

# Instructions

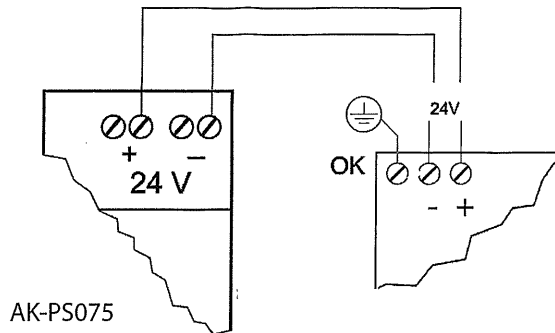
## Power supply AK-PS075

**Danfoss**

REFRIGERATION AND  
AIR CONDITIONING

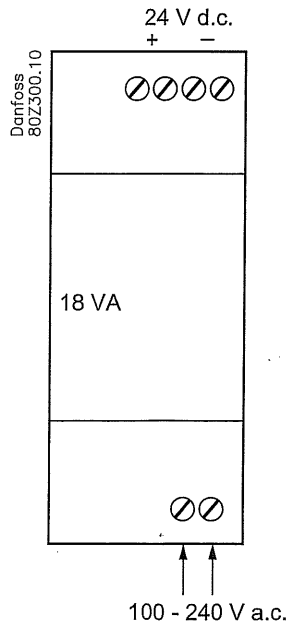
080R9260

### Principle



080R9260

### Approvals & Specifications 080Z0053 AK-PS075



UL File # E312396

#### Nominal Input Voltage

AC: 100 - 240V  
45-65 Hz  
1.4A (120V a.c.) / 0.4A (230V a.c.)

#### Operational Voltage:

85-264V a.c.  
95-250V d.c.

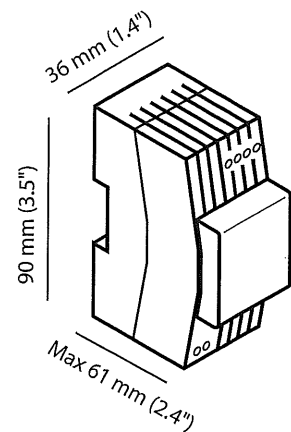
#### Output:

24V d.c.  
0.75A  
18 VA

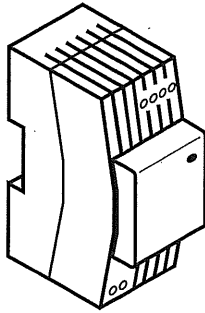
#### Environmental Range:

Operation  $-25^{\circ}\text{C} < t_{\text{amb}} < +70^{\circ}\text{C}$  ( $-13^{\circ}\text{F} < t_{\text{amb}} < 158^{\circ}\text{F}$ )  
Derating of output current 2.5 % /  $K > +55^{\circ}\text{C}$  ( $131^{\circ}\text{F}$ )  
Storage  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$  to  $+185^{\circ}\text{F}$ )  
Humidity 0 - 95% RH, non condensing

### Dimensions



## Signaling

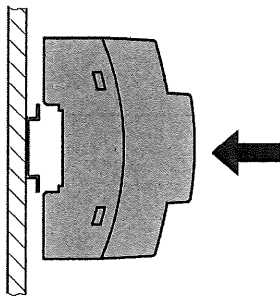


	State 1	State 2
DC OK LED	On	Off
Meaning	Normal operation of the power supply	1. The output voltage is less than 21.5 V. There is a secondary consumer short circuit or overload. 2. There is no input voltage or there is a device fault

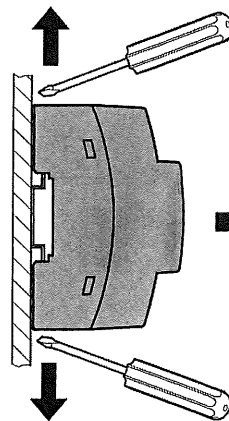
## Mounting

The power supply can be snapped onto all mounting rails in accordance with EN 50022-35. Ensure mounting rails are fixed horizontally (terminals facing downwards). In order to comply with the UL approval, use copper cables that are designed for operating temperatures of 75 °C (167 °F)

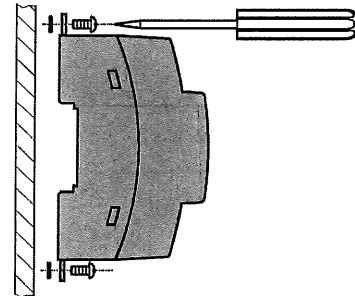
DIN rail mounting



Remove from DIN rail



Flat surface mounting



## Connection / Connecting cable

In order to comply with the UL certification, use copper cables that are designed for operating temperatures of >75 °C. In order to comply with EN 60950/UL 60950, flexible cables require ferrules. In order to fulfill GL requirements, unused terminal spaces must be closed. To achieve a reliable and shockproof connection, strip the connecting ends according to table 1!

Tabelle 1 Table 1 Tableau 1 Tabla 1:	Starr Solid Rígido Rígido [mm <sup>2</sup> ]	Flexibel Stranded Souple Flexible [mm <sup>2</sup> ]	AWG	Anzugsmoment Torque Couple de serrage Par de apriete [Nm]	[lb in]	Abisolierlänge Stripping length Longueur à dénuder Longitud a desaislar L [mm]
① ②	0,2-2,5	0,2-2,5	24-12	0,6-0,8	5-7	6,5



If the internal fuse is triggered, there is most probably a malfunction in the device. In this case, the device must be inspected in the factory!

For device protection, there is an internal fuse:  
3,15 AT (250V AC / 125 V d.c.)

Additional device protection is not necessary. Recommended backup fuses are power circuit-breakers 6 A, 10 A or 16 A, characteristic B (or identical function). In DC applications, a suitable backup fuse must be wired in!