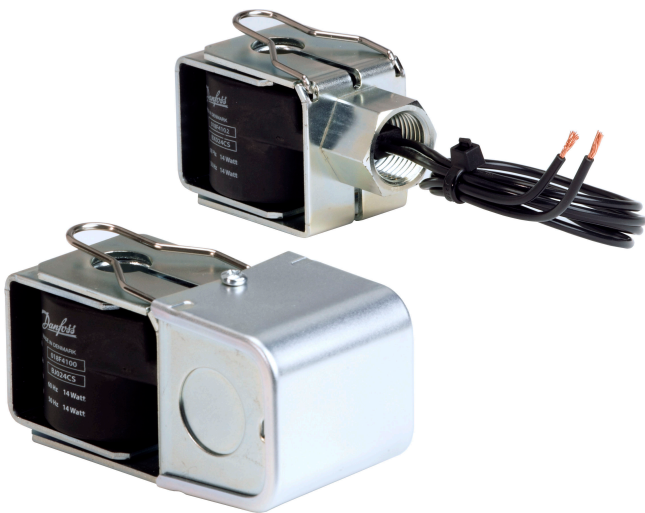


Data Sheet

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

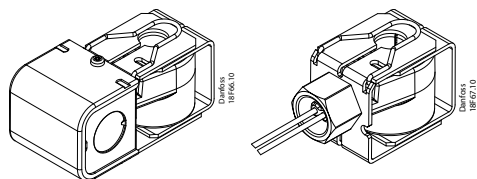
Dimensions

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 (1⁵/₈ 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]				
Junction box NEMA 2							
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
	BJ120BS	7	18	120	60	16	018F4130
AKVH / EVRH	BJ208BS	7	18	208	60	16	018F4132
	BJ240BS	7	18	240	60	16	018F4134
	Conduit boss NEMA 4						
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]				
Junction box NEMA 2							
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	
Conduit boss NEMA 4							
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 or contact your local Danfoss representative if you have any questions.

Certificates, declarations, and approvals



For UL certificates, please refer to the UL website

Online support

Danfoss offers a wide range of support along with our products, including digital product information, software, mobile apps, and expert guidance. See the possibilities below.

The Danfoss Product Store



The Danfoss Product Store is your one-stop shop for everything product related—no matter where you are in the world or what area of the cooling industry you work in. Get quick access to essential information like product specs, code numbers, technical documentation, certifications, accessories, and more.

Start browsing at store.danfoss.com.

Find technical documentation



Find the technical documentation you need to get your project up and running. Get direct access to our official collection of data sheets, certificates and declarations, manuals and guides, 3D models and drawings, case stories, brochures, and much more.

Start searching now at www.danfoss.com/en/service-and-support/documentation.

Danfoss Learning



Danfoss Learning is a free online learning platform. It features courses and materials specifically designed to help engineers, installers, service technicians, and wholesalers better understand the products, applications, industry topics, and trends that will help you do your job better.

Create your Danfoss Learning account for free at www.danfoss.com/en/service-and-support/learning.

Get local information and support



Local Danfoss websites are the main sources for help and information about our company and products. Find product availability, get the latest regional news, or connect with a nearby expert—all in your own language.

Find your local Danfoss website here: www.danfoss.com/en/choose-region.

Any information, including, but not limited to information on selection of product, its application or use, product design, weight, dimensions, capacity or any other technical data in product manuals, catalogues descriptions, advertisements, etc. and whether made available in writing, orally, electronically, online or via download, shall be considered informative, and is only binding if and to the extent, explicit reference is made in a quotation or order confirmation. Danfoss cannot accept any responsibility for possible errors in catalogues, brochures, videos and other material. Danfoss reserves the right to alter its products without notice. This also applies to products ordered but not delivered provided that such alterations can be made without changes to form, fit or function of the product. All trademarks in this material are property of Danfoss A/S or Danfoss group companies. Danfoss and the Danfoss logo are trademarks of Danfoss A/S. All rights reserved.