Danfoss Type 077B7 Service Thermostats

Danfoss Type 077B7 Service Thermostats Installation Guide

Contents

Danfoss Type 077B7 Service Thermostats

Specifications

- Model Numbers: 077B218, 077B223, 077B7099, 077B7100, 077B7101,077B7102, 077B7103, 077B7104, 077B7105, 077B7108, 077B7109, 077B7274, 077B7242, 077B7049
- Length of Capillary: L = 1200 +30/-0 mm
- Min. Sensor Length Mounted on Evaporator: LS = 95-105 mm (varies based on model)
- Usage: Service thermostats for various refrigeration appliances

Product Usage Instructions
Installation Guide
Follow the guidelines provided in the installation guide for proper setup of the service thermostats.

Setting Adjustment
Adjust the cut-in and cut-out temperatures as needed for your specific appliance using the designated settings.

Sensor Length Requirements
Ensure the minimum sensor length mounted on the evaporator is met according to the specifications mentioned for each model.

Cold Setting Position
Select the desired cold setting position (3 or 4) based on your cooling requirements.

Additional **Information**
For more detailed usage instructions and troubleshooting tips, refer to the complete user manual provided with the product.

Frequently Asked Questions (FAQ)
Q: What is the recommended sensor length for the evaporator?
A: The recommended minimum sensor length mounted on the evaporator varies between 95mm to 105mm depending on the specific model.
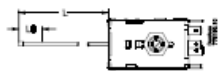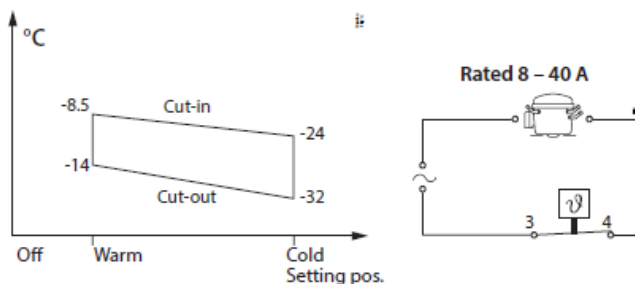
Installation Guide

Service thermostats
Type 077B7
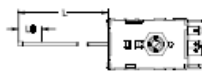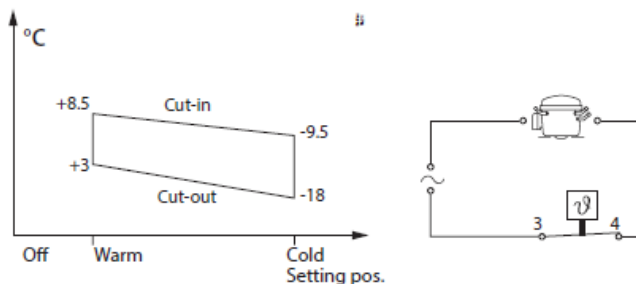
Service thermostats 077B7099
Ice-cream cabinets and freezers without signal

°C

Rated 8 – 40 A

-8.5 — Cut-in — -24
-14 — -32
Cut-out

Off   Warm   Cold
Setting pos.

3   ϑ   4

Length of capillary (mm): L = 1200 +30/-0
Min. sensor length mounted on evaporator
(mm): LS = 95
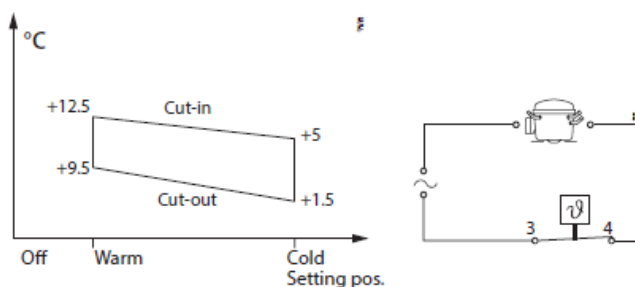(Used as airsensor min. 2 x LS)

Service thermostats 077B7100
Commercial refrigerators

°C

+8.5 — Cut-in — -9.5
+3 — -18
Cut-out

Off   Warm   Cold
Setting pos.

3   ϑ   4

Length of capillary (mm): L = 1200 +30/-0
Min. sensor length mounted on evaporator
(mm): LS = 95
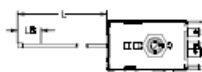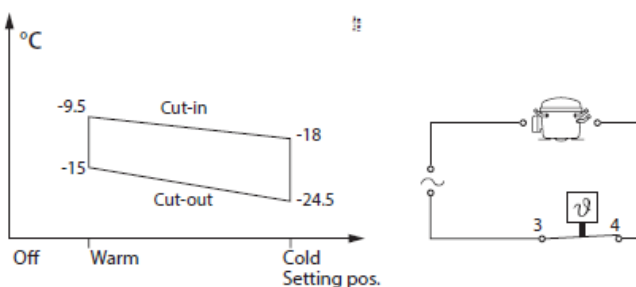(Used as airsensor min. 2 x LS)

Service thermostats 077B7101
Bottle and liquid coolers

°C

+12.5 — Cut-in — +5
+9.5 — +1.5
Cut-out

Off   Warm   Cold
Setting pos.

3   ϑ   4

Length of capillary (mm): L = 1200 +30/-0
Min. sensor length mounted on evaporator
(mm): LS = 100
(Used as airsensor min. 2 x LS)

Service thermostats 077B7102
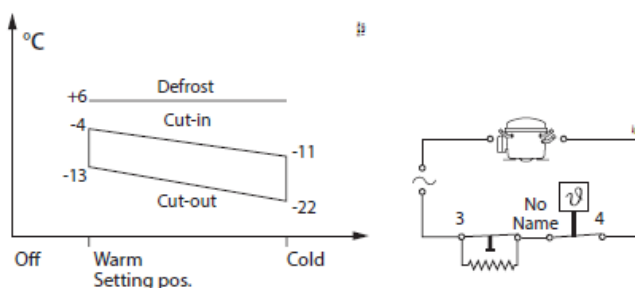### Ice-cream cabinets and freezers without signal

°C

-9.5 — Cut-in — -18
-15 — -24.5
Cut-out

Off   Warm   Cold
Setting pos.

3   ϑ   4

Length of capillary (mm): L = 1200 +30/-0
Min. sensor length mounted on evaporator (mm):
LS = 95
(Used as airsensor min. 2 x LS)

Service thermostats 077B7103
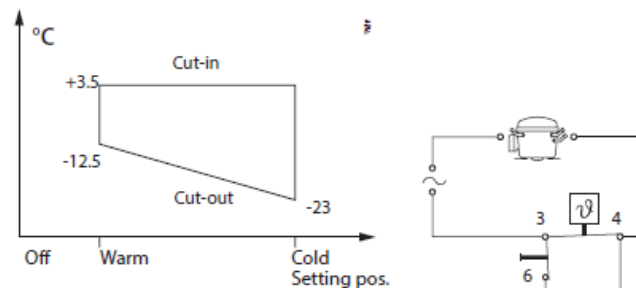### Refrigerators with push button defrost

°C

+6 — Defrost
-4 — Cut-in — -11
-13 — -22
Cut-out

Off   Warm   Cold
Setting pos.

3   No Name   ϑ   4

Length of capillary (mm): L = 1000 +30/-0
Min. sensor length mounted on evaporator
(mm): LS = 105
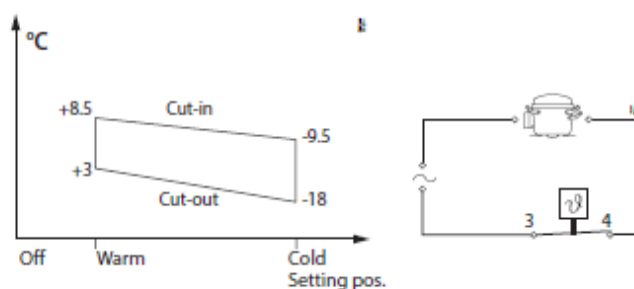(Used as airsensor min. 2 x LS)

Service thermostats 077B7104
Refrigerators with automatic defrost

°C

Cut-in
+3.5
-12.5
Cut-out — -23

Off   Warm   Cold
Setting pos.

3   ϑ   4
6

Length of capillary (mm): L = 1000 +30/-0
Min. sensor length mounted on evaporator
(mm): LS = 100
(Used as airsensor min. 2 x LS)

Service thermostats 077B7105
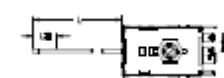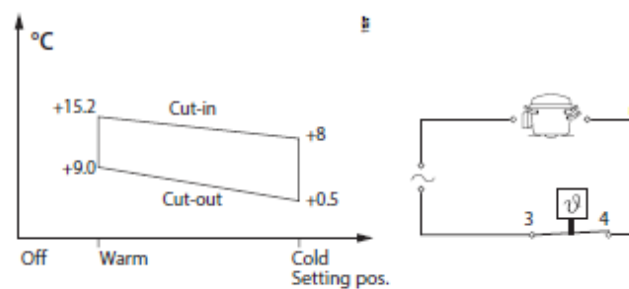Commercial refrigerators

°C

+8.5 Cut-in
+3   -9.5
        Cut-out   -18

Off   Warm   Cold
                  Setting pos.

Length of capillary (mm): L = 1200 +30/-0
Min. sensor length mounted on evaporator
(mm): S = 95
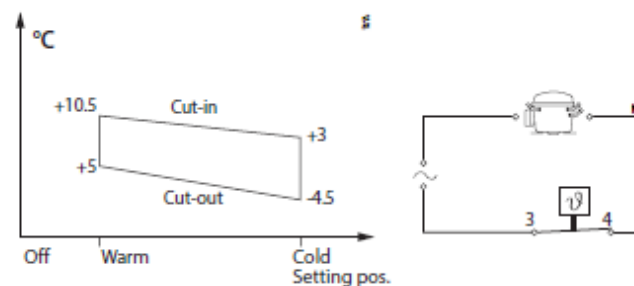(Used as airsensor min. 2 x LS)

Service thermostats 077B7108
Bottle and liquid coolers

°C

+15.2 Cut-in
+9.0   +8
        Cut-out   +0.5

Off   Warm   Cold
                  Setting pos.

Length of capillary (mm): L = 1200 +30/-0
Min. sensor length mounted on evaporator
(mm): LS = 100
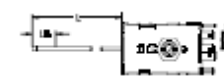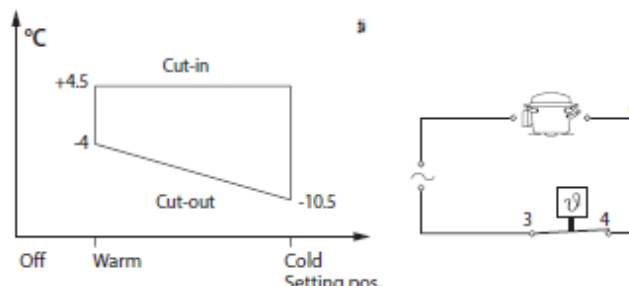(Used as airsensor min. 2 x LS)

Service thermostats 077B7109
Bottle and liquid coolers

°C

+10.5 Cut-in
+5   +3
        Cut-out   -4.5

Off   Warm   Cold
                  Setting pos.

Length of capillary (mm): L = 1200 +30/-0
Min. sensor length mounted on evaporator (mm):
LS = 85
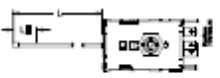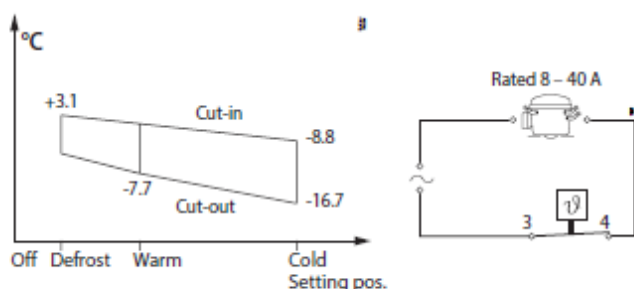(Used as airsensor min. 2 x LS)

Service thermostats 077B7274
Refrigerators with automatic defrost

°C

+4.5   Cut-in
-4
        Cut-out   -10.5

Off   Warm   Cold
                  Setting pos.

Length of capillary (mm): L = 900 +30/-0
(Airsensor)

Service thermostats 077B7242
1 door refrigerators, warm defrost

°C

Rated 8 – 40 A

+3.1   Cut-in
                        -8.8
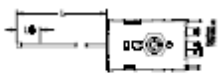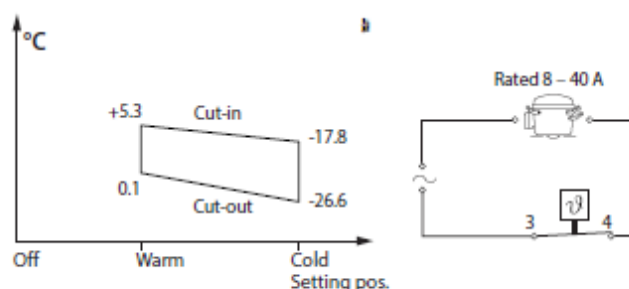-7.7   Cut-out   -16.7

Off Defrost Warm   Cold
                      Setting pos.

Length of capillary (mm): L = 1300 +50/-0
Min. sensor length mounted on evaporator (mm):
LS = 90
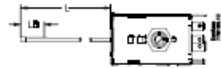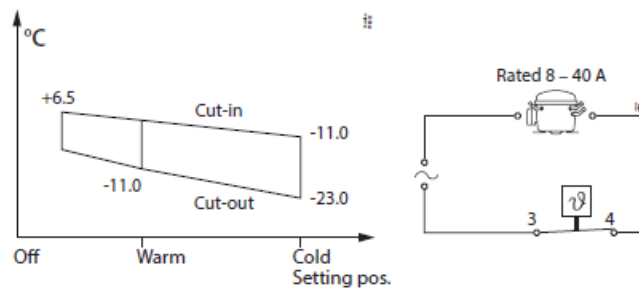(Used as airsensor min. 2 x LS)

Service thermostats 077B7049
Double function appliances

°C

Rated 8 – 40 A

+5.3   Cut-in
                        -17.8
0.1   Cut-out   -26.6

Off   Warm   Cold
                  Setting pos.

Length of capillary (mm): L = 1200 +50/-0
Min. sensor length mounted on evaporator (mm):
LS = 110
(Used as airsensor min. 2 x LS)

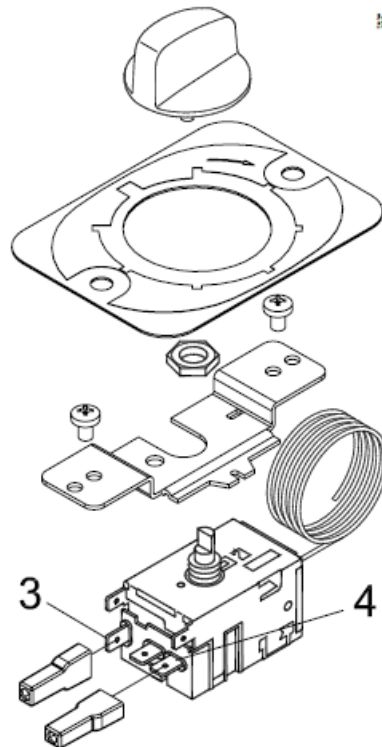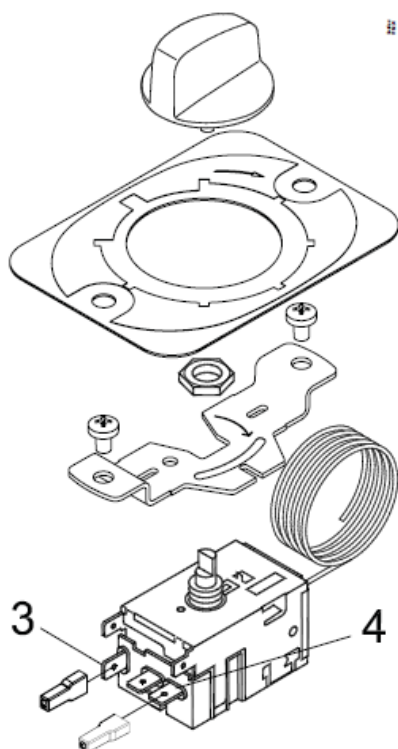## Service thermostats 077B7050
1 door refrigerators, warm defrost

Rated 8 – 40 A

Length of capillary (mm): L = 1200 +50/-0
Min. sensor length mounted on evaporator (mm): LS = 110
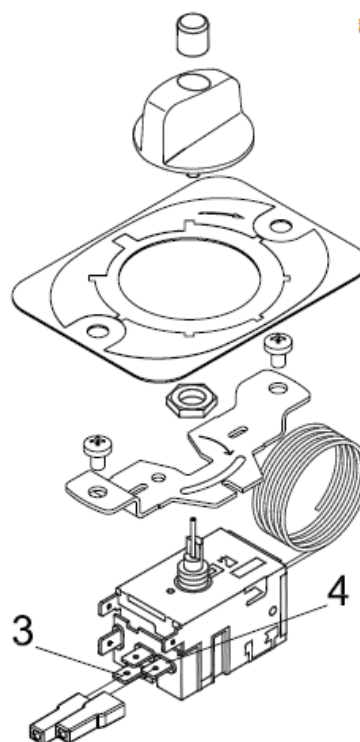(Used as airsensor min. 2 x LS)

Accessories for 077B7099

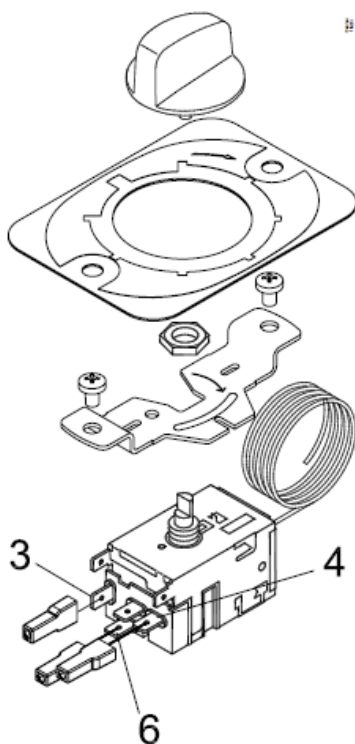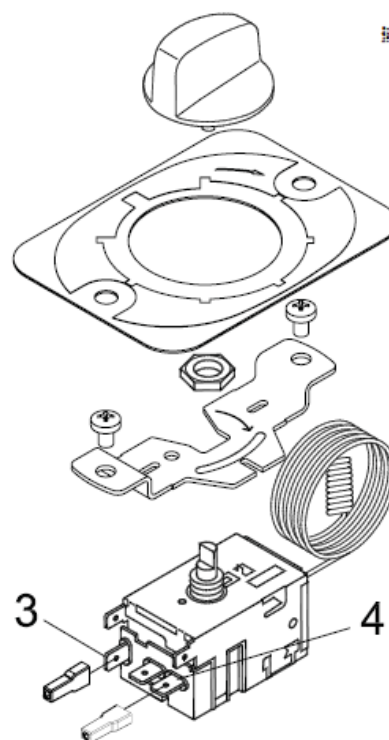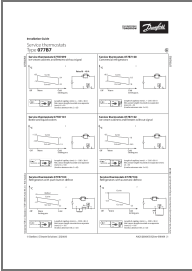| Accessories for 077B7100, 077B7101, 077B7102, 077B7105, 077B7108, 077B7109, 077B7242, 077B7049, 077B7050	Accessories for 077B7103
Accessories For 077B7104	Accessories for 077B7274

- The 077B….EBD, 077B….L EBD can be applied on systems with R290 and R600a as the working fluid.

- For countries where safety standards are not an indispensable part of the safety system Danfoss recommends the installer to get a third-party approval of the system containing flammable refrigerant.

- Note: All temperatures at 760 mm Hg (except 077B7242 at 700 mm Hg).

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Documents / Resources

Danfoss Type 077B7 Service Thermostats [pdf] Installation Guide
Type 077B7, Type 077B7 Service Thermostats, Service Thermostats, Thermostats

References

- **User Manual**