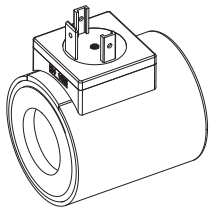
# Solenoid coil W.E45/23 x 50
# in accordance with DIN VDE 0580
# Protection class IP 65 / 67 / 69K



## DESCRIPTION
The slip-on solenoid coil W.E45/23x50 is available in three different connection versions (see type code). The design corresponds to the DIN VDE standard 0580. The housing is made of steel (zinc-nickel coated), the connector socket is made of plastic material.

## FUNCTION
With the combination of an armature tube the function of a switching solenoid or of a proportional solenoid results. The solenoid coils are available with the standard nominal voltages 12 VDC and 24 VDC.

## APPLICATION
The solenoid coils are mainly utilised in hydraulic applications.

## TYPE CODE

W ☐ E45 / 23 x 50 - ☐ # ☐

| | | | | |
|---|---|---|---|---|
| Metal housing, round | | | | |
| Connection execution | | | | |
| Connector socket EN 175301-803 / ISO 4400 | D | with protecting diode* | D1 | |
| Connector socket AMP Junior-Timer | J | | | |
| Connector Deutsch DT04-2P | G | with protecting diode* | G1 | |
| Connection execution | | | | |
| Internal coil diameter 23 mm | | | | |
| Coil length 50 mm | | | | |
| Nominal voltage $U_N$ | 12 VDC | G12 | 115 VAC | R115 |
| | 24 VDC | G24 | 230 VAC | R230 |
| | 28 VDC | G28 | | |
| Design-Index (Subject to change) | | | | |

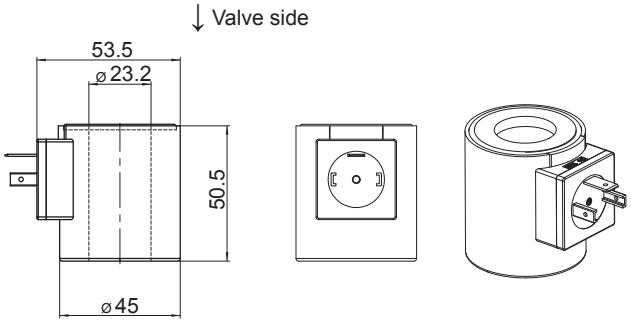
*only in execution $U_N$ = 28 VDC

## SPECIFICATIONS

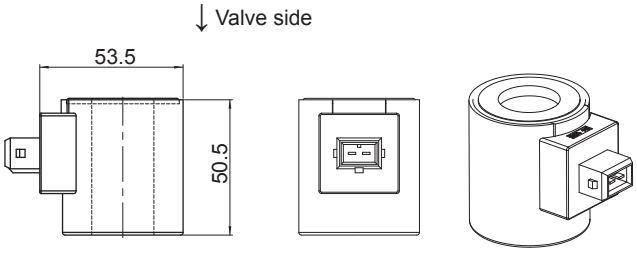
| | |
|---|---|
| Coil winding insulation class | H (180 °C), N (200 °C) only G28 |
| Relative duty factor | 100 % DF / ED combined with armature tube and valve |
| Ambient temperature | -40...+60 °C, -40...+70 °C only G28 |
| Corrosion protection | Salt spray test according to EN ISO 9227:≥ 1000 h |

| | | 12 VDC | 24 VDC | 28 VDC | 115 VAC | 230 VAC |
|---|---|---|---|---|---|---|
| Nominal power (20° C) (Switching function) | (W) | 30,5 | 32,5 | 34,7 | 28 | 30 |
| Limiting current (50° C) (Proportional function) | (A) | 1,69 | 0,93 | – | – | – |
| Limiting power (50° C) (Proportional function) | (W) | 20,3 | 21,1 | – | – | – |
| Nominal resistance (20° C) | (Ω) | 4,73 | 16,9 | 22,6 | 385 | 1425 |
| Number of windings | (–) | 620 | 1250 | 1370 | 5350 | 10700 |
| Weight of solenoid coil | (kg) | 0,33 | 0,33 | 0,33 | 0,33 | 0,33 |
| Breakdown voltage (protecting diode) | (VDC) | – | – | 62 | – | – |

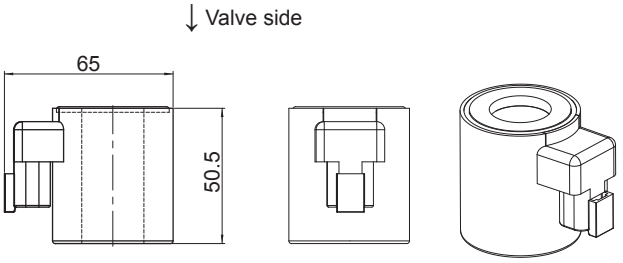
## SAFE OPERATION
**Caution:** Because of the danger of over-heating the solenoid coil must only be commissioned together with an armature tube as well as with a valve.




*Execution:* W **D** E45/23x50
- 3-poles 2 P+E
- Protection class IP 65
  With corresponding mating connector
  (not included in delivery)
  and professional assembly.




*Execution:* W **J** E45/23x50
- 2-poles 2P
- only for $U_N \leq 75$ VDC
- Protection class IP 66
  With corresponding mating connector
  (not included in delivery)
  and professional assembly.




*Execution:* W **G** E45/23x50
- 2-poles 2P
- only for $U_N \leq 75$ VDC
- Protection class IP 67 and 69 K
  With corresponding mating connector
  (not included in delivery)
  and professional assembly.

Technical explanation see data sheet 1.1-400 and 1.1-410

*Execution:* W **D1** E45/23x50-G28
W **G1** E45/23x50-G28

- bipolar protecting diode