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## **NAFSA - ER SERIES**

ER45-05/C ER45-05/C

- 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.

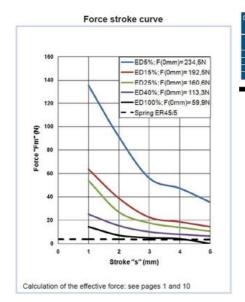
Upon removing the electrical connection, the shaft is retracted to its rest position using either a mechanical spring or the load applied.

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	12 W
Absorbed power @ 20°C, 15% duty	80 W
Absorbed power @ 20°C, 25% duty	48 W
Absorbed power @ 20°C, 40% duty	30 W
Absorbed power @ 20°C, 5% duty	240 W
Beginning of stroke force at 100% duty	0.1 N
Beginning of stroke force at 15% duty	14.4 N
Beginning of stroke force at 25% duty	10.6 N
Beginning of stroke force at 40% duty	6.3 N
Beginning of stroke force at 5% duty	35 N
End of stroke force at 100% duty	60 N
End of stroke force at 15% duty	190 N
End of stroke force at 25% duty	160 N
End of stroke force at 40% duty	110 N

End of stroke force at 5% duty	230 N
Function	pull/push
Insulation class	B (130°C)
IP class	IP00
Spring return	Yes
Stroke	5 mm
Total weight	285 g
Voltage ac max	230 V
Voltage ac min	110 V
Voltage dc max	205 V
Voltage dc min	6 V



Duty-cycle ED%	Standard voltages								Under demand				
	VDC							VAC		voltages VDC VAC			C
	6	12	24	48	100	125	205	110	230	Min	Max	Min	Max
100%	0	0	0	0	0	0	0	0	0	5	230	34	230
40%	X	0	0	0	0	0	0	0	0	7	230	86	230
25%	X	0	0	0	0	0	0	X	0	9	230	136	230
15%	X	0	0	0	0	0	0	X	0	11	230	230	230
5%	X	X	0	0	0	0	0	X	X	16	230	X	X
Layout:	0=	Ava	ilable	1	x = L	Inavail	able		1/2				

