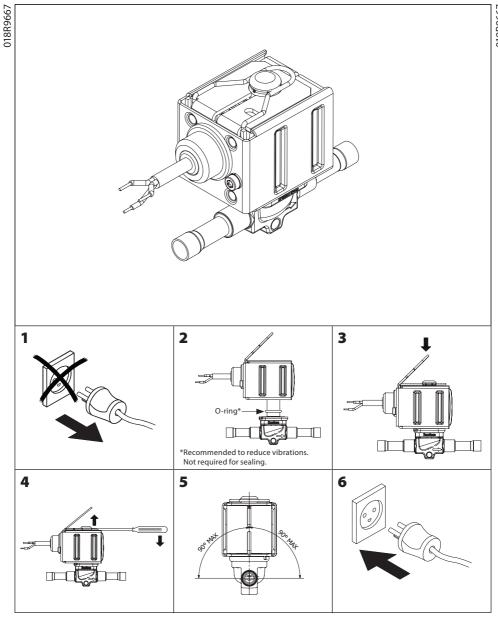
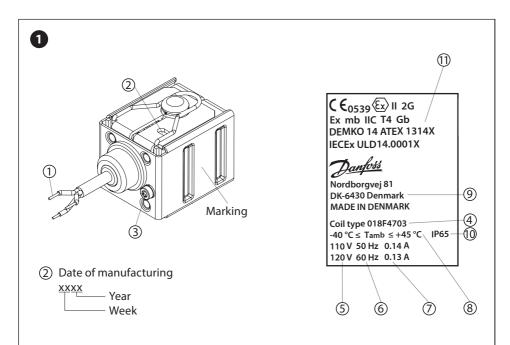


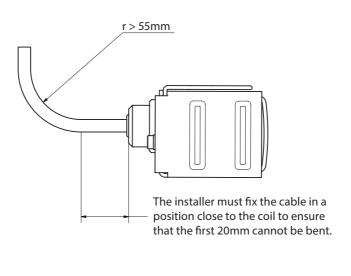
Installation guide Solenoid coil for control in potentially explosive areas Type 018F47xx series













ENGLISH

1 Identification

① Green/Yellow cord for earthing

② Week and date of manufacturing

③ External earth terminal

4 Code number

⑤ Voltage EMC 200

6 Frequency

O Current

8 Ambient temperature range

Country of manufacturing

IP degree

① Approval/Certificate number

Description and approval

Solenoid valve for control in potentially

explosive area.

Approval

EMC 2004/108/EF

ROHs 2002/95/EC

ATEX 2014/34/EU

Ex mb IIC T4 Gb

DEMKO 14 ATEX 1314X

IECEx ULD 14.0001X

The coil may only be installed with following valve combinations

• EVR NC 2-40

• EVR NO 2-40

• EVRH NC 10-40

• EVRH NO 10-40

• EVRA(T) 3-40

• EVRS(T) 3-20

EVRF-EVRP-EVRB

GPLX

EVM NC and EVM NO

EV210B

EV220B

EV250B

EV251B

EV222B

EV224B

EV227B

Application and specification

Nomi- nal vol- tage	Fre- quency	Nomi- nal current	Size of fuse ahead of coil	Ambient	Media	Permis- sible voltage varia-	
[V]	[Hz]	[A]	[mA]	temperature [°C]	temperature [°C]	tion [%]	Code no.
24	DC	0.43	500	$-40 \le T_{amb} \le +45$	-40 ≤ T _{media} ≤ +70	-10 - +5	018F4705
110 120	50 60	0.14 0.13	250	$-40 \le T_{amb} \le +45$	-40 ≤ T _{media} ≤ +70	-10 - +6	018F4703
230 240	50 60	0.09 0.08	150	-40 ≤ T _{amb} ≤ +45	-40 ≤ T _{media} ≤ +70	-10 - +6	018F4704

Humidity 0% < RH < 100% Polution degree 1+2+3 (EN60730-1) Connection 3-core flexible cable $3 \times 0.75 \text{mm}^2$ Over voltage category III (EN60730-1)

External earth core Minimum area > 4mm² Mode of operation Type 1 action (EN60730-1)

Weight exclude valve 0.4 kg exclude cable Type of control Incorporated control

(EN60730-1)

Protection degree IP65 (IEC 60529) Protection against electrical shock Class I (EN60730-1)



Safety instruction

All national safety regulations must be complied with in connection with installation, start-up and operation of Danfoss solenoid valve. Furthermore, the requirements of the declaration of conformity and national regulations for installation in explosion area. Disregarding such regulations involves a risk of serious personal injury or extensive material damage. Work in connection with the solenoid valve mentioned must be performed only by suitable qualified persons.

Basic safety and health requirements are fulfilled through compliance with:

- IEC60079-0, 6th Edition
- EN 60079-0: 2012 + A11: 2013
- IEC60079-18, 3rd Edition, EN60079-18: 2009

Installation, operation and maintenance

- Protect the coil against external impact.
- Protect the coil against direct sunlight and other ultraviolet sources.
- Disconnect the power before dismounting the coil.
- Always install a fuse in front of the coil.
 DIN 41571-2
 Rated breaking capacity 1500 A
 Medium Time lag
 Minimum voltage 250 V for a.c. and
 24 V for d.c.
- Install the coil and cable according to EN60079-14.
- The cable supplied with the solenoids must not be handled or flexed, and shall be protected against impact if the ambient temperature is below 0 °C.
- Installation and handling of the cable shall be done at temperature above 0 °C.
- The cable is only for fixed installation and the minimum bending diameter for fixed installation: r ≥ 55mm (②).

- The cable jacket material is PVC.
- The cable operating temperature range is -40 °C to + 90 °C.
- The product is provided with a yellow/green PE wire as well as an external earth terminal.
 These shall not be used simultaneously.

If the external earth connection is connected to earth or bonding system, the Y/G earth wire must be cut off, isolated and not connected. If the Y/G wire is connected to earth, the external earth terminal must be left without any connection. For the external earth terminal the size of the earth core shall be minimum 4mm² and the installer shall use a suitable method e.g. crimp terminal to ensure secureness of the external earth connection. The screw for external PE shall be mounted with 1.2Nm ±0.2.The external earth conductors shall be physically secured close to the coil connection to ensure that the conductors cannot be readily loosened or twisted.

- The end user must ensure the earthing of the coil is maintained.
- Non-detachable cords method Z repairing not allowed. If the coil failed, it must be replaced by a new coil.

In case of problems please contact: Danfoss A/S DK-6430 Nordborg Denmark