



sifam tinsley
PRECISION INSTRUMENTATION

PROTECTION RELAY
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DATASHEET

Issue 1

**NEW
PRODUCT**



Multifunction Meters

Transducers & Isolators

Temperature Controllers

Converters & Recorders

Digital Panel Meters

Current Transformers

kWh Energy Meters

Analogue Panel Meters

Shunts

Digital Bargraphs

Digital Multimeters

Protection Relays

Synchroscope Series

Rotary Switches

Power Supplies

Test & Measurement



OMICRON SPPR - SINGLE PHASE PREVENTER RELAY

SUBJECT TO CHANGE WITHOUT NOTICE

This datasheet superseded all previous versions – please keep for future reference

Product Features:

- 3 Phase 3 Wire
- Phase Unbalance Protection
- Phase Failure Protection
- Phase Sequence Protection
- Self Powered : No need of external power supply
- Automatically resets after the fault condition is cleared
- LED indication for Healthy, Phase Unbalance, Phase Fail and Phase Sequence condition.

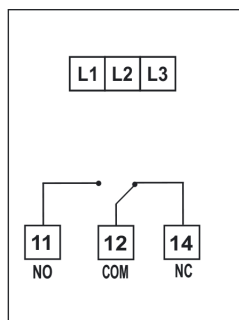
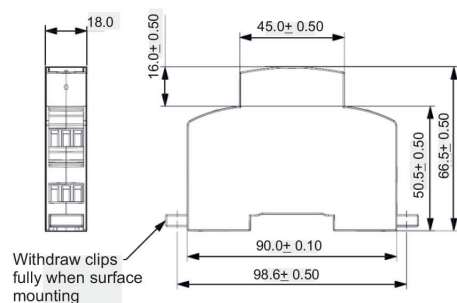
Omicron SPPR - Single Phase Preventer Relay



Application

- Motor protection
- Server rooms
- Control system
- Industrial equipments
- Conveyor systems

Dimensions Details



Note - Relay Contacts shown are in power off condition.

Wiring Guidelines:

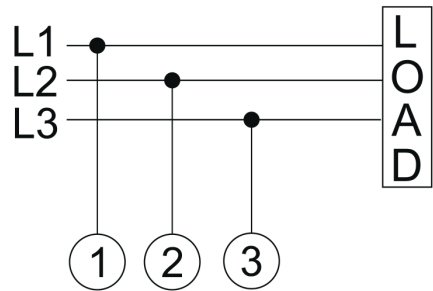
Input Wire Size	1 to 2.5 Sq.mm
Voltage Tightning Torque	0.4Nm

Technical Specifications

Input Voltage :	
Operating Voltage Range	150 - 550VAC (L-L)
Nominal Voltage	415VAC (L-L)
Nominal Frequency	50/60 Hz
Operating Frequency Range	45 - 65 Hz
VA rating	<12VA (Per phase)
Max continous input voltage	550VAC (L-L)
Short term overload withstand (1Sec)	2 x Nominal input voltage
Functional Parameters :	
Phase Fail	>100V (difference between two L-L voltages)
Phase Unbalance	>40V (difference between two L-L voltages)
Phase Sequence	Yes
Hysteresis	5V - 12V
Reset	Auto on removal of fault condition
Power ON Delay	<300 msec
Reset Delay	<300 msec
Trip Delay	<300 msec
Accuracy :	
Tripping Accuracy	+/- 10V
Relay Contacts :	
Type Of Relay	1 CO SPDT
Relay Contact Rating	NO : 6A@250VAC/30VDC NC : 6A@250VAC/30VDC
Environmental Parameters :	
Operating Temperature	-20 to +70°C
Storage Temperature	-40 to +85°C
Relative Humidity	Upto 95% RH
Degree of protection	IP20 - Terminals
LED Indication :	

Conditions	RELAY	L1	L2	L3
Healthy	ON	OFF	OFF	OFF
R Phase Loss	OFF	ON	OFF	OFF
Y Phase Loss	OFF	OFF	ON	OFF
B Phase Loss	OFF	OFF	OFF	ON
R Phase Unbalance	OFF	BLINK	OFF	OFF
Y Phase Unbalance	OFF	OFF	BLINK	OFF
B Phase Unbalance	OFF	OFF	OFF	BLINK
Incorrect Sequence	OFF	BLINK	BLINK	BLINK

Connector Details



Technical Specifications

Applicable Standards	
Product Stadard	IEC 60255-1
Conducted RF	IEC 61000-4-6
Radiated Emission	CISPR 11
Electrical fast transient	IEC 61000-4-4
Electrostatic Discharge	IEC 61000-4-2
Surge Immunity	IEC 61000-4-5
Voltage DIP/Short interruption	IEC 61000-4-11
Rated Power Frequency	IEC 61000-4-8
HV Test	2.2kV AC, 50Hz for 1 minute betweenen
Auxiliary Supply	
Type	Self powered
Reference Conditions for Accuracy :	
Reference Temperature	23°C ± 2°C
Input Voltage	Un ± 1%
Input Waveform	Sinusoidal (Distortion Factor <2%)
Input Frequency	50 Hz ± 1%
Mechanical Attributes :	
Dimensions	18 x 98.6 x 66.5mm

Ordering Information

SP10	S	4	A	3	1	1	00000ST
	SPPR						
		3 PHASE 3 WIRE					
			150 TO 550V (L-L)				
				50/60Hz			
					Normally energized		
						1 Relay (1 CO SPDT)	

Order Code Example: SP10-S4A31100000ST

S: SPPR

4: 3 Phase 3 Wire

A: 150 to 550V (L-L)

3: 50/60 Hz

1: Relay configuration - Normally energized

1: 1 Relay (1CO SPDT)

Contact



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