

Centrifugal switch FW 100/2

12.04

DUNGS®
Combustion Controls



Technical description

The centrifugal switch FW 100/2 has a hub fastening similar to EN 225-1. This hub is matched to the standard dimensions of oil pump holders and thus ensures a problem-free installation.

The spindle runs in double ball bearings and is "D" shared for easy connection to drive mechanism. The FW 100/2 centrifugal switch has already been set at the factory to monitor gas burner blower motors. It functions safely in clockwise and anticlockwise directions.

Application

The FW 100/2 centrifugal switch is designed to protect against the lack of air supply to forced-air burners and other blower motors.

Functional description

Due to centrifugal force, the centrifugal masses move to the outside as speed increases and activate a switching element using the reversing lever.

Approvals

EC type test approval as per EC Gas Appliance Directive:

FW 100/2

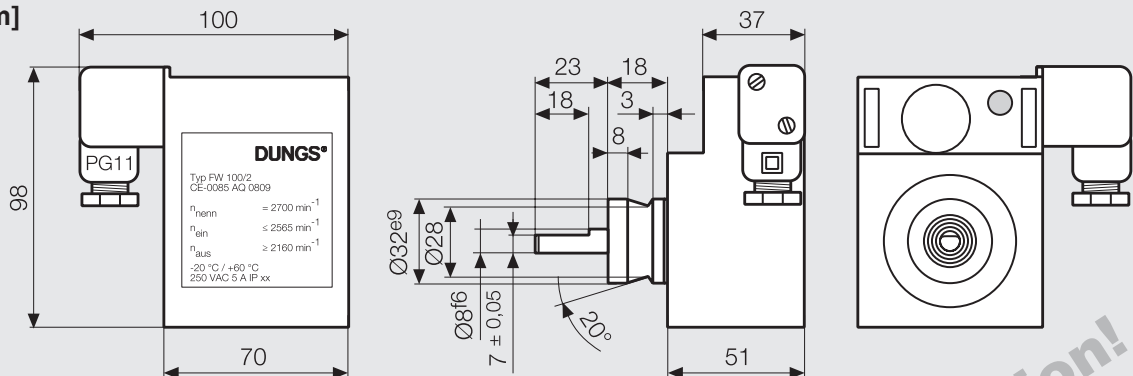
CE-0085 AQ 0809

Approvals in other important gas consuming countries.

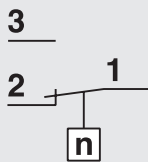
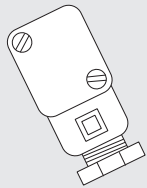
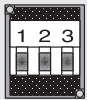
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Dimensions [mm]



Electrical connection



Note:

The shafts of FW 100/2 and of drive must be aligned. No torque deviations must occur due to the clutch.

Using the FW 100/2 must be performed in accordance with DIN 4788 Part 2 or DIN 4787 Part 1. Do not open the centrifugal switch. It is only permitted to exchange the whole unit.

The electrical equipment of the automatic burner control must be made in accordance with DIN 57 116/VDE 0116 or DIN 57 722/VDE 0722.

Failure to observe these instructions may result in personal injury or consequential damage. Therefore, these instructions must be observed under all circumstances.

Specifications

Speeds	Switch-on speed (as speed increases) $n \leq 2565 \text{ rpm}^{-1}$ Switch-off speed (as speed drops), $n \geq 2160 \text{ rpm}^{-1}$ Functions safely in clockwise and anticlockwise directions. Special speeds on request, possible range: 800 - 4000 rpm^{-1}
Voltage	~(AC) 250 V
Switching current	max. 5 A for $\cos \varphi 1.0$ max. 3 A for $\cos \varphi 0.6$
Electrical connection	Cable connection at screw terminals via PG* 11 for 7 mm dia. to 12.5 mm dia. cables (* = heavy-gauge conduit thread)
Power consumption	approx. 5 W
Degree of protection	IP 44, IP 54 as per IEC 529 (DIN 40 050)
Ambient temperature	-20 °C to +60 °C
Installation position	drive shaft horizontal

Order details

Centrifugal switch	Order No.
FW 100/2 IP 44	210 312
FW 100/2 IP 54	211 523

We reserve the right to make any changes in the interest of technical progress.



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