

## LOAD GUARD RP81

RP81-1-3-400

BELASTNINGSRELÄ COSFI 3X400V

- Load guard for 3-phase motors
- Power factor metering
- Adjustable time delay 0-20 sek. at motor start
- Selectable release of relay at max. or min. load
- 1-pole relay output 8A / 250 VAC



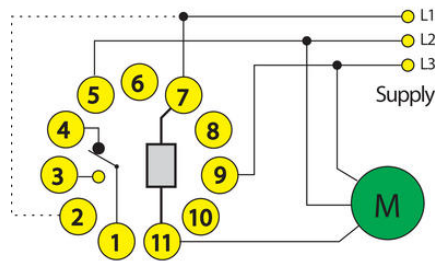
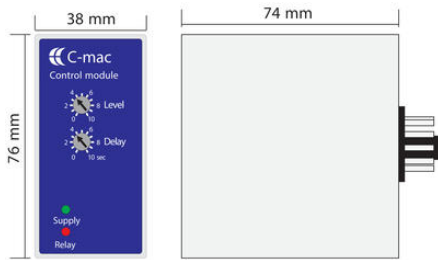
### PRODUCT DESCRIPTION

C-mac® module type RP81 is used for load monitoring of 3-phase motors, as the phase angle (cos ) between motor current and -voltage changes in proportion to the mechanical load of the motor. You will see the biggest change in phase angle, if the motor is loaded between 0 and 60% of nominal load, which makes the RP81 suitable for monitoring of V-belts, pumps running dry, etc.

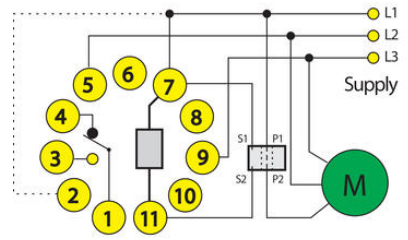
RP81 can be connected directly to motors with nominal current up to 6 A. If the current is bigger, you use a standard current transformer .

### SPECIFICATIONS

<b>Approvals</b>	CE
<b>Depth</b>	74 mm
<b>Frequenze</b>	40-70Hz
<b>Height</b>	76 mm
<b>Materials Cover</b>	Noryl
<b>Measuring Range</b>	0,5-6A
<b>Power supply V AC</b>	400 V AC
<b>Temperature range from</b>	-20 °C
<b>Temperature range to</b>	60 °C
<b>Time Delay Start</b>	0-20 s
<b>Weight</b>	110 g
<b>Width</b>	38 mm



Example 1: without current transformer.  
(motor current smaller than 6 A)



Example 2: With current transformer.  
(motor current bigger than 6 A)  
Note: the current transformer must be connected as shown (P1 / P2 and S1 / S2)

## Phase angle ( $\cos \varphi$ )

