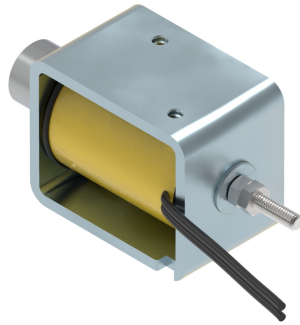


• **ERC 45-50-15/C TYPE**



Protection rate: **IP00**  
 Insulation class: **B (130°C)**  
 Reference cycle: **3 minutes**  
 Standard stroke (s): **15 mm**  
 Temperature rise "ΔV<sub>31</sub>": **70°C**  
 Working temperature: **-10 to 45°C**  
 Work: **Push / Pull**

**Release spring** will be incorporated by defect

Standard spring force:  
 F<sub>s</sub>(s=0mm) = 3.6N  
 F<sub>s</sub>(s=15mm) = 1.7N

(ED) Duty-cycle ED(%)	100	40	25	15	5
(P20) Power at 20°C (W)	12	29	46	77	228
(Fm) Solenoid force (N) 1)	4.5	9.3	12	16	32
Max time under voltage(s)	Inf	72	45	27	9
Opening time (ms) 2)	110	84	81	73	72
Release time (ms) 3)	68	53	52	50	47
Plunger weight (Kg)	0.052				
Solenoid weight (Kg)	0.297				

1) F<sub>m</sub> 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	6	230	30	230
40	x	o	o	o	o	o	o	o	o	8	230	76	230
25	x	o	o	o	o	o	o	x	o	9	230	120	230
15	x	o	o	o	o	o	o	x	o	12	230	202	230
5	x	x	o	o	o	o	o	x	x	20	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.

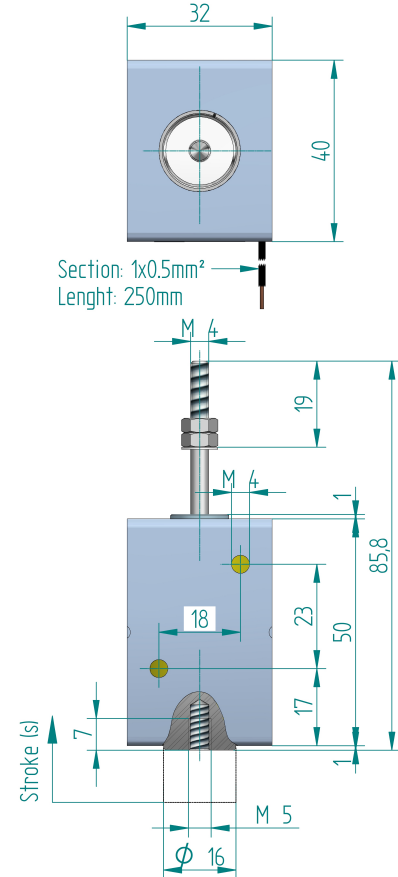
**Ordering code:** ERC45-50-15/C --V ED---% - Spring

Voltage: 24Vdc; Duty cycle: ED100%; With spring:  
 ERC45-50-15/C 24Vdc ED100% RS

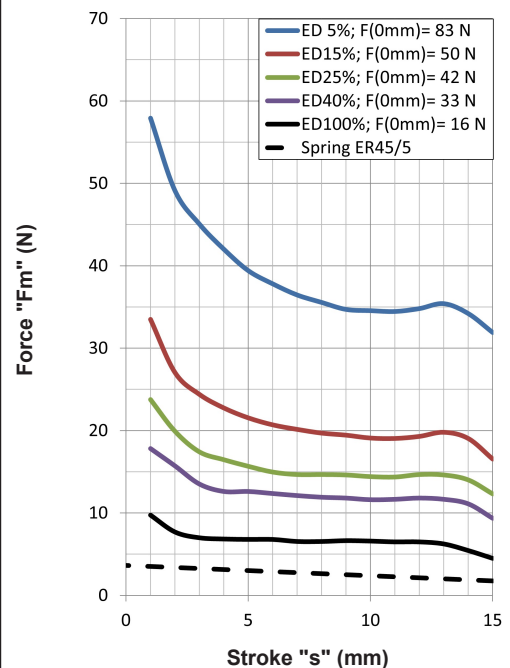
Voltage: 48Vdc; Duty cycle: ED15%; Without spring:  
 ERC45-50-15/C 12Vdc ED15% RN

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

Solenoid under voltage (s=0mm position)



Force-stroke curve



Calculation of the effective force: see pages 1 and 31

For fixation and mounting positions: see page 31