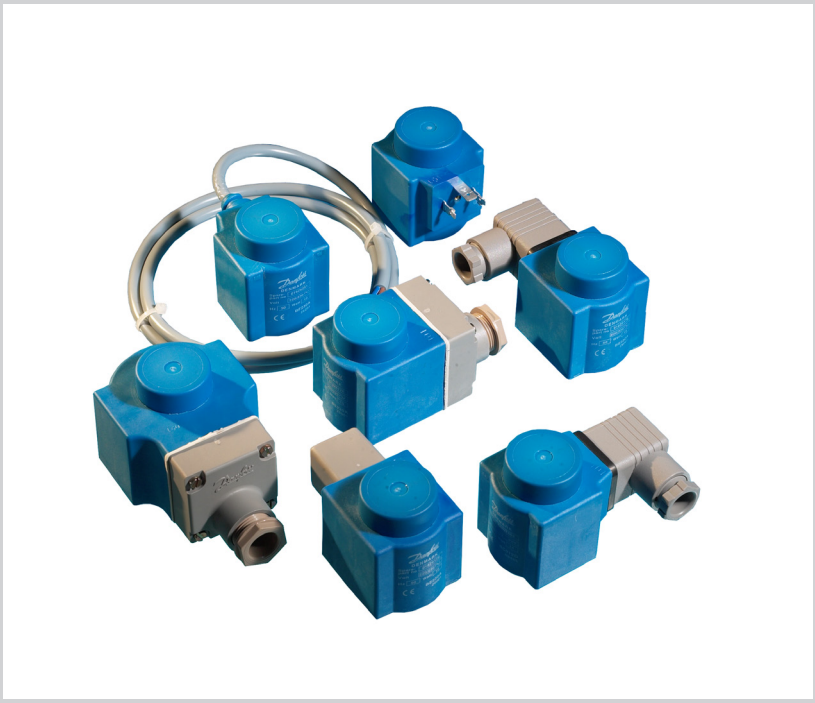
Data sheet

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.

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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 mm^2.

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 mm^2.
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.

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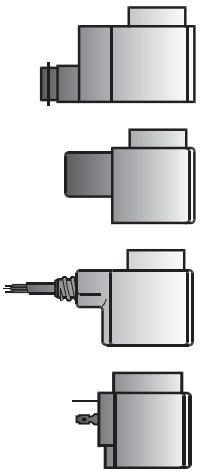
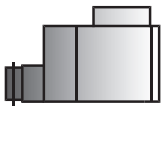
Ordering
Clip-on coils



Alternating current a.c.

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



Alternating current a.c.

Valve type	Voltage V	Frequency Hz	Code no. Terminal box	Power consumption
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 sufficent to change the coil unit itself. Therefore, order coil with DIN plugs and protective cap.

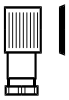
Ordering *(Continued)*

Valve type	Voltage V	Code no. Terminal box IP 67	Power consumption
Direct current d.c.			Coil type I
EVR 2 – 15 (NC) EVR 25 – 40 (NC/NO) EVR 6 – 15 (NO) EVRC 10 – 15 EVRA 3 – 15 (NC) EVRA 25 – 40 (NC) EVRAT 10 – 15 (NC) EVRS / EVRST 3 – 15 EVM (NC/NO)	12	**018F6856**	20 W
	24	**018F6857**	
	48	**018F6859**	
	110	**018F6860**	
	115	**018F6861**	
	220	**018F6851**	
Direct current d.c.			Coil type II
EVR 20 – 22 (NC/NO) EVRC 20 EVRA 20 EVRAT 20 EVRST 20	12	**018F6886**	20 W
	24	**018F6887**	
	48	**018F6889**	
	110	**018F6890**	
	220	**018F6881**	

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

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

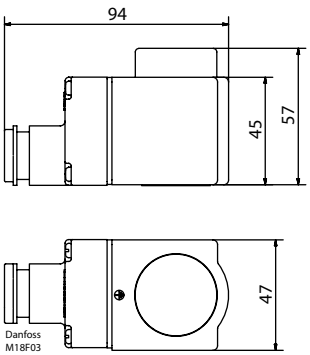
Accessories



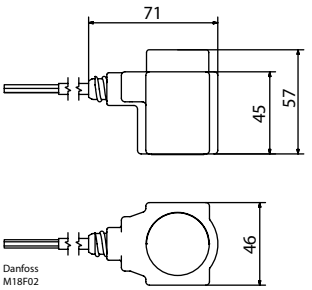
Description	Code no.
DIN socket	**042N0156**
Terminal box with build-in light emmiting indicator diode for solenoid valves	**018Z0089**

Dimensions and weights
See under the required solenoid valve.

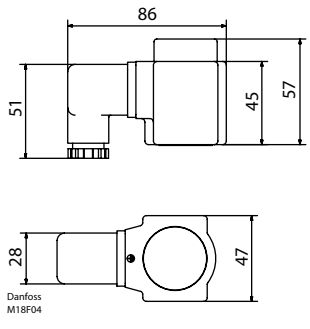
Dimension and weight



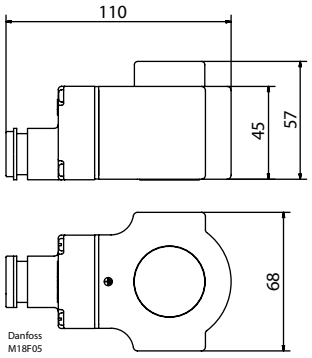
Terminal box 10 - 12 W
Weight 0.29 Kg / 0.6 lbs



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

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