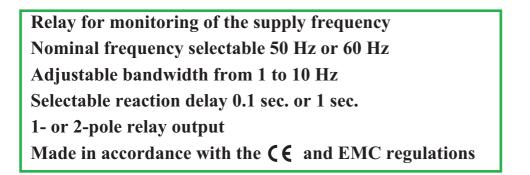


Frequency relay RF20





C-mac[®] frequency relay type RF20 is used for monitoring of the supply frequency, f.inst. in connection with generator controls.

By means of connections on the relay base you can select between nominal frequency of 50 or 60 Hz and reaction delay 0.1 sec. or 1 sec.

On the built-in potentiometer, the bandwidth is adjustable between +/- 0.5 Hz and +/- 5 Hz.

If the supply frequency is within the adjusted bandwidth, the relay is activated, and if the frequency is outside the limits, the output relay releases after the selected reaction delay.

Common technical data:

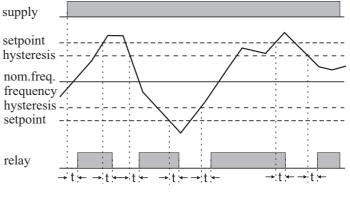
24, 115 and 230 VAC +/- 10% 40-70 Hz Supply - input - output: 3.75 kV 2,5 VA
-20°C to +60°C
0 - 90% RH, non-condensing
Potentiometer, scale 1 to 10 Hz (+/-0.5 Hz til +/-5 Hz)
Supply voltage connected Relay active
5 % +/- 0.02 Hz +/- 0.04 Hz
10% of the adjusted bandwidth.
pin 6-7 open: 50 Hz, closed: 60 Hz
pin 5-7 open: 1 sec., closed: 0.1 sec. 1-pole: 8 A - 250 VAC 2-pole: 5 A - 250 VAC, ohmic load

EMC and safety regulations.

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.

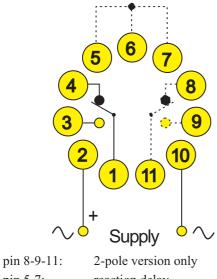
Functional diagram:



t = reaction delay (0, 1 or 1 sek.)



Connections:

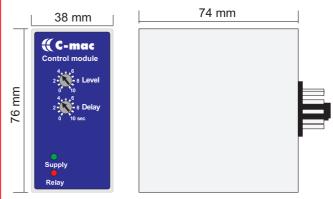


pmo y m	- poie version only
pin 5-7:	reaction delay
pin 6-7:	nominal frequency

Ordering guide:

Supply	Type number.
24 VAC	RF20-x-1-024
120 VAC	RF20-x-1-115
230 VAC	RF20-x-1-230
x = relay outp	ut: $1 = 1$ -pole
	2 = 2-pole

Mechanical dimensions:



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:	200 g

