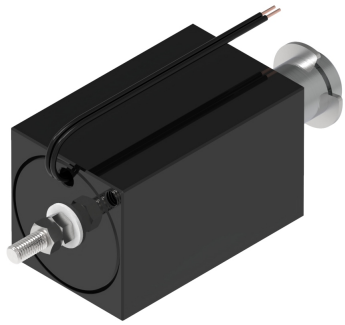
# • CU 40/C TYPE



Protection rate: **IP40**
Insulation class: **B (130ºC)**
Reference cycle: **3 minutes**
Standard stroke (s): **15 mm**
Temperature rise "$\Delta V_{31}$": **70ºC**
Working temperature: **-10 to 45ºC**
Work: **Push / Pull**

**Release spring** will be incorporated by defect

Standard spring force:
Fs(s=0mm) = 3.2N
Fs(s=15mm) = 1.7N

| (ED) Duty-cycle ED(%) | 100 | 40 | 25 | 15 | 5 |
|---|---|---|---|---|---|
| (P20) Power at 20ºC (W) | 1.3 | 30 | 48 | 82 | 247 |
| (Fm) Solenoid force (N) 1) | 7.8 | 13.5 | 17 | 23 | 41 |
| Max time under voltage(s) | Inf | 72 | 45 | 27 | 9 |
| Opening time (ms) 2) | 125 | 98 | 92 | 86 | 82 |
| Release time (ms) 3) | 75 | 60 | 57 | 54 | 51 |
| Plunger weight (Kg) | 0.085 | | | | |
| Solenoid weight (Kg) | 0.665 | | | | |

1) Fm Solenoid force is given acording to VDE0580 without deducting the spring force or the plunger weight if vertical mounting.

2) Time is given on these conditions: Coil supplied under nominal voltage ; Stabilized in it´s working temperature ; Load 70% of the solenoid force ; Horizontal assembly ; Standard stroke initial position; 20ºC ambient temperature.

3) Time is given on these conditions: Standard spring ; without load on shaft ; Horizontal assembly ; Standard stroke initial position.

| Duty-cycle ED% | Standard voltages | | | | | | | | | Under demand | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VDC | | | | | | | VAC | | VDC | | VAC | |
| | 6 | 12 | 24 | 48 | 100 | 125 | 205 | 110 | 230 | Min | Max | Min | Max |
| 100 | o | o | o | o | o | o | o | o | x | 6 | 250 | 48 | 125 |
| 40 | x | o | o | o | o | o | o | o | x | 9 | 250 | 48 | 125 |
| 25 | x | o | o | o | o | o | o | x | x | 12 | 250 | x | x |
| 15 | x | o | o | o | o | o | o | x | x | 24 | 250 | x | x |
| 5 | x | x | o | o | o | o | o | x | x | 24 | 250 | x | x |

Layout: o = Available ; x = Unavailable

- Voltage under demand:
They can be manufactured at voltages between the maximum and minimum voltage values shown in the chart.

- To feed in alterning current the solenoid will have an external rectifier.

- The duty cycles described in the chart are standard, they can be manufactured in any intermediate value.

- If any customization from the original is needed, please ask us.

- Earthing is recommended if the metallic parts are accessible.

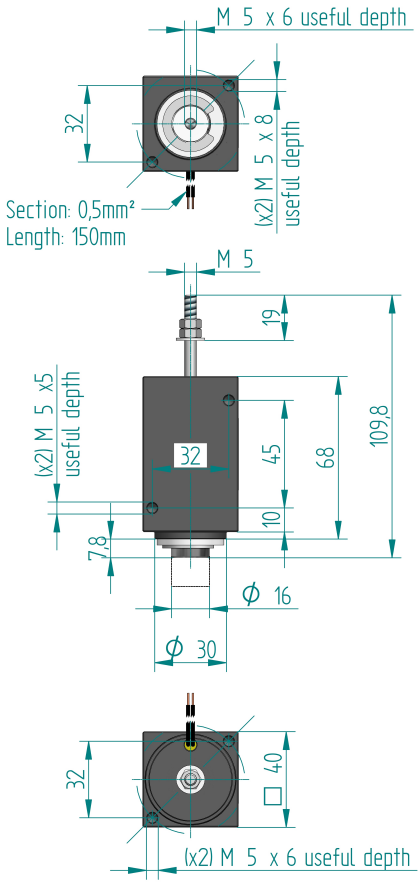
**Ordering code:** *CU40/C --V ED---%* - Spring

Voltage: 24Vdc; Duty cycle: ED100%; With spring:
*CU40/C 24Vdc ED100% RS*

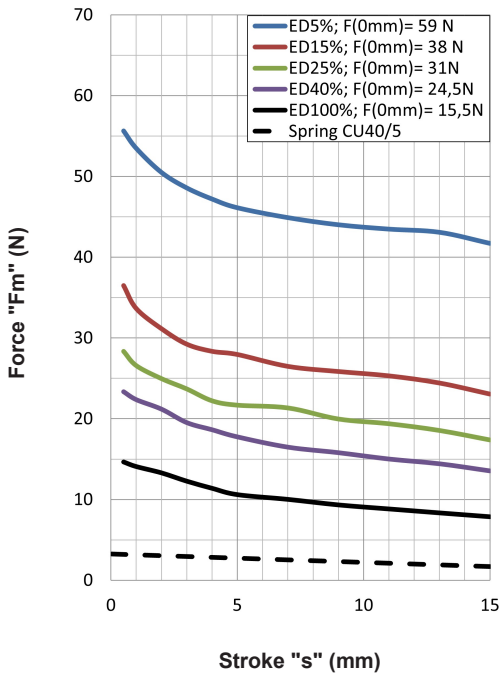
Voltage: 12Vdc; Duty cycle: ED15%; Without spring:
*CU40/C 12Vdc ED15% RN*

**Spring yes: RS ; Spring no: RN**

**Solenoid under voltage (s=0mm position)**




**Force-stroke curve**




Calculation of the effective force:
see pages 1 and 52

**For fixation and mounting positions: see page 52**