Coils for Solenoid Operated Valves

- Various designs regarding sizes and types
- Large selection of AC / DC voltages

Ordering Code

Electromagnet coil

Coil design
(Size - according to the inner diameter)
- ∅ 13.4 mm: 14
- ∅ 19.0 mm: 19
- ∅ 19.0 mm: 20
- ∅ 22.0 mm: 22
- ∅ 31.0 mm: 31

Coil housing design version
- Scrolled housing: A
- Drawn housing: B
- Long drawn housing: C
- Pressed part: D

Rated voltage of solenoid
(at the coil terminals)
- 12 V DC: 01200
- 14 V DC: 01400
- 24 V DC: 02400
- 27 V DC: 02700
- 48 V DC: 04800
- 106 V DC: 10600
- 205 V DC: 20500
- 115 V 50 Hz: 11050
- 120 V 60 Hz: 12060
- 230 V 50 Hz: 23050

Type of solenoid coil
see the page 18

Conductor design
- Non-braided: N
- Braided: B
* For loose conductors only

Electromagnet coil

Resistance
Coil resistance (Ω)
See the table of preferred coils

Length of conductors
Standard (300 mm)
* For loose conductors only

Detent type*
- Without detent
- With detent
* C31 coils only

Surface treatment
- ZnCr₃
- Zn/Ni

Special design
Insulation design
- No designation
- Standard
- Version CSA

Ordering Code
Type of solenoid coil
see the page 18

E...

B
## Coils C14

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**Notes:** Only specified combinations are available in the table of preferred types. Other designs available at request.

* Coil versions 106 are suitable for the rectified voltage of 120V / 60Hz.
** Coil version 205 are suitable for the rectified voltage of 230V /50Hz.
## Coils C19

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### Coils C19

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### Notes:
- Only specified combinations are available in the table of preferred types. Other designs available at request.
- **Coil versions 106 are suitable for the rectified voltage of 120V / 60Hz.**
- **Coil version 205 are suitable for the rectified voltage of 230V / 50Hz.**

### Coils C20

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## Coils C22

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**Notes:** Only specified combinations are available in the table of preferred types. Other designs available at request.

* Coil versions 106 are suitable for the rectified voltage of 120V / 60Hz.

** Coil version 205 are suitable for the rectified voltage of 230V / 50Hz.
## Coils C22

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* Coil versions 106 are suitable for the rectified voltage of 120V / 60Hz.

** Coil version 205 are suitable for the rectified voltage of 230V / 50Hz.
## Coils C22

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**Notes:** Only specified combinations are available in the table of preferred types. Other designs available at request.

* Coil versions 106 are suitable for the rectified voltage of 120V / 60Hz.

** Coil version 205 are suitable for the rectified voltage of 230V /50Hz.

*** Input signal level for 12V-electronics.
### Coils C31

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Notes: Only specified combinations are available in the table of preferred types. Other designs available at request.

* Coil versions 106 are suitable for the rectified voltage of 120V / 60Hz.

** Coil version 205 are suitable for the rectified voltage of 230V /50Hz.
Rectifier Connection in the Coil with "E5" Connector

In-built bridge rectifier for the maximum output voltage 253 $V_{\text{eff}}$
Voltage frequency 50 – 60 Hz. Varistor for 275 $V_{\text{eff}}$

Dimensions of Coils C14

Design version - B

**Connector design**

E1 (Connector EN 175301-803-A)

Protection degree IP65

---

**Connector design**

E3A (Connector AMP-Junior-Timer - (2-pins; male)
E4A (E3A with quenching diode)

Protection degree IP67
### Dimensions of Coils C19

**Design version - A**

**Connector design**
- **E1** (Connector EN 175301-803-A)
- **E2** (E1 with quenching diode)

Protection degree IP65

**Design version - B**

**Connector design**
- **E3** (Connector AMP-Junior-Timer - (2-pins; male )
- **E4** (E3 with quenching diode)

Protection degree IP67

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<th>Connector design</th>
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<td>50,6(1.992)</td>
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<td><strong>E4A</strong></td>
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<td><strong>E4A</strong></td>
<td>50,6(1.992)</td>
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</table>
**Dimensions of Coils C19**

### Design version - A

**Connector design**
E5 (Connector EN 175301-803-A with integrated rectifier)

Protection degree IP67

### Design version - B

**Connector design**
E8 (Loose conductors (two insulated cables))
E9 (E8 with quenching diode)

### Design version - B

**Connector design**
E12 (Deutsch DT04-2P)
E13 (E12 with quenching diode)

Protection degree IP67

**Note:**
A = Standard 300 mm, other sizes on demand
**Dimensions of Coils C20**

**Design version - D**

**Connector design**

EW5 - (Wirebox)

Protection degree IP65

**Dimensions of Coils C22**

**Design version - A**

**Connector design**

E1 (E1 = Connector EN 175301-803-A)

E2 (E2 = E1 with quenching diode)

Protection degree IP65
Dimensions of Coils C22

Design version - B

Connector design
E3A (Axial connector AMP Junior Timer (2 pins; male))
E4A (E3A with quenching diode)

Protection degree IP67

Design version - A

Connector design
E5 (Connector EN 175301-803-A with integrated rectifier)

Protection degree IP65
Dimensions of Coils C22

Design version - B

Connector design
E8 (Loose conductors (two insulated cables))
E9 (E8 with quenching diode)

Design version - B

Connector design
E12 (Deutsch DT04-2P)
E13 (E12 with quenching diode)

Protection degree IP67

Note:
A = Standard 300 mm, other sizes on demand

Design version - C

Connector design
EW1 - (wirebox)
EW2 - (E3 with quenching diode)
**Dimensions of Coils C31**

### Design version - A

**Connector design**

**E1** (Connector EN 175301-803-A)

**E2** (E1 with quenching diode)

Protection degree IP65

![Diagram A1](image1)

**Note:**

A = Standard 300 mm, other sizes on demand

### Design version - A

**Connector design**

**E3** (Connector AMP-Junior-Timer - (2-pins; male)

**E4** (E3 with quenching diode)

Protection degree IP67

![Diagram A2](image2)

### Design version - A

**Connector design**

**E5** (Connector EN 175301-803-A with integrated rectifier)

Protection degree IP65

![Diagram A3](image3)

### Design version - A

**Connector design**

**E8** (Loose conductors (two insulated cables))

**E9** (E8 with quenching diode)

![Diagram A4](image4)
## Dimension of Coils C31

Dimensions in millimeters (inches)

### Design version - A

**Connector design**

EW1 - Wirebox

- Protection degree IP65

![Diagram of connector](image)

- Detent of the coil to the valves body

### Identification and Survey of the Offered Connectors

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<tr>
<th>Connector</th>
<th>Connector description</th>
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<td>Connector E1 with quenching diode</td>
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<td>Axial connector AMP Junior Timer (2 pins; male)</td>
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<td>Connector E3A with quenching diode</td>
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<td>Connector EN 175301-803-A with integrated rectifier</td>
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<td>Connector EN 175301-803-A with integrated rectifier and fast deconnection</td>
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<td>Connector E6 with quenching diode</td>
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<td>Loose conductors (two insulated cables)</td>
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<td>E8 with quenching diode</td>
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<td>Connector E12 with quenching diode</td>
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For all leaded wires (E8 a E9) or with a combination with connector (E10; E11; E16; E17; E18; E19; E20; E21; E23; E24 and E25) can be protected with braiding (B), see ordering code.

### Caution!

- The packaging foil can be recycled.
- All stated data serve for the product description only and in no case should be understood as features guaranteed in terms of law.