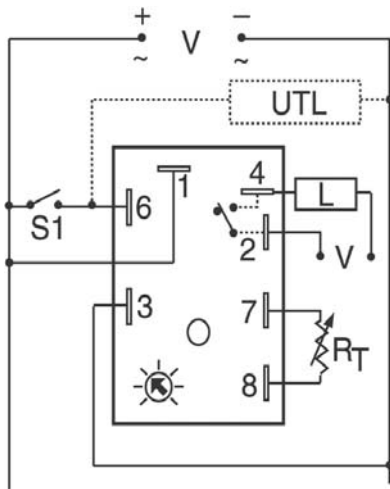


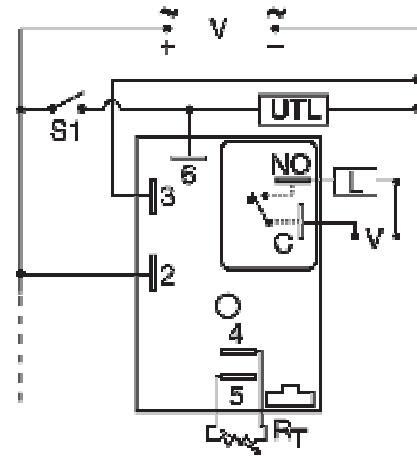
## SSAC Product Line Conversion Notification March 28, 2005

### HRDB Series Part Numbers

<b>Important Differences Between Product Designs</b>																										
<b>Specifications</b>	<b>Pre 2005 Design</b>	<b>2005 Generation II Design</b>																								
<b>Time Delay</b>																										
Range	0.2 s ... 100 m in 5 adjustable ranges or fixed	0.1 s ... 100 m in 5 adjustable ranges or fixed																								
Repeat Accuracy	+/-0.5 %	+/-0.5% or 20 ms, whichever is greater																								
Tolerance (Factory Calibration)	+/-1%, +/-10%	+/-1%, +/-5%																								
Reset Time	≤ 500 ms	≤ 150 ms																								
RT Values (for external adjustment)	0-1 MΩ.	0-100 KΩ. (see note)																								
<b>Input</b>																										
Tolerance	12 VDC, 24VAC/DC: -15% ... +20% 120 & 230VAC: -20%...+10%	12 VDC, 24VDC: -15% ... +20% 24 ... 230 VAC: -20% ... +10%																								
<b>Output</b>																										
Form	Single pole, normally open, non-isolated	SPDT Isolated																								
Contact Ratings @ 125 VAC	General purpose; UL: 15A, CSA: 30A Motor load; UL: 1HP, CSA: 1HP	<table style="width: 100%; border: none;"> <tr> <td></td> <td style="text-align: center;"><b>SPDT-N.O.</b></td> <td style="text-align: center;"><b>SPDT-N.O.</b></td> </tr> <tr> <td style="padding: 5px;">General Purpose</td> <td style="padding: 5px;">125/240 VAC</td> <td style="padding: 5px;">30 A</td> </tr> <tr> <td style="padding: 5px;">Resistive</td> <td style="padding: 5px;">125/240 V AC</td> <td style="padding: 5px;">30 A</td> </tr> <tr> <td></td> <td style="padding: 5px;">28 V DC</td> <td style="padding: 5px;">20 A</td> </tr> <tr> <td style="padding: 5px;">Motor Load</td> <td style="padding: 5px;">125 V AC</td> <td style="padding: 5px;">1 hp*</td> </tr> <tr> <td></td> <td style="padding: 5px;">240 V AC</td> <td style="padding: 5px;">2 hp**</td> </tr> <tr> <td></td> <td></td> <td style="padding: 5px;">1/4 hp**</td> </tr> <tr> <td></td> <td></td> <td style="padding: 5px;">1 hp**</td> </tr> </table>		<b>SPDT-N.O.</b>	<b>SPDT-N.O.</b>	General Purpose	125/240 VAC	30 A	Resistive	125/240 V AC	30 A		28 V DC	20 A	Motor Load	125 V AC	1 hp*		240 V AC	2 hp**			1/4 hp**			1 hp**
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240 VAC	General purpose; UL: 10A, CSA: 10A Motor load; UL: 1HP, CSA: 1HP																									
30 VDC	Resistive; UL: 20A, CSA: 20A																									
Life	Mechanical -- 1 x 10 <sup>6</sup> , Electrical -- 1 x 10 <sup>5</sup>	Mechanical -- 1 x 10 <sup>6</sup> ; Electrical -- 1 x 10 <sup>5</sup> , *3 x 10 <sup>4</sup> , **6,000																								
<b>Mechanical</b>																										
Mechanical		Terminal layout is different.																								
Connection		Terminal connections are different.																								
<b>Environmental</b>																										
Operating Temperature	-20°C ... +60°C	-40°C ... +60°C																								



Pre 2005 Design



2005 Generation II Design

**Legend**

- V = Input Voltage
- L = Timed delayed load
- RT = External Adjustment Potentiometer
- UTL = Optional Untimed Load
- S1 = Initiate Switch
- Dashed lines are internal connections

- Note: 1.) VTP plug-on adjustment modules cannot be used with the 2005 Generation Design. An onboard adjustment option is available.
- 2.) The RT Value cannot exceed 100 k ohms. If the RT exceeds 200k ohms erratic timing may occur. This is normal and not an indication of a defective unit.