C-mac®

3-phase phase sequence / phase breaking module

Monitors correct phase sequence

Secures against phase breaking

1- or 2-pole relay output

AC supply voltages up to 3 x 415 VAC

Made in accordance with the CE and EMC regulations

The C-mac® module type RP32 meters its own 3-phase supply voltage, and checks that all 3 phases are present and the phase sequence is correct, and in that case the output relay is activated.

The module is suitable for the monitoring of motors, as it ensures correct rotation, and in case of a missin phase the relay releases, provided that the possible regenerated voltage from the motor is below the fixed minimum limits..

The module can be used both with and without neutral, but with neutral the unit is most sensitive.

Technical data:

Supply voltage:	3 x 230 V +/- 15%
	3 x 400 V +/- 15%
	3 x 415 V +/- 15%
Supply frequency:	50-60 Hz
Power consumption:	2,5 VA
Operation temp.:	-20°C to +60°C
Humidity:	0 - 90% RH, non-condensing
Hysteresis:	2% of the nominal supply.
Reaction delay:	approx. 0,2 sec.
Indications:	
Green LED:	Supply voltage connected
Red LED:	Relay aktive
Max. load, relay:	1-pole: 8 A - 250 VAC
	2-pole: 5 A - 250 VAC (RP32.1), ohmic load

EMC and safety regulations.

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Emmision:	EN 50 081 - 1
Immunity:	EN 50 082 - 2
Safety:	EN 60 730

Approvals: The units are produced in accordance with the CE og low voltage regulations.
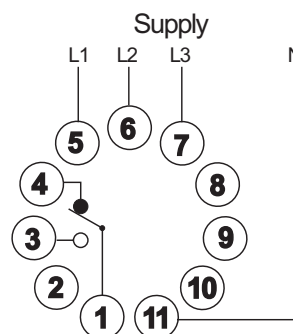
Sensitivity:
If the unit is connected to 3 phases with neutral, the relay will release, if one or more of the phase-neutral voltages is lower than 75-85% of the nominal voltage.
If the unit is connected to 3 phases without neutral, the relay will release, if one or more of the phase-phase voltages is lower than 60-70% of the nominal voltage
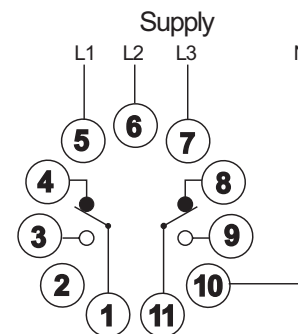
Connections RP32:
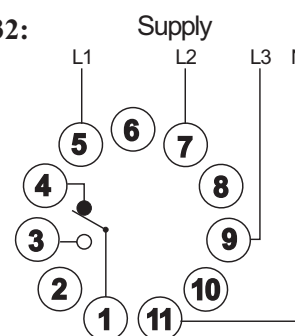
Connections RP32.1, 1-pole: 2-pole:

Ordering guide RP32:

Supply	Type no.
3 x 230 V (phase-phase)	RP32-1-3-230
3 x 400 V (phase-phase)	RP32-1-3-400
3 x 415 V (phase-phase)	RP32-1-3-415

Ordering guide RP32.1:

Supply	Type no.
3 x 230 V (phase-phase)	RP32.1-x-3-230
3 x 400 V (phase-phase)	RP32.1-x-3-400
3 x 415 V (phase-phase)	RP32.1-x-3-415

x = output relay:
        1 = 1-pole
        2 = 2-pole

Materials and weight: see previous page.

Comadan Produktion a/s