SSU31

Phase sequence monitoring | 400 V AC







Nominal voltage 400 V AC
Operating voltage range 320 ... 480 V
Power consumption AC/DC 10 VA
Rated frequency 45 ... 65 Hz

Measuring circuit

Measured parameters L

Monitoring functions Under, phase failure, phase sequence

Number of voltage measurement inputs $\begin{array}{lll} 3 & (L1 \ / \ / \ / \ / \) \\ \text{Rated AC voltage L-N / L-L} & -/400 \ V \\ \text{AC voltage measurement range L-N / L-L} & 320 \dots 400 \ V \\ \text{Undervoltage setting range} & \leq 320 \ V \\ \text{Rated base frequency} & 45 \dots 65 \ \text{Hz} \\ \end{array}$

Main circuit

Number of contacts 1 CO **Contact Material** AqNi Rated voltage 250 V Rated current 6 A Minimum load 10 mA, 5 V Inrush current 15 A, 20 ms Rated load DC fig. 2 1500 VA Rated load AC-1 Mechanical endurance (cycles) 3×10^{7} Electrical endurance at rated load AC-1 (cycles) fig. 3

Insulation

Rated test voltage measuring / measuring circuit 2 kV rms / 1 min
Rated test voltage measuring circuit / main circuit 2 kV rms / 1 min
Rated test voltage open contact 1 kV rms / 1 min

Pollution degree 2
Overvoltage category III

General data

Ambient temperature storage -40 ... 85 °C

Ambient temperature operation -25 ... 60 °C

Module width fig. 4

Weight 300 g

Protection degree IP 20

Housing material PC

Product references

Types	Product reference	400
Three phase monitoring	SSU31/ACV	1

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

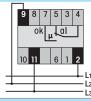
Other voltages on request. Please contact support@comatreleco.com.

Accessories

SocketS3-MRetaining clipHF-24Transparent front coverFS-23Front panel mounting setFZ-23



fig. 1. Wiring diagram



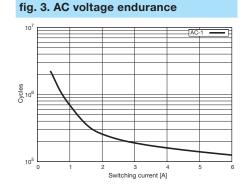
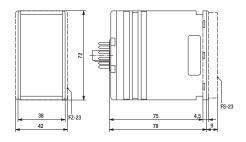


fig. 4. Dimensions (mm)



Standards and approvals

Standards IEC/EN 60947

Approvals CE EM CALUS



	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	•	•	•	•	•	•	•	•	•			•	•		•		
	Housing according IEC/EN 43880 (electrical distribution mounting)	•	•	•	•	•	•	•	•					•	•			
	Plug-in (socket mounting)		L									•	•		•		•	•

*Measuring: MRE-44S only

