

3-phase Voltage monitoring of phase asymmetry

Monitors correct phase sequence

Adjustable asymmetry level 5-25 %

1 – pole relay



C-mac®RP31 measures its own 3-phase supply voltage, and if the phase sequence is correct and the phase asymmetry is below the adjusted level, the output relay is activated.

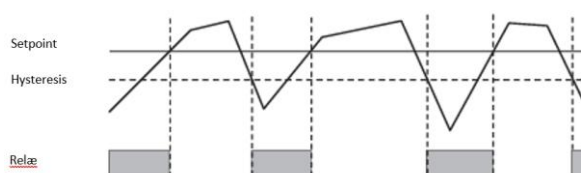
The module is suitable for monitoring of motors, since it ensures correct rotation direction and releases in case of a missing phase, also if the motor continues its rotation, provided that the resulting asymmetry is higher than the adjusted limit.

To ensure the best possible monitoring, the module must be connected as close to the motor as possible, in this way, the contactor function is also monitored

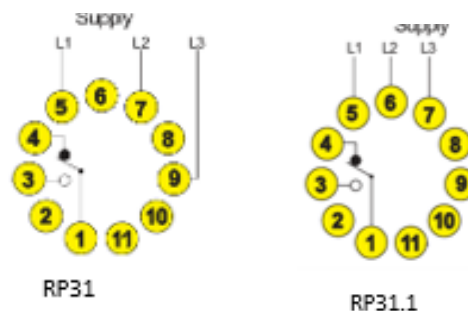
Technical data:

Supply voltage:	3 x 220 V +/- 25 % 3 x 380 V +/- 25 % 3 x 415 V +/- 25 %	
Supply frequency:	50 eller 60 Hz	
Power consumption:	2,5 VA	
Operation temp.:	-20°C til +60°C	
Humidity:	0 - 90% RH, non-condensing	
Adjustments:	Potentiometer, skala 5 til 25 %	
Indications:	Grøn LED:	Supply voltage connected
	Rød LED	Relay aktive
Hysteresis	1 – 3,5 %	
Reaction delay:	Typ. 1 sec	
Max. load, relay	1-polet 8A- 250 VAC	
	Ohmic load	

Functional diagram:



Connections:



Note:

The unit is also available with supply connections to pins 5-6-7 instead of pins 5-7-9. In this case, the number is RP31.1

Bestillingsvejledning:

Type	Relay	Supply	Frequency
RP31	1 = 1 pole	3-220 = 220 VAC	50 = 50 Hz 60 = 60 Hz
		3-380 = 380 VAC	
		3-415 = 415 VAC	
Example:	RP31-1-3-220-50		

EMC and safety regulations

Emmision:	EN50081-1
Immunity:	EN50082-2
Safety:	EN60730



Materials and weight:

Housing:	NORYL-SE-1, grey, self extinguishing
Housing bottom:	NORYL SE-1, GFN-2, black self extinguishing
Terminals:	Nickel-plated brass
Weight:	110 g