

Data sheet

Coils for solenoid valves



The coils are specially designed to operate in the aggressive environment of high humidity and temperature fluctuations that you find in most refrigeration systems.

The Clip-on fastening system ensures a faultless installation and makes the coils easy to mount and dismount. A Danfoss Clip-on coil can be mounted without any tools at all, and it is simple to dismount the coil by means of a screwdriver.

The Clip-on coils are available for the entire range of Danfoss solenoid valves for refrigeration, freezing and air conditioning purposes.

Features

- Encapsulated coils with long operating life, even under extreme conditions.
- Standard coils for a.c. or d.c.
- Standard coils available with 3-core cable, terminal box or DIN plugs.
- Standard coils from 12 V to 420 V, 50, 60 or 50/60 Hz.
- Standard coils dimensioned for max. opening differential pressure (MOPD) of up to 21 bar.
- Coils can be fitted without the use of tools.

Technical data*Ambient temperature*

10 or 12 W a.c. coil for NC (normally closed) valve:

-40 – +80 °C -

10 W a.c. coil for NO (normally open) valve:

-40 – +55 °C

20 W coil for NC and NO valve:

-40 – +50 °C

Permissible voltage variation

10, 12 and 20 W a.c. coils: +10 – -15 %

Double frequency coils and 20 W d.c. coils: ±10 %.

Enclosure

IP 67 with cable or terminal box

IP 20 with DIN plugs and protective cap

IP 65 with DIN socket

IP 00 with DIN plugs.

Approvals

See under the required solenoid valve.

Connection*3-core cable*

The external thread in the screwed cable entry suits flexible steel hose or corresponding cable protection.

Terminal box

Leads are connected to terminal screws in the terminal box. The box is fitted with a Pg 13.5 screwed entry for 6 – 14 mm cable.

Max. lead cross section: 2.5 mm².

DIN plugs

The three pins on the coil can be fitted with spade tabs, 6.3 mm wide (to DIN 46247).

The two current carrying pins can also be fitted with spade tabs, 4.8 mm wide.

Max. lead cross section: 1.5 mm².

Use of the protective cap supplied will prevent inadvertent contact with live parts.

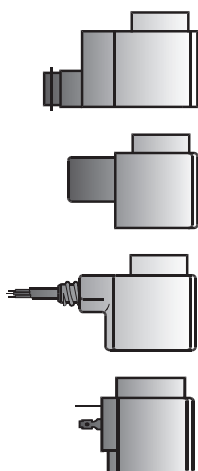
DIN socket

(to DIN 43650)

Leads are connected in the socket. The socket is fitted with a Pg 11 screwed entry for 6 – 12 mm.

Ordering
Clip-on coils

| Valve type | Voltage V | Frequency Hz | Code no. | | | | Power consumption |
|------------|--------------|-----------------|------------------------------|-----------------------|--|--------------|-------------------|
| | | | 1 m 3-core cable IP 67 | Terminal box IP 67 | DIN plugs and protect. cap IP 20 | DIN plugs *) | |



Alternating current a.c.

| | | | | | | | |
|--|---------|-----------------|-----------------|-----------------|-----------------|-----------------|---|
| EVR 2 – 40 (NC) EVR 6 – 22 (NO) EVRH 4 – 40 EVRC EVRA EVRAT EVRs / EVRST EVM (NC) | 12 | 50 | - | 018F6706 | - | - | Holding: 10 W 21 VA Inrush: 44 VA |
| | 24 | 50 | 018F6257 | 018F6707 | 018F6182 | 018F7358 | |
| | 42 | 50 | - | 018F6708 | - | - | |
| | 48 | 50 | - | 018F6709 | - | - | |
| | 115 | 50 | - | 018F6711 | - | 018F7361 | |
| | 220-230 | 50 | 018F6251 | 018F6701 | 018F6176 | 018F7351 | |
| | 240 | 50 | 018F6252 | 018F6702 | 018F6177 | 018F7352 | |
| | 380-400 | 50 | 018F6253 | 018F6703 | - | - | |
| | 420 | 50 | - | 018F6704 | 018F6179 | - | |
| | 24 | 60 | 018F6265 | 018F6715 | - | - | |
| | 115 | 60 | 018F6260 | 018F6710 | 018F6185 | - | |
| | 220 | 60 | 018F6264 | 018F6714 | 018F6189 | - | |
| | 240 | 60 | - | 018F6713 | - | - | |
| 110 | 50/60 | 018F6280 | 018F6730 | 018F6192 | 018F7360 | | |
| 220-230 | 50/60 | 018F6282 | 018F6732 | 018F6193 | 018F7363 | | |

*) Can only be used with DIN socket

| Valve type | Voltage V | Frequency Hz | Code no. | Power consumption |
|------------|--------------|-----------------|--------------|-------------------|
| | | | Terminal box | |

Alternating current a.c.



| | | | | |
|--|---------|-----------------|-----------------|---|
| EVR 3 – 40 EVRC EVRA EVRAT EVRs / EVRST EVM (NC / NO) | 24 | 50 | 018F6807 | Holding: 12 W 26 VA Inrush: 55 VA |
| | 48 | 50 | 018F6809 | |
| | 110 | 50 | 018F6811 | |
| | 220-230 | 50 | 018F6801 | |
| | 240 | 50 | 018F6802 | |
| | 380-400 | 50 | 018F6803 | |
| | 24 | 60 | 018F6815 | |
| | 110 | 60 | 018F6813 | |
| 220 | 60 | 018F6814 | | |

Alternating current a.c.



| | | | | |
|--|-----|----|-----------------|---|
| EVR 2 – 40 (NC) EVR 6 – 22 (NO) EVRH 4 – 40 (NO) EVRC/EVRA/ EVRAT/EVRST/ EVM (NC) | 24 | 50 | 018F6901 | Holding: 20 W 45VA Inrush: 65VA |
| | 24 | 50 | 018F6905 | |
| | 230 | 60 | 018F6902 | |
| | | | | |

Recommended use for EVRH with high MOPD (38 bar)

See "Opening differential pressure" under "Technical data" for the valve concerned.

When replacing a coil with terminal box, it is sufficient to change the coil unit itself. Therefore, order coil with DIN plugs and protective cap.

Ordering (Continued)

| Valve type | Voltage V | Code no. | Power consumption |
|------------|-----------|--------------------|-------------------|
| | | Terminal box IP 67 | |

Direct current d.c.

Coil type I

| | | | |
|------------------------------------|-----|-----------------|------|
| EVR 2 – 15 (NC) | 12 | 018F6856 | 20 W |
| EVR 25 – 40 (NC/NO) | 24 | 018F6857 | |
| EVR 6 – 15 (NO) | 48 | 018F6859 | |
| EVRC 10 – 15 | 110 | 018F6860 | |
| EVRA 3 – 15 (NC) | 115 | 018F6861 | |
| EVRA 25 – 40 (NC) | 220 | 018F6851 | |
| EVRA 10 – 15 (NC) | | | |
| EVRS / EVRST 3 – 15 EVM (NC/NO) | | | |



Direct current d.c.

Coil type II

| | | | |
|---------------------|-----|-----------------|------|
| EVR 20 – 22 (NC/NO) | 12 | 018F6886 | 20 W |
| EVRC 20 | 24 | 018F6887 | |
| EVRA 20 | 48 | 018F6889 | |
| EVRA 20 | 110 | 018F6890 | |
| EVRA 20 | 220 | 018F6881 | |
| EVRST 20 | | | |



See "Opening differential pressure" under "Technical data" for the valve concerned.

When replacing a coil with terminal box, it is sufficient to change the coil unit itself. Therefore, order coil with DIN plugs and protective cap.

Accessories

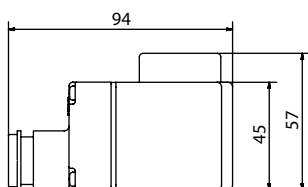
| Description | Code no. |
|---|-----------------|
| DIN socket | 042N0156 |
| Terminal box with build-in light emitting indicator diode for solenoid valves | 018Z0089 |



Dimensions and weights

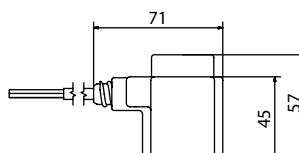
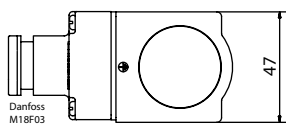
See under the required solenoid valve.

Dimension and weight



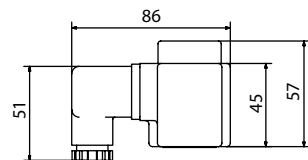
Terminal box 10 - 12 W

Weight 0.29 Kg / 0.6 lbs



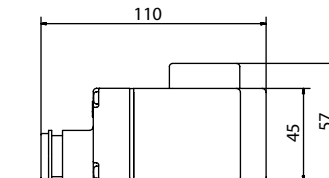
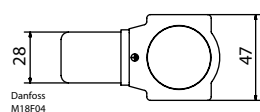
Cable 10 - 12 W

Weight 0.29 Kg / 0.6 lbs



DIN socket 10 - 12 W

Weight 0.24 Kg / 0.5 lbs



Terminal box 20 W

Weight 0.55 Kg / 1.2 lbs

