

Coils for solenoid valves



for industrial valves

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A-series, 9 mm system				
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BP (EEx mIIT4)	IP67		16 W	15

Compatibility

X = typical choice
 • = optional choice for specific applications

Solenoid valve type	Coi	l type						
2/2-way Compact	AB	AC	AK	AL	AM	AR		
EV210A	X ¹⁾	X ¹⁾	X ¹⁾	Х	Х	•		
EV220A	Х	Х	Х	Х	Х	•		
EV220A with filter				Х	Х			
2/2-way High Performance	ВА	BD	BB	BE	BG	BN	BO	BP
EV210B	Х	Х	Х	Х	Х	•	•	•
EV212B	Х	Х	Х	Х	•	•	•	•
EV220B 6-22	Х	Х	Х	Х	Х	•	•	•
EV220B 15-50	Х	Х	Х	Х	Х	•	•	•
EV220B 65-100		Х	Х	Х	Х	•	•	•
EV222B			Х	Х	•	•	•	•
EVI-U / EVSI-U	See	e datas	heet DK	ACV.P	D.200.0	3		
EV250B		Х	Х	Х	Х	•	•	•
3/2-way Compact	AB	AC	AK	AL	AM	AR		
EV310A	X ²⁾	Х	X ²⁾	Х	Х	•		
3/2-way High Performance	ВА	BD	BB	BE	BG	BN	во	BP
EV310B	Х	Х					•	•
Valves for distinct purposes								
EV215B / EV225B	See	specifi	c datas	heet				
EVSIS (UL approved)		-	c datas					
EV260B	See specific datasheet							

¹⁾ NC versions only ²⁾ NO versions only

Jantoss

4.5 W ac 5 W dc

Features



• Compact

- Windings of class H insulated wire moulded in the coil body

- Ambient temperature: Up to +50°C
 All usual ac and dc voltages
 IP 00 version with 6.3 x 0.8 mm spade connectors
- IP 65 version with mounted cable plug

Technical data

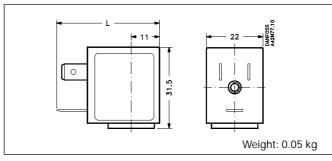
Design	In accordance with VDE 0580
Voltage tolerance	±10%
Power consumption. cut-in	ac: 9.5 VA
Power consumption. holding	ac: 6.3 VA. 4.5 W / dc: 5 W
Insulation of coil windings	Class H according to IEC 85
Connection	Spade connectors, 6.3 x 0.8 mm
Enclosure, IEC 529	IP 00 with spade connector; IP 65 with cable plug
Ambient temperature	Max. +50°C
Duty rating	Continuous

Ordering

	Coil type	Supply voltage	Code no. IP 00
	AB024C	24 V, 50/60 Hz	042N0802
4.5 W ac	AB110C	110 V, 50/60 Hz	042N0804
4.3 W aC	AB230C	220-230 V, 50/60 Hz	042N0800
	AB240C	240 V, 50/60 Hz	042N0801
	AB012D	12 V	042N0806
5 W dc	AB024D	24 V	042N0803

Contact Danfoss for delivery of coils for other voltages

Symbol	Description	Enclosure grade	Code no.
	Cable plug for 6.3 x 0.8 mm spade connectors	IP 65	042N0139



	L
Without cable plug	40 mm
With cable plug	56 mm

Danfoss

7.0 W ac 10 W dc

Features



- Compact
- Windings of class H insulated wire moulded in the coil body
- Ambient temperature: Up to +50°C
 IP 00 version with 6.3 x 0.8 mm spade connectors
- IP 65 version with mounted cable plug

Technical data

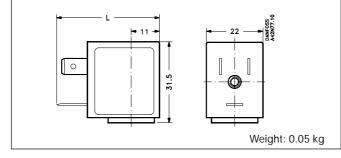
Design	In accordance with VDE 0580
Voltage tolerance	±10%
Power consumption. cut-in	ac: 15.7 VA
Power consumption. holding	ac: 10 VA. 7 W / dc: 10 W
Insulation of coil windings	Class H according to IEC 85
Connection	Spade connectors, 6.3 x 0.8 mm
Enclosure, IEC 529	IP 00 with spade connector; IP 65 with cable plug
Ambient temperature	Max. +50°C
Duty rating	Continuous

Ordering

	Coil type	Supply voltage	Code no. IP 00
	AC024C	24 V, 50/60 Hz	042N0823
7 W ac	AC110C	110 V, 50/60 Hz	042N0825
7 W ac	AC230C	220 - 230 V, 50/60 Hz	042N0821
	AC240C	240 V, 50/60 Hz	042N0822
	AC012D	12 V	042N0826
10 W dc	AC024D	24 V	042N0824

Contact Danfoss for delivery of coils for other voltages

,	Symbol	Description	Enclosure grade	Code no.
		Cable plug for 6.3 x 0.8 mm spade connectors	IP 65	042N0139



	L
Without cable plug	40 mm
With cable plug	56 mm

Jantoss

3.0 W dc

Features



• Compact

- Windings of class H insulated wire moulded in the coil body
- Ambient temperature: Up to +50°C
 Power consumption: Only 3 W dc
- IP 00 version with spade connector in accordance with DIN 43650, form A
- IP 20 version with protective cap
- IP 65 version with mounted cable plug

Technical data

Design	In accordance with VDE 0580
Voltage tolerance	±10%
Power consumption, holding	dc: 3 W
Insulation of coil windings	Class H according to IEC 85
Connection	Spade connector in accordance with DIN 43650 form A
Enclosure, IEC 529	IP 00: Spade connector; IP 20: Protective cap; IP 65: Cable plug
Ambient temperature	Max. +50°C
Duty rating	Continuous

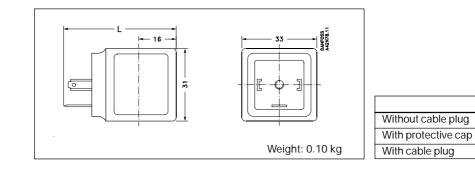
Ordering

	Coil	Supply	Code no.
	type	voltage	IP 00
3 W dc	AK024D	24 V	042N0844

Contact Danfoss for delivery of coils for other voltages

Symbol	Description	Enclosure grade	Code no.
	Protective cap (pack of 100 pcs.)	IP 20	018Z0282
	Cable plug according to DIN 43650-A Pg 11	IP 65	042N0156

Dimensions and weight



L 48 mm

64 mm

72 mm

4.0 W ac



Features



- Compact
- Windings of class H insulated wire moulded in the coil body

- Ambient temperature: Up to +50°C
 Power consumption: Only 4 W ac
 IP 00 version with spade connector in accordance with DIN 43650, form A • IP 20 version with protective cap
- IP 65 version with mounted cable plug

Technical data

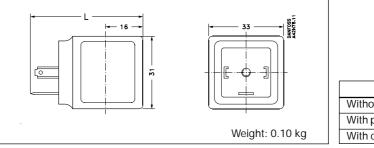
Design	In accordance with VDE 0580
Voltage tolerance	±10%
Power consumption cut-in	10 VA
Power consumption, holding	ac: 4 W
Insulation of coil windings	Class H according to IEC 85
Connection	Spade connector in accordance with DIN 43650 form A
Enclosure, IEC 529	IP 00: Spade connector; IP 20: Protective cap; IP 65: Cable plug
Ambient temperature	Max. +50°C
Duty rating	Continuous

Ordering

ſ		Coil type	Supply voltage	Code no. IP 00
[4 W ac	AL230C	230 V ac, 50/60 Hz	042N0864

Contact Danfoss for delivery of coils for other voltages

Symbol	Description	Enclosure grade	Code no.
	Protective cap (pack of 100 pcs.)	IP 20	018Z0282
	Cable plug according to DIN 43650-A Pg 11	IP 65	042N0156



	L
Without cable plug	48 mm
With protective cap	64 mm
With cable plug	72 mm





Features



• Compact

- Windings of class H insulated wire moulded in the coil body
- Ambient temperature: Up to +50°C
 All usual ac and dc voltages
- IP 00 version with spade connector in accordance with DIN 43650, form A
- IP 20 version with protective cap
- IP 65 version with mounted cable plug

Technical data

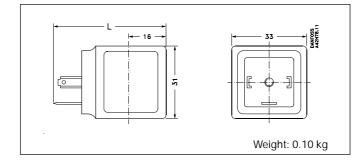
Design	In accordance with VDE 0580	
Voltage tolerance	±10%	
Power consumption, cut-in	ac: 22.5 VA	
Power consumption, holding	ac: 15 VA, 7.5 W / dc: 9.5 W	
Insulation of coil windings	Class H according to IEC 85	
Connection	Spade connector in accordance with DIN 43650 form A	
Enclosure, IEC 529	IP 00: Spade connector; IP 20: Protective cap; IP 65: Cable plug	
Ambient temperature	Max. +50°C	
Duty rating	Continuous	

Ordering

	Coil type	Supply voltage	Code no. IP 00
	AM024C	24 V, 50/60 Hz	042N0842
7.5 W ac	AM110C	110 V, 50/60 Hz	042N0845
7.5 W ac	AM230C	220-230 V, 50/60 Hz	042N0840
	AM240C	240 V, 50/60 Hz	042N0841
	AM012D	12 V	042N0848
9.5 W dc	AM024D	24 V	042N0843

Contact Danfoss for delivery of coils for other voltages

Symbol	Description	Enclosure grade	Code no.
	Protective cap (pack of 100 pcs.)	IP 20	018Z0282
	Cable plug according to DIN 43650-A Pg 11	IP 65	042N0156



	L
Without cable plug	48 mm
With protective cap	64 mm
With cable plug	72 mm

lanfoss

6 W ac 4.8 W dc, 7 W dc

Features



- Compact
- The coils are suitable for use in installations where flammable liquids and gases are produced, transported or tapped
- Approvals for use in Zone 1 according to Directive 94/9/EC (ATEX 100A) EN50014 and EN50028
- Grade of enclosure IP 65 to IEC 529
 Supplied with 5.5 m moulded-in 3-core cable

Technical data

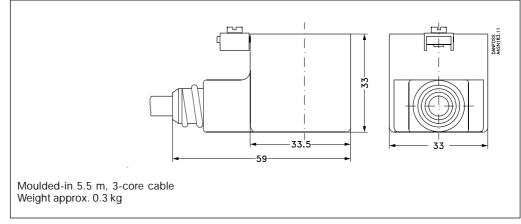
Voltage tolerance	± 10%	
Power consumption, holding	ac: 6 W, dc: 4.8 W and 7 W	
Insulation of coil windings	Class H according to IEC 85	
Connection	5.5 m 3-core cable	
Enclosure, IEC 529	IP 65	
Ambient temperature	Max. +55° C	
Media temperature	Max. +90° C	
Duty rating	Continuous	

Ordering

Conformity certification EX DEMKO 99ATEX 125689X

	Coil Type	Supply Voltage	Cable	Code no.
6 W ac	AR024C	24 V, 50/60 Hz	5.5 m	042N5525
6 W ac	AR230C	230 V, 50/60 Hz	5.5 m	042N5535
7 W dc	AR024D	24 V dc	5.5 m	042N5505
4.8 W dc	AR024D	24 V dc	5.5 m	042N5515

Dimensions



Special requirements:

The supply must be secured against a too high power consumption in case of a short circuit

	Coil type BA	and BD		Danfoss
IP 00	9 W/15 W ac 15 W dc			
Features	 Windings of class H insulated w in the coil body Ambient temperature: Up to +44 +50°C All usual ac and dc voltages IP 00 version with spade conner accordance with DIN 43650, for IP 20 version with protective car IP 65 version with mounted cab 		dy perature: Up to +40°C and nd dc voltages with spade connector in with DIN 43650, form A with protective cap	
lechnical data	Design	Design In accordance with VDE 0580		
	Voltage tolerance		220/380 V ac coils: +10%, -15%. 230/400 V ac coils: +6%, -10%. Other ac coils with NC valve: +10%, -15% Other ac coils with NO valve and all dc coils: ±10%	
	Power consumption, cut-in		BA ac: 39 VA BD ac: 54 VA	
	Power consumption, holding		ac: 19 VA, 9 W / 29 VA, 15 W dc:	15W
	Insulation of coil windings		Class H according to IEC 85	
	Connection		Spade connector in accordance with DI	
	Enclosure, IEC 529		IP 00 with spade connec. IP 20 with prot	ective cap; IP 65 with cable plug
	Ambient temperature		Max . +40°C for BA / Max. +50°C for BD	
	Duty rating		Continuous	
Ordering				
Jucing		Coil Type	Supply voltage	Code no. IP 00
		BA024A	24 V, 50 Hz	042N7508
		BA048A	48 V, 50 Hz	042N7510
		BA115A	115 V, 50 Hz	042N7512
		BA230A	220-230 V, 50 Hz	042N7501
	9 W ac	BA240A	240 V, 50 Hz	042N7502
		BA380A	380-400 V, 50 Hz	042N7504
		BA024B	24 V, 60 Hz	042N7520
		BA115B	115 V, 60 Hz	042N7522
		BA220B	220 V, 60 Hz	042N7523
		BD024A	24 V, 50 Hz	042N7597
	1		110 // 50 //-	042017500
	15 W ac	BD110A	110 V, 50 Hz	042N7599
	15 W ac	BD110A BD230A	230 V, 50 Hz	042N7599 042N7591

Contact Danfoss for delivery of coils for other voltages

BA024D

Symbol	Description	Enclosure grade	Code no.
	Protective cap (pack of 100 pcs.)	IP 20	018Z0282
	Cable plug according to DIN 43650-A Pg 11	IP 65	042N0156

24 V

Dimensions and weight

042N7551

15 W dc

IP 00, IP 20 IP 65 10 W ac 18 W dc



Features



- Clip-on version
- Windings of class H insulated wire moulded in the coil body
- Ambient temperature: Up to +80°C
- All usual ac and dc voltages
- IP 00 version with spade connector in accordance with DIN 43650, form A.
 IP 20 version with protective cap
- IP 65 version with mounted cable plug
- Can be fitted without tools
- Can only be removed with tool

Technical data

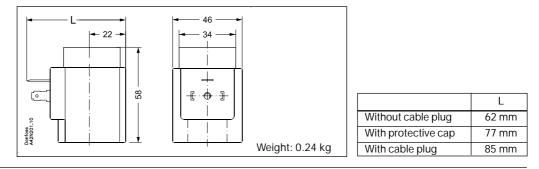
Design	In accordance with VDE 0580	
Voltage tolerance	220/380 V ac coils: $\pm 10\%$, $\pm 15\%$. 230/400 V ac coils: $\pm 6\%$, $\pm 10\%$. Other ac coils with NC valve: $\pm 10\%$, $\pm 15\%$ Other ac coils with NO valve and all dc coils: $\pm 10\%$	
Power consumption, cut-in	ac: 44 VA	
Power consumption, holding	ac: 21 VA, 10 W / dc: 18 W	
Insulation of coil windings	Class H according to IEC 85	
Connection Spade connector in accordance with DIN 43650 form A		
Enclosure, IEC 529	IP 00 with spade connec. IP 20 with protective cap; IP 65 with cable plug	
Ambient temperature	Max . +50/+80°C - see table below for details	
Duty rating	Continuous	

Ordering

	Coil	Ambient	Supply	Code no.
	Туре	Temperature	voltage	IP 00
	BB024AS	max. +80°C	24 V, 50 Hz	018F7358
	BB115AS	max. +80°C	115 V, 50 Hz	018F7361
	BB230AS	max. +80°C	220-230 V, 50 Hz	018F7351
10 W ac	BB240AS	max. +80°C	240 V, 50 Hz	018F7352
	BB380AS	max. +80°C	380-400 V, 50 Hz	018F7353
	BB024BS	max. +80°C	24 V, 60 Hz	018F7365
	BB110CS	max. +50°C	110 V, 50/60 Hz	018F7360
	BB230CS	max. +50°C	220-230 V, 50/60 Hz	018F7363
18 W dc	BB012DS	max. +50°C	12 V	018F7396
	BB024DS	max. +50°C	24 V	018F7397

Contact Danfoss for delivery of coils for other voltages

Symbol	Description	Enclosure grade	Code no.
D	Protective cap (pack of 100 pcs.)	IP 20	018Z0282
	Cable plug according to DIN 43650-A Pg 11	IP 65	042N0156



10 W ac 18 W dc



Features



- Clip-on version
- Encapsulated coils with long operation life
- Ambient temperature: Up to +80°C
- Suitable for moist environments
- All usual ac and dc voltages
- IP 67 version with terminal box
- IP 67 version 1 m 3-core flying lead
- Can be fitted without tools
- Can only be removed with tool

Technical data

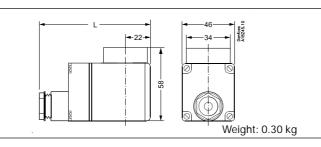
Design	In accordance with VDE 0580	
Voltage tolerance	220/380 V ac coils: +10%, -15%. 230/400 V ac coils: +6%, -10%. Other ac coils with NC valve: +10%, -15% Other ac coils with NO valve and all dc coils: ±10%	
Power consumption, cut-in	ac: 44 VA	
Power consumption, holding	ac: 21 VA, 10 W / dc: 18 W	
Insulation of coil windings	s Class H according to IEC 85	
Connection	Terminal box; Pg 13.5 – or 1 m 3-core flying lead	
Enclosure, IEC 529	IP 67	
Ambient temperature	Max . +50/+80°C, see table below for details	
Duty rating	Continuous	

Ordering

	Coil	Ambient	Supply	Code n	0.
	Туре	temperature	voltage	With terminal box	With cable
	BE024AS	max. +80°C	24 V, 50 Hz	018F6707	018F6257
	BE048AS	max. +80°C	48 V, 50 Hz	018F6709	018F6259
	BE115AS	max. +80°C	115 V, 50 Hz	018F6711	018F6261
	BE230AS	max. +80°C	220-230 V, 50 Hz	018F6701	018F6251
	BE240AS	max. +80°C	240 V, 50 Hz	018F6702	018F6252
10 W ac	BE380AS	max. +80°C	380-400, 50 Hz	018F6703	018F6253
	BE024BS	max. +80°C	24 V, 60 Hz	018F6715	018F6265
	BE115BS	max. +80°C	115 V, 60 Hz	018F6710	018F6260
	BE220BS	max. +80°C	220 V, 60 Hz	018F6714	018F6264
	BE110CS	max. +50°C	110 V, 50/60 Hz	018F6730	018F6280
	BE230CS	max. +50°C	220-230 V, 50/60 Hz	018F6732	018F6282
10.14	BE012DS	max. +50°C	12 V	018F6756	
18 W dc	BE024DS	max. +50°C	24 V	018F6757	

Contact Danfoss for delivery of coils for other voltages

	Application	Code no.
O-ring	Coil enclosures	018F0094
Terminal box with LED indication	48-220 V dc 24-250 V, 50/60 Hz	018Z0089



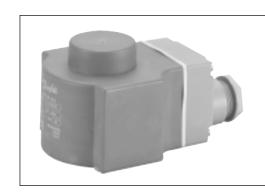
	L
With terminal box	94 mm
With 1 m cable	65 mm

12 W ac 20 W dc



Features

IP 67



- Clip-on version
- Encapsulated coils with long operation life
 Ambient temperature: Up to +80°C
 All usual ac and dc voltages
 Suitable for moist environments

- IP 67 version with terminal box
- Can be fitted without tools
- Can only be removed with tool

Techn	ical	data

Design	In accordance with VDE 0580	
Voltage tolerance 220/380 V ac coils: +10%, -15%. 230/400 V ac coils: +6%, -10% Other ac coils with NC valve: +10%, -15% Other ac coils with NO valve and all dc coils: ±10%		
Power consumption, cut-in	ac: 55 VA	
Power consumption, holding ac: 26 VA, 12 W / dc: 20 W		
Insulation of coil windings	tion of coil windings Class H according to IEC 85	
Connection	Terminal box; Pg 13.5	
Enclosure, IEC 529	IP 67	
Ambient temperature Max . +80°C Duty rating Continuous		

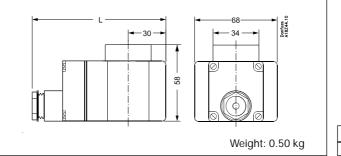
Ordering

	Coil Type	Supply voltage	Code no. IP 67
	BG024AS	24 V, 50 Hz	018F6807
	BG110AS	110 V, 50 Hz	018F6811
	BG230AS	220-230 V, 50 Hz	018F6801
	BG240AS	240 V, 50 Hz	018F6802
12 W ac	BG380AS	380-400 V, 50 Hz	018F6803
	BG024BS	24 V, 60 Hz	018F6815
	BG110BS	110 V, 60 Hz	018F6813
	BG220BS	220 V, 60 Hz	018F6814
20.14/-1-	BG012DS	12 V	018F6856
20 W dc	BG024DS	24 V	018F6857

Contact Danfoss for delivery of coils for other voltages

Description	Application	Code no.
O-ring	Coil enclosure	018F0094

Dimensions and weight



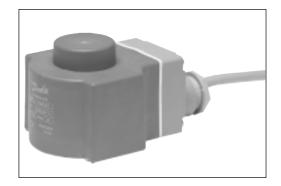
L With terminal box 112 mm

Dantoss

IP 67

20 W ac Hum-free coil

Features



- Clip-on version
- Windings of class H insulated wire moulded in the coil body
- For installations sensitive to noise, such as heating systems
- Ambient temperature: Up to +50°C
- Built-in rectifier
- Suitable for moist environments
- Available with 1 m 3-core flying lead
- Coil enclosure: IP 67

Technical data

Design	In accordance with VDE 0580	
Voltage tolerance	±10%	
Power consumption, cut-in	ac: 24 VA	
Power consumption, holding	ac: 26 VA	
Insulation of coil windings	Class H according to IEC 85	
Connection	1 m 3-core flying lead; Pg 13.5	
Enclosure, IEC 529	IP 67	
Ambient temperature	Max.+50°C	
Duty rating	Continuous	

Ordering

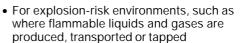
	Coil type	Supply voltage	Code no. IP 67
20 W ac	BN230CS	220-230 V, 50/60 Hz	018F7301
O-rings		Coil enclosure	018F0094

Dimensions and weight

 Image: state stat

	L
With 1 m cable	112 mm

10 W ac 10 W dc



- Approvals for use in Zone 1 according to Directive 94/9/EC (ATEX 100A) EN50014 and EN50028
- Medium temperature: Up to +90°C
 Ambient temperature: Up to +40°C
- IP 67 version with 5 m 3-core flying lead • Seal kit as accessory for extremely wet and aggressive environments (please contact Danfoss)

Technical data

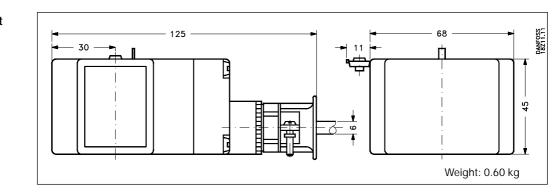
Voltage tolerance	±10%
Power consumption, holding	ac: 10 W / dc: 10 W
Insulation of coil windings	Class H according to IEC 85
Connection	5 m 3-core flying lead
Enclosure, IEC 529	IP 67
Ambient temperature	Max.+40°C
Duty rating	Continuous
Media temperature	Max . +90°C

Ordering

Conformity certification EX DEMKO 99ATEX 128981X

	Coil type	Supply Voltage	Code no.
	BO024C	24V, 50/60Hz	018Z6595
10 W ac	BO048C	48V, 50/60Hz	018Z6594
	BO110C	110V, 50/60Hz	018Z6593
	BO230C	230V, 50/60Hz	018Z6592
	BO240C	240V, 50/60Hz	018Z6591
10 W dc	BO24D	24V	018Z6596

	Description	Application	Code no.
10 6 0	Seal kit	Wet environment	018Z0090



Dimensions and weight



Features

IP 67

16 W dc



Features



- The coils are suitable for use in installations where flammable liquids and gases are produced, transported or tapped
- gases are produced, transported or tapped • Approved for use in Zone 1 according to Directive 94/9/EC (ATEX 100A) EN50014 and EN50028
- Grade of enclosure IP 67
- Supplied with 3 m moulded-in 3-core cable

Technical data

Voltage tolerance	± 10%
Power consumption, holding	dc: 16 W
Insulation of coil windings	Class H according to IEC 85
Connection	3 m 3-core cable
Enclosure, IEC 529	IP 67
Ambient temperature	Max. +55° C
Media temperature	Max. +90° C
Duty rating	Continuous

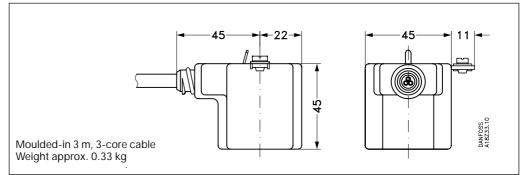
Ordering

Conformity certification EX DEMKO 99ATEX 125688X

	Coil Type	Supply Voltage	Connection	Code no.
16 W dc	BP024D	24 V dc	3 m	018Z6633

	Description	Application	Code no.
▏▝╙▐▋╙╙	Seal kit	Wet environment	018Z0090

Dimensions



Special requirements:

The supply must be secured against a too high power consumption in case of a short circuit

Danfoss

for solenoid valves



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