

# ECM13-03/E TYPE

Solenoid protection rate: IP30(EN60529)  
 Insulation class: B (130°C)  
 Cycle duration: 2 minutes  
 Standard stroke "s": 3 mm  
 Temperature rise: "ΔV<sub>31</sub>" 70°C  
 Work: push  
 Incorporated return spring: NO

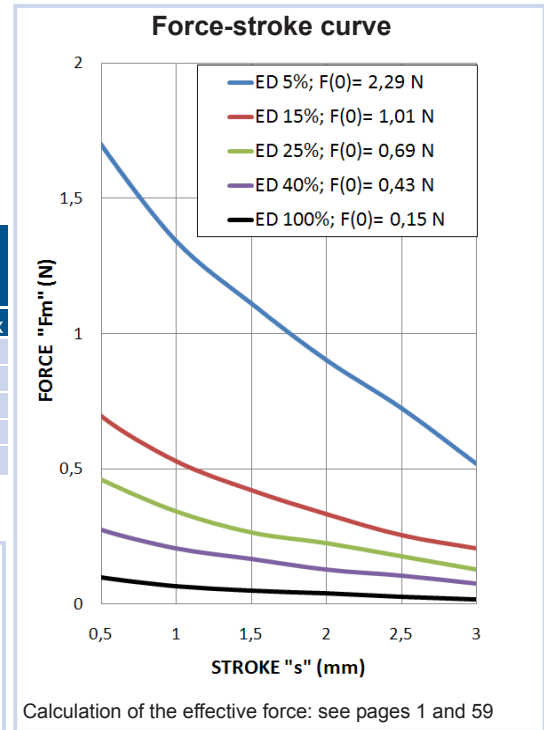


Duty-cycle ED(%)	100	40	25	15	5
Abs. Power at 20°C (W)	1	2.5	4	6.6	20
Minimum force (N)	0.02	0.08	0.12	0.2	0.5
Max time under voltage(s)	∞	48	30	18	6
Plunger weight (g)	4				
Solenoid weight (g)	25				

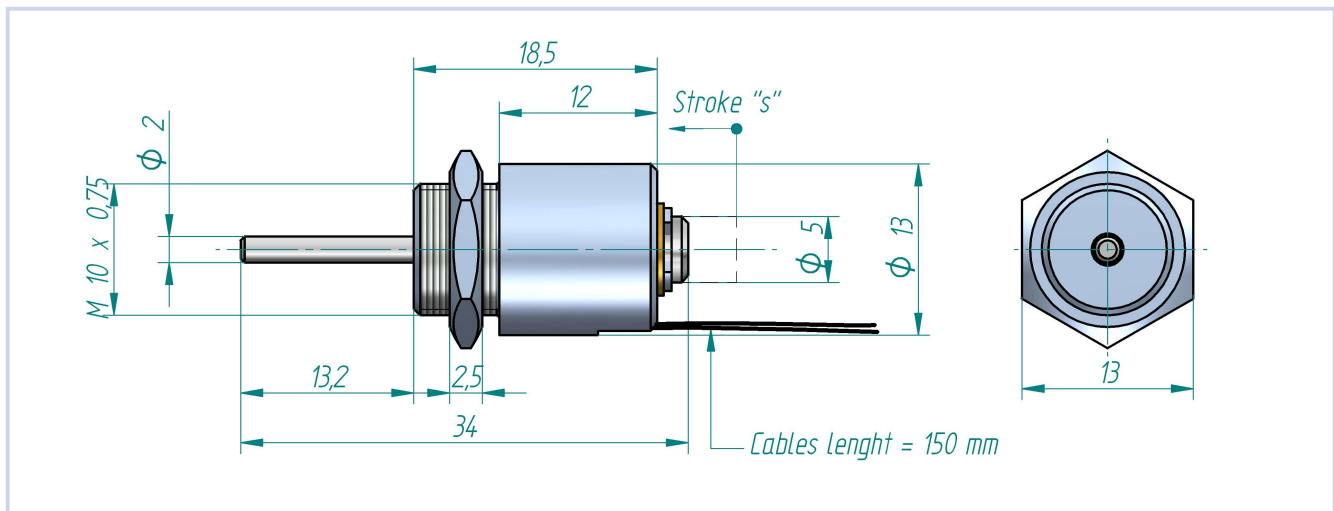
Duty-cycle ED%	Standard voltages								Under demand voltages				
	VDC						VAC		VDC		VAC		
	6	12	24	48	100	125	205	110	230	Min	Max	Min	Max
100%	o	o	o	x	x	x	x	x	x	1.5	24	x	x
40%	o	o	o	o	x	x	x	x	x	1.5	48	x	x
25%	o	o	o	o	x	x	x	x	x	1.5	48	x	x
15%	o	o	o	o	x	x	x	x	x	1.5	48	x	x
5%	o	o	o	o	o	x	x	x	x	3	110	x	x

Layout: o = Available ; x = Unavailable

- 1) Voltage under demand: They can be manufactured at any voltage between the maximum and minimum voltage values shown in the chart.
- 2) The duty-cycles described in the chart are standard, they can be manufactured in any intermediate cycle.
- 3) If any variation from the original is needed, please ask us.
- 4) Earthing is recommended if the metallic parts are accessible.



## Solenoid under voltage



For fixation of the solenoid: see page 59

Ordering code: ECM13-03/E --V ED---%

Example: Standard voltage:24Vdc Duty-cycle: ED100%: ECM13-03/E 24Vdc ED100%  
 Standard voltage:12Vdc Duty-cycle: ED15%: ECM13-03/E 12Vdc ED15%