

Danfoss
KP 98
Thermostat
Type



Danfoss KP 98 Thermostat Type Installation Guide

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Danfoss KP 98 Thermostat Type



Specifications:

- **Thermostat Type:** KP 98 (Cross ambient)
- **Enclosure and Tightness:** IP30 in accordance with EN 60529 / IEC 529
- **Application:** UL-requirements – 120 V a.c.: 16 FLA, 96 LRA; 240 V a.c.: 8 FLA, 48 LRA; 240 V d.c.: 12 W pilot duty

Product Usage Instructions

Thermostat (Cross Ambient = Adsorption Charged)

Fig. 1 – Component Identification

1. **Setting spindle, “OIL” (LT)** – Setting of max. oil temperature
2. **Main arm**
3. **Setting spindle, “HT”** – Setting of max. high-pressure gas temperature
4. **Locking plate**

Technical Data

- **Function**

The function at a rise or drop in temperature appears in Figs. 8 and 9.

- **Permissible Ambient Temperature (Thermostat Housing)** -40 to 65 °C (up to 80 °C for a maximum of 2 hours)
- **Max. Permissible Bulb Temperatures**
 - **“OIL” sensor (060L113166):** 150 °C
 - **“HT” bulb:** 250 °C
- **Enclosure and Tightness**
 - IP30 in accordance with **EN 60529 / IEC 529**

- This is achieved when the unit is mounted on a flat panel or a bracket that covers all open holes.

- **Contact Load**

Refer to the unit's scale.

- **UL Application Requirements:**

- **120 V a.c.:** 16 FLA, 96 LRA
- **240 V a.c.:** 8 FLA, 48 LRA
- **240 V d.c.:** 12 W pilot duty

Mounting Instructions

- **Bulb Placement**

- Refer to **Figs. 3, 4, and 6** for correct positioning.

- **Mounting Brackets (Fig. 2)**

- Two types of brackets with screws and washers (ordered separately).
- If using different screws, ensure they do not project more than **1.5 mm** into the unit.

- **Compressor Installation**

- **Fig. 3:** Compressor with KP 98
- **Fig. 4:** Sensor fitted to tube
- **Fig. 5:** Clamp (ordered separately)
- **Fig. 6:** Bulb in pocket
- **Fig. 7:** Sensor pocket (ordered separately)
 - **Tip:** Use heat-conducting paste (Code No. 041E0110) to improve heat transfer between bulb and pocket.

Electrical Connections

Fig. 8 – Wiring Warning

CAUTION: Disconnect power supply before wiring or servicing. Do not touch live parts with fingers or tools.

Cable Entry Options

- **Fig. 9:** Plastic entry (6–14 mm cable)
 - **Fig. 10:** Pg 13.5 screwed cable connection with special nut (6–14 mm cable, ordered separately)
- For 8–16 mm cable, use a standard Pg 16 connection.

Testing Procedure

Fig. 11 – Testing

- Tilt the main arm (3)
- Simultaneously press the “RESET” knobs
- **Note:** Only use the described testing method

Setting Instructions

Fig. 8 and 12 – Scale Definitions

- **START:** Starting temperature
- **STOP:** Stop temperature
- **DIFF:** Differential

Setting Max Temperatures

- Use “OIL” and “HT” scales
- **“OIL” Differential:** Fixed at 14 °C
- **“HT” Differential:** Fixed at 25 °C

Restart After Shutdown

- Press the “RESET” buttons
- Restart only occurs once the temperature drops by the set differential value

Locking and Sealing

- **Fig. 13 and 14 – Locking Plate**
Lock both “OIL” and “HT” spindles using the locking plate
- **Fig. 15 – Sealing Screw**
Use sealing screw (ordered separately) if sealing is required

<div>1</div> <div><p>DANFOSS A60-370.15.13</p></div>	<div>2</div> <div><p>060-105566 060-105666</p><p>DANFOSS A60-221.12.11</p></div>		
<div>3</div> <div><p>KP 98 DANFOSS A60-421.12</p></div>	<div>4</div> <div><p>HT DANFOSS A60-415.10</p></div>	<div>5</div> <div><p>DANFOSS A17-144.10</p></div>	
<div>6</div> <div><p>HT → DANFOSS A60-416.10</p></div>	<div>7</div> <div><p>DANFOSS A17-324.14</p></div>	<div>5</div> <div><p>017-420366</p></div>	
<div>9</div> <div><p>DANFOSS A60-225.11</p></div>	<div>10</div> <div><p>Pg 13.5 DANFOSS A60-226.10</p><p>5 stk./pieces/ Stck./pièces 060-105966</p></div>	<div>11</div> <div><p>test DANFOSS A60-417.13.12</p></div>	
<div>12</div> <div><p>HT stop Oil start DANFOSS A60-420.11.10</p></div>	<div>13</div> <div><p>DANFOSS A60-235.12</p></div>	<div>14</div> <div><p>DANFOSS A60-310.11</p></div>	<div>15</div> <div><p>DINA 405 DANFOSS A60-236.13</p><p>2 stk./pieces/ Stck./pièces 060-105766</p></div>

<p>1</p> <p>OIL</p> <p>HT</p> <p>DANFOSS A60-376.15.13</p>	<p>2</p> <p>060-105566</p> <p>060-105666</p> <p>DANFOSS A60-221.12 .11</p>	
<p>3</p> <p>KP 98</p> <p>DANFOSS A60-421.12</p>	<p>4</p> <p>HT</p> <p>DANFOSS A60-415.10</p>	<p>5</p> <p>DANFOSS A17-144.10</p>
<p>6</p> <p>HT</p> <p>DANFOSS A60-416.10</p>	<p>7</p> <p>DANFOSS A17-374.14</p>	<p>8</p> <p>SPST</p> <p>Oil-temp.</p> <p>HT</p> <p>Stop</p> <p>Diff</p> <p>Reset</p> <p>(Max.reset)</p> <p>(Max.reset)</p> <p>DANFOSS A60-416.12</p>
<p>9</p> <p>ø22</p> <p>ø8</p> <p>ø5</p> <p>ø19.5</p> <p>ø11</p> <p>DANFOSS A60-225.11</p>	<p>10</p> <p>Pg 13.5</p> <p>DANFOSS A60-226.10</p> <p>5 stk./pieces/ Stck./pièces 060-105966</p>	<p>11</p> <p>test</p> <p>DANFOSS A60-417.13.12</p>
<p>12</p> <p>HT stop</p> <p>Oil start</p> <p>DANFOSS A60-420.11.10</p>	<p>13</p> <p>DANFOSS A60-235.12</p>	<p>14</p> <p>DANFOSS A60-310.11</p>
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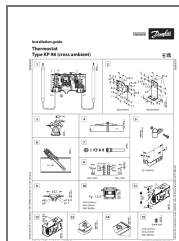
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FAQ

Q: How do I improve heat transfer from the sensor pocket to the bulb?

A: To improve heat transfer, use a heat conducting paste (Code No. 041E0110) when installing the sensor pocket.

Documents / Resources



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KP 98 Thermostat Type, KP 98, Thermostat Type, Type

References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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