

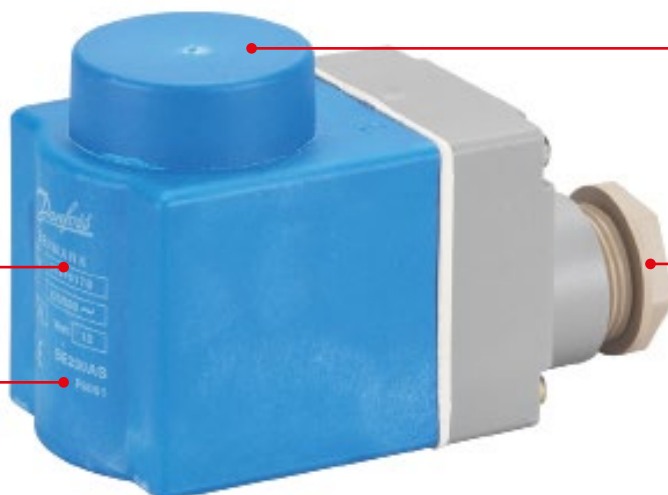
Solenoid coils

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 Solenoid coils



Clip-on system for easy and fast mounting and demounting

Terminal box, DIN plug or cable for flexible electrical installation

Many voltage and frequency combinations for flexible installation worldwide

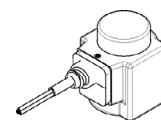
Many power versions for high MOPD performance on different valve types

Facts

- Encapsulated coils with long operating life, even under extreme conditions
- Standard coils for AC or DC
- 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
- Coil version for max. opening differential pressure (MOPD) of up to 38 bar.
- Coils can be fitted without the use of tools.
- ATEX approved coil version for use in EX zone 2

Technical data and ordering

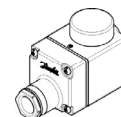
BF solenoid coil with 1m 3-core cable IP67



Ordering

Type	Valve type	Tambient [°C]	Supply voltage [V]	Voltage variation [%]	Frequency [Hz]	Power consumption		Code no.
						[W]	[VA]	
BF024AS	EVR 2 – EVR 40 (NC) EVR 6 – EVR 22 (NO) EVRH 10 – EVR 40 EVRC EVRA EVRAT EVRS / EVRST EVM (NC)	-40T80	24	-15, +10	50	12	20	018F6257
BF230AS		-40T80	230	-15, +10	50	12	22	018F6251
BF230AS		-40T80	220	-15, +10	50	11	20	018F6251
BF240AS		-40T80	240	-15, +10	50	11	19	018F6252
BF400AS		-40T80	380 / 400	±10	50	10	21	018F6253
BF024BS		-40T80	24	-15, +10	60	14	25	018F6265
BF115CS		-40T80	115	-15, +10	60	13	22	018F6260
BF115CS		-40T80	100	-15, +10	50	11	19	018F6260
BF220BS		-40T80	220	-15, +10	60	14	23	018F6264
BF110CS		-40T50	110	±10	50	15	29	018F6280
BF110CS		-40T50	110	±10	60	13	23	018F6280
BF230CS		-40T50	220 – 230	±10	50	16	31	018F6282
BF230CS		-40T50	220 - 230	±10	60	14	24	018F6282

BE solenoid coil with terminal box IP67



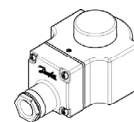
Ordering

Type	Valve type	Tambient [°C]	Supply voltage [V]	Voltage variation [%]	Frequency [Hz]	Power consumption		Code no.
						[W]	[VA]	
BE012AS	EVR 2 – EVR 40 (NC) EVR 6 – EVR 22 (NO) EVRH 10 – EVRH 40 EVRC EVRA EVRAT EVRS / EVRST EVM (NC)	-40T80	12	-15, +10	50	10	18	018F6706
BE024AS		-40T80	24	-15, +10	50	12	21	018F6707
BE042AS		-40T80	42	-15, +10	50	10	21	018F6708
BE048AS		-40T80	48	-15, +10	50	10	21	018F6709
BE115AS		-40T80	115	-15, +10	50	11	19	018F6711
BE230AS		-40T80	230	-15, +10	50	12	22	018F6701
BE230AS		-40T80	220	-15, +10	50	11	19	018F6701
BE240AS		-40T80	240	-15, +10	50	11	19	018F6702
BE440CS		-40T80	380 – 400	-15, +10	50	13	23	018F6703
BE440CS		-40T80	440	-15, +10	60	14	24	018F6703
BE440AS		-40T80	420	-15, +10	50	11	21	018F6704
BE024BS		-40T80	24	-15, +10	60	14	25	018F6715
BE115CS		-40T80	100	-15, +10	50	11	19	018F6710
BE115CS		-40T80	115	-15, +10	60	13	22	018F6710
BE220BS		-40T80	220	-15, +10	60	13	23	018F6714
BE240CS		-40T80	200	-15, +10	50	11	20	018F6713
BE240CS		-40T80	240	-15, +10	60	15	25	018F6713
BE110CS		-40T50	110	±10	50	15	28	018F6730
BE110CS		-40T50	110	±10	60	13	22	018F6730
BE230CS		-40T50	220 - 230	±10	50	17	31	018F6732
BE230CS	-40T50	220 - 230	±10	60	14	24	018F6732	

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.

Technical data and ordering

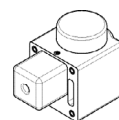


BG solenoid coil with terminal box IP67

Ordering

Type	Valve type	Tambient [°C]	Supply voltage [V]	Voltage variation [%]	Frequency [Hz]	Power consumption		Code no.
						[W]	[VA]	
BG024AS	EVR 3 – EVR 40 EVRC EVRA EVRAT EVRs/EVRST EVM (NC/NO)	-40T80	24	-15, +10	50	11	21	018F6807
BG048AS		-40T80	48	-15, +10	50	12	26	018F6809
BG110AS		-40T80	110	-15, +10	50	13	25	018F6811
BG230AS		-40T80	230	-15, +10	50	15	28	018F6801
BG230AS		-40T80	220	-15, +10	50	13	25	018F6801
BG240AS		-40T80	240	-15, +10	50	13	25	018F6802
BG400AS		-40T80	380 / 400	-15, +10	50	12	26	018F6803
BG024BS		-40T80	24	-15, +10	60	12	26	018F6815
BG110BS		-40T80	110	-15, +10	60	16	29	018F6813
BG220BS		-40T80	220	-15, +10	60	16	29	018F6814
BG012DS	EVR 2 – EVR 15 (NC) EVR 25 – EVR 40 (NC/NO)	-40T50	12	±10	DC	20	–	018F6856
BG024DS		-40T50	24	±10	DC	16	–	018F6857
BG048DS		-40T50	48	±10	DC	20	–	018F6859
BG110DS		-40T50	110	±10	DC	16	–	018F6860
BG115DS		-40T50	115	±10	DC	19	–	018F6861
BG220DS		-40T50	220	±10	DC	20	–	018F6851
BG012DS	EVR 20 to 22 (NC/NO) EVRC 20 EVRA 20 EVRAT 20 EVRST 20	-40T50	12	±10	DC	20	–	018F6886
BG024DS		-40T50	24	±10	DC	20	–	018F6887
BG048DS		-40T50	48	±10	DC	20	–	018F6889
BG110DS		-40T50	110	±10	DC	20	–	018F6890
BG220DS		-40T50	220	±10	DC	20	–	018F6881

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.



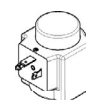
BE solenoid coil with DIN spade and protection cap IP20

Ordering

Type	Valve type	Tambient [°C]	Supply voltage [V]	Voltage variation [%]	Frequency [Hz]	Power consumption		Code no.
						[W]	[VA]	
BE024AS	EVR 2 – EVR 40 (NC) EVR 6 – EVR 22 (NO) EVRH 10 – EVRH 40 EVRC EVRA EVRAT EVRs/EVRST EVM (NC)	-40T80	24	-15, +10	50	12	21	018F6182
BE230AS		-40T80	230	-15, +10	50	12	22	018F6176
BE230AS		-40T80	220	-15, +10	50	11	19	018F6176
BE240AS		-40T80	240	-15, +10	50	11	19	018F6177
BE420AS		-40T80	420	-15, +10	50	10	21	018F6179
BE115CS		-40T80	100	-15, +10	50	11	19	018F6185
BE115CS		-40T80	115	-15, +10	60	13	22	018F6185
BE220BS		-40T80	220	-15, +10	50	13	23	018F6189
BE110CS		-40T50	110	±10	50	15	28	018F6192
BE110CS		-40T50	110	±10	60	13	22	018F6192
BE230CS		-40T50	220-230	±10	50	17	31	018F6193
BE230CS		-40T50	220-230	±10	60	14	24	018F6193

Technical data and ordering

BB solenoid coil with DIN spade *)



Ordering

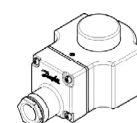
Type	Valve type	Tambient [°C]	Supply voltage [V]	Voltage variation [%]	Frequency [Hz]	Power consumption		Code no.
						[W]	[VA]	
BB024AS	EVR 2 – EVR 40 (NC) EVR 6 – EVR 22 (NO) EVRH 10 – EVRH 40 EVRC EVRA EVRAT EVRV/EVRST EVM (NC)	-40T80	24	-15, +10	50	11	19	018F7358
BB115AS		-40T80	115	-15, +10	50	11	19	018F7361
BB230AS		-40T80	220 - 230	-15, +10	50	11	19	018F7351
BB240AS		-40T80	240	-15, +10	50	11	19	018F7352
BB024BS		-40T80	24	-15, +10	60	14	23	018F7365
BB110CS		-40T50	110	±10	50	15	28	018F7360
BB110CS		-40T50	110	±10	60	13	22	018F7360
BB230CS		-40T50	220 - 230	±10	50	16	31	018F7363
BB230CS		-40T50	220 - 230	±10	60	13	24	018F7363

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.

BN special solenoid coil with terminal box IP67

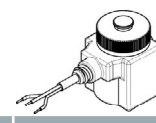


Ordering

Type	Valve type	Tambient [°C]	Supply voltage [V]	Voltage variation [%]	Frequency [Hz]	Power consumption		Code no.
						[W]	[VA]	
BN024AS	EVR 2 – EVR 40 (NC) EVR 6 – EVR 22 (NO) EVRH 4 – EVRH 40 EVRC/EVRA/EVRAT/ EVRV/EVRST/EVM (NC)	-40T50	24	-15, +10	50	24	49	018F6903 ¹⁾
BN024BS		-40T50	24	-15, +10	60	22	42	018F6906 ¹⁾
BN230AS		-40T50	230	-15, +10	50	19	43	018F6905 ¹⁾

¹⁾ Recommended use for EVRH with high MOPD (38 bar).

BV solenoid coils with ATEX (Zone 2) approval IP65



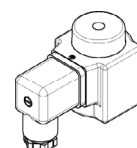
Ordering

Coil type	Coil for valve type	Power consumption	Frequency [Hz]	Voltage [V] AC	Code no.
					With 1 m cable
BV	EVR 2 – EVR 40 (NC) EVR 6 – EVR 22 (NO) EVRC EVRA / EVRAT EVRV / EVRST EVM (NC / NO)	Holding: 11 W 21 VA	50	24	018Z6120
			50	110	018Z6121
			50	230	018Z6122
		Inrush: 44 VA	50	240	018Z6123
			60	24	018Z6125
			60	230	018Z6127

Coil with DIN plug

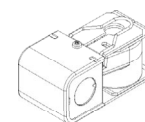
Ordering

Terminal box	With built-in light emitting indicator diode for solenoid valves (only for AC)	018Z0089
DIN plug	Enclosure IP65, EN 175301-803A	042N0156



Technical data and ordering

BJ coils - Junction box NEMA 2 ~ (UL listed) IP12 – IP32



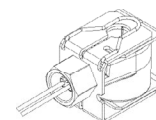
Ordering

Coil type	Valve type	Power consumption [W]	Frequency [Hz]	Voltage [V] AC	Wire length		Code no.
					[in]	[cm]	
BJ	AKV / EVR EVRH / EVRA EVRAT / EVRS EVRST / EVM EV220B 6-50 EV210B	14	50 / 60	24	7	18	018F4100
		16 15	50 / 60 60	110 120	7	18	018F4110
		14 17	60 50	208 – 240 230	7	18	018F4120
	AKVH / EVRH	16	60	120	7	18	018F4130
		16	60	208	7	18	018F4132
		16	60	240	7	18	018F4134

Permissible voltage variation
Alternating current (AC):
50 Hz and 60 Hz: -10% – 15%
50/60 Hz: +/- 10%

Insulation of coil wire
Class H according to IEC 85
Enclosure: IEC 60529
Ambient temperature:
-40 – 50 °C / -40 – 122 °F

BX coils - Conduit boss NEMA 4 ~ (UL listed) IP54



Ordering

Coil type	Valve type	Power consumption [W]	Frequency [Hz]	Voltage [V] AC	Wire length		Code no.
					[in]	[cm]	
BX	AKV / EVR EVRH / EVRA EVRAT / EVRS EVRST / EVM EV220B 6-50 EV210B EV215B EV225B EV250B	14	50 / 60	24	18	46	018F4102
		14	50 / 60	24	71	180	018F4103
		14	50 / 60	24	98	250	018F4104
		16 15	50 / 60 60	110 120	18	46	018F4112
					36	91	018F4113
					71	180	018F4114
		14 17	60 50	208 – 240 230	98	250	018F4115
					18	46	018F4122
					98	250	018F4123
	AKVH / EVRH	16	60	120	98	250	018F4131
		16	60	208	98	250	018F4133
		16	60	240	98	250	018F4135

Permissible voltage variation
Alternating current (AC):
50 Hz and 60 Hz: -10% – 15%
50/60 Hz: +/- 10%

Insulation of coil wire
Class H according to IEC 85
Enclosure: IEC 60529
Ambient temperature:
-40 – 50 °C / -40 – 122 °F