

## ER 45-15/C TYPE



Protection rate: IP00 Insulation class: B (130°C) Reference cycle: 3 minutés Standard stroke (s): 15 mm Temperature rise "ΔV31": 70°C Working temperature: -10 to 45°C Work: **Push / Pull** 

(ED) Duty-cycle ED(%)	100	40	25	15	5	
(P20) Power at 20°C (W)	12	30	48	80	240	
(Fm) Solenoid force (N) 1)	3.3	7.3	10	15.5	27	
Max time under voltage(s)	Inf	72	45	27	9	
Opening time (ms) 2)	111	87	83	81	81	
Release time (ms) 3)	68	54	53	51	51	
Plunger weight (Kg)	0.059					
Solenoid weight (Kg)	0.285					

Cables version:

ER45-15/CC

s= 1x0.5mm<sup>2</sup> L= 250mm

Release spring will be

incorporated by defect

Standard spring force:

Fs(s=0mm) = 3.6N

Fs(s=15mm) = 1.7N

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	5	230	34	230
40	Х	0	0	0	0	0	0	0	0	7	230	86	230
25	Х	0	0	0	0	0	0	Х	0	9	230	136	230
15	Х	0	0	0	0	0	0	Х	0	11	230	230	230
5	х	х	0	0	0	0	0	х	Х	16	230	х	х
Layout:	0 =	Avai	lable	;	x = U	Inavai	lable						

Lavout: o = Available :

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

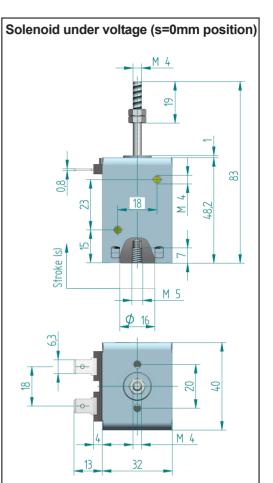
- To feed in alterning current the solenoid will have a rectifier incorporated in the coil.

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

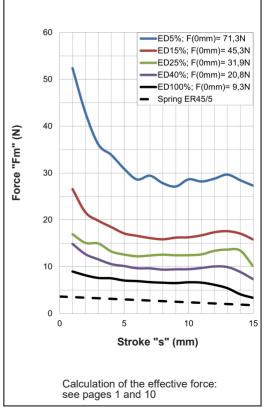
- If any customization from the original is needed, please ask us.

- Earthing is recommended if the metallic parts are accessible.

Ordering code:	ER45-15/CV ED% - Mounting position - Spring
A ⊸.⊐	Voltage: 24Vdc; Duty cycle: ED100%; Position A; With spring: ER45-15/C 24Vdc ED100% A RS
Β ⊸(.⊐	Voltage: 48Vdc; Duty cycle: ED15%; Position B; Without spring: ER45-15/C 48Vdc ED15% B RN



## Force-stroke curve



For fixation and mounting positions: see page 10