

● **ECH 40-10 TYPE**



Protection rate: **IP40**
 Insulation class: **B (130°C)**
 Reference cycle: **3 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:
 F_s(s=0mm) = 4.4N
 F_s(s=10mm) = 2N

(ED) Duty-cycle ED(%)	100	40	25	15	5
(P20) Power at 20°C (W)	13	30	45	75	210
(Fm) Solenoid force (N) 1)	9	14	17	23	38
Max time under voltage(s)	Inf	72	45	27	9
Opening time (ms) 2)	117	95	84	79	77
Release time (ms) 3)	70	57	51	48	46
Plunger weight (Kg)	0.047				
Solenoid weight (Kg)	0.416				

1) F_m 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	o	o	o	o	o	o	o	o	o	4	250	18	230
40	o	o	o	o	o	o	o	o	o	6	250	43	230
25	x	o	o	o	o	o	o	o	o	9	250	65	230
15	x	o	o	o	o	o	o	o	o	10	250	105	230
5	x	o	o	o	o	o	o	x	x	12	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 alternating current the solenoid will have a rectifier incorporated in the connector.

- 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.

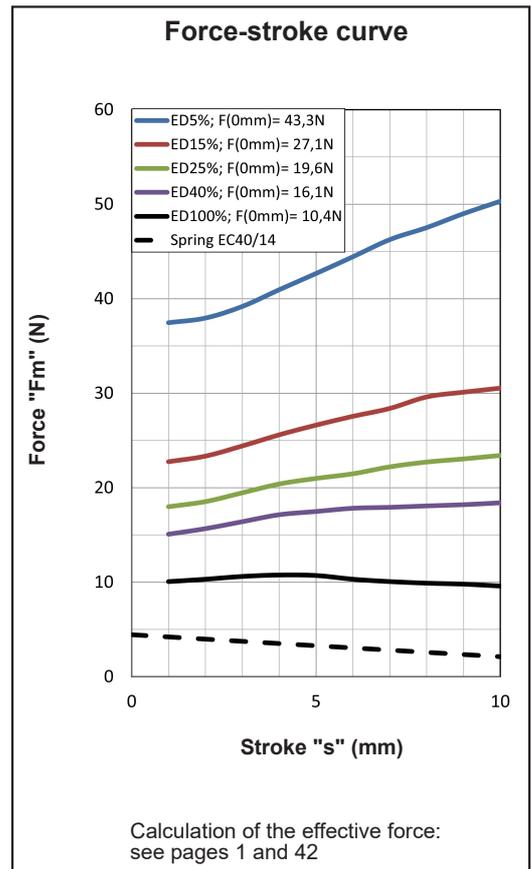
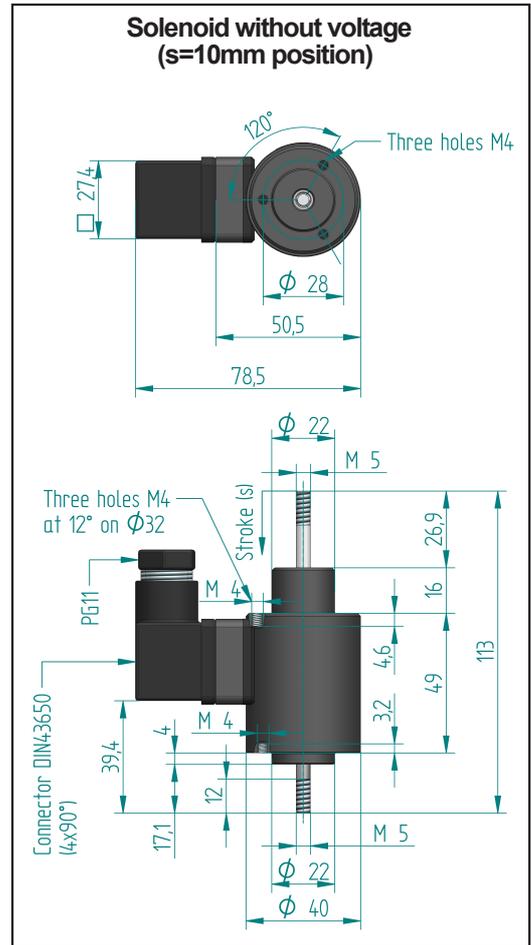
- Earthing is recommended if the metallic parts are accessible.

Ordering code: ECH40-10 --V ED---% - Spring

Voltage: 24Vdc; Duty cycle: ED100%; With spring:
 ECH40-10 24Vdc ED100% RS

Voltage: 48Vdc; Duty cycle: ED15%; Without spring:
 ECH40-10 48Vdc ED15% RN

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



For fixation and mounting positions: see page 42