

Zelio Control - measurement and control relays

Phase control relays, self-powered, model RM 84 873

- Optimised installation and space savings (22.5 mm).
- Control: the phase control relay can simply be installed and used to monitor phase failure or phase reversal, without any adjustment.
- Safety: the level of safety of the installation can be selected by using versions with 1 or 2 C/O output contacts.
- Self-powered : simple to install; uses the controlled mains supply for its own power supply.

Operating principle

These relays monitor the correct sequencing of phases L1, L2 and L3, as well as the total loss of one of these phases.

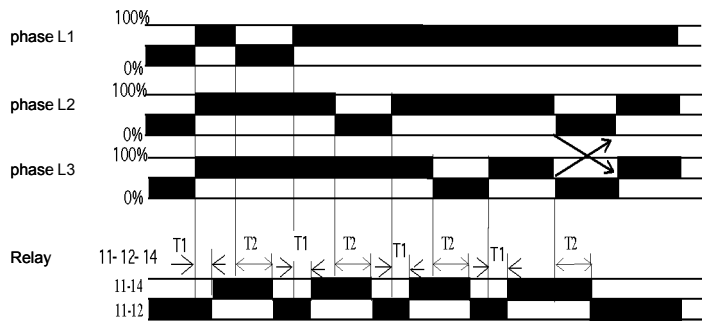
When the phase sequence is correct, the output relay is energised; this is indicated by a yellow LED.

The relay de-energises (LED off) if one of the following faults occurs:

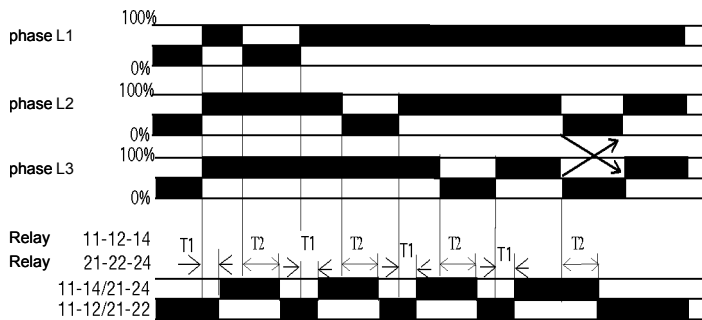
- incorrect sequence of phases at terminals L1, L2 and L3,
- total loss of one phase or of all three phases (phase failure detection threshold < ~ 50 V).

Timing diagrams

RM 84 873 299



RM 84 873 004



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References



RM 84 873 004

Phase control relays

Outputs	Reference	Weight kg
1 C/O	RM 84 873 299	0.100
2 C/O	RM 84 873 004	0.100

Input characteristics

Supply voltage	V	3 x ~ 230...400 self-powered
Operating range	V	200...500
Frequency		50/60 Hz +/- 1 Hz
Maximum consumption	VA	25

Output characteristics

Output relay		Cadmium-free
Rated current	A	8
Maximum switching voltage	V	~ 250 / ~ 440
Rated breaking capacity	VA	2000
Minimum breaking current	mA	10/ 5 V
Electrical life		AC-12 : 10 ⁵ operating cycles at 8 A / ~ 250 V
Mechanical life		2 x 10 ⁷ operating cycles
Pick-up delay	t1	ms < 200
Drop-out delay	t2	ms < 300 in the event of loss of one phase

Other characteristics

Creepage distance and clearance	Conforming to IEC 60664-1	kV	4kV/3
Clamping capacity	Without cable end	mm ²	2 x 2.5
	With cable end	mm ²	1 x 4 or 2 x 1.5
Tightening torque		Nm	1 (M3 screw/IEC 947-1)
Temperature limits	Operation	°C	- 20...+ 50
	Storage	°C	- 30...+ 70
Enclosure material			Self-extinguishing PC
Protection class	Terminal block		IP 20
	Enclosure		IP 40
Dielectric strength	Conforming to IEC 255-5		2.5 kV/1 min/1 mA/50 Hz
Product certifications			c UL us, CSA

Dimensions

