

Data Sheet

# Solenoid coil Type **BJ**, **BX**, **BT** and **BU**

The UL approved coils are available for Danfoss electric expansion and solenoid valves with UL approval



BJ and BX are a series of coils with UL approval. The coils are designed to be used with Danfoss electric expansion and solenoid valves.

BT and BU are dual-voltage versions with UL approval, designed to be used with Danfoss solenoid valves.

**Features:**

- High reliability and long lifetime.
- Easy mounting and dismantling.
- UL approved coil range.
- Covering standard voltage and frequency.
- Two electrical connection versions.

**Product specification**

**Technical data**

**Design**

In accordance with UL 429

**Power supply**

Alternating current (AC)

**Permissible voltage variation**

Alternating current (AC):

50 Hz and 60 Hz: -15% to +10%

50/60 Hz:  $\pm 10\%$

**Insulation of coil wire**

Class H according to IEC 85

**Connection**

Junction box or Conduit boss

**Enclosure, IEC 60529**

Junction box NEMA 2 ~ IP 12–32

Conduit boss NEMA 4 ~ IP 54

**Ambient temperature**

-40 – 122 °F (-40 – 50 °C)

**Humidity**

0 – 97% non-condensation condition

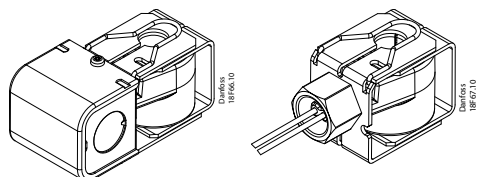
**Dimensions**

Table 1: Dimensions

Junction box Weight 0.860 lbs / 0.39 kg	Conduit boss Weight 0.717 lbs / 0.33 kg
<p>100mm (4 in.)</p> <p>52mm (2 in.)</p> <p>50mm (2 in.)</p> <p><small>Danfoss 18F07.11</small></p>	<p>74mm (3 in.)</p> <p>48mm (2 in.)</p> <p>41mm (1<sup>5</sup>/<sub>8</sub> in.)</p> <p><small>Danfoss 18F06.10</small></p>

## Ordering

### BJ and BX Coils



Valve type	Coil type	Wire length		Voltage [V AC]	Frequency [Hz]	Power consumption [W]	Code no.
		[in.]	[mm]				
<b>Junction box NEMA 2</b>							
AKV / EVR EVRH / EVRA EVRAT / EVRS EVRST / EVM EV220B 6-50 EV210B EV215B EV225B EV250B	BJ024CS	7	18	24	50 / 60	14	018F4100
	BJ120CS	7	18	110 120	50 / 60 60	16 15	018F4110
	BJ240CS	7	18	208 – 240 230	60 50	14 17	018F4120
	AKVH / EVRH	BJ120BS	7	18	120	60	16
	BJ208BS	7	18	208	60	16	018F4132
	BJ240BS	7	18	240	60	16	018F4134
<b>Conduit boss NEMA 4</b>							
AKV / EVR EVRH / EVRA EVRAT / EVRS EVRST / EVM EV220B 6-50 EV210B EV215B EV225B EV250B	BX024CS	18	46	24	50 / 60	14	018F4102
	BX024CS	71	180	24	50 / 60	14	018F4103
	BX024CS	98	250	24	50 / 60	14	018F4104
	BU240C	7	18	208 – 240	60	12	
	BX120CS	18	46	110 120	50 / 60 60	16 15	018F4112
	BX120CS	36	91				018F4113
	BX120CS	71	180				018F4114
	BX120CS	98	250				018F4115
	BX240CS	18	46	208 – 240 230	60 50	14 17	018F4122
	BX240CS	98	250				018F4123

### BT and BU Coils

Valve type	Coil type	Wire length		Voltage [V AC]	Frequency [Hz]	Power consumption [W]	Code no.
		[in.]	[mm]				
<b>Junction box NEMA 2</b>							
EVR	BT240C	7	18	110	50	12	018F4180
	BT240C	7	18	110 – 120	60	12	
	BT240C	7	18	230	50	12	
	BT240C	7	18	208 – 240	60	12	
<b>Conduit boss NEMA 4</b>							
EVR	BU240C	7	18	110	50	12	018F4181
	BU240C	7	18	110 – 120	60	12	
	BU240C	7	18	230	50	12	
	BU240C	7	18	208 – 240	60	12	

## Certificates, declarations, and approvals

The list contains all certificates, declarations, and approvals for this product type. Individual code number may have some or all of these approvals, and certain local approvals may not appear on the list.

Some approvals may change over time. You can check the most current status at [danfoss.com](https://danfoss.com) or contact your local Danfoss representative if you have any questions.

### **Certificates, declarations, and approvals**



For UL certificates, please refer to the UL website

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