

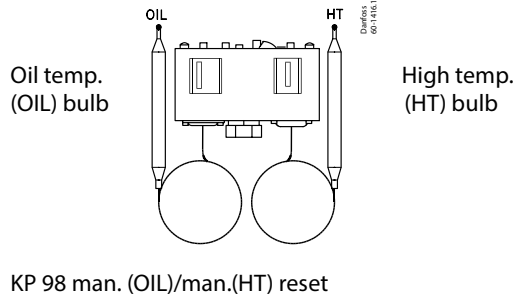
Installation guide

Thermostat

Type KP 98 (cross ambient)

060R9749

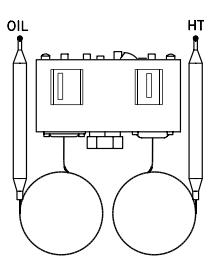
060R9749



Note:

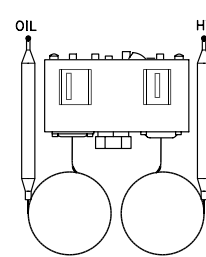
Code no. stamped on top of control.

Ambient temperatures



min. -40 °F (-40 °C)
max. 150 °F (65 °C)
(175 °F (80 °C) for max. 2 hours)

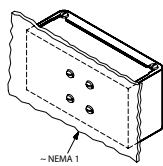
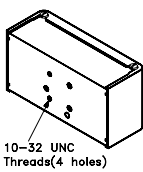
Max. bulb temperatures



max. 300 °F (150 °C)

max. 480 °F (250 °C)

Enclosure



max. 1/16 in (1.5mm)

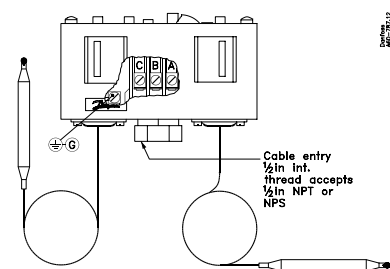
Danfoss 60-7986.1.2



CAUTION:

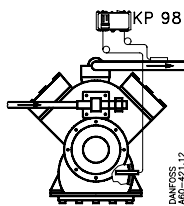
The mounting panel must be plane to avoid damage of control.

Cable entry



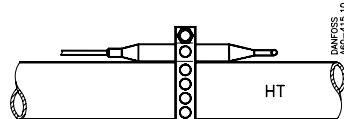
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Mounting



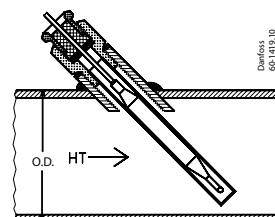
Mount OIL temperature bulb in compressor crankcase and the HT bulb on/in discharge line as shown.

Small pipe size



Danfoss 60-7986.1.10

*Large pipe size
OD > 3.5 in.*



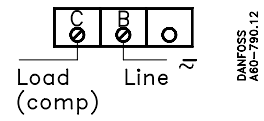
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Wiring



CAUTION: disconnect power supply before wiring connections are made to avoid possible electrical shock or damage to equipment.

SPST
Terminal block



All wiring should conform to the National Electrical Code and local regulations.



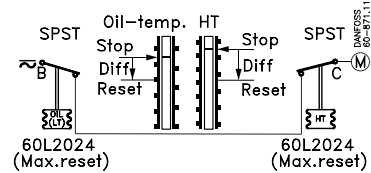
CAUTION: Use terminal screws furnished in the contact block. Use tightening torque 20 lb. in. (2.3 Nm). Use copper wire only.

Contact load ratings

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

See label inside cover.

B-C open on oil temperature rise
B-C open on discharge temperature rise
A is not used



See label for current wiring inside cover.

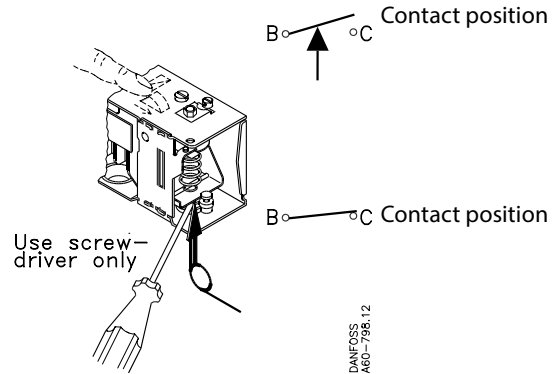
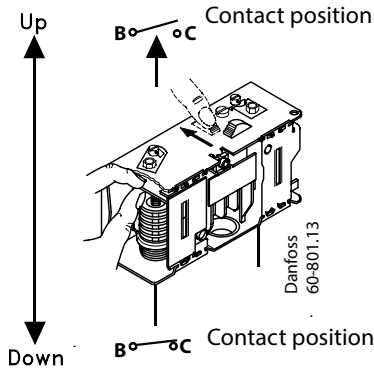
Manual tripping

(Electrical contacts/wiring test)

OIL side

HT side

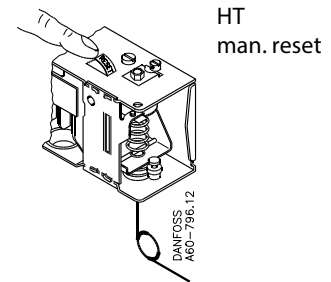
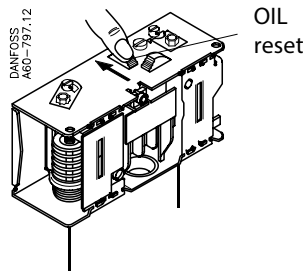
TRIP
use FINGERS ONLY!
(Do NOT use screwdriver)



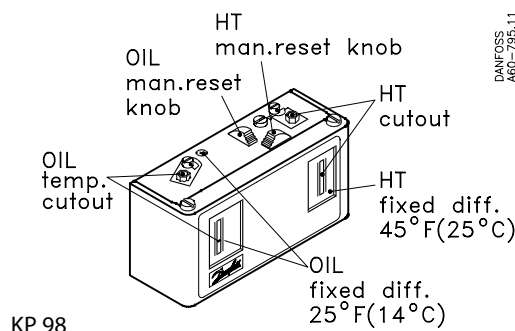
Manual reset

To resume control operation after safety cut-out, push man. reset knob as indicated

Note:
OIL/HT man. reset is possible only after oil or discharge temperature is equal to or has dropped below cut-in value.



Adjustment spindle(s) location



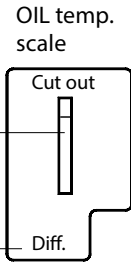
KP 98

A. MAN./MAN. RESET

Setting

Oil temp. (OIL) side setting

1. Adjust range spindle to desired CUT-OUT value (max. allowable oil temp.)
2. Differential (DIFF.) is fixed 25 °F (14 °C) Value printed on scale plate

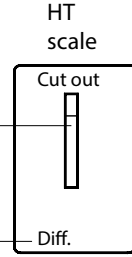


CUT OUT minus DIFFERENTIAL equals CUT-IN

Example:
 CUT-OUT - DIFF. = CUT-IN
 200 °F - 25 °F = 175 °F
 (93 °C) (14 °C) (79 °C)

High temp. (HT) side setting

1. Adjust range spindle to desired CUT-OUT value (max. allowable discharge temp.)
2. Differential (DIFF.) is fixed 45 °F (25 °C) Value printed on scale plate



CUT OUT minus DIFFERENTIAL equals CUT-IN

Example:
 CUT-OUT - DIFF. = CUT-IN
 325 °F - 45 °F = 280 °F
 (163 °C) (25 °C) (138 °C)

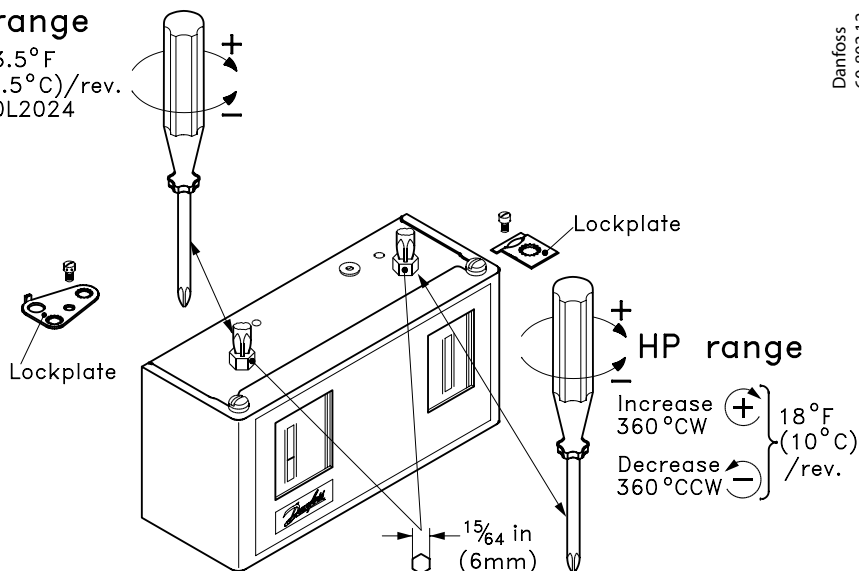
Note:

CUT-OUT = compressor cut-out
 CUT-IN = compressor cut-in

Adjustment

OIL temp.range

Increase \oplus 13.5 °F (7.5 °C) / rev.
 360 °CW
 Decrease \ominus 360 °CCW



Note:

Remove lockplate before adjustment.
 Replace lockplate after adjustment (if desired).