

# DC Frame Solenoid

## Model 11HD



1425 Lake Avenue, Woodstock, IL 60098

### Features:

Available return spring kit  
AC & DC Applications (See Model 11HD AC)  
RoHS Compliant  
UL Recognized  
Coil Termination: 3/16" QC terminals

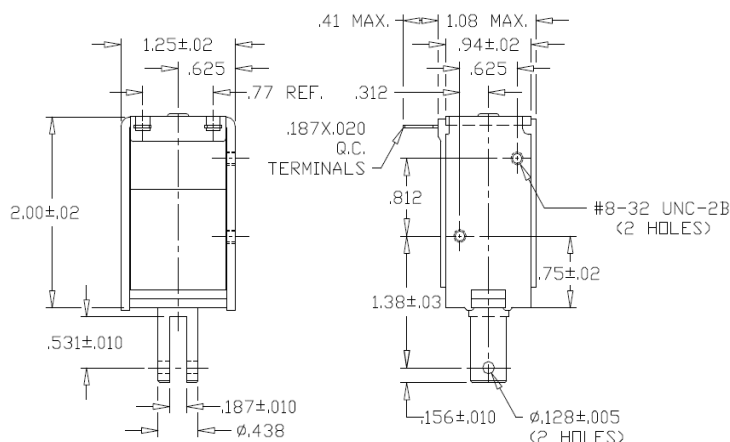
### Electrical:

Coil Voltages: 6, 12, 24, 48, 110 VDC standard  
Duty Cycle: 100% Continuous, 25% Intermittent,  
10% Intermittent, 1% Pulse  
Coil treatment: Plastic cover  
Insulation Class: Class A Rating - 105° C (221° F)  
Dielectric Strength: 1500V 60 Hz

### Mechanical:

Size: 1.54" (L) x 1.62" (W) x 1.57" (H)  
Plunger Diameter: 0.313"  
Plunger Guide Material: Plastic  
Mounting: 4 - #6-32 holes  
Weight: Plunger 1.3 oz, Total 6.5 oz  
Life Expectancy: 1 Million Cycles<sup>1</sup>

<sup>1</sup> - Dependent on load conditions



Solenoid shown energized with plunger fully seated

### Standard Part Numbers

Model No.	Part No.	Duty Cycle	Voltage	Resistance <sup>2</sup> (Ω)	Power (W)	Current
11HD-C-12D	A420-065762-00	Cont.	12VDC	19	8	632 mA
11HD-I-12D	A420-065763-00	Inter. 25%	12VDC	7.8	19.4	1.54 A
11HD-C-24D	A420-065764-00	Cont.	24VDC	76.3	7.9	315 mA
11HD-I-24D	A420-065765-00	Inter. 25%	24VDC	29.3	20.6	819 mA

<sup>2</sup> - Coil resistance tolerance +/- 5%

Contact us for custom voltages or duty cycles



### Available Customization:

- Plunger
  - DC Voltage / Duty Cycle
  - Coil Termination
  - Insulation systems up to class H 180° C (356° F)
- \* Minimum quantities apply

Typical Pull Force Ounces [N] @ 20°C (68°F) (Distance from fully seated position)									HOLDING FORCE Ounces [N]	Power (W)
Stroke (in.)	0.050	0.125	0.250	0.375	0.500	0.625	0.750	1.000		
Continuous 100%	70 [19.5]	35 [9.7]	14 [3.9]	8 [2.2]	5 [1.4]	3 [0.8]	2 [0.6]	1 [0.3]	150 [41.7]	8
Intermittent 25%	100 [27.8]	73 [20.3]	35 [9.7]	22 [6.1]	18 [5]	10 [2.8]	7 [1.9]	5 [1.4]	168 [46.7]	20
Intermittent 10% <sup>3</sup>	150 [41.7]	115 [32]	82 [22.8]	60 [16.7]	42 [11.7]	30 [8.3]	20 [5.6]	10 [2.8]	180 [50]	72.2
Pulse 1% <sup>3</sup>	190 [52.8]	170 [47.3]	138 [38.4]	110 [30.6]	90 [25]	65 [18.1]	55 [15.3]	25 [7]	N/A	146.8

Continuous Duty 100% = 100% On Time

Intermittent Duty 25% = 25% On Time (100 Seconds On Max Followed By 300 Seconds Off)

Intermittent Duty 10% = 90% On Time (10 Seconds On Max Followed By 90 Seconds Off)

Pulse Duty 1% = 99% On Time (1 Second On Max Followed By 99 Seconds Off)

<sup>3</sup> - Calculated force values to be verified in application

### Optional Return Spring Kit

A490-367461-06



www.kelcoind.com

Information contained in this specification sheet subject to change without notice. Guardian Electric ©

