

ECH 50-16 TYPE



Protection rate: IP40 Insulation class: B (130°C) Reference cycle: 3 minutés Standard stroke (s): 16 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) = 4.4NFs(s=16mm) = 2.7N

(ED) Duty-cycle ED(%)	100	40	25	15	5	
(P20) Power at 20°C (W)	19	45	68	120	325	
(Fm) Solenoid force (N) 1)	13	18	26	41	72	
Max time under voltage(s)	Inf	72	45	27	9	
Opening time (ms) 2)	203	160	137	127	116	
Release time (ms) 3)	131 106 92 86 80					
Plunger weight (Kg)	0.120					
Solenoid weight (Kg)	0.750					

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; 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	Standard voltages						Under demand						
	VDC						VAC		VDC		VAC		
ED%	6	12	24	48	100	125	205	110	230	Min	Max	Min	Max
100	0	0	0	0	0	0	0	0	0	6	250	25	230
40	Х	0	0	0	0	0	0	0	0	10	250	59	230
25	Х	0	0	0	0	0	0	0	0	12	250	90	230
15	Х	Х	0	0	0	0	0	Х	0	16	250	156	230
5	х	х	0	0	0	0	0	х	Х	24	250	х	Х
Layout:	o =	Avai	lable	:	x = U	Inavai	lable						

Layout: o = Available ;

- 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 a rectifier incorporated in the connector.

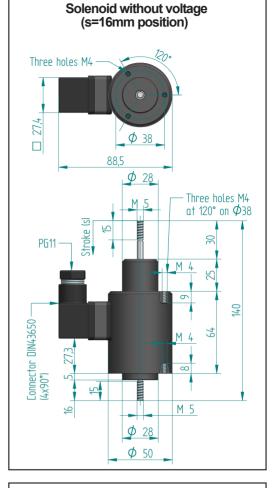
- The duty cycles described in the chart are standard, they can be manufactured in any intermediate value.

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

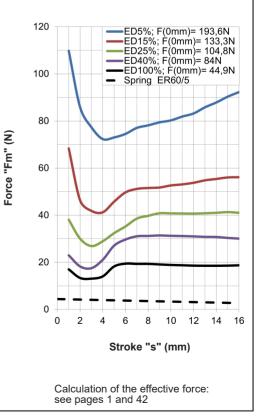
- Earthing is recommended if the metallic parts are accessible.

Ordering code:	ECH50-16V ED% - Spring			
	Voltage: 24Vdc; Duty cycle: ED100%; With spring: ECH50-16 24Vdc ED100% RS			
	Voltage: 48Vdc; Duty cycle: ED15%; Without spring: ECH50-16 48Vdc ED15% RN			





Force-stroke curve



For fixation and mounting positions: see page 42