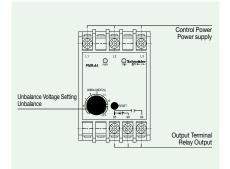
### Electronic reverse phase/phase loss relay



- Phase Monitoring Relay with built-in MCU
- Reverse phase/Phase loss/Voltage unbalance protection
- Voltage unbalance factor: 2 15%
- Trip cause check function: 2-LED
- Strong environmental resistance
- Fail-safe Operation



#### **Protection Function**

List	Operation Time		
Reverse phase	0.1 seconds		
Phase loss	1 second		
Voltage unbalance	5 seconds [(Three phase arithmetical average voltage - Minimum line voltage) ÷ Three phase arithmetical average voltage] × 100% 2 - 15%		
Fail-safe	No relay will be energized if the input power is abnormal.		

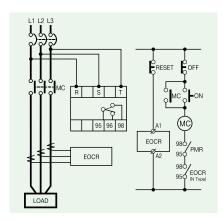
## **Specifications**

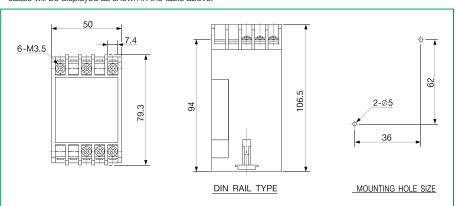
	Type	Setting range		
Input Voltage	22	3 Φ 160 - 300V, 50/60Hz		
-	44	3 Ф 340 - 480V, 50/60Hz		
		Manual (Instant)/Electrical (distant) reset		
Reset		* If it is tripped due to abnormal input power, it will auto-reset 5 seconds		
		after the input power returns to normal		
Auxiliary	Format	1 - SPDT (1C)		
•	Rating	AC250V/5A Resistive load		
Contact	Status	Normally energized (If input power is normal, 95 - 96 open and 95 - 98 close.)		
Installation		35mm DIN-rail/Rail		
		·		

# **Trip Cause Check**

Condition		LED Signal (Pulse Chart)				
		Green LED		Red LED		
Normal operation		On		Off		
Unbalance		On		On		
Trin	Unbalance		Off		On	
	Phase Loss	R	Off		Blinks once	
		S	Off		Blinks 2 times	
		Т	Off		Blinks 3 times,	
Reverse phase trip					Alternate blinking	

\*\* If the cause of a trip occurs during the first time the power is supplied, the relay will not be energized and the cause will be displayed as shown in the table above.





# **PMR**

### **How to Order**

Reference		Input Voltage [V]	Frequency [Hz]	Remark
PMR	-220N7	AC220V	50/60	Panel/DIN Rail
	-440N7	AC440V	50/60	Panel/DIN Rail

# **Ordering Example**

## To order a PMR:

