ENGINEERING
TOMORROW

Data sheet

Solenoid coils

Danfoss solenoid valves and coils are usually ordered separately to allow maximum flexibility, enabling you to select a valve and coil combination to best suit your needs.

The Danfoss coil program consists of both the easy-to-handle Clip-On system and traditional coils with threaded fastener.

Danfoss offer a wide range of application specific coils for e.g. steam or hazardous areas. The coils are available with approvals such as EN60730-1, EEx/ATEX and UL.

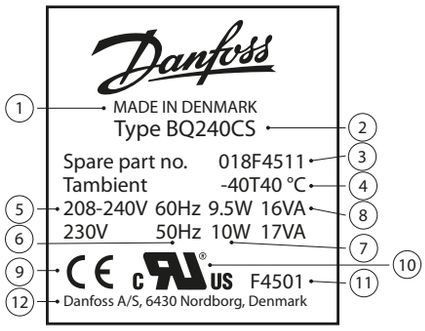
Features

- Encapsulated coils with long operating life, even under extreme conditions
- Standard coils for AC or DC
- Standard coils from 12 V to 400 V, 50, 60 or 50/60 Hz
- Coils can be fitted without use of tools
- Coils can only be removed with use of tools
- Standard coils available with:
  - Cable plugs
  - Industrial plugs
  - Terminal box
  - 3 core cable
  - Junction box
  - Conduit hub

Coil identification

Technical data is printed directly on the coil:

1. Country of origin
2. Coil type
3. Spare part no. (code no.)
4. Ambient temperature
   (-40T40 °C = Ambient temperature range: -40 °C to 40 °C)
5. Supply voltage [V]
6. Frequency [Hz]
7. Power consumption [W]
8. Power consumption [VA]
9. CE marking
10. UL recognized coil
11. Raw coil number (F4501=Raw coil number 018F4501)
12. Point of contact



BA, High performance coils

- Cable plug enclosure:
  - IP00 version with DIN 43650 A spade connectors
  - IP20 version with protective cap
  - IP65 version with cable plug
- Nut and snap fastener included
- In accordance with:
  - RoHS Directive 2011/65/EU
  - Low Voltage Directive 2014/35/EU
    - EN60730-1
    - EN60730-2-8

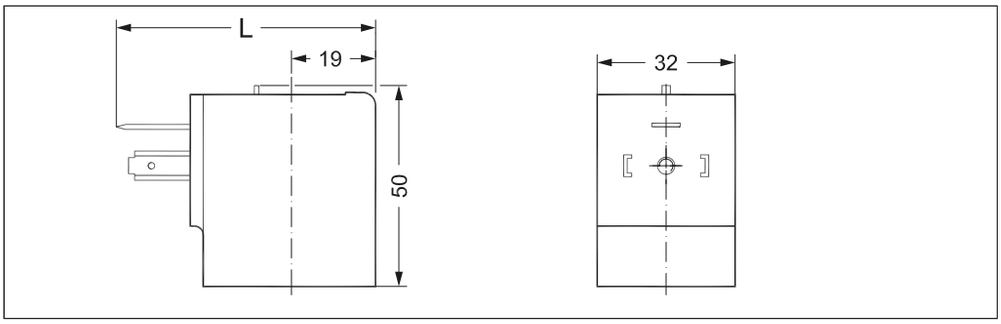
Type	Tambient [°C]	Supply voltage [V]	Voltage variation	Frequency [Hz]	Power consumption		Code no.
					[W]	[VA]	
BA024A	-40T40	24	-15%, +10%	50	8.5	17	**042N7508**
BA048A	-40T40	48	-15%, +10%	50	9.5	18	**042N7510**
BA115A	-40T40	115	-15%, +10%	50	9.0	18	**042N7512**
BA230A	-40T40	220 – 230	-15%, +6%	50	12	22	**042N7501**
BA240A	-40T40	240	-15%, +10%	50	10	20	**042N7502**
BA400A	-40T40	380 – 400	-15%, +6%	50	12	22	**042N7504**
BA024B	-40T40	24	-15%, +10%	60	9.5	19	**042N7520**
BA115B	-40T40	115	-15%, +10%	60	12	23	**042N7522**
BA220B	-40T40	220	-15%, +10%	60	11	21	**042N7523**
BA012D	-40T40	12	±10%	DC	14	–	**042N7550**
BA024D	-40T40	24	±10%	DC	14	–	**042N7551**

Technical data

Design	In accordance with VDE 0580
Insulation of coil windings	Class H according to IEC 85
Connection	Spade connector in accordance with DIN 43650 form A
Enclosure, IEC 529	IP00 with spade connector, IP20 with protective cap, IP65 with cable plug
Duty rating	Continuous
Plug type	Cable plug (042N0156)

Dimensions and weight

Type	L without cable plug [mm]	L with protective cap [mm]	L with cable plug [mm]	Weight [kg]
BA	54	71	79	0.16



BD, High performance coils

- Cable plug enclosure:
  - IP00 version with DIN 43650 A spade connectors
  - IP20 version with protective cap
  - IP65 version with cable plug
- Nut and snap fastener included
- In accordance with:
  - RoHS Directive 2011/65/EU
  - Low Voltage Directive 2014/35/EU
    - EN60730-1
    - EN60730-2-8

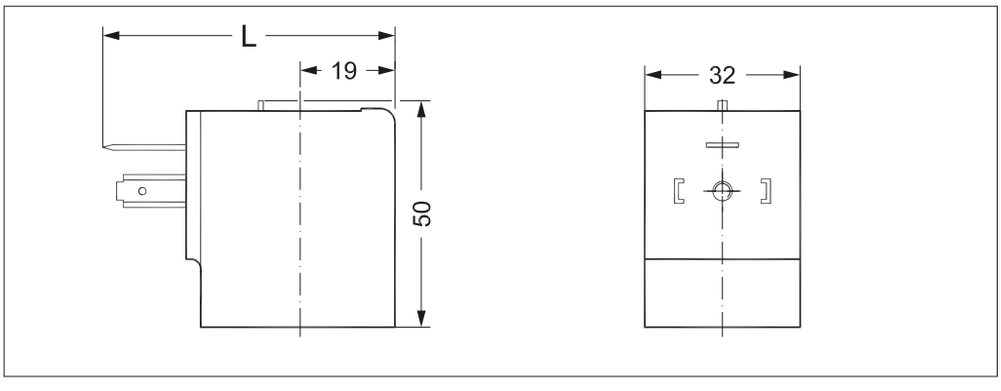
Type	Tambient [°C]	Supply voltage [V]	Voltage variation	Frequency [Hz]	Power consumption		Code no.
					[W]	[VA]	
BD024A	-40T40	24	-15%, +10%	50	15	29	**042N7597**
BD230A	-40T40	230	-10%, +6%	50	14	28	**042N7591**

Technical data

Design	In accordance with VDE 0580
Insulation of coil windings	Class H according to IEC 85
Connection	Spade connector in accordance with DIN 43650 form A
Enclosure, IEC 529	IP00 with spade connector, IP20 with protective cap, IP65 with cable plug
Duty rating	Continuous
Plug type	Cable plug (042N0156)

Dimensions and weight

Type	L without cable plug [mm]	L with protective cap [mm]	L with cable plug [mm]	Weight [kg]
BD	54	71	79	0.16



BB, High performance coils

- Enclosure:
  - IP00 version with DIN 43650 A spade connectors
  - IP20 version with protective cap
  - IP65 version with mounted cable plug
- In accordance with:
  - RoHS Directive 2011/65/EU
  - Low Voltage Directive 2014/35/EU
    - EN60730-1
    - EN60730-2-8

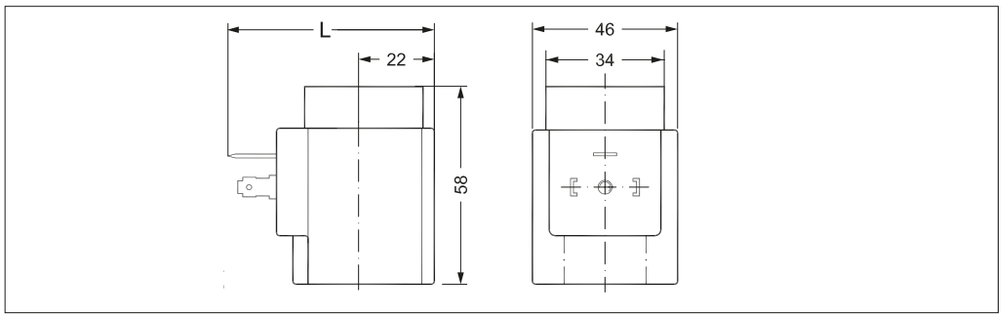
Type	Tambient [°C]	Supply voltage [V]	Voltage variation	Frequency [Hz]	Power consumption [W]	Power consumption [VA]	Code no.
BB024AS	-40T80	24	-15%, +10%	50	11	19	**018F7358**
BB115AS	-40T80	115	-15%, +10%	50	11	19	**018F7361**
BB230AS	-40T80	220 - 230	-15%, +10%	50	11	19	**018F7351**
BB240AS	-40T80	240	-15%, +10%	50	11	19	**018F7352**
BB440CS	-40T50	380 - 400	±10%	50	14	24	**018F7353**
		440	±10%	60	15	24	
BB024BS	-40T80	24	-15%, +10%	60	14	23	**018F7365**
BB110CS	-40T50	110	±10%	50	15	28	**018F7360**
		110	±10%	60	13	22	
BB230CS	-40T50	220 - 230	±10%	50	16	31	**018F7363**
		220 - 230	±10%	60	13	24	
BB012DS	-40T50	12	±10%	DC	13	–	**018F7396**
BB024DS	-40T50	24	±10%	DC	16	–	**018F7397**

Technical data

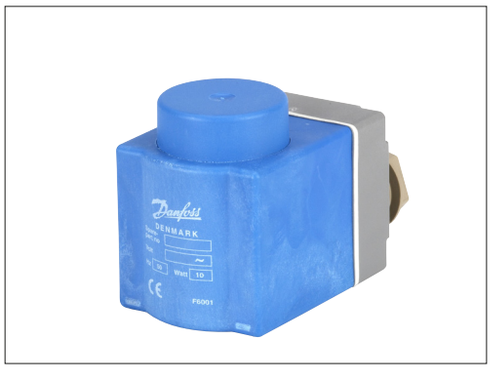
Design	In accordance with VDE 0580
Insulation of coil windings	Class H according to IEC 85
Connection	Spade connector in accordance with DIN 43650 form A
Enclosure, IEC 529	IP00 with spade connector, IP20 with protective cap, IP65 with cable plug
Duty rating	Continuous
Plug type	Cable plug (042N0156)

Dimensions and weight

Type	L without cable plug [mm]	L with protective cap [mm]	L with cable plug [mm]	Weight [kg]
BB	62	77	85	0.24



BE, High performance coils



- Enclosure:
  IP67 for moist environments with terminal box
- In accordance with:
  - RoHS Directive 2011/65/EU
  - Low Voltage Directive 2014/35/EU
    - EN60730-1
    - EN60730-2-8

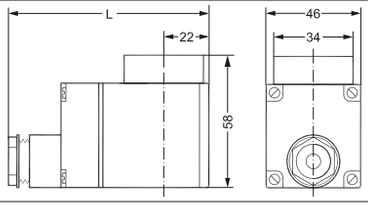
Type	Tambient [°C]	Supply voltage [V]	Voltage variation	Frequency [Hz]	Power consumption [W]	Power consumption [VA]	Code no.
BE024AS	-40T80	24	-15%, +10%	50	12	21	**018F6707**
BE048AS	-40T80	48	-15%, +10%	50	11	20	**018F6709**
BE115AS	-40T80	115	-15%, +10%	50	11	19	**018F6711**
BE230AS	-40T80	220 – 230	-15%, +10%	50	12	22	**018F6701**
BE240AS	-40T80	240	-15%, +10%	50	11	19	**018F6702**
BE440CS	-40T50	380 – 400	±10%	50	14	24	**018F6703**
		440	±10%	60	15	24	
BE024BS	-40T80	24	-15%, +10%	60	14	25	**018F6715**
BE115CS	-40T50	100	±10%	50	11	19	**018F6710**
		115	±10%	60	13	22	
BE220BS	-40T80	220	-15%, +10%	60	13	23	**018F6714**
BE110CS	-40T50	110	±10%	50	15	28	**018F6730**
	-40T50	110	±10%	60	13	22	
BE230CS	-40T50	220 - 230	±10%	50	17	31	**018F6732**
		220 - 230	±10%	60	14	24	
BE012DS	-40T50	12	±10%	DC	15	–	**018F6756**
BE024DS	-40T50	24	±10%	DC	13	–	**018F6757**

Technical data

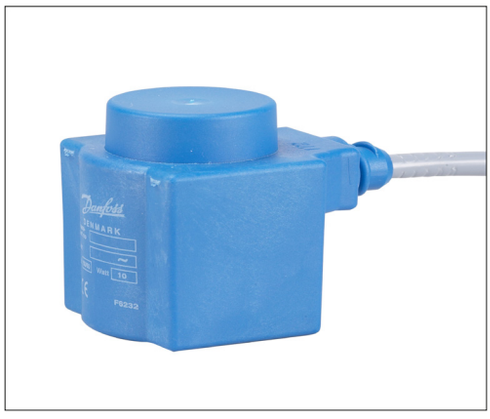
Design	In accordance with VDE 0580
Insulation of coil windings	Class H according to IEC 85
Connection	Terminal box
Enclosure, IEC 529	IP67
Duty rating	Continuous
Plug type	Terminal box

Dimensions and weight

Type	L with terminal box [mm]	L with 1m cable [mm]	Weight [kg]
BE	94	65	0.30



BF, High performance coils



- Enclosure:
  IP67 for moist environments with molded-in cable
- In accordance with:
  - RoHS Directive 2011/65/EU
  - Low Voltage Directive 2014/35/EU
    - EN60730-1
    - EN60730-2-8

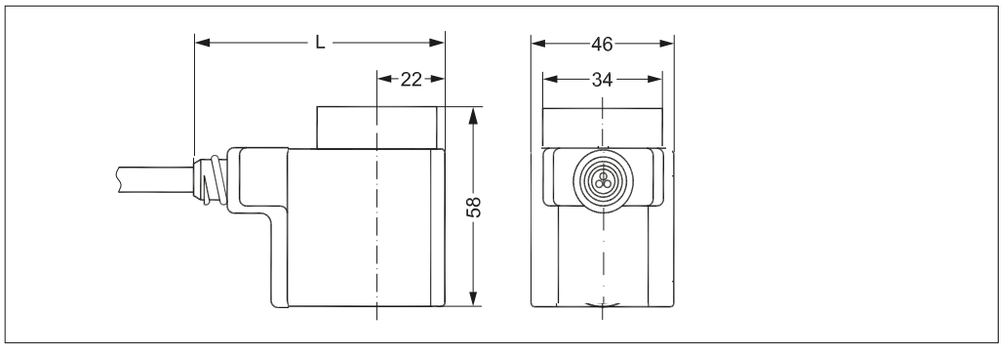
Type	Tambient [°C]	Supply voltage [V]	Voltage variation	Frequency [Hz]	Power consumption [W]	Power consumption [VA]	Code no.
BF230AS	-40T80	220 – 230	-15%, +10%	50	12	22	**018F6251**
BF240AS	-40T80	240	-15%, +10%	50	11	19	**018F6252**
BF400CS	-40T50	380 - 400	±10%	50	14	24	**018F6253**
		440	±10%	60	15	24	
BF024AS	-40T80	24	-15%, +10%	50	12	21	**018F6257**
BF115BS	-40T80	115	-15%, +10%	60	13	22	**018F6260**
BF220BS	-40T80	220	-15%, +10%	60	14	23	**018F6264**
BF024BS	-40T80	24	-15%, +10%	60	14	25	**018F6265**
BF110CS	-40T50	110	±10%	50	15	29	**018F6280**
		110	±10%	60	13	23	
BF230CS	-40T50	220 – 230	±10%	50	16	31	**018F6282**
		220 - 230	±10%	60	14	24	

Technical data

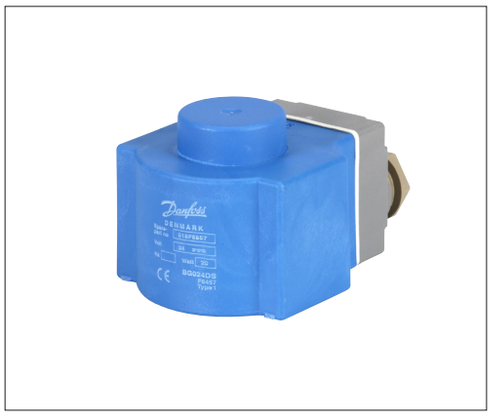
Design	In accordance with VDE 0580
Insulation of coil windings	Class H according to IEC 85
Connection	1 m 3-core flying lead
Enclosure, IEC 529	IP67
Duty rating	Continuous

Dimensions and weight

Type	L with 1m cable [mm]	Weight [kg]
BF	67	0.30



BG, High performance coils



- Enclosure:
  IP67 for moist environments with terminal box
- In accordance with:
  - RoHS Directive 2011/65/EU
  - Low Voltage Directive 2014/35/EU
    - EN60730-1
    - EN60730-2-8

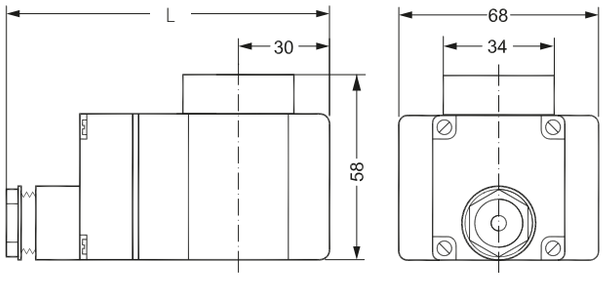
Type	Tambient [°C]	Supply voltage [V]	Voltage variation	Frequency [Hz]	Power consumption		Code no.
					[W]	[VA]	
BG024AS	-40T80	24	-15%, +10%	50	11	21	**018F6807**
BG110AS	-40T80	110	-15%, +10%	50	13	25	**018F6811**
BG230AS	-40T80	220 - 230	-15%, +10%	50	15	28	**018F6801**
BG240AS	-40T80	240	-15%, +10%	50	13	25	**018F6802**
BG400AS	-40T80	380 - 400	-15%, +10%	50	15	29	**018F6803**
BG024BS	-40T80	24	-15%, +10%	60	14	25	**018F6815**
BG110BS	-40T80	110	-15%, +10%	60	16	29	**018F6813**
BG220BS	-40T80	220	-15%, +10%	60	16	29	**018F6814**
BG012DS	-40T50	12	±10%	DC	20	–	**018F6856**
BG024DS	-40T50	24	±10%	DC	16	–	**018F6857**

Technical data

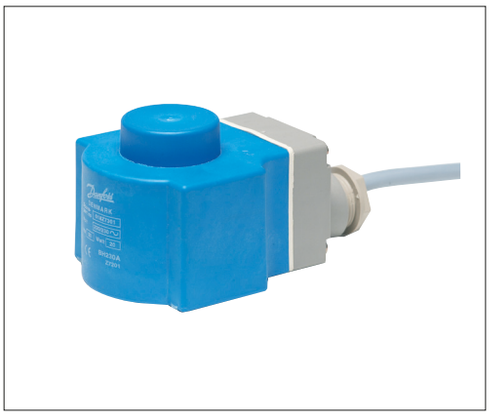
Design	In accordance with VDE 0580
Insulation of coil windings	Class H according to IEC 85
Connection	Terminal box
Enclosure, IEC 529	IP67
Duty rating	Continuous
Plug type	Terminal box

Dimensions and weight

Type	L with terminal box [mm]	Weight [kg]
BG	112	0.50



BN, High performance coils
Hum-free



- Hum-free
- Enclosure:
  IP67 for moist environments with flying lead
- In accordance with:
  - RoHS Directive 2011/65/EU
  - Low Voltage Directive 2014/35/EU
    - EN60730-1
    - EN60730-2-8

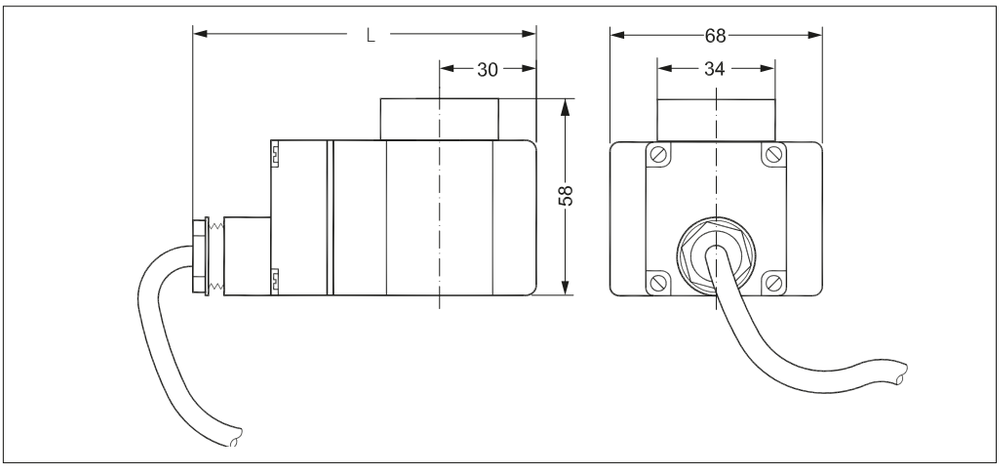
Type	Tambient [°C]	Supply voltage [V]	Voltage variation	Frequency [Hz]	Power consumption		Code no.
					[W]	[VA]	
BN230CS	-40T50	220 - 230	±10%	50	22	24	**018F7301**
		220 - 230	±10%	60	22	24	

Technical data

Design	In accordance with VDE 0580
Insulation of coil windings	Class H according to IEC 85
Connection	1 m 3-core flying lead
Enclosure, IEC 529	IP67
Duty rating	Continuous

Dimensions and weight

Type	L with 1m cable [mm]	Weight [kg]
BN	112	0.60



BN, High performance coils
Center boss

- Enclosure:
  - Center boss for mounting IP65 cable plug in accordance with DIN43650 form A (042N0156)
  - IP67 for moist environments with terminal box
- Used with EV215B, EV225B, and EV245B up to 160 °C low pressure steam and max. ambient temperature 40 °C (see additional information in the respective solenoid valve data sheets)
- In accordance with:
  - RoHS Directive 2011/65/EU
  - Low Voltage Directive 2014/35/EU
    - EN60730-1
    - EN60730-2-8
- Mounted with the solenoid valves EV210B, EV220B, EV215B and EV225B, the assembly is UL recognized

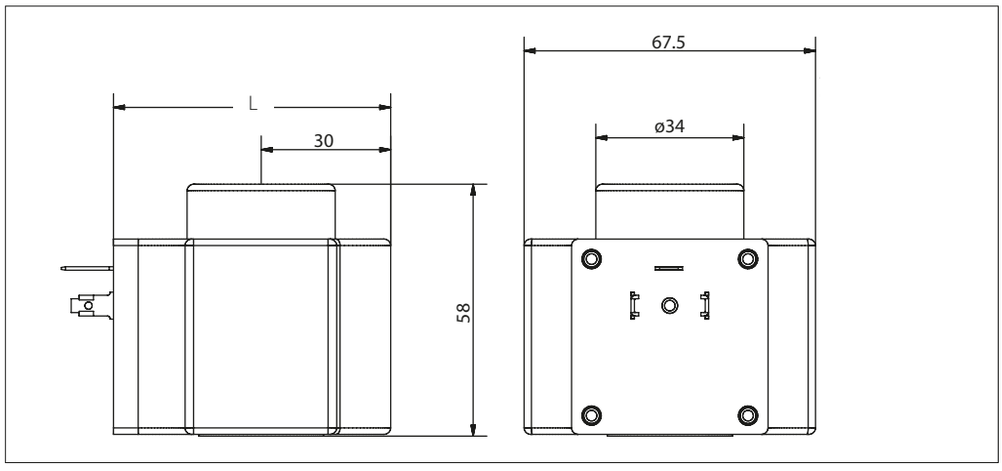
Type	Tambient [°C]	Supply voltage [V]	Voltage variation	Frequency [Hz]	Power consumption [W]	Power consumption [VA]	Approval	Code no.
BN024DS	-40T50	24	±10%	DC	20	–	c UL us	018F6968

Technical data

Design	In accordance with VDE 0580
Insulation of coil windings	Class H according to IEC 85
Connection	Cable plug in accordance with DIN43650 form A or terminal box
Enclosure, IEC 529	IP65, IP67
Duty rating	Continuous

Dimensions and weight

Type	L [mm]	Weight [kg]
BN	64	0.47



BO, High performance coils

- ATEX Zone 1
- Enclosure:
  IP67 seal kit for moist environment included
- Approved in accordance with
  - ATEX 2014/34/EU
    - Ex mb IIC T4 Gb
    - ITS 09 ATEX 16835X
- Media temperature: Up to 90 °C

Type	Tambient [°C]	Supply voltage [V]	Voltage variation	Frequency [Hz]	Power consumption [W]	Power consumption [VA]	Code no.
BO024C	-40T60	24	±10%	50 / 60	10	21	**018Z6595**
BO110C	-40T60	110	±10%	50 / 60	10	21	**018Z6593**
BO230C	-40T60	230	±10%	50 / 60	10	21	**018Z6592**
BO240C	-40T60	240	±10%	50 / 60	10	21	**018Z6591**
BO024D	-40T60	24	±10%	DC	10	–	**018Z6596**

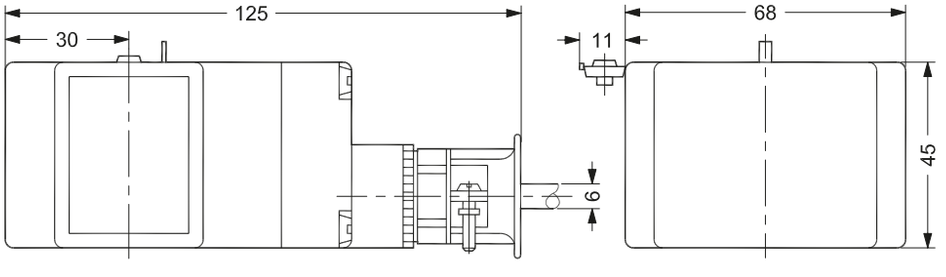
Technical data

Insulation of coil windings	Class H according to IEC 85
Connection	5 m 3 x 0.75 mm^2 flexible cord
Enclosure, IEC 529	IP67 including seal kit
Media temperature	-40 °C – +90 °C
Duty rating	Continuous
Humidity	0 – 100%
Pollution degree	3 (EN60730-1)
Impulse withstand voltage	2.5 kV (EN60730-1)

Accessory

Description	Application	Code no.
Seal kit (included as standard)	Wet environment (pollution degree 3)	**018Z0090**

Dimensions and weight



Weight : 0.60 kg

BJ, High performance coils
Junction box

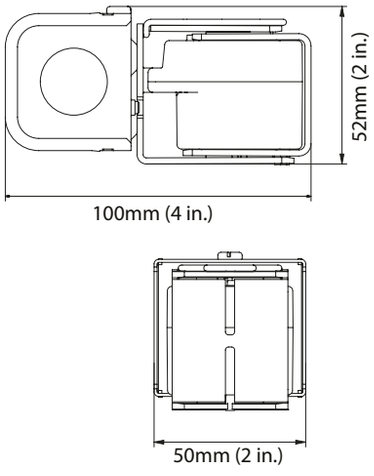
- Enclosure:
  IP30 / NEMA 2
- For UL listed valves (UL 429 and CSA)
- Ambient temperature:
  Up to 50 °C / 122 °F
- Media temperature:
  Up to 185 °C / 364 °F steam

Valve type	Coil type	Voltage tolerance	Supply voltage [V]	Frequency [Hz]	Power consumption [W]	Wire length		Code no.
						[in.]	[cm]	
EV220B 6-50 **EV210B** **EV215B** **EV225B** **EV250B**	BJ024CS	±10%	24	50 / 60	14	7	18	**018F4100**
	BJ120CS	±10%	110 120	50 / 60 60	16 15	7	18	**018F4110**
	BJ240CS	±10%	208 – 240 230	60 50	14 17	7	18	**018F4120**

Technical data

Design	In accordance with UL 429
Power consumption, cut in	49 VA
Insulation of coil windings	Class H according to IEC 85
Connection	Junction box
Enclosure, IEC 529	Junction box NEMA 2 ~ IP12-30
Ambient temperature	-40 – 50 °C / -40 – 122 °F

Dimensions and weight



Weight 0.860 lbs / 0.39 kg

BX, High performance coils
Conduit hub

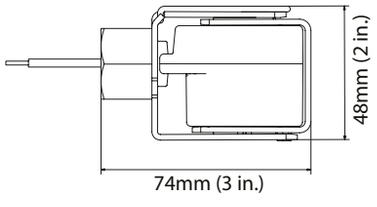
- Enclosure:
  IP54 / NEMA 4
- For UL listed valves (UL 429 and CSA)
- Ambient temperature:
  Up to 50 °C / 122 °F
- Media temperature:
  Up to 185 °C / 364 °F steam

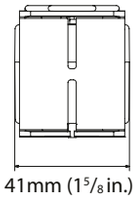
Valve type	Coil type	Voltage tolerance	Supply voltage [V]	Frequency [Hz]	Power consumption [W]	Wire length		Code no.
						[in.]	[cm]	
EV220B 6-50 EV210B EV215B EV225B EV250B	BX024CS	±10%	24	50 / 60	14	18	46	**018F4102**
	BX024CS	±10%	24	50 / 60	14	71	180	**018F4103**
	BX024CS	±10%	24	50 / 60	14	98	250	**018F4104**
	BX120CS	±10%	110 120	50 / 60 60	16 15	18	46	**018F4112**
	BX120CS	±10%				36	91	**018F4113**
	BX120CS	±10%				71	180	**018F4114**
	BX120CS	±10%				98	250	**018F4115**
	BX240CS	±10%	208 – 240 230	60 50	14 17	18	46	**018F4122**
	BX240CS	±10%				98	250	**018F4123**

Technical data

Design	In accordance with UL 429
Power consumption, cut in	49 VA
Insulation of coil windings	Class H according to IEC 85
Connection	Conduit hub
Enclosure, IEC 529	Conduit hub NEMA 4 ~ IP54
Ambient temperature	-40 – 50 °C / -40 – 122 °F

Dimensions and weight





Weight 0.717 lbs / 0.33 kg

BY, High performance coils

- Enclosure:
  Up to IP65 / NEMA 4
- For UL recognised valves
- In accordance with:
  - RoHS Directive 2011/65/EU
  - Low Voltage Directive 2014/35/EU
    - EN60730-1
    - EN60730-2-8

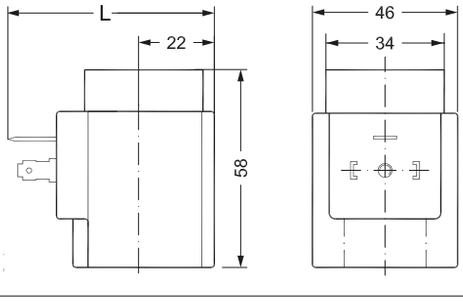
Type	Tambient [°C]	Supply voltage [V]	Voltage variation	Frequency [Hz]	Power consumption		Approval	Code no.
					[W]	[VA]		
BY024CS	-40T50	24	±10%	50	14	26		018F7655
		24	±10%	60	12	21		
BY240CS	-40T50	230	±10%	50	16	32		018F7658
		208 - 240	±10%	60	14	28		
BY120CS	-40T50	110	±10%	50	14	27		018F7663
		110 – 120	±10%	60	14	27		

Technical data

Design	In accordance with VDE 0580
Insulation of coil windings	Class H according to IEC 85
Connection	Spade connector in accordance with DIN 43650 form A
Enclosure, IEC 529	Up to IP65 / NEMA 4
Plug type	Cable plug (042N0156)

Dimensions and weight

Type	L without cable plug [mm]	L with protective cap [mm]	L with cable plug [mm]	Weight [kg]
BY	62	77	85	0.24



BQ, High performance coils

- Enclosure:
  Up to IP65 / NEMA 4
- Max. media temperature:
  185 °C steam
- For UL recognised valves
- In accordance with:
  - RoHS Directive 2011/65/EU
  - Low Voltage Directive 2014/35/EU
    - EN60730-1
    - EN60730-2-8

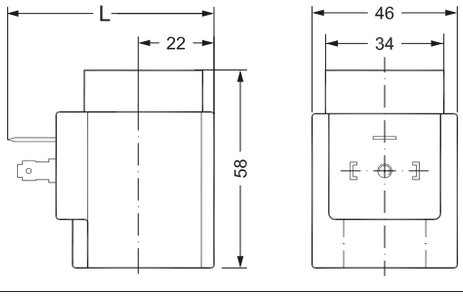
Type	Tambient [°C]	Supply voltage [V]	Voltage variation	Frequency [Hz]	Power consumption		Approval	Code no.
					[W]	[VA]		
BQ024CS	-40T40	24	-15%, +10%	50	10	17		**018F4517**
		24	-15%, +10%	60	9.0	16		
BQ120BS	-40T40	110/120	-15%, +6%	60	13.5	19		**018F4519**
BQ240CS	-40T40	230	-15%, +6%	50	10	17		**018F4511**
		208/240	-6%, +6%	60	9.5	16		

Technical data

Design	In accordance with VDE 0580
Insulation of coil windings	Class H according to IEC 85
Connection	Spade connector in accordance with DIN 43650 form A
Enclosure, IEC 529	Up to IP65 / NEMA 4
Plug type	Cable plug (042N0156)

Dimensions and weight

Type	L without cable plug [mm]	L with protective cap [mm]	L with cable plug [mm]	Weight [kg]
BQ	62	77	85	0.24



AM coil

- Cable plug enclosure:
  - IP00 version with DIN 43650 A spade connectors
  - IP20 version with protective cap
  - IP65 version with cable plug
- In accordance with:
  - RoHS Directive 2011/65/EU
  - Low Voltage Directive 2014/35/EU
    - EN60730-1
    - EN60730-2-8

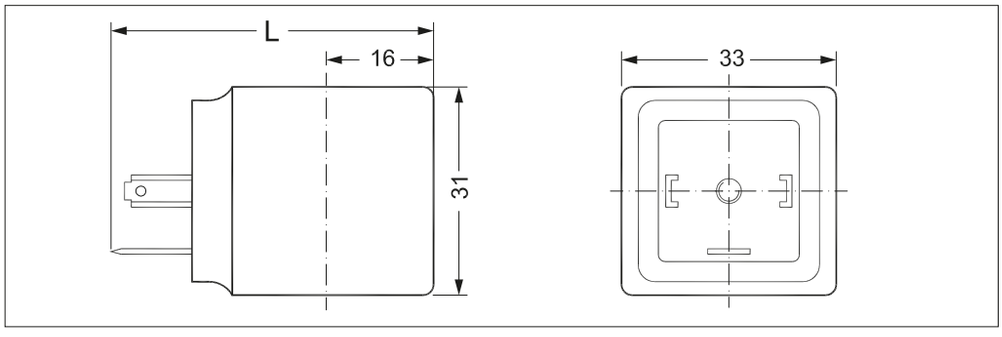
Type	Tambient [°C]	Supply voltage [V]	Voltage variation	Frequency [Hz]	Power consumption [W]	Power consumption [VA]	Code no.
AM024C	-40T50	24	±10%	60	5.5	11	**042N0842**
		24	±10%	50	7.5	14	
AM110C	-40T50	110	±10%	60	5.5	11	**042N0845**
		110	±10%	50	7.5	14	
AM230C	-40T50	230	±10%	60	6.5	13	**042N0840**
		230	±10%	50	9.5	18	
AM240C	-40T50	240	±10%	60	5.5	11	**042N0841**
		240	±10%	50	7.5	15	
AM012D	-40T50	12	±10%	DC	8.5	–	**042N0848**
AM024D	-40T50	24	±10%	DC	9.0	–	**042N0843**

Technical data

Design	In accordance with VDE 0580
Power consumption, cut in	22.5 VA AC coils only
Insulation of coil windings	Class H according to IEC 85
Connection	Spade connector in accordance with DIN 43650 form A
Enclosure, IEC 529	IP00 with spade connector, IP65 with cable plug
Duty rating	Continuous
Plug type	Cable plug (042N0156)

Dimensions and weight

Type	L without cable plug [mm]	L with cable plug [mm]	L with protective cap [mm]	Weight [kg]
AM	48	72	64	0.10



AP, Compact UL recognised coils

- Cable plug enclosure:
  - IP00 version with DIN 43650 A spade connectors
  - IP20 version with protective cap
  - IP65 version with cable plug
- For UL recognised valves
- Ambient temperature:
  Up to 50 °C / 122 °F
- In accordance with:
  - RoHS Directive 2011/65/EU
  - Low Voltage Directive 2014/35/EU
    - EN60730-1
    - EN60730-2-8

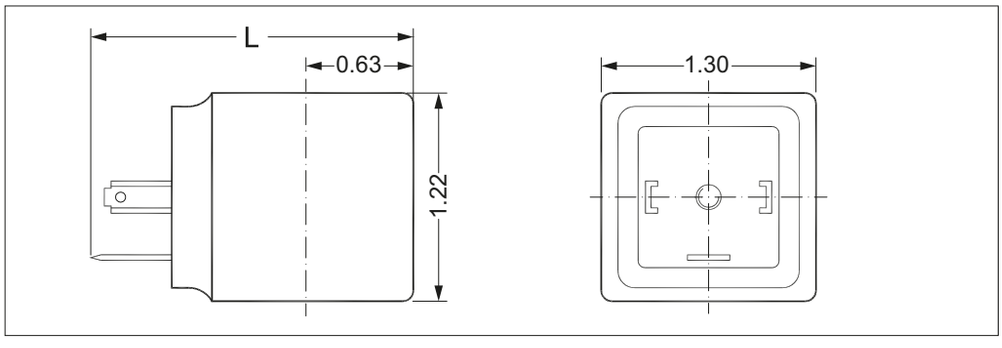
Type	Tambient [°C / °F]	Supply voltage [V]	Voltage variation	Frequency [Hz]	Power consumption [W]	Power consumption [VA]	Approval	Code no.
AP240C	-40T50 / -40T122	208 – 240	±10%	60	5.5	11		**042N4191**
		230	±10%	50	7.5	15		
AP120B	-40T50 / -40T122	110 – 120	±10%	60	5.0	11		**042N4192**
AP024B	-40T50 / -40T122	24	±10%	60	5.0	11		**042N4193**

Technical data

Design	In accordance with VDE 0580
Insulation of coil windings	Class H according to IEC 85
Connection	Spade connector in accordance with DIN 43650 form A
Enclosure, IEC 529	IP00 with spade connector, IP65 / NEMA 2 with cable plug
Duty rating	Continuous
Plug type	Cable plug (042N0156)

Dimensions and weight

Type	L without cable plug [in]	L with cable plug [in]	L with protective cap [in]	Weight [kg / lbs]
AP	1.89	2.83	2.52	0.10 / 0.22

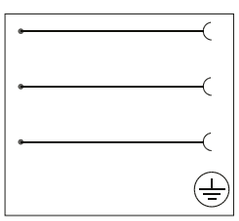


Cable plug

- Enclosure:
  Up to IP65
- For use with Danfoss coils type AL, AM, AS, AZ, BA, BB, BD, BN (Center boss), BQ, and BY
- AC / DC all voltages up to 250 V
- Approved in accordance with:
  - c UL us
  - CSA
  - VDE

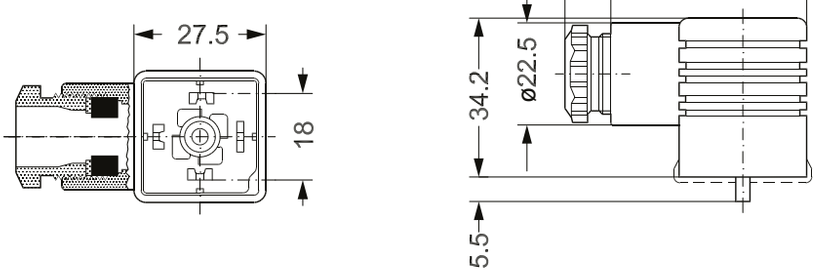
Cable plug size	Description	Suitable for coil types	Code no.
DIN 18	Cable plug according to DIN 43650-A PG 11	AL, AM, AS, AZ, BA, BB, BD, BN (Center boss), BQ, BY	**042N0156**

Technical data



Type	GDM 2011 J (Grey)	
Design	DIN 43650-A	
Cable gland	PG 11	
Poles	2 + PE	
Max. voltage	250 V AC / DC	
Approvals	c UL us CSA, VDE	
Enclosure	IP65 (IEC 60529)	
Max. operating current	16 A	
Contact resistance	< 10m Ω	
Cable diameter	Ø4.5 – 11 mm	
Wire cross section	Max. 1.5 mm^2	
Ambient temperature	-30 – 90 °C / -22 – 194 °F	
Materials	Contacts:	CuSn (Tin plated)
	Terminal block:	PA 6 GF
	Profiled gasket:	NBR
	Housing:	PA 6 GF

Dimensions and weight



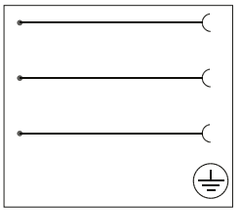
Weight 0.031 kg / 0.068 lbs

Cable plug

- Enclosure:
  Up to IP65
- For use with Danfoss coils type AL, AM, AS, AZ, BA, BB, BD, and BY
- AC / DC all voltages up to 250 V
- Approved in accordance with:
  CSA
- In accordance with:
  - RoHS 2011/65/EU
  - LVD 2014/35/EU

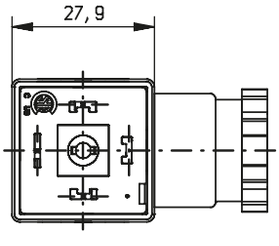
Cable plug size	Description	Suitable for coil types	Code no.
DIN 18	Cable plug with form A	AL, AM, AS, AZ, BA, BB, BD, BY	**042N0178**

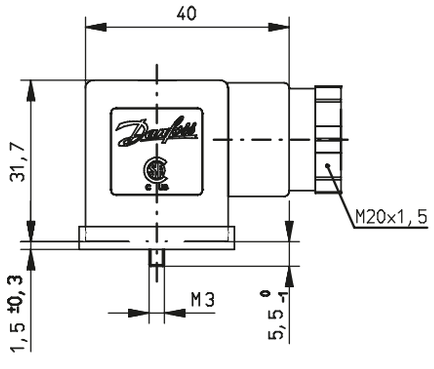
Technical data



Design	EN 175301-803 Form A	
Cable gland	PG 11	
Poles	2 + PE	
Max. voltage	250 V AC / DC	
Approvals	CSA	
Enclosure	IP65	
Max. operating current	16 A	
Contact resistance	< 4m Ω	
Cable diameter	Ø6 – 8 / 8 – 10 mm	
Wire cross section	Max. 1.5 mm²	
Ambient temperature	-25 – 80 °C / -13 – 176 °F	
Materials	Contacts:	CuZn, Cu/Sn - plated
	Terminal block:	PA 6 GF
	Profiled gasket:	NBR
	Housing:	PA 6 GF

Dimensions and weight





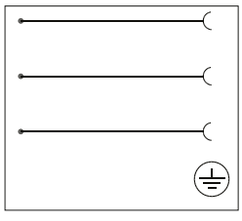
Weight 0.031 kg / 0.068 lbs

Industrial plug

- Enclosure:
  Up to IP65
- For use with Danfoss coils type AB and AC
- AC / DC all voltages up to 250 V
- Approved in accordance with:
  - cULus
  - CSA

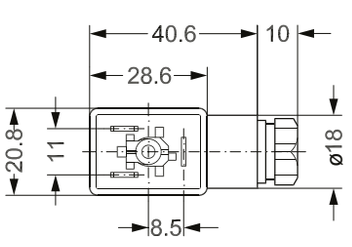
Industrial plug size	Description	Suitable for coil types	Code no.
DIN 11	Cable plug for 6.3 x 0.8 mm spade connectors	AB, AC	**042N0139**

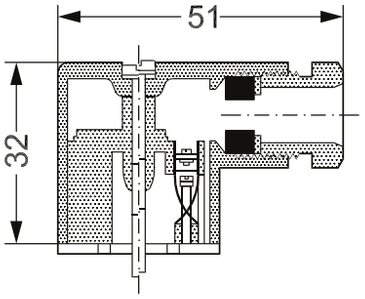
Technical data



Type	GM 209 J (Black)	
Design	DIN 43650-B	
Cable gland	PG 9	
Poles	2 + PE	
Max. voltage	250 V AC / DC	
Approvals	cULus CSA	
Enclosure	IP65 (IEC 60529)	
Max. operating current	16 A	
Contact resistance	< 10m Ω	
Cable diameter	Ø4.5 – 7 mm	
Wire cross section	Max. 1.5 mm^2	
Ambient temperature	-30 – 90 °C / -22 – 194 °F	
Materials	Contacts:	CuSn (Tin plated)
	Terminal block:	PA 6 GF
	Flat gasket:	NBR
	Housing:	PA 6 GF

Dimensions and weight





Weight 0.023 kg / 0.050 lbs

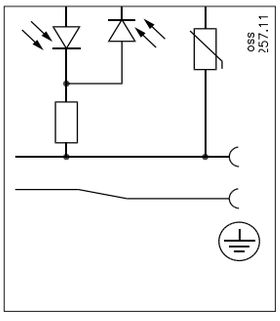
Cable plug (LED + Varistor)

- Enclosure:
  Up to IP65
- For use with Danfoss coils type AM, AK, AL, AS, AZ, BA, BD, BB, and BY
- 24 V AC / DC and 230 V AC version
- DIN 18
- Approved in accordance with:
  CSA
- In accordance with:
  - RoHS 2011/65/EU
  - LVD 2014/35/EU

Cable plug size	Voltage [V AC]	Voltage [V DC]	Voltage variation	Suitable for coil types	LED colour	Built-in VDR[1]) resistor	Code no.
DIN 18	24	24	±10%	AM, AL, AS, AZ, BA, BB, BD, BY	Red	Yes	**042N0263**
DIN 18	230	–	±10%	AM, AL, AS, AZ, BA, BB, BD, BY	Red	Yes	**042N0265**

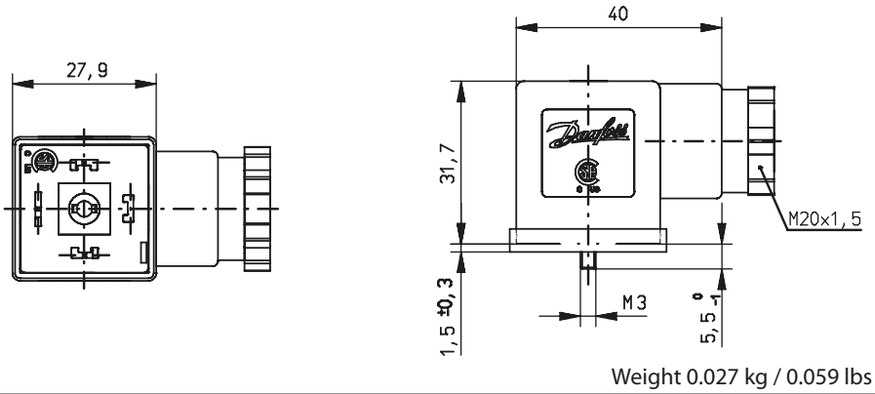
[1]) Protects against voltage peaks

Technical data



Design	EN 175301-803 A	
Power consumption	Max. 5 mA	
Approval	CSA	
Enclosure	IP65 (IEC 60529)	
Max. operating current	1.5 A clamping contact	
Contact resistance	≤ 4m Ω	
Protection against wrong polarity	Yes	
Cable diameter	6 – 8 mm and 8 – 10 mm	
Wire cross section	Max. 1.5 mm^2	
Ambient temperature	-25 – 60 °C / -13 – 140 °F	
Materials	Contacts:	CuZn, Cu/Sn-plated
	Terminal block:	PA6 + 30% FG, black
	Flat gasket:	NBR LABS-free
	Housing:	PA6
	Wire holder:	PA6.6 + 50% FG P7,5 black

Dimensions and weight



Weight 0.027 kg / 0.059 lbs

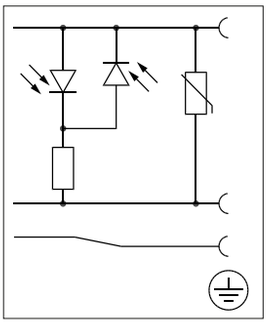
Industrial plug (LED + Varistor)

- Enclosure:
  Up to IP65
- For use with Danfoss coils type AB and AC
- 24 V AC
- Approved in accordance with:
  CSA
- In accordance with:
  - RoHS 2011/65/EU
  - LVD 2014/35/EU

Industrial plug size	Voltage [V AC]	Voltage [V DC]	Suitable for coil types	LED colour	Built-in VDR[1]) resistor	Code no.
DIN 11	24	24	AB, AC	Red	Yes	**042N0267**

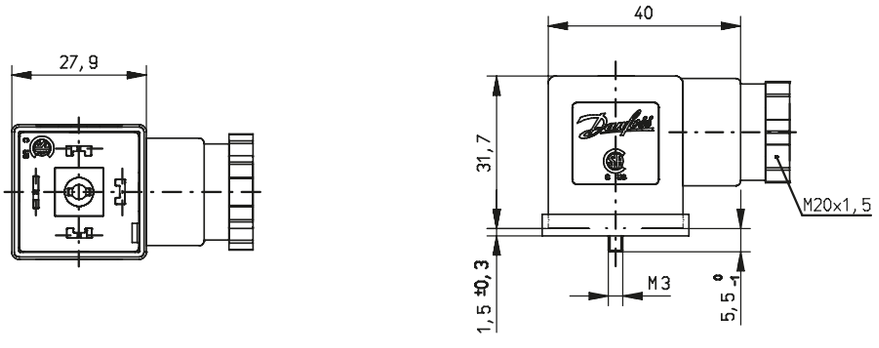
[1]) Protects against voltage peaks

Technical data



Design	Industrial form	
Supply voltage variation	±10%	
Power consumption	Max. 5 mA	
Approval	CSA	
Enclosure	IP65 (IEC 60529)	
Max. operating current	1.5 A clamping contact	
Contact resistance	≤ 4m Ω	
Protection against wrong polarity	Yes	
Cable diameter	5 – 6 mm and 6 – 9 mm	
Wire cross section	Max. 1 mm²	
Ambient temperature	-25 – 60 °C / -13 – 140 °F	
Materials	Contacts:	CuZn, Cu/Sn-plated
	Terminal block:	PA6 + 30% FG, black
	Flat gasket:	NBR LABS-fre
	Housing:	PA6
	Wire holder:	PA6.6 + 50% FG P7,5 black

Dimensions and weight



Weight 0.027 kg / 0.059 lbs

Universal electronic multi-timer Type ET 20 M

- Outside adjustments
- Light weight and small size
- External adjustable timing from 1 minute to 45 minutes with 1 to 15 seconds drain open
- One solid state timer fits all coil voltages from 24-240 V AC
- Light diodes for indication
- All in one unit
- Manual override (test button).

Type	Voltage [V]	Suitable for coil types	Code no.
BA0[illegible]	24 – 240	AL, AM, AS, AZ, BA, BD, BB	**042N0185**

Technical data

Type	ET 20 M
Voltage	24 – 240 V AC / 50 – 60 Hz
Power rating	Max. 20 W
Enclosure	IP00, IP65 with cable plug
Electrical connection	DIN connector (DIN 43650-A)
Ambient operating temperature range	-10 – 50 °C
Function	Start with pulse
Interval timer	0 – 45 min.
"On" timer	0 – 15 sec.

Dimensions and weight