

PHASE FAILURE & SEQUENCE RELAYS



**TYPES: MOD-P-1 (3 wire spco) & MOD-PN-1 (4 wire spco)
MOD-P-2 (3 wire dpco) & MOD-PN-2 (4 wire dpco)**

FEATURES

- Din rail mounted
- Modern modular design
- Width 27mm (1.5 modules)
- SPCO & DPCO versions
- Available 3 wire or 4 wire
- Self powered
- Transformer technology
- Dual LED indication
- CE marked

DESCRIPTION & MODE OF OPERATION

An attractive modern designed range of combined phase failure and sequence relays in a din rail mounted modular style housing of 1.5 modules width (27mm). **Utilising transformer technology** the units are available in either 3 wire or 4 wire versions, the 4 wire version also trips on loss of the Neutral. Both types are available with either a SPCO or DPCO output. On power up with all three phases present (plus the Neutral if applicable) and in the correct sequence the output relay/s will energise, the green and red LED's also illuminate. On loss of a phase, (or Neutral 4 wire versions), drop in voltage below Umin levels, or incorrect phase sequencing the output relay/s after a fixed time delay of 0.5 secs will drop out and the red LED will be extinguished. A green supply on LED only illuminated means that there is a supply to the unit but there is a supply fault of phase loss, under volts, or sequence. All terminal details and information along with the CE mark is clearly marked on the sides of the housing.

SPECIFICATIONS

Supply & Measuring

Nominal supply:	400V - 415V L-L (3wire)
	230V - 240V L-N (4 wire)
Nominal Umin (fixed):	80% on all 3 phases
	60% on 1 phase drop
Delay on tripping:	0.5sec fixed
Max power consumption:	<3VA
Insulation:	2.5KV 50Hz impulse

Relay outputs:

Output contacts:	SPCO 16Amps/250V AC1
	DPCO 8Amps/250V AC1
Max breaking capacity:	SPCO 4000VA
	DPCO 2000VA
Mechanical life:	30 Million ops
Electrical life:	200K ops at max rated load

General:

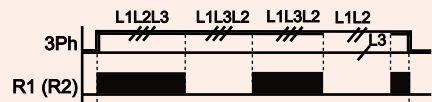
Operating temperature:	-20°C to +65°C
Storage temperature:	-20°C to +65°C
Max cable size:	2.5mm
CE marked:	Yes
In accordance with:	EN61000-6-1: 2007
	EN61000-6-3: 2007
	EN61010-1: 2002
Housing material:	Polycarbonate, Auto extinguishable to UL 94 V-0

ORDERING INFORMATION

TYPE	COIL VOLTAGE	SYSTEM
MOD-P-1 (Din Rail, SPCO)	3x 400V-415V	3 Wire
MOD-PN-1 (Din Rail, SPCO)	3x 400V-415V	4 Wire
MOD-P-2 (Din Rail, DPCO)	3x 400V-415V	3 Wire
MOD-PN-2 (Din Rail, DPCO)	3x 400V-415V	4 Wire



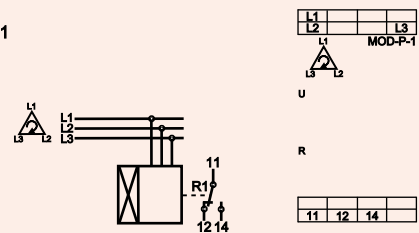
FUNCTION



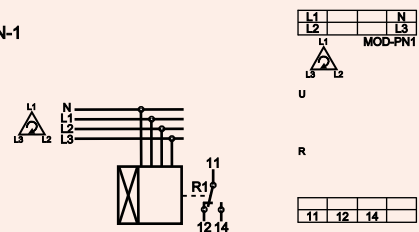
4 WIRE VERSIONS ALSO TRIP ON LOSS OF NEUTRAL

CONNECTIONS

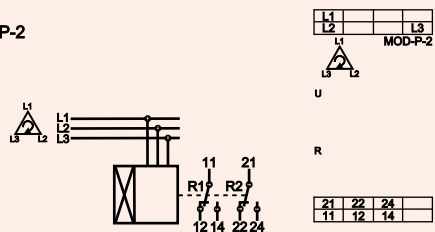
TYPE MOD-P-1



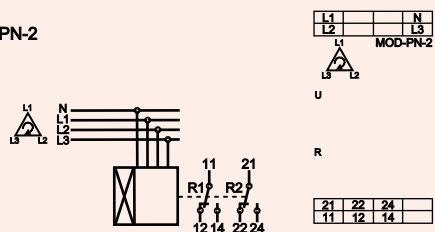
TYPE MOD-PN-1



TYPE MOD-P-2



TYPE MOD-PN-2



On request the units can be supplied without sequence monitoring by inserting (-S) after the part number ie, MOD-P-2(-S)