



Data Sheet

RISH SPPR

Single Phase Preventer Relay



Measure



Control



Record



Analyze



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Applications

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

Product Features

System Type

3 Phase 3 Wire

Protection feature :

Phase Unbalance Protection

Phase Failure Protection

Phase Sequence Protection

Self Powered :

No need of external power supply

Auto Reset :

Automatically resets after the fault condition is cleared.

LED Indication :

LED indication for Healthy, Phase Unbalance, Phase Fail and Phase Sequence condition



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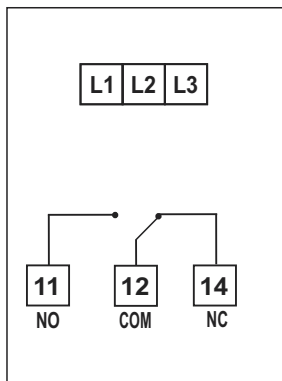
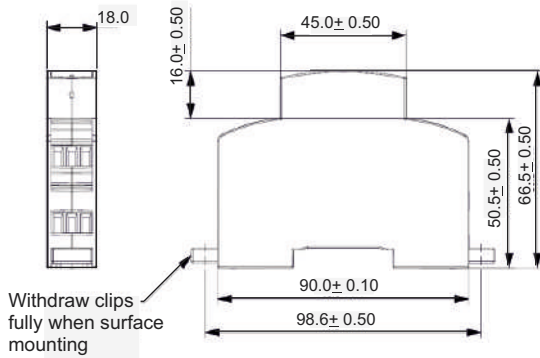


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Dimensions Details:



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
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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



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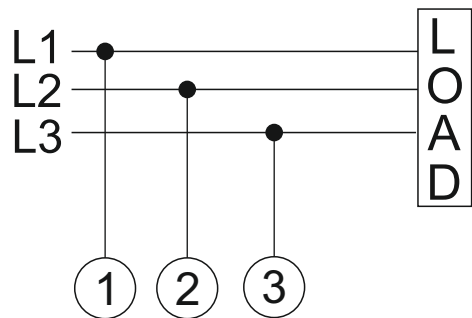


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Connector Details:



Technical Specifications:

Applicable Standards	
Product Stadar	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 between all electrical circuits
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 66.5



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Ordering Information

SP10	S	4	A	3	1	1	0000000
	SPPR						
		3 PHASE 3 WIRE					
			150 TO 550V (L-L)				
				50/60Hz			
					Normally energized		
						1 Relay (1 CO SPDT)	

Order code example: SP10-S4A3110000000
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)



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Specifications may change without prior notice



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