

**ON-OFF Coils**  
**BO\* COILS**

**1 DESCRIPTION**

- Magnetic circuit encapsulated with steel housing amplifying the Magnetic field
- Standard zinc coated

**2 ORDERING CODE**

(1)	(2)	(3)	(4)	(5)	(6)
BO	-	-	-	-	-

(1) BO: Aidro one-shell coil

(2) Coil size (internal diameter)

- 1: Ø13,4mm
- 2: Ø19mm
- 3: Ø22mm
- 5: Ø31mm

(3) Coating options:

- no designation: standard zinc coating (ISO 9227 - 240 h salt spray)
- ZN: Zinc-Nickel coating (ISO 9227 - 520 h salt spray)

(4) Electric Voltage Options - See table **4**

(5) Current control:

- no designation: without diode
- DR: quenching diode

(6) Connection options: see table **5**



**3 TECHNICAL DATA**

Typical nominal voltages	12-24V DC 24-110-220V AC and RAC	
Class F coil as from the IEC	85 standard	
Class H wire	200°C	
Duty cycle	ED 100% code, voltages, currents and power consumption.	
Max. ambient temperature	50°C (122°F)	
Max. winding temperature	155°C (311°F)	
Supply voltage tolerance	10%	
Quenching diode	12V	BZW06-19B (dual Zener diode)
	24 V	BZW06-33B (dual Zener diode)

**4 ELECTRIC VOLTAGE OPTIONS**

DC	AC
012C	024A
014C	115A
021C	230A
024C	
024R	
027C	
048C	
205C	

Coils type \*\*\*R are RAC (Rectified Alternate Current) energized from a AC supply, by a full wave bridge rectifier incorporated in the connector.

**5 CONNECTIONS OPTIONS**

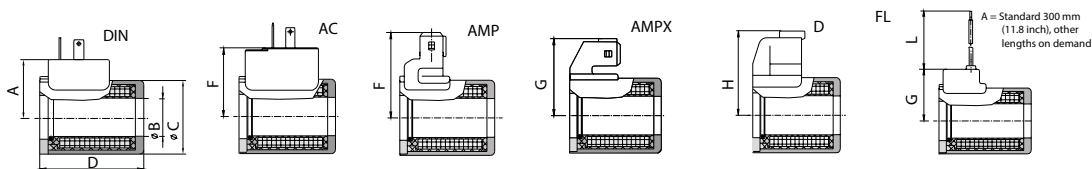
- no designation	DIN 43650
- C	flying leads
- AMP	Amp junior connector
- AMPX	AMP junior connector, axially oriented
- D	Deutsch connector

## 7 COILS SPECS OVERVIEW

COIL TYPE	Voltage		Nominal Current (A)	Nominal power (W)	Resistance @ 20°C (Ω)
B01	12	DC	1,83	22,00	6,5
	14	DC	1,57	22,00	8,9
	24	DC	0,92	22,00	26,2
	27	DC	0,80	22,00	33,6
B02	12	DC	2,45	29,00	4,9
	14	DC	1,70	24,00	8,23
	24	DC	1,15	28,00	20,8
	27	DC	0,89	24,00	30,4
	205	DC	0,12	25,00	1653
	115	AC - 50 Hz	0,24	28,00	433
	230	AC - 50 Hz	0,12	28,00	1653
B03	12	DC	2,72	33,00	4,41
	14	DC	2,14	30,00	6,55
	24	DC	1,29	31,00	18,6
	27	DC	1,07	29,00	25,3
	205	DC	0,15	31,00	1400
	115	AC - 50 Hz	0,30	35,00	344
	230	AC - 50 Hz	0,15	35,00	1400
B05	12	DC	3,17	38,00	3,78
	14	DC	2,98	42,00	4,73
	24	DC	1,73	42,00	13,9
	27	DC	1,52	41,00	17,8
	205	DC	0,20	41,00	1027
	120	AC - 60 Hz	0,38	46,00	276
	230	AC - 50 Hz	0,20	46,00	1027

## 6 SIZE TABLE FOR B01, B02 & B03

	A(mm)	ØB(mm)	ØC(mm)	D(mm)	AC	AMP	AMPX	DEUTSCH	FL	
					E(mm)	F(mm)	G(mm)	H(mm)	G(mm)	L(mm)
<b>B01</b>	23	13,4	30	41,3	-	-	34,1	39,3	-	-
<b>B02</b>	29	19	37	49,4	34,4	42	37,6	42,5	29	300
<b>B03</b>	32,5	22	45	52	38,4	-	41,1	46,3	32,5	300



## 7 SIZE TABLE FOR B05

	A(mm)	ØB(mm)	ØC(mm)	D(mm)	AC	AMP	AMPX	DEUTSCH	FL	
					E(mm)	F(mm)	G(mm)	H(mm)	G(mm)	L(mm)
<b>B05</b>	41,5	31	62	73,2	46,5	48,7	-	52	46,5	300

