OVERSPEED SPEED SWITCH, GHM9 SERIES





CHARACTERISTICS

Switching speed	800 4 000 rpm
Principle	centrifugal
Mechanical life-time	500 000 cycles
Contact type	opened or closed

Max current	6 A / 240 Vac
Contact material	silver-cadmium
Maximum breaking sequence	4/min
Breaking accuracy	min-1 - 5% +8%

The commutation speed $n_{\mbox{\tiny S}}$ is definitely calibrated in our factory.

Right or left rotation direction.

The switching speed n_s is defined for an acceleration = 100 s^{-2} (other, consult us).

Nota: 1 rad.s⁻² \leftrightarrow 9,55 rpm.s⁻¹

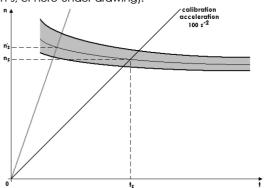
The hysteresys is about -3% in counter clockwise direction compared with clockwise direction.

It is advised to choose the switching speed n_s in order that $n_s>1,15.n_n$ (n_n : working speed, nominal speed).

The centrifugal relay must be used only in the case of an increasing speed.

In decreasing speed, the centrifugal switch will open automatically at a slower speed of approximately 40% of the calibrated switching speed n_s .

In the case of a higher acceleration than $100 \, s^{-2}$, the switching speed will be higher (n's, cf here-under drawing).

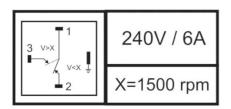


Shocks / impacts can create premature switching or transient opening. This is particularly the case when the switch's direction of action and the shock are the same. Rotating the mounting position (60° division on flange) reduces the problem.

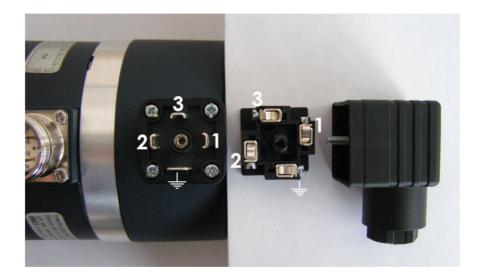
STANDARD CONNECTION

With 4 pinout solenoid valve connector.

Contact 1 to 3 can be connected according to the desired configuration (rest, work or opposite).



The earth pin of the connector must be connected to the ground of the installation.



AVAILABLE COMBINATION (Consult us for special version: ex: flange / connection / specific speed...)

Available combination:

- incremental encoder + overspeed switch,
- tacho-encoder + overspeed switch,
- absolute encoder + overspeed switch,
- incremental encoder + opto-tacho + overspeed switch,
- overspeed switch + overspeed switch ...

Standard speeds (rpm): 1 000, 1 200, 1 500, 1 800, 3 000 (consult us for other speed).

Reference: consult us.

Note: The switch commutation speed is calibrated in our factory, no correction and no later modification is possible.

Made in France