

DC Frame Solenoid

Model 3HD



1425 Lake Avenue, Woodstock, IL 60098



Features:

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

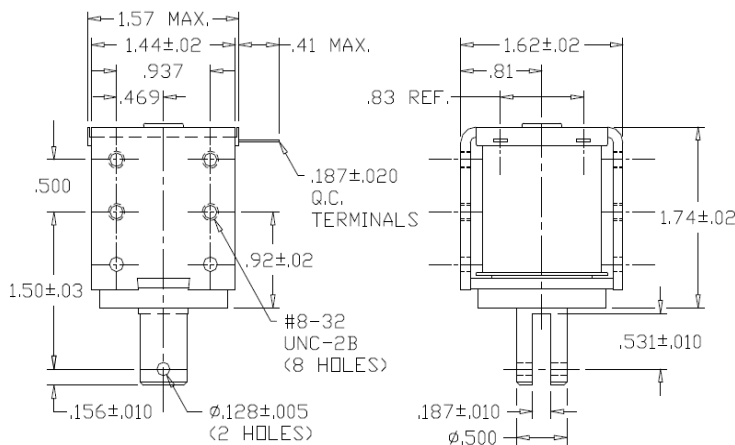
Electrical:

- Coil Voltages: 6, 12, 24, 48, 110VDC 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: 0.50"
- Plunger Guide Material: Plastic
- Mounting: 8 - #8-32 holes
- Weight: Plunger 1.5 oz, Total 10.7 oz
- Life Expectancy: 1 Million Cycles¹

¹ - Dependent on load conditions



Solenoid shown energized with plunger fully seated

Standard Part Numbers

Model No.	Part No.	Duty Cycle	Voltage	Resistance ² (Ω)	Power (W)	Current
3HD-C-12D	A420-065922-00	Cont.	12VDC	16.7	9.1	719 mA
3HD-I-12D	A420-065923-00	Inter. 25%	12VDC	5.45	27.7	2.2 A
3HD-C-24D	A420-065924-00	Cont.	24VDC	65.8	9.2	365 mA
3HD-I-24D	A420-065925-00	Inter. 25%	24VDC	22.1	27.4	1.09 A

² - 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

Stroke (in.)	Typical Pull Force Ounces [N] @ 20°C (68°F) (Distance from fully seated position)									HOLDING FORCE Ounces [N]	Power (W)
	0.050	0.125	0.250	0.375	0.500	0.625	0.750	1.000			
Continuous 100%	115 [32]	55 [15.3]	20 [5.6]	10 [2.8]	8 [2.2]	4 [1.1]	2 [0.6]	1 [0.3]	145 [40.3]	9.2	
Intermittent 25%	165 [45.9]	107 [29.7]	60 [16.7]	40 [11.1]	30 [8.3]	15 [4.2]	12 [3.3]	5 [1.4]	181 [50.3]	27.7	
Intermittent 10% ³	230 [63.9]	205 [57]	145 [40.3]	110 [30.6]	80 [22.2]	50 [13.9]	35 [9.7]	10 [2.8]	265 [73.7]	72.2	
Pulse 1% ³	280 [77.8]	260 [72.3]	225 [62.6]	180 [50.]	140 [38.9]	90 [25.]	55 [15.3]	17 [4.7]	290 [80.6]	146.8	

Optional Return Spring Kit
A490-367461-02

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)
³ - Calculated force values to be verified in application



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

