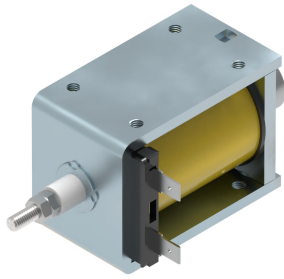


● ER 60-10/C TYPE



Cables version:
● ER60-10/CC

s = 1x1mm²
L = 250mm

Protection rate: **IP00**
Insulation class: **B (130°C)**
Reference cycle: **5 minutes**
Standard stroke (s): **10 mm**
Temperature rise "ΔV₃₁": **70°C**
Working temperature: **-10 to 45°C**
Work: **Push / Pull**

Release spring will be incorporated by defect

Standard spring force:
Fs(s=0mm) = 4.3N
Fs(s=10mm) = 3.2N

| (ED) Duty-cycle ED(%) | 100 | 40 | 25 | 15 | 5 |
|----------------------------|-------|-----|-----|-----|-----|
| (P20) Power at 20°C (W) | 18 | 45 | 70 | 110 | 280 |
| (Fm) Solenoid force (N) 1) | 12 | 24 | 32 | 44 | 80 |
| Max time under voltage(s) | Inf | 120 | 75 | 45 | 15 |
| Opening time (ms) 2) | 187 | 134 | 126 | 111 | 108 |
| Release time (ms) 3) | 117 | 85 | 81 | 72 | 70 |
| Plunger weight (Kg) | 0.117 | | | | |
| Solenoid weight (Kg) | 0.650 | | | | |

1) Fm Solenoid force is given according 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; 20°C 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 | | | | | | | | VDC | | VAC | | |
| | 6 | 12 | 24 | 48 | 100 | 125 | 205 | 110 | 230 | Min | Max | Min | Max |
| 100 | x | o | o | o | o | o | o | o | o | 7 | 230 | 48 | 230 |
| 40 | x | o | o | o | o | o | o | x | o | 11 | 230 | 125 | 230 |
| 25 | x | x | o | o | o | o | o | x | o | 13 | 230 | 200 | 230 |
| 15 | x | x | o | o | o | o | o | x | x | 16 | 230 | x | x |
| 5 | x | x | o | o | o | o | o | x | x | 24 | 230 | 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 alternating current the solenoid will have a rectifier incorporated in the coil.

- 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.

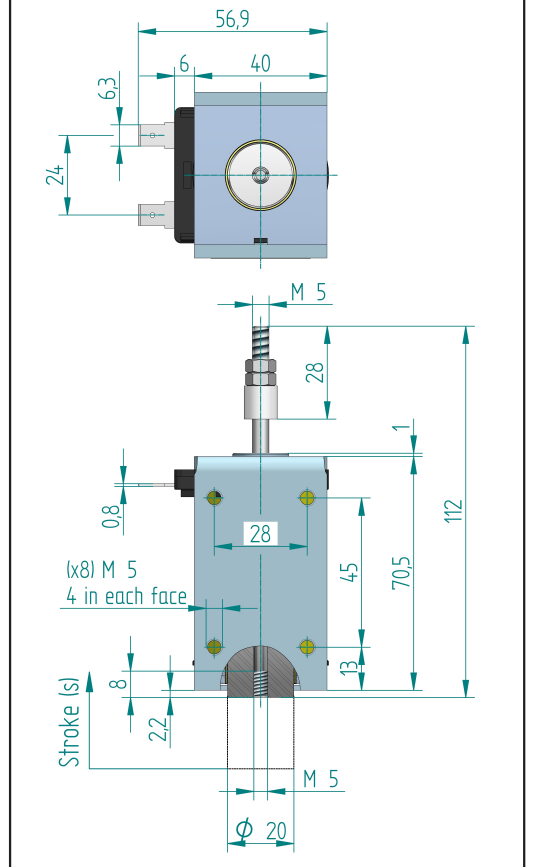
Ordering code: ER60-10/C --V ED---% - Spring

Voltage: 24Vdc; Duty cycle: ED100%; With spring:
ER60-10/C 24Vdc ED100% RS

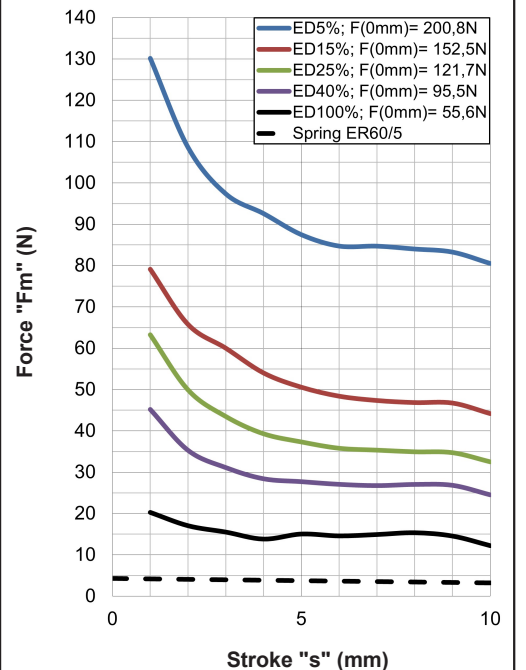
Voltage: 48Vdc; Duty cycle: ED15%; Without spring:
ER60-10/C 48Vdc ED15% RN

Spring yes: RS ; Spring no: RN

Solenoid under voltage (s=0mm position)



Force-stroke curve



Calculation of the effective force: see pages 1 and 10

For fixation and mounting positions: see page 10