

NAFSA - ER SERIES

ER48/T
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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 the 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.

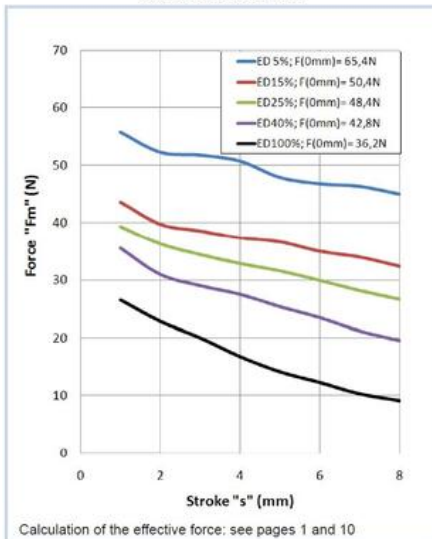
Many different standard versions are available (please see catalogue PDF below) and application specific designs can be provided for larger volume requirements.

TECHNICAL DATA

Absorbed power @ 20°C, 100% duty	15 W
Absorbed power @ 20°C, 15% duty	89 W
Absorbed power @ 20°C, 25% duty	54 W
Absorbed power @ 20°C, 40% duty	35 W
Absorbed power @ 20°C, 5% duty	271 W
Beginning of stroke force at 100% duty	9.1 N
Beginning of stroke force at 15% duty	32.5 N
Beginning of stroke force at 25% duty	26.7 N
Beginning of stroke force at 40% duty	19.5 N
Beginning of stroke force at 5% duty	45.1 N
End of stroke force at 100% duty	36.2 N
End of stroke force at 15% duty	50.4 N
End of stroke force at 25% duty	48.4 N
End of stroke force at 40% duty	42.8 N

End of stroke force at 5% duty	65.4 N
Function	pull/push
Insulation class	B (130°C)
IP class	IP00
Spring return	No
Stroke	8 mm
Total weight	292 g
Voltage ac max	230 V
Voltage ac min	110 V
Voltage dc max	205 V
Voltage dc min	6 V

Force stroke curve



Duty-cycle ED%	Standard voltages							Under demand voltages			
	VDC							VAC		VDC	VAC
	6	12	24	48	100	125	205	110	230	Min	Max
100%	o	o	o	o	o	o	o	o	o	5	230
40%	x	o	o	o	o	o	o	o	o	7	230
25%	x	o	o	o	o	o	o	x	o	9	230
15%	x	o	o	o	o	o	o	x	o	11	230
5%	x	x	o	o	o	o	o	x	x	16	230

Layout: o = Available ; x =Unavailable

Solenoid under voltage

