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NAFSA - ER SERIES

ER30/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.

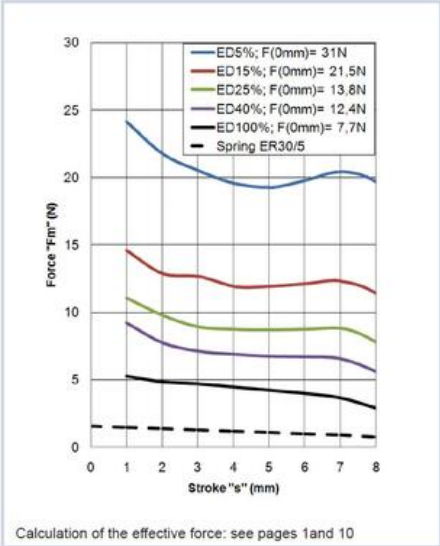
Many different standard versions are available (please see catalogue PDF below) and application specific designs can be provided for larger volume requirements.

TECHNICAL DATA

Absorbed power @ 20°C, 100% duty	8 W
Absorbed power @ 20°C, 15% duty	50 W
Absorbed power @ 20°C, 25% duty	30 W
Absorbed power @ 20°C, 40% duty	20 W
Absorbed power @ 20°C, 5% duty	120 W
Beginning of stroke force at 100% duty	29 N
Beginning of stroke force at 15% duty	114 N
Beginning of stroke force at 25% duty	78 N
Beginning of stroke force at 40% duty	56 N
Beginning of stroke force at 5% duty	197 N
End of stroke force at 100% duty	77 N
End of stroke force at 15% duty	215 N
End of stroke force at 25% duty	138 N
End of stroke force at 40% duty	12 N
End of stroke force at 5% duty	35 N

Function	pull/push
Insulation class	B (130°C)
IP class	IP00
Spring return	Yes
Stroke	8 mm
Total weight	140 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 1and 10

Duty-cycle ED%	Standard voltages VDC							Standard voltages VAC		Under demand voltages VDC		Under demand voltages VAC	
	6	12	24	48	100	125	205	110	230	Min	Max	Min	Max
100%	o	o	o	o	o	o	x	o	o	3	200	24	230
40%	o	o	o	o	o	o	o	o	o	5	230	50	230
25%	o	o	o	o	o	o	o	o	o	6	230	75	230
15%	o	o	o	o	o	o	o	x	o	6	230	125	230
5%	x	o	o	o	o	o	o	x	x	9	230	x	x

Layout: o = Available ; x = Unavailable

Solenoid under voltage

