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NAFSA - ER SERIES

ER35/C
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- Single acting, spring or load return
- Up to class F winding (155°C)
- Duty cycle from 0 to 100%
- Up to 234N force
- Customer specific version available

PRODUCT DESCRIPTION

The ER series of electromagnets are a single acting solenoid.

When an electrical connection is made to to coil, the plunger moves through the magnetic field and pushes the shaft along its designated stroke.

Upon removing the electrical connection, the shaft is retracted to its rest position using either a mechanical spring or the load applied.

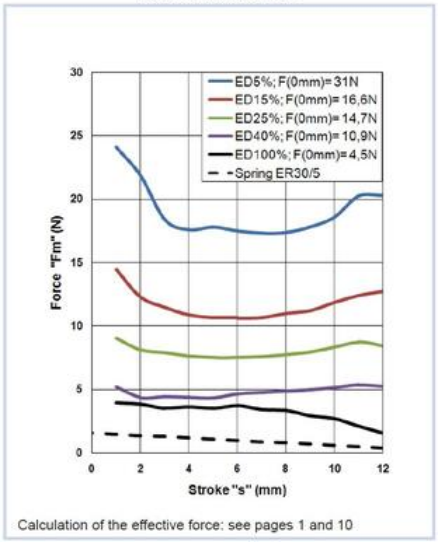
Many different standard versions are available (please see catalogue PDF below) and application specific designs can be provided for larger volume requirements.

TECHNICAL DATA

Absorbed power @ 20°C, 100% duty	9 W
Absorbed power @ 20°C, 15% duty	60 W
Absorbed power @ 20°C, 25% duty	35 W
Absorbed power @ 20°C, 40% duty	20 W
Absorbed power @ 20°C, 5% duty	150 W
Beginning of stroke force at 100% duty	1.5 N
Beginning of stroke force at 15% duty	10.6 N
Beginning of stroke force at 25% duty	7.5 N
Beginning of stroke force at 40% duty	4.3 N
Beginning of stroke force at 5% duty	17.3 N
End of stroke force at 100% duty	4.5 N
End of stroke force at 15% duty	16.6 N
End of stroke force at 25% duty	14.7 N
End of stroke force at 40% duty	10.9 N

End of stroke force at 5% duty	31 N
Function	pull/push
Insulation class	B (130°C)
IP class	IP00
Spring return	Yes
Stroke	12 mm
Total weight	170 g
Voltage ac max	230 V
Voltage ac min	110 V
Voltage dc max	205 V
Voltage dc min	6 V

Force stroke curve



Calculation of the effective force: see pages 1 and 10

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	o	o	o	o	o	o	4	230	36	230
40%	o	o	o	o	o	o	o	o	o	5	230	75	230
25%	o	o	o	o	o	o	o	o	o	6	230	105	230
15%	x	o	o	o	o	o	o	x	o	8	230	180	230
5%	x	o	o	o	o	o	o	x	x	12	230	x	x

Layout: o = Available ; x = Unavailable

Solenoid under voltage