

# AC Frame Solenoid

## Model 28HD



1425 Lake Avenue, Woodstock, IL 60098

### Features:

Available return spring kit  
AC & DC Applications (See Model 28HD DC)  
UL Recognized  
RoHS Compliant  
Coil Termination: 3/16" QC terminals

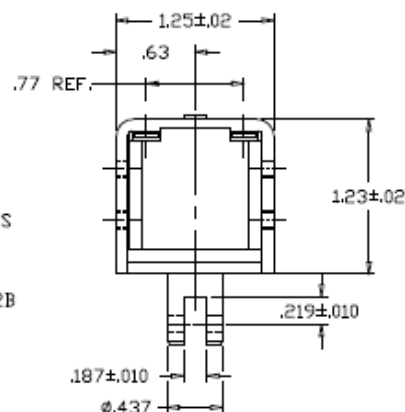
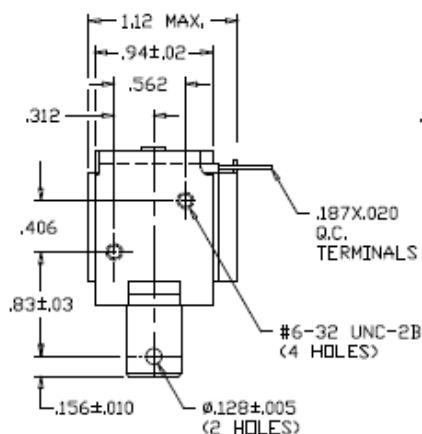
### Electrical:

Coil Voltages: 120, 240 VAC standard  
Duty Cycle: 100% Continuous, 25% Intermittent,  
10% Intermittent, 1% Intermittent  
Coil treatment: Plastic cover  
Insulation Class: Class A Rating - 105° C (221° F)  
Dielectric Strength: 1500V 60 Hz

### Mechanical:

Size: 1.23" (L) x 1.12" (W) x 1.25" (H)  
Plunger Diameter: 0.437"  
Plunger Guide Material: Plastic  
Mounting: 2 - #6-32 holes  
Weight: Plunger 1 oz, Total 6 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
28HD-C-120A	A420-065956-00	Cont.	120VAC	375	9	75 mA
28HD-I-120A	A420-065957-00	Inter. 20%	120VAC	173	28	233 mA
28HD-C-240A	A420-065958-00	Cont.	240VAC	1480	9	38 mA
28HD-I-240A	A420-065959-00	Inter. 20%	240VAC	800	28	117 mA

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

Contact us for custom voltages or duty cycles



### Available Customization:

- Plunger
  - AC 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]
Stroke (in.)	0.050	0.125	0.250	0.375	
Continuous 100%	12 [3.3]	9 [2.5]	6 [1.7]	4 [1.1]	35 [9.7]
Intermittent 20%	24 [6.7]	18 [5]	13 [3.6]	8 [2.2]	61 [17]

Continuous Duty = 100% On Time

Intermittent Duty 20% = 20% On Time (4 Minutes On Max Followed By 16 Minutes Off)

Optional Return  
Spring Kit

A490-367462-09



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

