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NAFSA - ER SERIES

ER25/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.

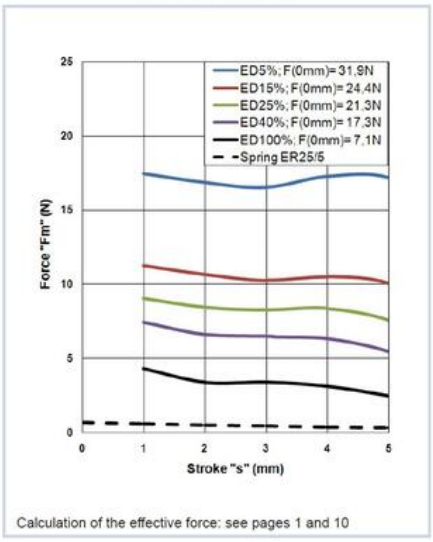
Many different standard versions are available (please see catalogue PDF below) and application specific designs can be provided for larger volume requirements.

TECHNICAL DATA

Absorbed power @ 20°C, 100% duty	7.5 W
Absorbed power @ 20°C, 15% duty	38 W
Absorbed power @ 20°C, 25% duty	25 W
Absorbed power @ 20°C, 40% duty	17 W
Absorbed power @ 20°C, 5% duty	95 W
Beginning of stroke force at 100% duty	2.5 N
Beginning of stroke force at 15% duty	10 N
Beginning of stroke force at 25% duty	7.5 N
Beginning of stroke force at 40% duty	5.4 N
Beginning of stroke force at 5% duty	17 N
End of stroke force at 100% duty	7 N
End of stroke force at 15% duty	24 N
End of stroke force at 25% duty	21 N
End of stroke force at 40% duty	17 N

End of stroke force at 5% duty	32 N
Function	pull/push
Insulation class	B (130°C)
IP class	IP00
Spring return	Yes
Stroke	5 mm
Total weight	85 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 VDC 6	12	24	48	100	125	205	VAC 110	230	Under demand voltages VDC Min	Max	VAC Min	Max
100%	o	o	o	o	o	o	x	x	x	3	140	x	x
40%	o	o	o	o	o	o	o	x	x	5	220	x	x
25%	o	o	o	o	o	o	o	x	x	5	230	x	x
15%	o	o	o	o	o	o	o	x	x	6	230	x	x
5%	x	o	o	o	o	o	o	x	x	9	230	x	x

Layout: o = Available ; x = Unavailable

Solenoid under voltage