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NAFSA - ERC SERIES

ERC35/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.

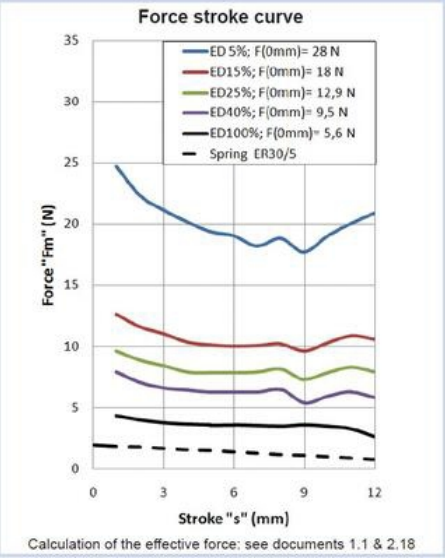
Many different standard versions are available (please see catalogue PDF below) and application specific designs can be provided for larger volume requirements.

TECHNICAL DATA

Absorbed power @ 20°C, 100% duty	9 W
Absorbed power @ 20°C, 15% duty	60 W
Absorbed power @ 20°C, 25% duty	35 W
Absorbed power @ 20°C, 40% duty	20 W
Absorbed power @ 20°C, 5% duty	150 W
Beginning of stroke force at 100% duty	26 N
Beginning of stroke force at 15% duty	105 N
Beginning of stroke force at 25% duty	79 N
Beginning of stroke force at 40% duty	58 N
Beginning of stroke force at 5% duty	21 N
End of stroke force at 100% duty	56 N
End of stroke force at 15% duty	18 N

End of stroke force at 25% duty	129 N
End of stroke force at 40% duty	95 N
End of stroke force at 5% duty	277 N
Function	pull/push
Insulation class	B(130ºC)
IP class	IP00
Spring return	Yes
Stroke	12 mm
Total weight	150 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(%)	100	40	25	15	5
Abs. Power at 20ºC (W)	9	20	35	60	150
Minimum force (N)	2.6	5.4	7.3	9.6	17.7
Max time under voltage(s)	∞	48	30	18	6
Plunger weight (g)	35				
Solenoid weight (g)	150				



Calculation of the effective force: see documents 1.1 & 2.18

