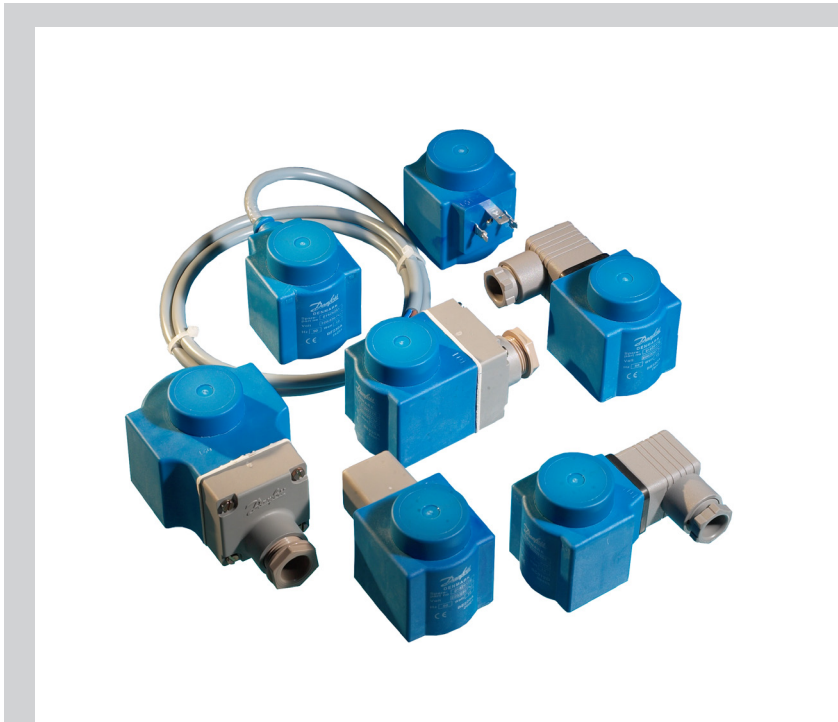


Data sheet

# Solenoid coils



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.

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**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<sup>2</sup>.

*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<sup>2</sup>.

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

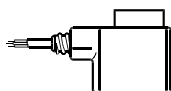
*DIN socket*

(to DIN 43650)

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

**Ordering**

Solenoid coil with 1m 3-core cable IP67



Valve type	Power consumption	Coil type	Voltage [V]	Frequency [Hz]	Code no.
EVR 2 to 40 (NC) EVR 6 to 22 (NO) EVRH 10 to 40 EVRC EVRA EVRAT EVRSE/EVRST EVM (NC)	Holding: 10 W/21 VA Inrush: 44 VA	a.c.	24	50	<b>018F6257</b>
		a.c.	220/230	50	<b>018F6251</b>
		a.c.	240	50	<b>018F6252</b>
		a.c.	380/400	50	<b>018F6253</b>
		a.c.	24	60	<b>018F6265</b>
		a.c.	115	60	<b>018F6260</b>
		a.c.	220	60	<b>018F6264</b>
		a.c.	110	50/60	<b>018F6280</b>
		a.c.	220/230	50/60	<b>018F6282</b>

Solenoid coil with terminal box IP67

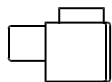


Valve type	Power consumption	Coil type	Voltage [V]	Frequency [Hz]	Code no.
EVR 2 to 40 (NC) EVR 6 to 22 (NO) EVRH 10 to 40 EVRC EVRA EVRAT EVRSE/EVRST EVM (NC)	Holding: 10 W/ 21 VA Inrush: 44 VA	a.c.	12	50	<b>018F6706</b>
		a.c.	24	50	<b>018F6707</b>
		a.c.	42	50	<b>018F6708</b>
		a.c.	48	50	<b>018F6709</b>
		a.c.	115	50	<b>018F6711</b>
		a.c.	220/230	50	<b>018F6701</b>
		a.c.	240	50	<b>018F6702</b>
		a.c.	380/400	50	<b>018F6703</b>
		a.c.	420	50	<b>018F6704</b>
		a.c.	24	60	<b>018F6715</b>
		a.c.	115	60	<b>018F6710</b>
		a.c.	220	60	<b>018F6714</b>
		a.c.	240	60	<b>018F6713</b>
		a.c.	110	50/60	<b>018F6730</b>
a.c.	220/230	50/60	<b>018F6732</b>		
EVR 3 to 40 EVRC EVRA EVRAT EVRSE/EVRST EVM (NC/NO)	Holding: 12 W/ 26 VA Inrush: 55 VA	a.c.	24	50	<b>018F6807</b>
		a.c.	48	50	<b>018F6809</b>
		a.c.	110	50	<b>018F6811</b>
		a.c.	220/230	50	<b>018F6801</b>
		a.c.	240	50	<b>018F6802</b>
		a.c.	380/400	50	<b>018F6803</b>
		a.c.	24	60	<b>018F6815</b>
		a.c.	110	60	<b>018F6813</b>
a.c.	220	60	<b>018F6814</b>		
EVR 2 to 15 (NC) EVR 25 to 40 (NC/NO) EVR 6 to 15 (NO) EVRC 10 to 15 EVRA 3 to 15 (NC) EVRA 25 to 40 (NC) EVRAT 10 to 15 (NC) EVRSE/EVRST 3 to 15 EVM (NC/NO)	20 W	d.c.	12	50	<b>018F6856</b>
		d.c.	24	50	<b>018F6857</b>
		d.c.	48	50	<b>018F6859</b>
		d.c.	110	50	<b>018F6860</b>
		d.c.	115	50	<b>018F6861</b>
		d.c.	220	50	<b>018F6851</b>
EVR 20 to 22 (NC/NO) EVRC 20 EVRA 20 EVRAT 20 EVRST 20	20 W	d.c.	12	50	<b>018F6886</b>
		d.c.	24	50	<b>018F6887</b>
		d.c.	48	50	<b>018F6889</b>
		d.c.	110	60	<b>018F6890</b>
		d.c.	220	60	<b>018F6881</b>

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.

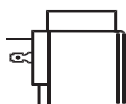
**Ordering**

Solenoid coil with DIN spade and protection cap IP20



Valve type	Power consumption	Coil type	Voltage [V]	Frequency [Hz]	Code no.
EVR 2 to 40 (NC) EVR 6 to 22 (NO) EVRH 10 to 40 EVRC EVRA EVRAT EVRSE/EVRST EVM (NC)	Holding: 10 W/21 VA Inrush: 44 VA	a.c.	24	50	<b>018F6182</b>
		a.c.	220/230	50	<b>018F6176</b>
		a.c.	240	50	<b>018F6177</b>
		a.c.	420	50	<b>018F6179</b>
		a.c.	115	60	<b>018F6185</b>
		a.c.	220	60	<b>018F6189</b>
		a.c.	110	50/60	<b>018F6192</b>
		a.c.	220/230	50/60	<b>018F6193</b>

Solenoid coil with DIN spade\*)



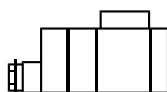
Valve type	Power consumption	Coil type	Voltage [V]	Frequency [Hz]	Code no.
EVR 2 to 40 (NC) EVR 6 to 22 (NO) EVRH 10 to 40 EVRC EVRA EVRAT EVRSE/EVRST EVM (NC)	Holding: 10 W/21 VA Inrush: 44 VA	a.c.	24	50	<b>018F7358</b>
		a.c.	115	50	<b>018F7361</b>
		a.c.	220/230	50	<b>018F7351</b>
		a.c.	240	50	<b>018F7352</b>
		a.c.	110	50/60	<b>018F7360</b>
		a.c.	220/230	50/60	<b>018F7363</b>

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.

\*) Can only be used with DIN plug.

Special solenoid coil with terminal box IP67



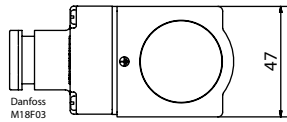
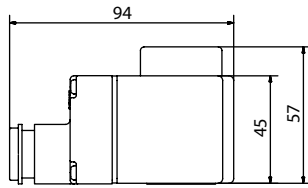
Valve type	Power consumption	Coil type	Voltage [V]	Frequency [Hz]	Code no.
EVR 2 to 40 (NC) EVR 6 to 22 (NO) EVRH 4 to 40 EVRC/EVRA/EVRAT/ EVRSE/EVRST/EVM (NC)	Holding: 20 W/ 45 VA Inrush: 65 VA	a.c.	24	50	<b>018F6901 <sup>1)</sup></b>
		a.c.	24	60	<b>018F6902 <sup>1)</sup></b>
		a.c.	24	50	<b>018F6905 <sup>1)</sup></b>

<sup>1)</sup> Recommended use for EVRH with high MOPD (38 bar).

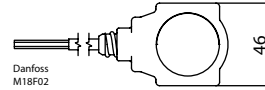
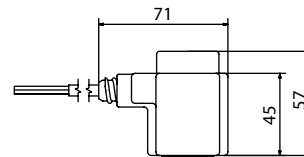
Terminal box with LED light indicator

Terminal box	With built-in light emitting indicator diode for solenoid valves (only for a.c.)	<b>018Z0089</b>
DIN plug		<b>042N0156</b>

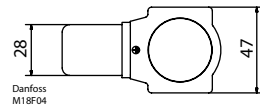
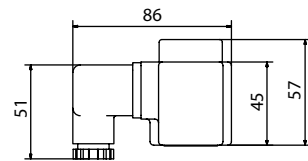
Dimension and weight



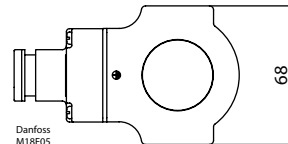
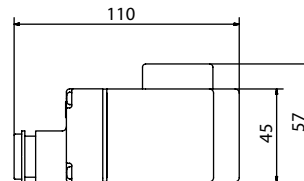
**Terminal box 10 - 12 W**  
Weight 0.29 Kg / 0.6 lbs



**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