OEM Automatic Ltd
Address: Whiteacres, Whetstone Leicester, LE8 6ZG
0116 284 9900 | Orders@oem.co.uk | www.oem.co.uk

NAFSA - ECH SERIES

ECH110-45
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- Pull / push design, with optional spring
- Class B winding (130ºC)
- Duty cycle 0 to 100%
- Up to 2800N force
- Customer specific version available

PRODUCT DESCRIPTION

The ECH series is simple linear solenoid where the stroke movement from start to final position is made by the electromagnetic forces.

Return to start position is done by external forces or from a spring built into the solenoid.

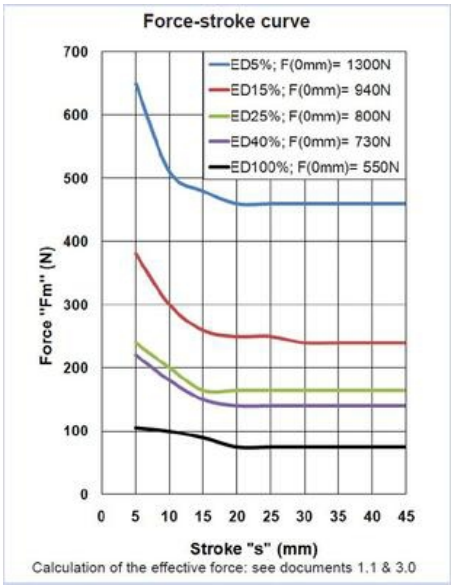
Featuring a plug in connector, the main body and electrical connector on the ECH series offers IP65 sealing.

The shaft mounting faces are IP40 and offer fixing locations with smooth surfaces for external sealing, depending on the applicaiton.

TECHNICAL DATA

Absorbed power @ 20°C, 100% duty	76 W
Absorbed power @ 20°C, 15% duty	420 W
Absorbed power @ 20°C, 25% duty	260 W
Absorbed power @ 20°C, 40% duty	175 W
Absorbed power @ 20°C, 5% duty	1260 W
Beginning of stroke force at 100% duty	75 N
Beginning of stroke force at 15% duty	240 N
Beginning of stroke force at 25% duty	165 N
Beginning of stroke force at 40% duty	150 N
Beginning of stroke force at 5% duty	460 N
End of stroke force at 100% duty	550 N
End of stroke force at 15% duty	940 N
End of stroke force at 25% duty	800 N
End of stroke force at 40% duty	730 N
End of stroke force at 5% duty	1300 N

Function	push/pull
Insulation class	B(130ºC)
IP class of solenoid body and connector	IP40
IP class of solenoid mounting face	IP65
Stroke	45 mm
Total weight	7300 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



Calculation of the effective force: see documents 1.1 & 3.0

Duty-cycle	Standard voltages									Under demand voltages			
ED%	VDC							VAC		VDC		VAC	
	6	12	24	48	100	125	205	110	230	Min	Max	Min	Max
100%	x	o	o	o	o	o	o	o	o	12	250	45	230
40%	x	x	o	o	o	o	o	o	o	19	250	105	230
25%	x	x	o	o	o	o	o	x	o	23	250	155	230
15%	x	x	x	o	o	o	o	x	o	29	250	230	230
5%	x	x	x	o	o	o	o	x	x	48	250	x	x

Layout: o = Available ; x = Unavailable

