



Phase Failure relays are used for the safety of the equipments in the motor control panels and switchboards.

Important to fix reliable phase failure relays in electrical installations to avoid the damages occur due to phase loss.

BOARDMAN - UK  **BOARDMAN**
TRANSFORMERS

Ordering Information

Order No	Model No	Product
251 340	BPA03	Phase Failure relay

Technical Details

- Electronic monitoring of L1,L2, L3 for phase failure and sequence .
- The supply range is from 208 to 480VAC.
- 35mm casing for 2 C/O and 25mm casing for 1 C/O..

BPA03

Standard	EN60255-25:2000 EN61000-4-2:2000 EN61000-4-4:2000	
Supply	Self Power	
Input	208 - 480VAC L-L	
Start time	<1Sec	
Delay time	<1Sec	
Reset time	<1Sec	
Output	1 C/O Relay, 2C/O relay	
Operation Temperature	-20°C to +50°C	
Humidity	<95%	

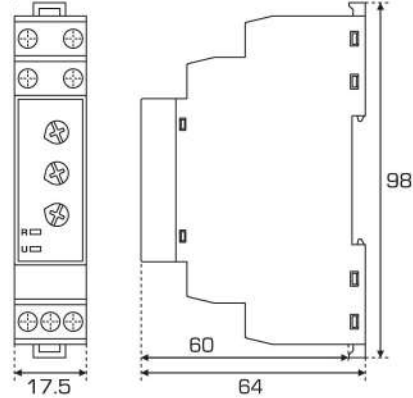
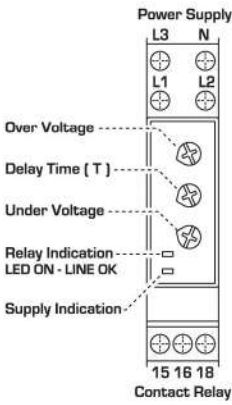
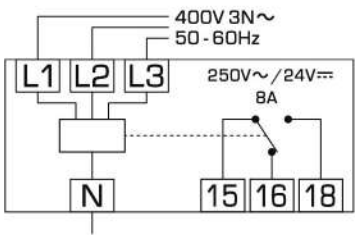
Ordering Information

Order No	Model No	Product
251 210	MVTGBD1N	Phase Failure relay

Technical Details

- Measures Phase to phase voltage.
- Under and Over voltage trip level setting.
- Under and Over voltage time delay setting.
- Phase sequence and loss control (Only S or N version)
- Neutral Loss (Only N version)
- Output Relay 1 Pole changeover contact.
- Compact Size - 1 Module - 17.5mm
- Din rail mounting EN50.022
- Self-Extinguished material UL94 V0

MVTGBD1N

DIMENSIONS (mm) 	
DESCRIPTION 	WIRING DIAGRAM 

MVTGBD1N

INPUT	UNIT	16
Supply voltage AC $\pm 10\%$	V~	400 3~
Nominal Frequency	Hz	50 - 60 (range : 47 - 63)
Trip Levels	Under Over	75 - 96 % of U 105 - 125 % of U
Power consumption (max. AC)	VA	16
Supply indication (U)	-	Green LED
OUTPUT RELAY		400
Rating	-	8A - 250V~/24V=
Max switching power	VA	2000
Max switching voltage	V~	400
Min switching load	-	10mA 12V=
Contact life	Mech. Electr.	30 x 10 ³ ops 100 x 10 ³ ops
Changeover contacts	-	AgNiO.15
Output Indication (R)	-	Red LED
GENERAL		
Hysteresis (factory set)	%	+ / -2 of trip level
Response Time	ms	100
Time Range (T)	s	0.2 - 10
Delay from Failure (Tr)	ms	100
Power on delay (Td)	ms	100
Working temperature	°C	-20 / +50
Storage temperature	°C	-30 / +70
Electrical Insulation	kV	4
Overvoltage Category	-	I
Protection degree	IP	20
Pollution degree	-	2
Climate category according to (without condensation)	-	IEC 60068-1 (20/050/60) DIN 40040 (class D)
Altitude up to	m	2000
Weight	g	65
Dimensions	mm	98 x 17.5 x 64

Ordering Information

Order No	Model No	Product
225 411	JVM-2	Phase Failure relay
225 4113	JVM-4	Phase Failure relay

Technical Details

JVM-2



JVM-4



JVM - 2

Surface mounting	Socket base 8PFA
Output Capacity	SPDT
Response time of delay	Delay on : 0.5 Sec Delay off : 3 Sec
Frequency	50 or 60Hz
Rated Voltage	3Φ: 220, 380, 415, 440V 1Φ : 110, 220, 380, 415, 440V
Electrical Life	5 × 10 ⁵ Times

JVM - 4

Surface mounting	Socket base P2CF11
Output Capacity	SPDT
Response time of delay	Delay on : 0.5 Sec Delay off : 3 Sec
Frequency	50 or 60Hz
Rated Voltage	3Φ: 220, 380, 415, 440V 1Φ : 110, 220, 380, 415, 440V
Electrical Life	5 × 10 ⁵ Times