SSU34/ACV	1

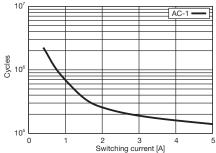
"..." list control circuit voltage to complete product references.

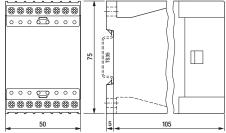
Other voltages on request. Please contact support@comatreleco.com.











Standards and approvals									
Standards	IEC/EN 60947								
Approvals	CE EAE 🔊 us								

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## 3 Monitoring & Measuring Devices Monitoring relays features



	Description	MRE-44S	MRM11	MRM11R	MRM32	MRM32R	MRU11	MRU32	MV53	SSU34	SSU31	SSU33L	MRI11	MRI32	TSR19	ESU-D2R	CT515R	CT524R
Monitoring	One phase voltage monitoring		•	•			•		•									
	Three phase voltage monitoring				•	•		•		•		•						
	Four channel voltage measuring	•																
	DC Voltage monitoring		•	•	•	•	•	•			•							•
	One phase current monitoring		•	•									•					
	Three phase current monitoring				•	•								•				
	Four channel current measuring	•																
	DC current monitoring		•	•	•	•							•	•			•	
	Phase failure				•	•		•		•	•	•						
	Phase sequence monitoring	•			•	•		•		•	•	•						
	Phase angle monitoring / measuring*	•			•	•		•		•		•						
	Differential voltage monitoring / measuring*	•								•		•						
	Neutral failure monitoring	•								•		•						
	Frequency monitoring / measuring*	•	•	•	•	•	•	•		•		•	•	•				
	Apparent power monitoring / measuring*	•	•	•	•	•												
	Active power monitoring / measuring*	•	•	•	•	•												
	Power factor monitoring / measuring*	•	•	•	•	•												
	Active energy measuring	•																
	THDI / THDU measuring	•																
	PTC monitoring														•			
	Earth failure monitoring															•		
Functions	Treshold exceeded "over" fig. 3.	•	•	•	•	•	•	•	•	•		•	•	•	•		•	•
	Theshold undershot "under" fig. 4.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	Window function "inside" fig. 2.	•	•	•	•	•	•	•					•	•			•	•
	Window function "outside" fig.1.	•	•	•	•	•	•	•					•	•			•	•
	Alarm on-delay	•	•	•	•	•	•	•	•	•		•	•	•		•	•	•
	Alarm off-delay	•	•	•	•	•	•	•	•				•	•				
	Error storage function	•	•	•	•	•	•	•					•	•	•			
	Threshold selectable	•	•	•	•	•	•	•	•	•			•	•	•	•	•	•
	Threshold fixed										•	•			•			
Power supply	Supply isolated from measuring circuit	•	•	•	•	•	•	•					•	•	•	•		
	Supply from measure circuit								•	•	•	•					•	•
Mounting	DIN rail mounting	•	•	•	•	•	•	•	•	•			٠	•		•		
	Housing according IEC/EN 43880 (electrical distribution mounting)	•	•	•	•	•	•	•	•					•	•			
	Plug-in (socket mounting)											•	•		•		•	•

\*Measuring: MRE-44S only

