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NAFSA - ERC SERIES

ERC30/C
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- Pull / push design, with optional spring
- Class B winding (130ºC)
- Duty cycle 0 to 100%
- Up to 191N force
- Customer specific version available

PRODUCT DESCRIPTION

The ERC series of electromagnets are a double acting push/pull 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 remains in position and is returned with reverse polarity or optional return spring.

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

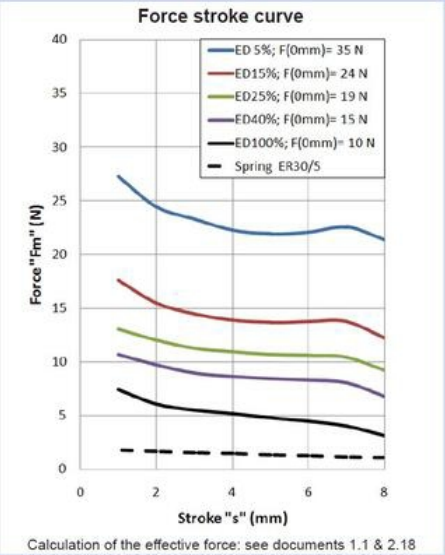
TECHNICAL DATA

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	3 N
Beginning of stroke force at 15% duty	12 N
Beginning of stroke force at 25% duty	9 N
Beginning of stroke force at 40% duty	6 N
Beginning of stroke force at 5% duty	21 N
End of stroke force at 100% duty	10 N
End of stroke force at 15% duty	24 N

End of stroke force at 25% duty	19 N
End of stroke force at 40% duty	15 N
End of stroke force at 5% duty	35 N
Function	pull/push
Insulation class	B(130ºC)
IP class	IP00
Spring return	Yes
Stroke	8 mm
Total weight	130 g
Voltage ac max	230 V
Voltage ac min	110 V
Voltage dc max	205 V
Voltage dc min	6 V
Voltage type	AC, DC

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



Calculation of the effective force: see documents 1.1 & 2.18

