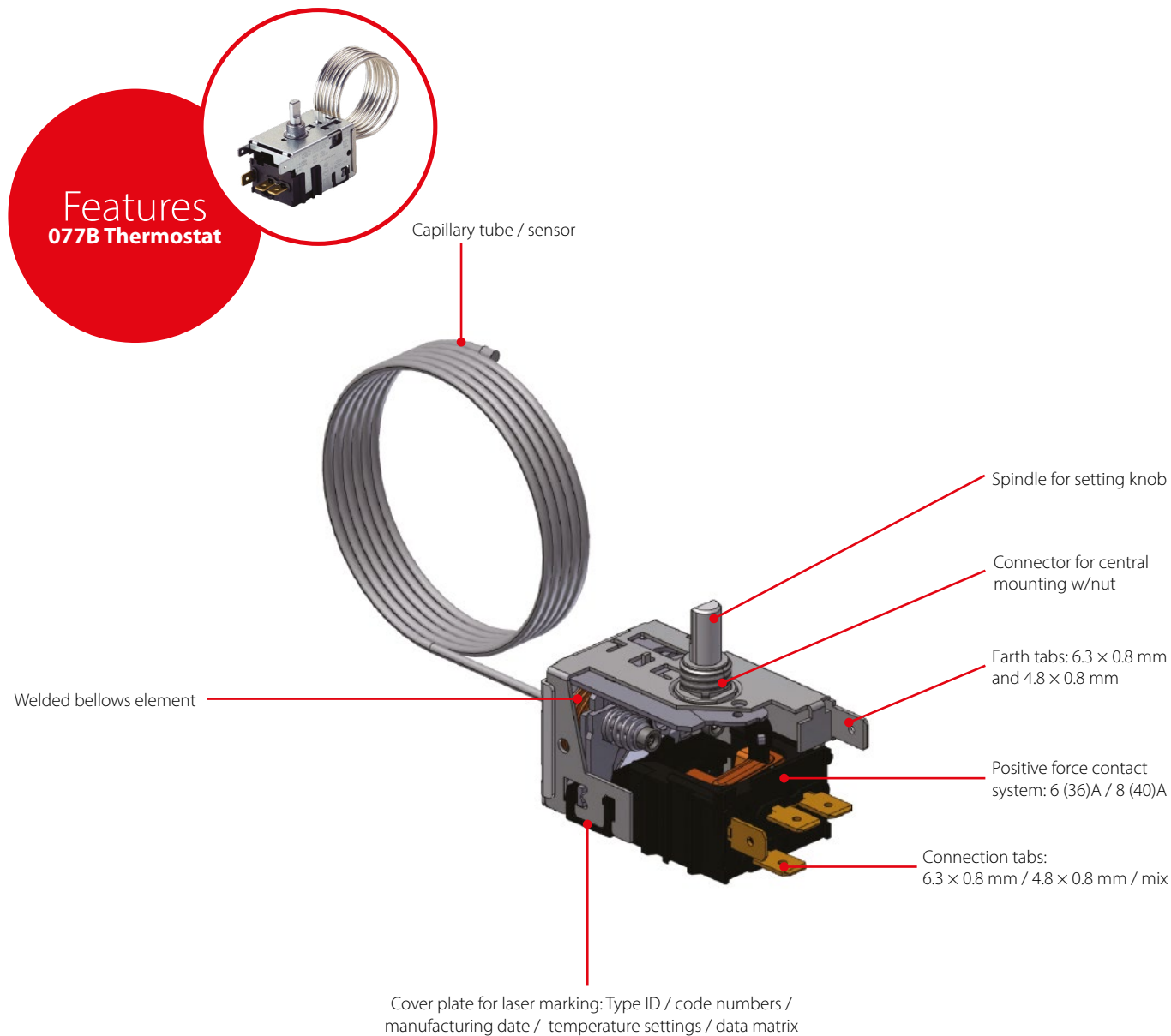


## 077B, Thermostat

077B thermostats have NC (Normally Closed) main contacts; i.e. they cut out the compressor current circuit on decreasing temperature. 077B thermostats are designed to operate at least 300,000 cycles at full load (6/36A and 8/40A respectively); internal quality audits

reinforced product performance by metering over 1,000,000 cycles. 077B thermostats are designed for temperature control in refrigerators and freezers and can be used as an evaporator or a room thermostat.



### Facts

#### Application:

- Refrigerators
- Upright and chest freezers
- Liquid and bottle coolers
- Small commercial refrigeration

- World class quality with high CpK values that ensures a long and trouble-free lifetime
- Available with Enclosed Brake Device (EBD) for use in household appliances charged with hydrocarbon gases such as R600a or R290
- Available with a wide range of standard functions, various extra functions and accessories
- Available with 6.3 x 0.8 mm, 4.8 x 0.8 mm terminals or a combination
- Approved by recognized authorities for

specific applications and geographical markets

- Danfoss Appliance Controls are certified by Bureau Veritas in ISO14001, ISO9001 and OHSAS18001

# Technical data and ordering

## 077B thermostats

### Ordering

077B thermostat type	Application	Function	Temperature °C at 760 mm Hg					Signal	Defrost	Capillary tube length	Code no.
			Thermostat position								
			Warm Cut-in / cut-out	Middle Cut-in / cut-out	Cold Cut-in / cut-out						
077B0	Refrigerators	Without extra functionality	3.5 / -3 *)	0 / -7	-5.4 / -12	-	-	1.0	077B0020		
	Refrigerators	Without extra functionality	-2 / -11 *)	-5.5 / -15	-10 / -20.5	-	-	1.0	077B0021		
	Refrigerators	Without extra functionality	2.5 / -5 *)	-	-13.5 / -24.5	-	-	1.2	077B0033		
	Refrigerators	Without extra functionality	2 / -5.5	-	-13.5 / -25 *)	-	-	1.3	077B7001 <sup>1)</sup>		
	Ice-cream cabinets and freezers without signal	Without extra functionality	-7.5 / -15 *)	-	-22 / -33.1	-	-	2.0	077B0102		
	Ice-cream cabinets and freezers without signal	Without extra functionality	-7.5 / -15	-	-21 / -32.5 *)	-	-	2.3	077B7005 <sup>1)</sup>		
	Liquid and bottle coolers	Without extra functionality (liquid)	15.5 / 9	12 / 5	8 / 0.5 *)	-	-	1.2	077B0027		
	Liquid and bottle coolers	Without extra functionality (bottle)	10.5 / 5	0 / -7	3 / -4.5 *)	-	-	1.2	077B0028		
	Liquid and bottle coolers	Without extra functionality (bottle)	10.9 / 5.2	-	-1 / -8.5 *)	-	-	2.0	077B0155		
	Liquid and bottle coolers	Without extra functionality (bottle & liquid)	11.5 / 6 *)	-	-1 / -8.5	-	-	2.0	077B7008 <sup>1)</sup>		
077B02	Chest and Upright freezers	Without extra functionality	-15 / -23 *)	-18 / -27	-22 / -32	-	-	0.8	077B0025		
	Absorption coolers	With auxiliary contact	3.5 / -1 *)	-2 / -7	-7 / -12.5	-	-	1.2	077B0220		
077B20	Absorption coolers	With auxiliary contact	3.5 / -1 *)	-	-5 / -11	-	-	1.5	077B7004 <sup>1)</sup>		
	Chest and Upright freezers	With signal contact, cutting in on rising temperature	-15 / -23 *)	-18 / -27	-22 / -32	-12 *)	-	0.8	077B2020		
	Chest and Upright freezers	With signal contact, cutting in on rising temperature	-10 / -17 *)	-	-24 / -34.7	-6 *)	-	2.0	077B2077		
077B30	Chest and Upright freezers	With signal contact, cutting in on rising temperature (active signal)	-10 / -17 *)	-	-24 / -34.5	-6 *)	-	2.3	077B7006 <sup>1)</sup>		
	Chest and Upright freezers	With signal contact, cutting out on rising temperature (passive signal)	-10 / -17 *)	-	-24 / -34.5	-6 *)	-	2.3	077B7007 <sup>1)</sup> <sup>2)</sup>		
077B40	Refrigerators with pushbutton defrost	With push button defrost	0 / -7.5 *)	-	-11 / -21	-	6	1.3	077B7002 <sup>1)</sup>		
077B6/62	Two-temperature cabinets with automatic defrost	With constant cut-in temperature, automatic defrost and auxiliary contact	3.5 / -12.5	3.5 / -17.5	3.5 / -23 *)	-	-	1.0	077B6021		
	Two-temperature cabinets with automatic defrost	With constant cut-in temperature, automatic defrost and auxiliary contact	3.5 / -11	-	3.5 / -27 *)	-	-	1.2	077B6208		
	Two-temperature cabinets with automatic defrost	With constant cut-in temperature, automatic defrost and auxiliary contact	3.5 / -10	3.5 / -15	3.5 / -20 *)	-	-	1.0	077B6220		
	Two-temperature cabinets with automatic defrost	With constant cut-in temperature, automatic defrost and auxiliary contact	3.5 / -11	-	3.5 / -27 *)	-	-	2.0	077B6476		
	Two-temperature cabinets with automatic defrost	With constant cut-in temperature, automatic defrost and auxiliary contact	3.5 / -11	-	3.5 / -27.5 *)	-	-	1.6	077B7003 <sup>1)</sup>		
	Two-temperature cabinets with automatic defrost	With constant cut-in temperature, automatic defrost and changeover contact	5 / -10 *)	-	5 / -30	-	-	1.5	077B6321		

\*) Adjustment position

<sup>1)</sup> Forming part of the 8 Service Thermostats, sold with accessories in practical boxes

<sup>2)</sup> Available for After Market Sales

# Technical data and ordering

## Service thermostats

### Ordering

Application	No.	Temperatures [°C]				Accessories						Capillary tube length [m]	Remarks	Code no.
		Warm pos. cut-in / cut out	Cold pos. cut-in / cut out	Signal	Defrosting	Washer	Small knob	Push-button	Mounting bracket	Seal cap	Small parts			
Refrigerators	1	2 / -5.5	-13.5 / -25 *)	-	-	x	x	-	x	-	x	1.3	-	077B7001 <sup>1)</sup>
Refrigerators with pushbutton defrost	2	0 / -7.5 *)	-11 / -21	-	6	x	x	x	x	-	x	1.3	-	077B7002
Refrigerators with automatic defrost	3	3.5 / -11	3.5 / -27.5 *)	-	-	x	x	-	x	-	x	1.6	With auxillary switch	077B7003 <sup>1)</sup>
Absorption refrigerators	4	3.5 / -1 *)	-5 / -11	-	-	x	x	-	x	-	x	1.5	With auxillary switch	077B7004 <sup>1)</sup>
Ice-cream cabinets and freezers without signal	5	-7.5 / -15	-21 / -32.5 *)	-	-	-	x	-	x	x	x	2.3	-	077B7005 <sup>1)</sup>
Freezers with active signal	6	-10 / -17 *)	-24 / -34.5	-6 *)	-	-	x	-	x	x	x	2.3	With active signal	077B7006 <sup>1)</sup>
Freezers with passive signal	7	-10 / -17 *)	-24 / -34.5	-6 *)	-	-	x	-	x	x	x	2.3	With passive signal	077B7007
Bottle and liquid coolers	8	11.5 / 6 *)	-1 / -8.5	-	-	x	x	-	x	x	x	2.0	-	077B7008 <sup>1)</sup>

\*) Adjustment position

<sup>1)</sup> With EBD (from January 2017)