

# Danfoss Thermostat Type 077B/077Z

Extended feature: Enclosed Brake Device, EBD thermostats

## Introduction

Danfoss Appliance Controls can now supply thermostats suitable for use in household appliances charged with hydrocarbon gases such as R600a (Isobutane) or R290 (Propane).

## Background

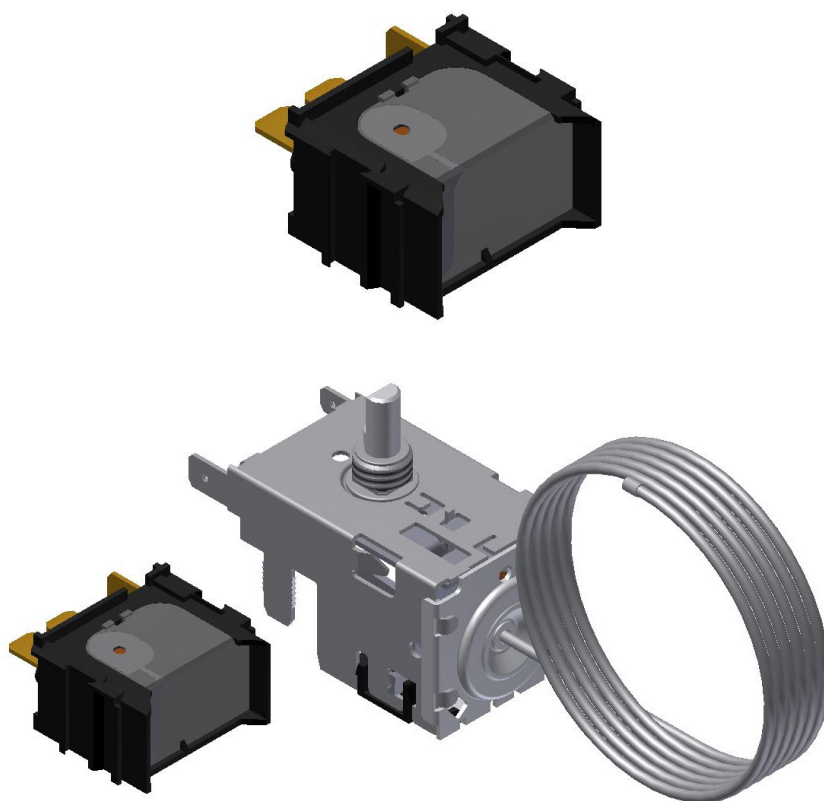
In applications charged with an explosive gas, there exists the risk that human injuries may occur should the gas leak into the cooling compartment and under specific conditions may be ignited by contact sparks.

From time to time we receive inquiries from customers demanding explosion-protected contacts in the 077B/077Z thermostats and consequently Danfoss Appliance Controls have in cooperation with some of our customers developed an EBD shield to encapsulate the contact sparks in most of our thermostat types.

## Approval

The thermostats comply with the standard EN/IEC 60335-2-24: 2010 Annex CC which among others has the following important demand.

In appliances charged with hydrocarbon gases as R290 or R600a, the thermostat has to comply with IEC/EN 60079-15:2010 paragraph 22.4.



The Danfoss 077B/077Z EBD thermostat has been tested and released by the institute IBExU.

Further the Danfoss 077B EBD thermostat is UL and ENEC approved by BEAB, while the Danfoss 077Z EBD thermostat is UL approved.

**Danfoss Appliance Controls recommends that you contact us in order to evaluate your technical demand and our possible solution.**