



MCR Kit High Temperature Alarm

Submittal Addendum

The information contained in this document is subject to change without notice and may not be suitable for all applications. While every precaution has been taken to ensure the accuracy and completeness of this document, Vertiv assumes no responsibility and disclaims all liability for damages result from use of this information or for any errors or omissions.

Refer to local regulations and building codes relating to the application, installation, and operation of this product. The consulting engineer, installer, and/or end user is responsible for compliance with all applicable laws and regulations relation to the application, installation, and operation of this product.

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Names of companies and products are trademarks or registered trademarks of the respective companies. Any questions regarding usage of trademark names should be directed to the original manufacturer.

Technical Support Site

If you encounter any installation or operational issues with your product, check the pertinent section of this manual to see if the issue can be resolved by following outlined procedures.

Visit <https://www.vertiv.com/en-us/support/> for additional assistance.

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Appendices

Appendix A: Technical Support and Contacts

A.1 Technical Support/Service in the United States

Vertiv Group Corporation

24x7 dispatch of technicians for all products.

1-800-543-2378

Liebert® Thermal Management Products

1-800-543-2378

Liebert® Channel Products

1-800-222-5877

Liebert® AC and DC Power Products

1-800-543-2378

A.2 Locations

United States

Vertiv Headquarters

1050 Dearborn Drive

Columbus, OH, 43085, USA

Europe

Via Leonardo Da Vinci 8 Zona Industriale Tognana

35028 Piove Di Sacco (PD) Italy

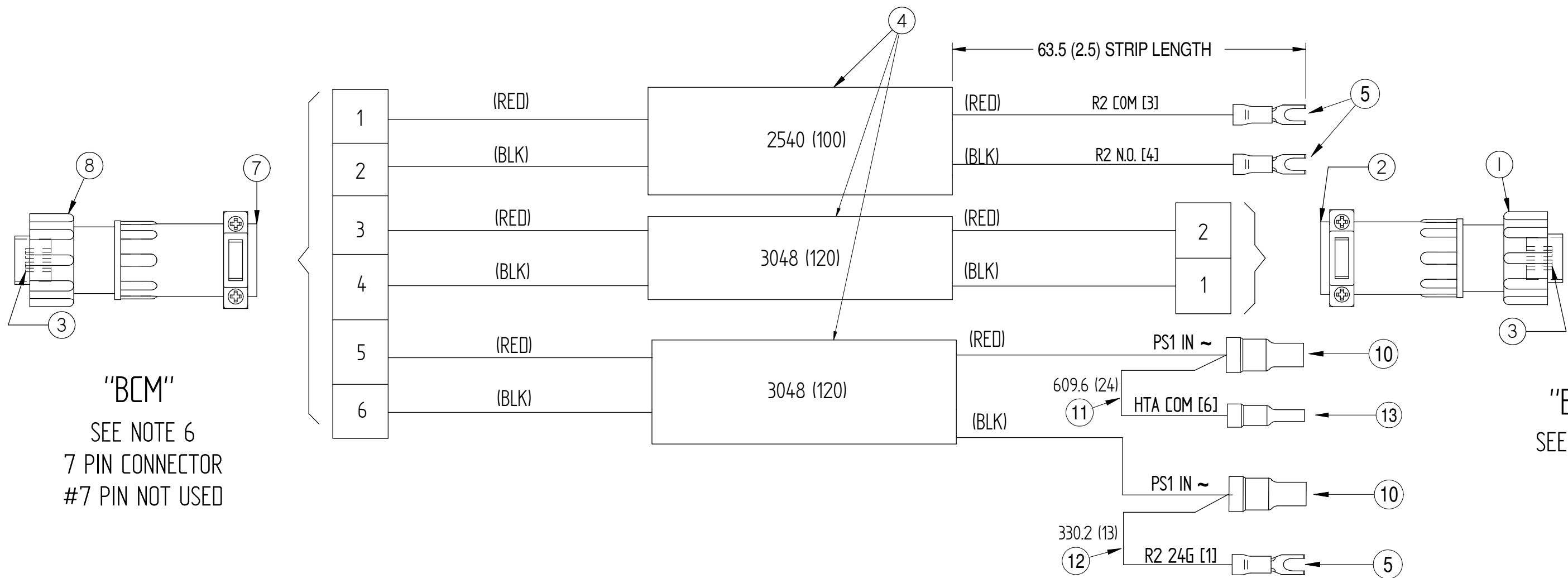
Asia

7/F, Dah Sing Financial Centre

3108 Gloucester Road, Wanchai

Hong Kong

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
6	REDRAWN ON NEW SOLID EDGE BORDER, ADDED "WITH LABEL, ITEM # 9009" TO NOTE 2.	06/03/2005	M. RAVEN A. MUNSELL
7	TERMINALS CHANGE, JUMPERS CONNECTED TO A DOUBLE FERRULE, JACKETED CABLE LENGHT MODIFICATION, HOT STAMPS MODIFICATION	6/3/2022	JOSE VALERIO

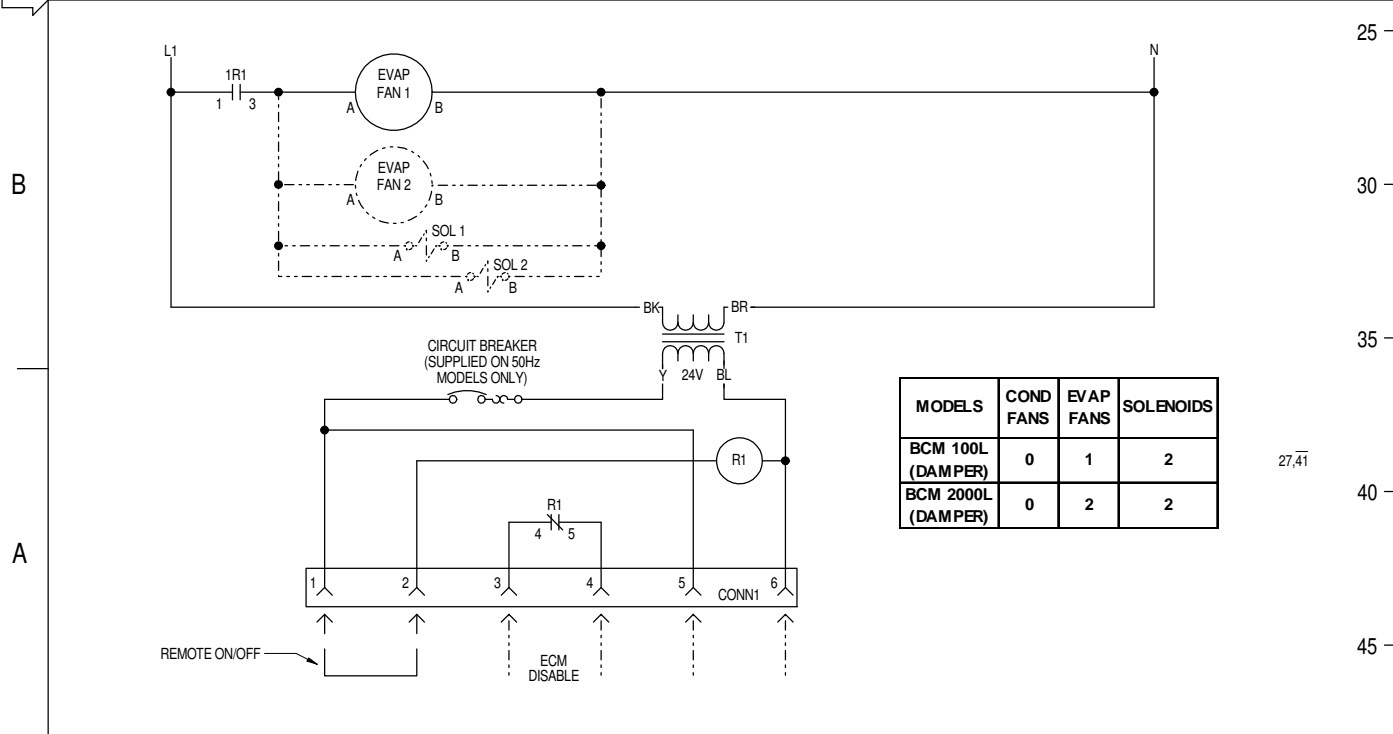
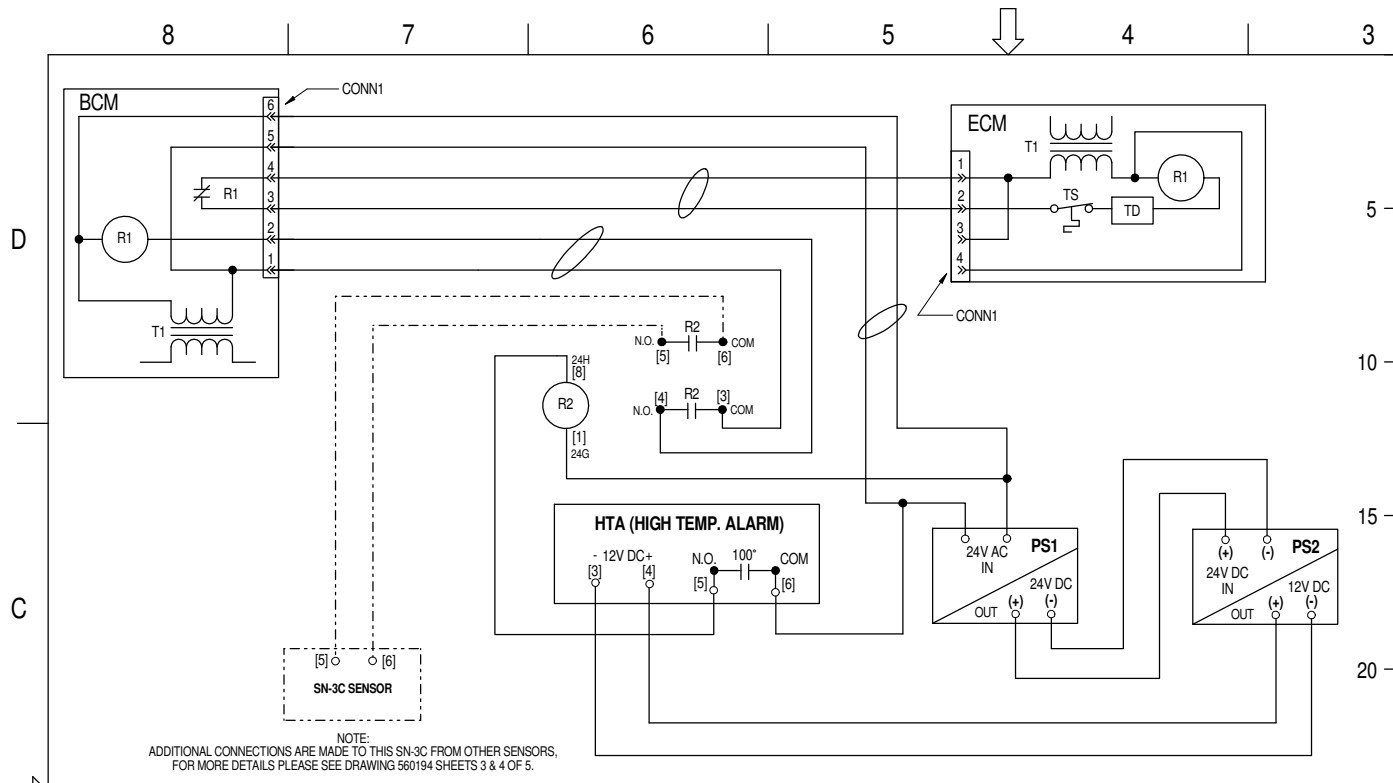


"BCM"
SEE NOTE 6
7 PIN CONNECTOR
#7 PIN NOT USED

"ECM"
SEE NOTE 6

- NOTES:
1. LENGTH TOLERANCES FOR EACH DIMENSIONED SEGMENT ARE +/- 6.35 (.25) UP TO 304.8 (12.00), +/- 12.7 (.50) FOR 304.8 (12.00) TO 609.6 (24.00), AND ABOVE 609.6 (24.00) SHALL BE EQUAL TO +/- 25.4 (1.0).
 2. WIRE IDENTIFICATION NUMBERS OR LETTERS INCLUDING INFORMATION IN BRACKETS SHALL BE HOT STAMPED OR LABELED ON EACH END OF A WIRE OR CABLE WITH LABEL, ITEM # 9009.
 3. ANY WIRE NOT TERMINATED INTO A TERMINAL/CONNECTOR SHALL BE PROVIDED WITH A STRIP LENGTH OF 6.35 (.25).
 4. ASSEMBLY MUST BE PROVIDED IN ACCORDANCE WITH LATEST REVISION OF LIEBERT ENGINEERING SPECIFICATION 1A10952.
 5. INFORMATION IN PARENTHESIS IS NOT TO BE HOT STAMPED.
 6. LABEL CONNECTORS AS INDICATED, LABEL MAYBE ATTACHED TO THE CABLE NEAR THE CONNECTOR.
 7. CABLE TIE CALLOUT # 6 USED TO SECURE WIRE HARNESS.

CONTROL CHARACTERISTICS SYMBOL LEGEND	CONTROL CHARACTERISTIC	163516G1	WH ENERGY SAVER CONTROL								
MATERIAL: NA	FINISH: NONE	PART NUMBER	DESCRIPTION								
MATERIAL NOTE: FABRICATE FROM THE MATERIAL SPECIFIED IN ACCORDANCE WITH THE CURRENT APPLICABLE VERTIV ENGINEERING SPECIFICATION OR AS OTHERWISE SPECIFIED ON THIS DRAWING.											
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DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED <table border="1"> <thead> <tr> <th>MM (PRIMARY)</th> <th>INCHES (SECONDARY)</th> </tr> </thead> <tbody> <tr> <td>X ±.2</td> <td>(.X) ±.1</td> </tr> <tr> <td>.X ±.8</td> <td>(.XX) ±.03</td> </tr> <tr> <td>.XX ±.38</td> <td>(.XXX) ±.015</td> </tr> </tbody> </table>		MM (PRIMARY)	INCHES (SECONDARY)	X ±.2	(.X) ±.1	.X ±.8	(.XX) ±.03	.XX ±.38	(.XXX) ±.015	THIRD ANGLE PROJECTION 	
MM (PRIMARY)	INCHES (SECONDARY)										
X ±.2	(.X) ±.1										
.X ±.8	(.XX) ±.03										
.XX ±.38	(.XXX) ±.015										
DRAWN: BRIAN ADOLPH CHECKED: NA ENGR: STEVE REES		DATE: 6/27/2000 DATE: NA DATE: 6/27/2000									
CORPORATION: 1EDC2 1050 DEARBORN DRIVE P.O. BOX 29186 COLUMBUS, OHIO 43229		TITLE: WIRE HARNESS ECONOMIZER LGH2									
SIZE: B		DRAWING NUMBER: 163516	SHEET: 1/1 REV: 7								



MODELS	COND FANS	EVAP FANS	SOLENOIDS
BCM 100L (DAMPER)	0	1	2
BCM 2000L (DAMPER)	0	2	2

NOTES:
1. SEE LIEBERT® MCR OPERATION AND MAINTENANCE MANUAL.

NOMENCLATURE

STANDARD DEVICES	LINE	OPTIONAL DEVICES	LINE
BCM-BACKUP COOLING MODULE	2		
ECM-ENVIRONMENTAL CONTROL MODULE	2		
HTA- HIGH TEMPERATURE ALARM	15		
PS1- POWER SUPPLY 1	16		
PS2- POWER SUPPLY 2	16		
R1-ECM' DE-ACTIVATION RELAY	4,39		
R2- RELAY FOR THE 'HTA'	11		
T1-UNIT CONTROL TRANSFORMER	3,9,35		

WIRING LEGEND

- FACTORY SUPPLIED LINE VOLTAGE WIRING
- - - FIELD SUPPLIED LINE VOLTAGE WIRING
- FACTORY SUPPLIED 24V WIRING
- - - FIELD SUPPLIED 24V WIRING
- · - · - · OPTIONAL WIRING
- ◀ PLUG CONNECTION (24VAC)

WIRE COLOR CODE

OR - ORANGE P - PURPLE BL - BLUE
 R - RED GN - GREEN BK - BLACK
 BR - BROWN Y - YELLOW W - WHITE

1050 DEARBORN DRIVE, P.O. BOX 29186 COLUMBUS, OHIO 43229 CAGE CODE 1EDC2

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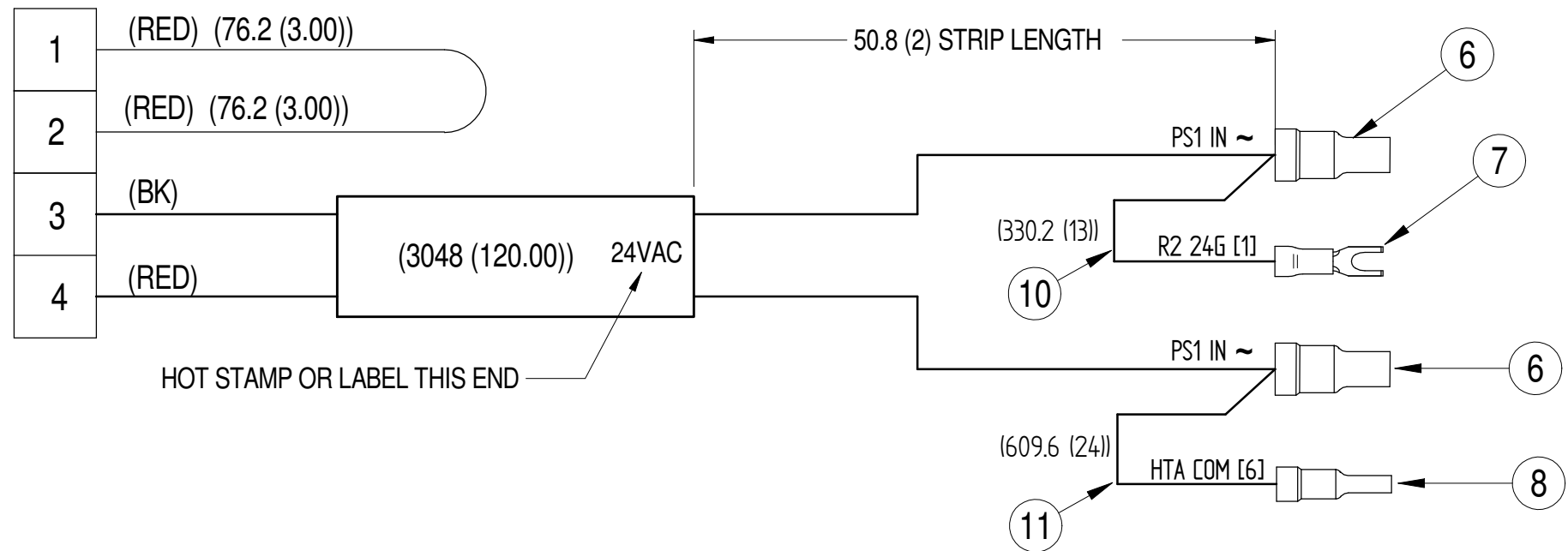
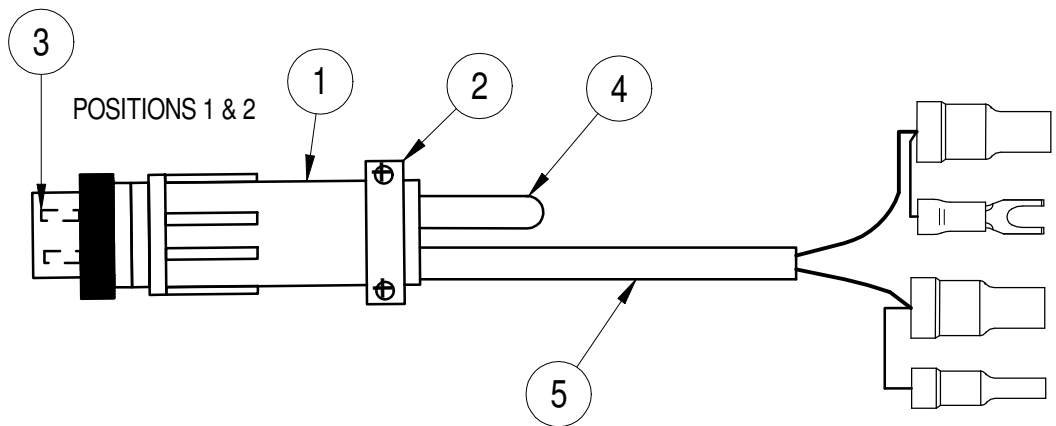
VERTIV™

ELECTRICAL SCHEMATIC ECONOMIZER CONTROL LIEBERT® MCR BCM

SCHEM BCM/ENERGY SAVER CONTRL

DRAWN B. ADOLPH	DATE 6/19/2000	DRAWING NO 163517	REV 7
CHECKED NA	DATE NA		
ENGR S. REES	DATE 6/19/2000		

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1	REV WIRE COLOR WAS (WHT) IS (RED) P/N WAS WRONG IT READ 163773G1 E000198	03/23/2000	B. ADOLPH S. REES
2	REVISED TO ADD ITEM CALLOUT #6 REDRAWN ON NEW BORDER	11/18/2005	B. ADOLPH S. REES
3	TERMINALS CHANGE, JUMPERS CONNECTED TO A DOUBLE FERRULE, HOT STAMPS MODIFICATION	6/22/2022	JOSE VALERIO MIKE NEAL

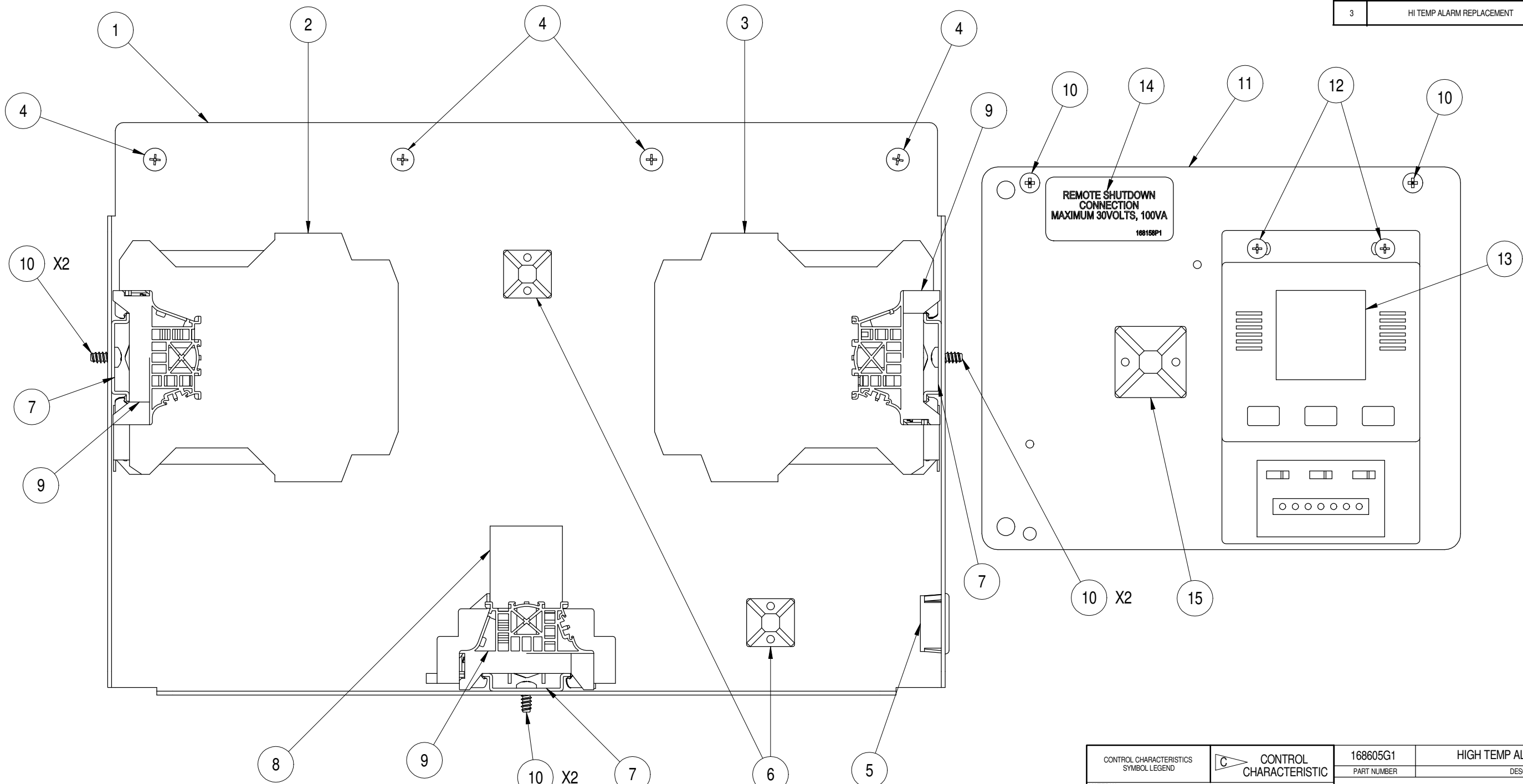


NOTES:

1. LENGTH TOLERANCES FOR EACH DIMENSIONED SEGMENT ARE $\pm 6.35 (.25)$ UP TO 305 (12), $\pm 13 (.5)$ FOR 305 (12) TO 610 (24.0), AND ABOVE 610 (24.0) SHALL BE EQUAL TO $\pm 25 (1.0)$.
2. WIRE IDENTIFICATION NUMBERS OR LETTERS INCLUDING INFORMATION IN BRACKETS SHALL BE HOT STAMPED ON EACH END OF A WIRE. INFORMATION IN PARENTHESIS IS NOT TO BE HOT STAMPED.
3. ASSEMBLY MUST BE PROVIDED IN ACCORDANCE WITH LATEST REVISION OF LIEBERT ENGINEERING SPECIFICATION 1A10952.
4. USE ITEM # 9009 FOR ID LABEL.

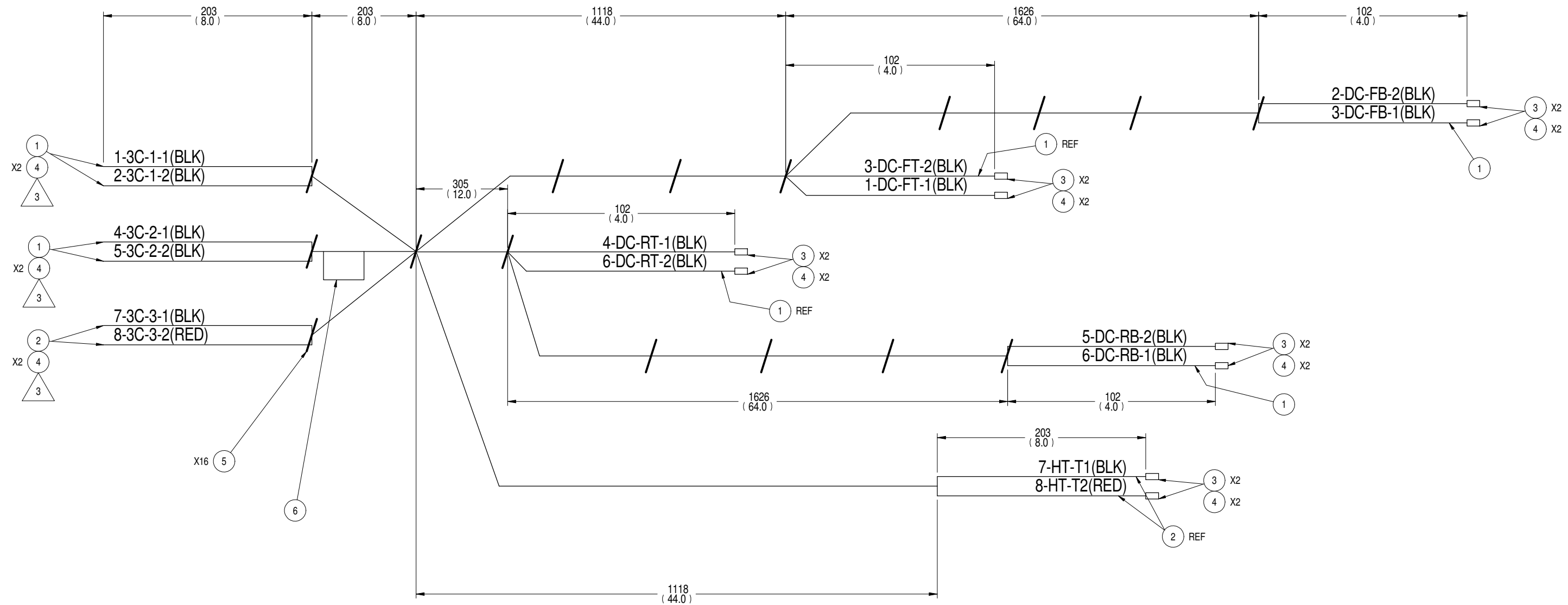
CONTROL CHARACTERISTICS SYMBOL LEGEND	CONTROL CHARACTERISTIC	163772G1	WH CON1 37/38 JUMPER LGH2										
MATERIAL:	NA	PART NUMBER	DESCRIPTION										
FINISH:	XXXXXX												
MATERIAL NOTE: FABRICATE FROM THE MATERIAL SPECIFIED IN ACCORDANCE WITH THE CURRENT APPLICABLE VERTIV ENGINEERING SPECIFICATION OR AS OTHERWISE SPECIFIED ON THIS DRAWING.													
DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED		<small>© VERTIV GROUP CORP. - CONFIDENTIAL AND PROPRIETARY - ALL RIGHTS RESERVED.</small> <small>THIS DOCUMENT (AND THE INFORMATION IT CONTAINS) ARE THE PROPERTY OF VERTIV GROUP CORP. BY ACCEPTING IT INTO YOUR POSSESSION, YOU AGREE THAT YOU WILL KEEP THIS DOCUMENT, AND ALL INFORMATION CONTAINED HEREIN, IN STRICTEST CONFIDENCE, AND WILL NOT COPY, REPRODUCE, TRANSMIT, USE (EXCEPT SOLELY FOR THE BENEFIT OF VERTIV GROUP CORP.), SELL, LEND OR OTHERWISE DISPOSE OF THE SAME, DIRECTLY OR INDIRECTLY, WITHOUT THE EXPRESS WRITTEN PERMISSION OF VERTIV GROUP CORP., AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORP. IMMEDIATELY UPON REQUEST.</small>											
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X ± 2	(.X) $\pm .1$												
.X $\pm .8$	(.XX) $\pm .03$												
.XX $\pm .38$	(.XXX) $\pm .015$												
ANGULAR $\pm 2^\circ$		DRAWN: B. ADOLPH DATE: 1/31/2000 CHECKED: NA DATE: NA ENGR: S. REES DATE: 1/31/2000											
CORPORATE CAGE CODE: 1EDC2		SIZE: B DRAWING NUMBER: 163772 SHEET: 1/1 REV: 3											

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1	REV TO ADD LABEL ITEM CALLOUT #8 E000876	12-15-00 12-15-00	B. Adolph S. Rees
2	ADDED SCHEMATIC INDICATING HOW TO CONNECT THE HI TEMP ALL ASSY TO ECM WHEN UNIT IS ORDERED WITH NO BCM	3-14-19	J. Harder
3	HI TEMP ALARM REPLACEMENT	6/15/22	J. Valerio



CONTROL CHARACTERISTICS SYMBOL LEGEND	CONTROL CHARACTERISTIC	168605G1	HIGH TEMP ALARM ASSY LGH2										
MATERIAL:	NA	PART NUMBER	DESCRIPTION										
FINISH:	NONE												
MATERIAL NOTE: FABRICATE FROM THE MATERIAL SPECIFIED IN ACCORDANCE WITH THE CURRENT APPLICABLE VERTIV ENGINEERING SPECIFICATION OR AS OTHERWISE SPECIFIED ON THIS DRAWING.													
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MM (PRIMARY)	INCHES (SECONDARY)												
X ±.2	(.X) ±.1												
.X ±.8	(.XX) ±.03												
.XX ±.38	(.XXX) ±.015												
ANGULAR	± 2°												
DRAWN: B. Adolph		DATE: 6/30/2000											
CHECKED:		DATE:											
ENGR: S. Rees		DATE: 6/30/2000											
CORPORATE CAGE CODE: 1EDC2		1050 DEARBORN DRIVE P.O. BOX 29186 COLUMBUS, OHIO 43229											
TITLE:		HIGH TEMP ASSY LGH2											
SIZE: B	DRAWING NUMBER: 168605	SHEET: 1/3	REV: 3										

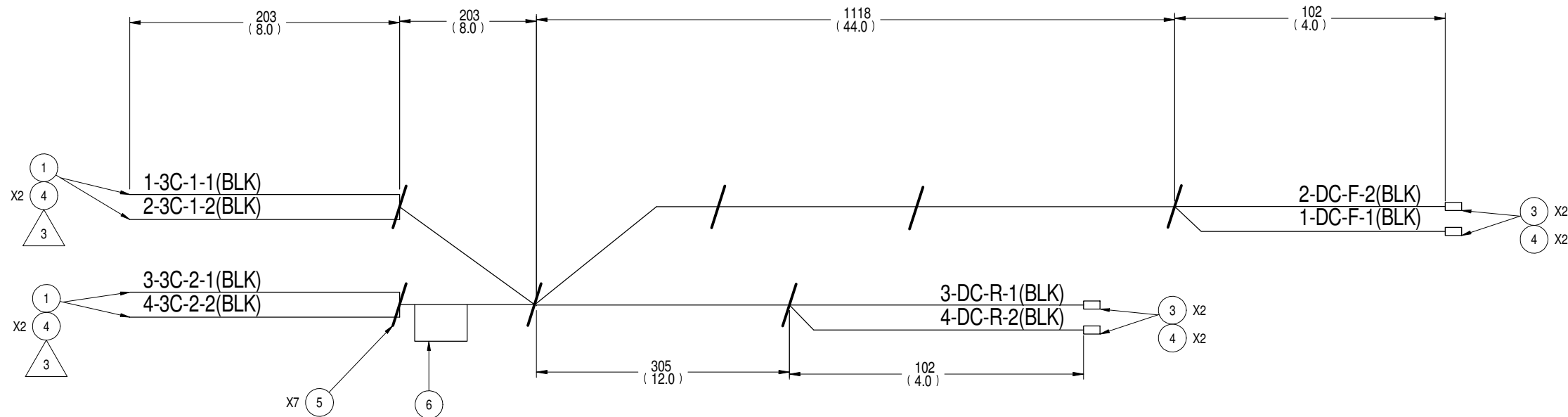
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1	ADDED SHEET 2. ADDED 560142G2.	10/12/2016	B. REINBOLT B. LYNCH
2	W4 AND W5 LENGTH REDUCED.	06/29/2017	B. REINBOLT B. LYNCH
3	ITEM 5 QTY WAS 23 [B7].	01/03/2018	B. LYNCH B. REINBOLT
4	SEE SHEET 2	06/03/2022	JOSE VALERIO MIKE NEAL



- NOTES:
- ASSEMBLY SHALL BE BUILT AND LABELED WITH ITEM #6 IN ACCORDANCE WITH LIEBERT SPECIFICATION 1A10952.
 - WIRE ENDS SHALL BE MARKED PER DRAWING USING ITEM #4. INFORMATION IN PARENTHESIS IS NOT MARKED.
 - CUT AROUND INSULATION 1/4" BACK ON ALL NON-TERMINATED WIRES AND LEAVE INSULATION IN PLACE.
 - WIRE HARNESS MUST BE 100% TESTED FOR CONTINUITY AND SHORTS.
WIRE HARNESS MUST BE MARKED OR STAMPED AFTER TEST IS COMPLETED.
 - PLACE TYWRAPS IN APPROXIMATE LOCATION SHOWN.

CONTROL CHARACTERISTICS SYMBOL LEGEND	CONTROL CHARACTERISTIC	560142G1	WH DOOR AJAR X4+HT MCR								
MATERIAL:		PART NUMBER	DESCRIPTION								
FINISH:											
MATERIAL NOTE: FABRICATE FROM THE MATERIAL SPECIFIED IN ACCORDANCE WITH THE CURRENT APPLICABLE VERTIV ENGINEERING SPECIFICATION OR AS OTHERWISE SPECIFIED ON THIS DRAWING.											
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MM (PRIMARY)	INCHES (SECONDARY)										
X ±.2	(.X) ±.1										
.X ±.8	(.XX) ±.03										
.XX ±.38	(.XXX) ±.015										
ANGULAR ± 2°	CORPORATE CAGE CODE 1EDC2	1050 DEARBORN DRIVE P.O. BOX 29186 COLUMBUS, OHIO 43229									
DRAWN: BRAD REINBOLT	DATE: 9/14/2016	TITLE: WH DOOR AJAR X4/X2+HT MCR									
CHECKED: BRIAN LYNCH	DATE: 9/14/2016	SIZE: B	DRAWING NUMBER: 560142								
ENGR: BRAD REINBOLT	DATE: 9/14/2016	SHEET: 1/2	REV: 4								

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1	ADDED SHEET 2. ADDED 560142G2.	10/12/2016	B. REINBOLT B. LYNCH
2	W3 AND W4 LENGTH REDUCED.	06/29/2017	B. REINBOLT B. LYNCH
3	ITEM 5 QTY WAS 11 [B7].	01/03/2018	B. LYNCH B. REINBOLT
4	REMOVAL OF WIRES CONNECTING HT ALARM	06/03/2022	JOSE VALERIO MIKE NEAL



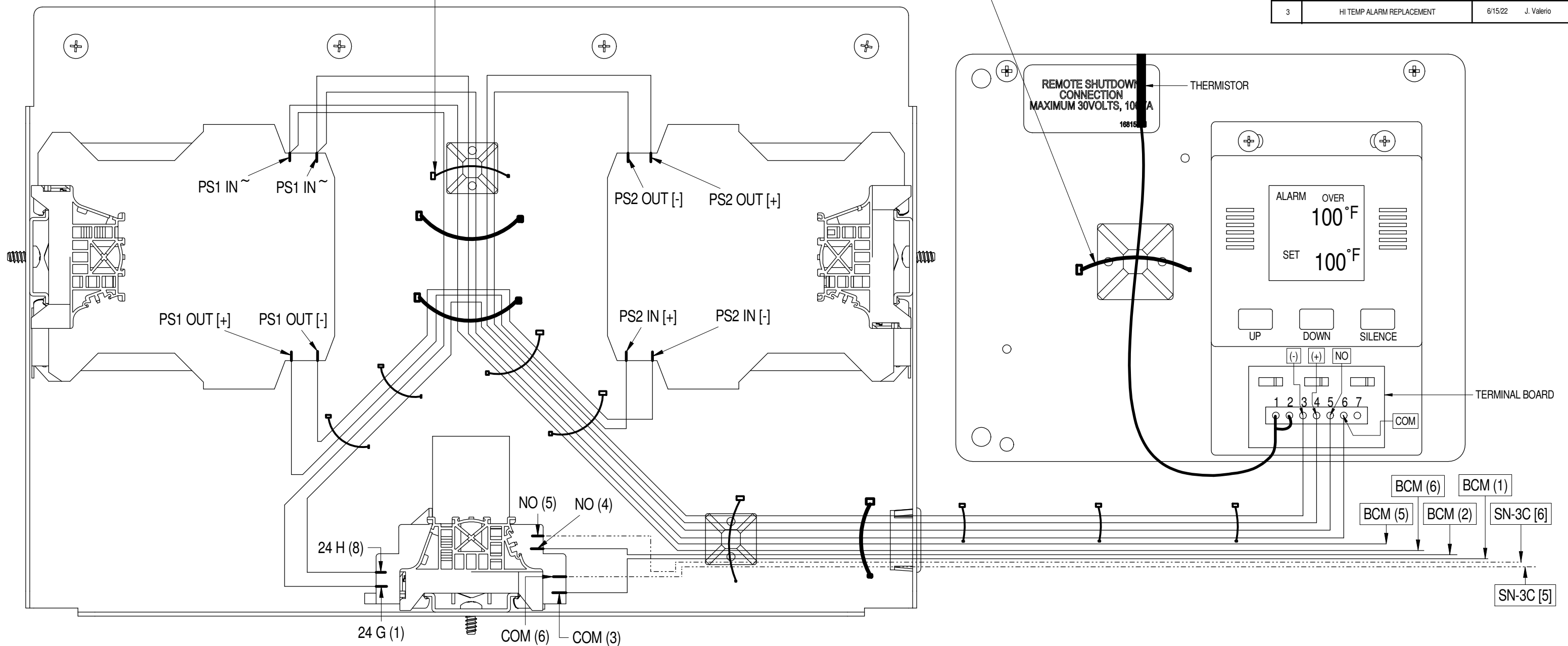
- NOTES:
- ASSEMBLY SHALL BE BUILT AND LABELED WITH ITEM #6 IN ACCORDANCE WITH LIEBERT SPECIFICATION 1A10952.
 - WIRE ENDS SHALL BE MARKED PER DRAWING USING ITEM #4. INFORMATION IN PARENTHESIS IS NOT MARKED.
 - CUT AROUND INSULATION 1/4" BACK ON ALL NON-TERMINATED WIRES AND LEAVE INSULATION IN PLACE.
 - WIRE HARNESS MUST BE 100% TESTED FOR CONTINUITY AND SHORTS. WIRE HARNESS MUST BE MARKED OR STAMPED AFTER TEST IS COMPLETED.
 - PLACE TYWRAPS IN APPROXIMATE LOCATION SHOWN.

CONTROL CHARACTERISTICS SYMBOL LEGEND	CONTROL CHARACTERISTIC	560142G2	WH DOOR AJAR X2+HT MCR
MATERIAL:		PART NUMBER	DESCRIPTION
FINISH:			
MATERIAL NOTE: FABRICATE FROM THE MATERIAL SPECIFIED IN ACCORDANCE WITH THE CURRENT APPLICABLE VERTIV ENGINEERING SPECIFICATION OR AS OTHERWISE SPECIFIED ON THIS DRAWING.			
DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED		THIRD ANGLE PROJECTION	
MM (PRIMARY)	INCHES (SECONDARY)		
X ±.2	(.X) ±.1	CORPORATE CAGE CODE: 1EDC2	
.X ±.8	(.XX) ±.03	1050 DEARBORN DRIVE P.O. BOX 29186 COLUMBUS, OHIO 43229	
.XX ±.38	(.XXX) ±.015	ANGULAR ± 2°	
DRAWN: BRAD REINBOLT	DATE: 9/14/2016	TITLE: WH DOOR AJAR X4/X2+HT MCR	
CHECKED: BRIAN LYNCH	DATE: 9/14/2016	SIZE: B	DRAWING NUMBER: 560142
ENGR: BRAD REINBOLT	DATE: 9/14/2016	SHEET: 2/2	REV: 4

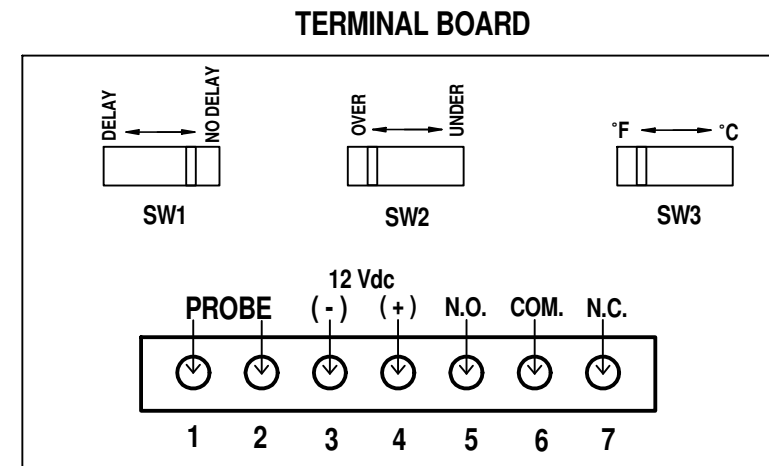
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1	REV TO ADD LABEL ITEM CALLOUT #8 E000876	12-15-00 12-15-00	B. Adolph S. Rees
2	ADDED SCHEMATIC INDICATING HOW TO CONNECT THE HI TEMP ALL ASSY TO ECM WHEN UNIT IS ORDERED WITH NO BCM	3-14-19	J. Harder
3	HI TEMP ALARM REPLACEMENT	6/15/22	J. Valerio

16 TYPICAL_PLACES

17 TYPICAL_PLACES



- NOTES:**
- FOR REFERENCE ONLY ON BCM UNITS.
 - REFER TO UNIT SCHEMATIC.
 - WIRE HARNESS WILL BE ON STRUCTURED TO ANOTHER ASSEMBLY.
 - REMOVE SWITCH COVER TO ACCESS CONTROLS IN TERMINAL BOARD AND ADJUST TO THE FOLLOWING POSITIONS:
SW1: NO DELAY
SW2: OVER
SW3: °F
 - SET THE TEMPERATURE ALARM THRESHOLD USING THE UP AND DOWN BUTTONS.
 - THE SET POINT IS 100 °F, REACHING THIS TEMPERATURE THE AUDIBLE ALARM WILL SOUND AND THE N.O. CONTACTS WILL CLOSE.
 - IF THE SILENCE BUTTON IS PRESSED DURING ALARM CONDITION OR THE TEMPERATURE AT THE DETECTOR DECREASES BELOW 100 °F, THE AUDIBLE ALARM WILL CEASE AND THE CONTACTS WILL RETURN TO THEIR NORMAL CONDITIONS.
 - SN-3C SENSOR AND WIRING OPTIONAL

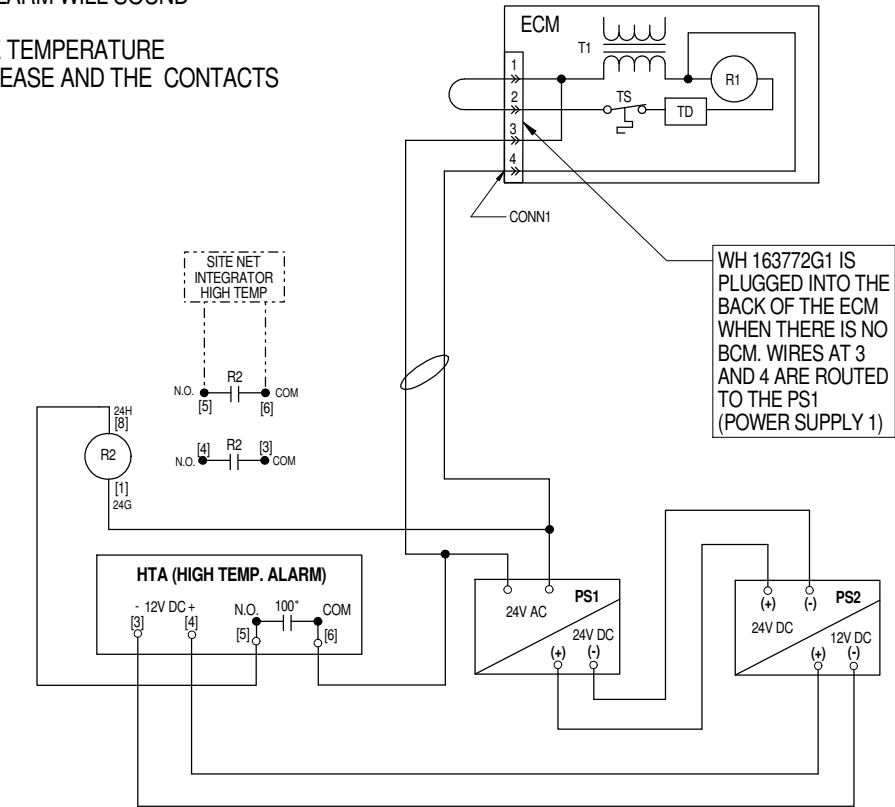
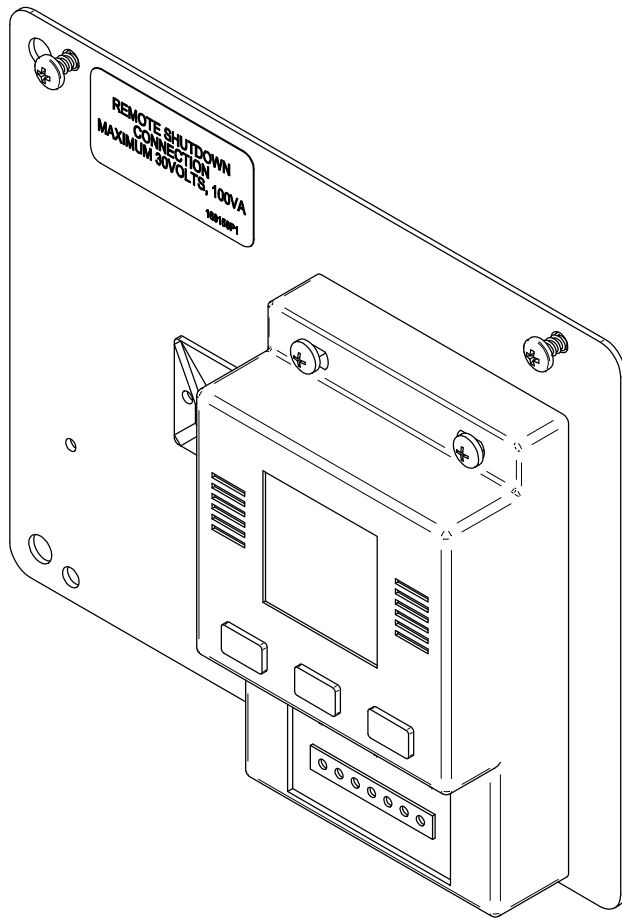
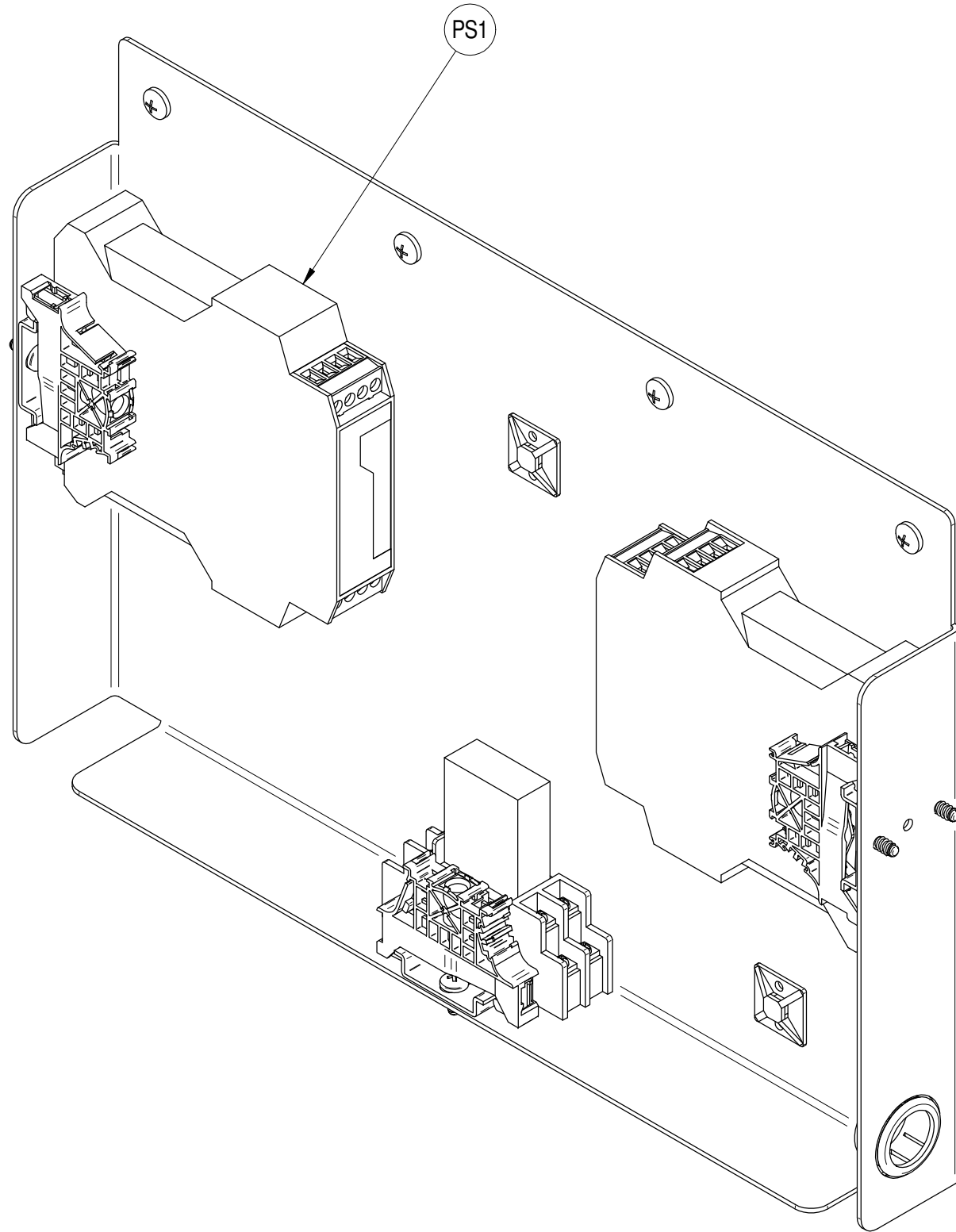


CONTROL CHARACTERISTICS SYMBOL LEGEND	CONTROL CHARACTERISTIC	168605G1	HIGH TEMP ALARM ASSY LGH2
MATERIAL: NA	FINISH: NONE	PART NUMBER	DESCRIPTION
MATERIAL NOTE: FABRICATE FROM THE MATERIAL SPECIFIED IN ACCORDANCE WITH THE CURRENT APPLICABLE VERTIV ENGINEERING SPECIFICATION OR AS OTHERWISE SPECIFIED ON THIS DRAWING.			
DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED		THIRD ANGLE PROJECTION	
MM (PRIMARY)	INCHES (SECONDARY)	CORPORATE CAGE CODE: 1EDC2	
X ±.2	(.X) ±.1	1050 DEARBORN DRIVE P.O. BOX 29186 COLUMBUS, OHIO 43229	
.X ±.8	(.XXX) ±.015	DRAWN: B. Adolph	DATE: 6/30/2000
.XX ±.38	±.2°	CHECKED:	DATE:
ANGULAR ±.2°		ENGR: S. Rees	DATE: 6/30/2000

		HIGH TEMP ASSY LGH2	
		SIZE: B	DRAWING NUMBER: 168605
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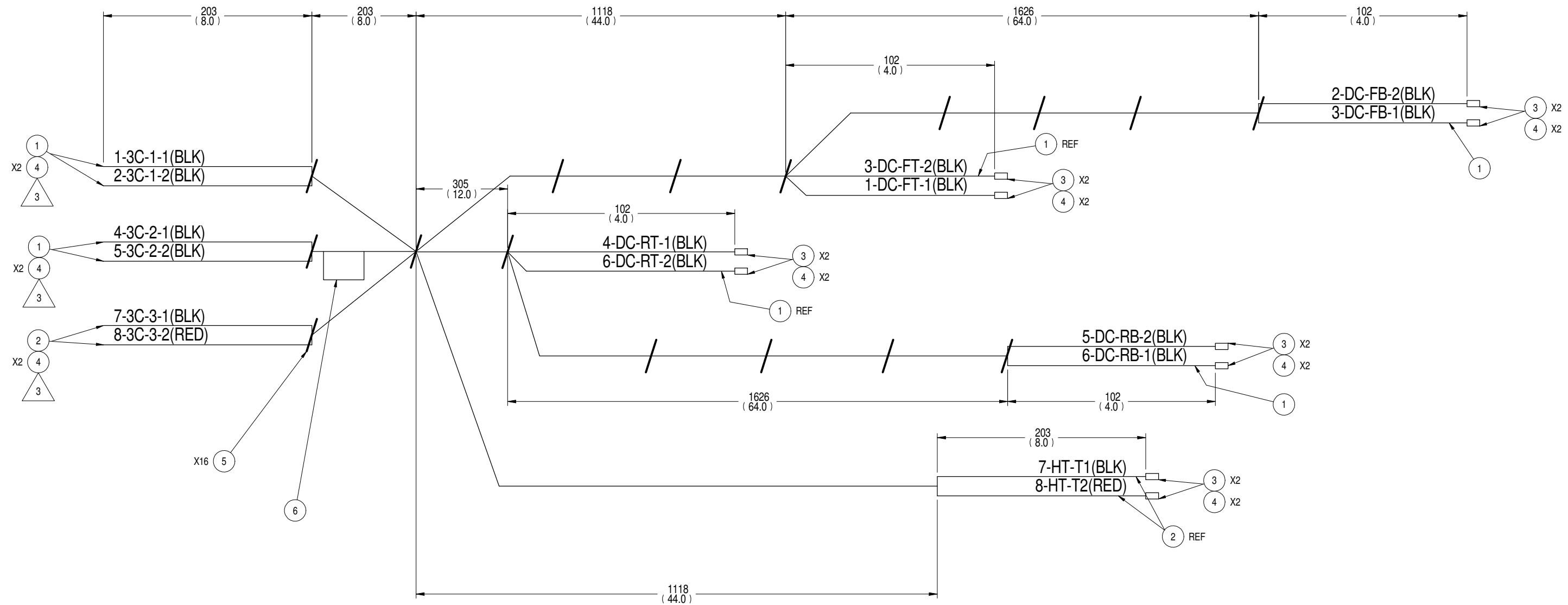
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1	REV TO ADD LABEL ITEM CALLOUT #8 E000876	12-15-00 12-15-00	B. Adolph S. Rees
2	ADDED SCHEMATIC INDICATING HOW TO CONNECT THE HI TEMP ALL ASSY TO ECM WHEN UNIT IS ORDERED WITH NO BCM	3-14-19	J. Harder
3	HI TEMP ALARM REPLACEMENT	6/15/22	J. Valerio

- NOTE:
- FOR REFERENCE ON UNITS WITHOUT BCM.
 - REFER TO UNIT SCHEMATIC.
 - WIRE HARNESS WILL BE ON STRUCTURED TO ANOTHER ASSEMBLY.
 - REMOVE SWITCH COVER TO ACCESS CONTROLS IN TERMINAL BOARD AND ADJUST TO THE FOLLOWING POSITIONS:
SW1: NO DELAY
SW2: OVER
SW3: °F
 - SET THE TEMPERATURE ALARM THRESHOLD USING THE UP AND DOWN BUTTONS.
 - THE SET POINT IS 100 °F, REACHING THIS TEMPERATURE THE AUDIBLE ALARM WILL SOUND AND THE N.O. CONTACTS WILL CLOSE.
 - IF THE SILENCE BUTTON IS PRESSED DURING ALARM CONDITION OR THE TEMPERATURE AT THE DETECTOR DECREASES BELOW 100 °F, THE AUDIBLE ALARM WILL CEASE AND THE CONTACTS WILL RETURN TO THEIR NORMAL CONDITIONS.



CONTROL CHARACTERISTICS SYMBOL LEGEND	CONTROL CHARACTERISTIC	168605G1	HIGH TEMP ALARM ASSY LGH2												
MATERIAL:	NA	PART NUMBER	DESCRIPTION												
FINISH:	NONE														
MATERIAL NOTE: FABRICATE FROM THE MATERIAL SPECIFIED IN ACCORDANCE WITH THE CURRENT APPLICABLE VERTIV ENGINEERING SPECIFICATION OR AS OTHERWISE SPECIFIED ON THIS DRAWING.															
DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED		<small>© VERTIV GROUP CORP. - CONFIDENTIAL AND PROPRIETARY - ALL RIGHTS RESERVED. THIS DOCUMENT (AND THE INFORMATION IT CONTAINS) ARE THE PROPERTY OF VERTIV GROUP CORP. BY ACCEPTING IT INTO YOUR POSSESSION, YOU AGREE THAT YOU WILL KEEP THIS DOCUMENT, AND ALL INFORMATION CONTAINED HEREIN, IN STRICTEST CONFIDENCE, AND WILL NOT COPY, REPRODUCE, TRANSMIT, USE (EXCEPT SOLELY FOR THE BENEFIT OF VERTIV GROUP CORP.), SELL, LEND OR OTHERWISE DISPOSE OF THE SAME, DIRECTLY OR INDIRECTLY, WITHOUT THE EXPRESS WRITTEN PERMISSION OF VERTIV GROUP CORP., AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORP. IMMEDIATELY UPON REQUEST.</small>													
<table border="1"> <thead> <tr> <th>MM (PRIMARY)</th> <th>INCHES (SECONDARY)</th> <th>THIRD ANGLE PROJECTION</th> </tr> </thead> <tbody> <tr> <td>X ±.2</td> <td>(.X) ±.1</td> <td rowspan="4"> </td> </tr> <tr> <td>.X ±.8</td> <td>(.XX) ±.03</td> </tr> <tr> <td>.XX ±.38</td> <td>(.XXX) ±.015</td> </tr> <tr> <td>ANGULAR</td> <td>± 2°</td> </tr> </tbody> </table>		MM (PRIMARY)	INCHES (SECONDARY)	THIRD ANGLE PROJECTION	X ±.2	(.X) ±.1		.X ±.8	(.XX) ±.03	.XX ±.38	(.XXX) ±.015	ANGULAR	± 2°	<small>CORPORATE CAGE CODE: 1EDC2</small> <small>1050 DEARBORN DRIVE P.O. BOX 29186 COLUMBUS, OHIO 43229</small>	
MM (PRIMARY)	INCHES (SECONDARY)	THIRD ANGLE PROJECTION													
X ±.2	(.X) ±.1														
.X ±.8	(.XX) ±.03														
.XX ±.38	(.XXX) ±.015														
ANGULAR	± 2°														
DRAWN: B. Adolph		DATE: 6/30/2000													
CHECKED:		DATE:													
ENGR: S. Rees		DATE: 6/30/2000													
SIZE: B		DRAWING NUMBER: 168605													
		SHEET: 3/3													
		REV: 3													

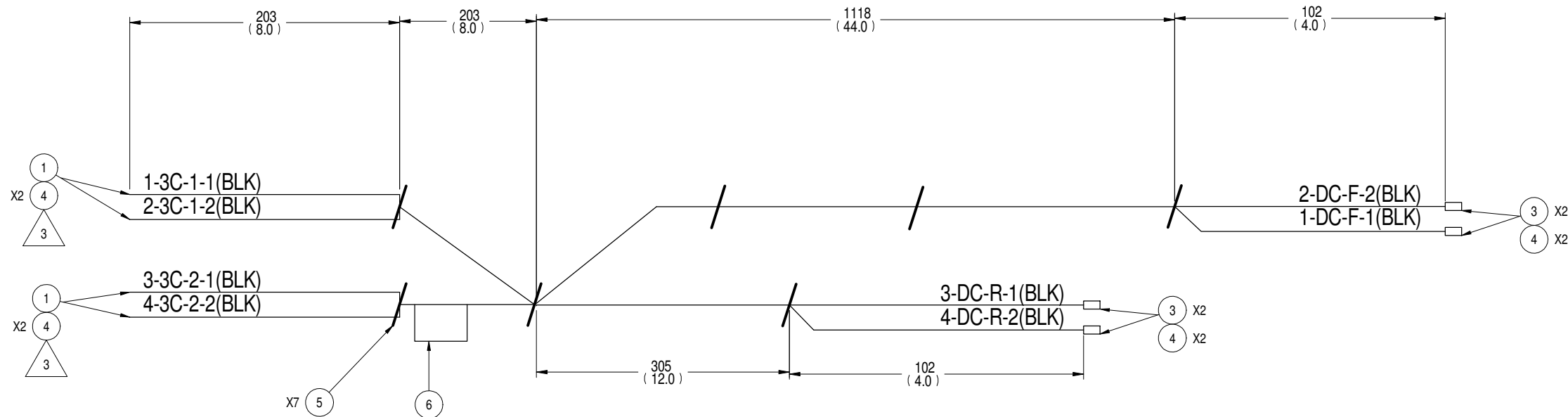
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1	ADDED SHEET 2. ADDED 560142G2.	10/12/2016	B. REINBOLT B. LYNCH
2	W4 AND W5 LENGTH REDUCED.	06/29/2017	B. REINBOLT B. LYNCH
3	ITEM 5 QTY WAS 23 [B7].	01/03/2018	B. LYNCH B. REINBOLT
4	SEE SHEET 2	06/03/2022	JOSE VALERIO MIKE NEAL



- NOTES:
- ASSEMBLY SHALL BE BUILT AND LABELED WITH ITEM #6 IN ACCORDANCE WITH LIEBERT SPECIFICATION 1A10952.
 - WIRE ENDS SHALL BE MARKED PER DRAWING USING ITEM #4. INFORMATION IN PARENTHESIS IS NOT MARKED.
 - CUT AROUND INSULATION 1/4" BACK ON ALL NON-TERMINATED WIRES AND LEAVE INSULATION IN PLACE.
 - WIRE HARNESS MUST BE 100% TESTED FOR CONTINUITY AND SHORTS.
WIRE HARNESS MUST BE MARKED OR STAMPED AFTER TEST IS COMPLETED.
 - PLACE TYWRAPS IN APPROXIMATE LOCATION SHOWN.

CONTROL CHARACTERISTICS SYMBOL LEGEND	CONTROL CHARACTERISTIC	560142G1	WH DOOR AJAR X4+HT MCR									
		PART NUMBER	DESCRIPTION									
MATERIAL:												
FINISH:												
MATERIAL NOTE: FABRICATE FROM THE MATERIAL SPECIFIED IN ACCORDANCE WITH THE CURRENT APPLICABLE VERTIV ENGINEERING SPECIFICATION OR AS OTHERWISE SPECIFIED ON THIS DRAWING.		<small>© VERTIV GROUP CORP. - CONFIDENTIAL AND PROPRIETARY - ALL RIGHTS RESERVED. THIS DOCUMENT (AND THE INFORMATION IT CONTAINS) ARE THE PROPERTY OF VERTIV GROUP CORP. BY ACCEPTING IT INTO YOUR POSSESSION, YOU AGREE THAT YOU WILL KEEP THIS DOCUMENT, AND ALL INFORMATION CONTAINED HEREIN, IN STRICTEST CONFIDENCE, AND WILL NOT COPY, REPRODUCE, TRANSMIT, USE (EXCEPT SOLELY FOR THE BENEFIT OF VERTIV GROUP CORP.), SELL, LEND OR OTHERWISE DISPOSE OF THE SAME, DIRECTLY OR INDIRECTLY, WITHOUT THE EXPRESS WRITTEN PERMISSION OF VERTIV GROUP CORP., AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORP. IMMEDIATELY UPON REQUEST.</small>										
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MM (PRIMARY)	INCHES (SECONDARY)											
X ±.2	(.X) ±.1											
.X ±.8	(.XX) ±.03											
.XX ±.38	(.XXX) ±.015											
ANGULAR ± 2°		CORPORATE CAGE CODE: 1EDC2 1050 DEARBORN DRIVE P.O. BOX 29186 COLUMBUS, OHIO 43229										
DRAWN: BRAD REINBOLT	DATE: 9/14/2016	TITLE: WH DOOR AJAR X4/X2+HT MCR										
CHECKED: BRIAN LYNCH	DATE: 9/14/2016											
ENGR: BRAD REINBOLT	DATE: 9/14/2016											
SIZE: B	DRAWING NUMBER: 560142	SHEET: 1/2	REV: 4									

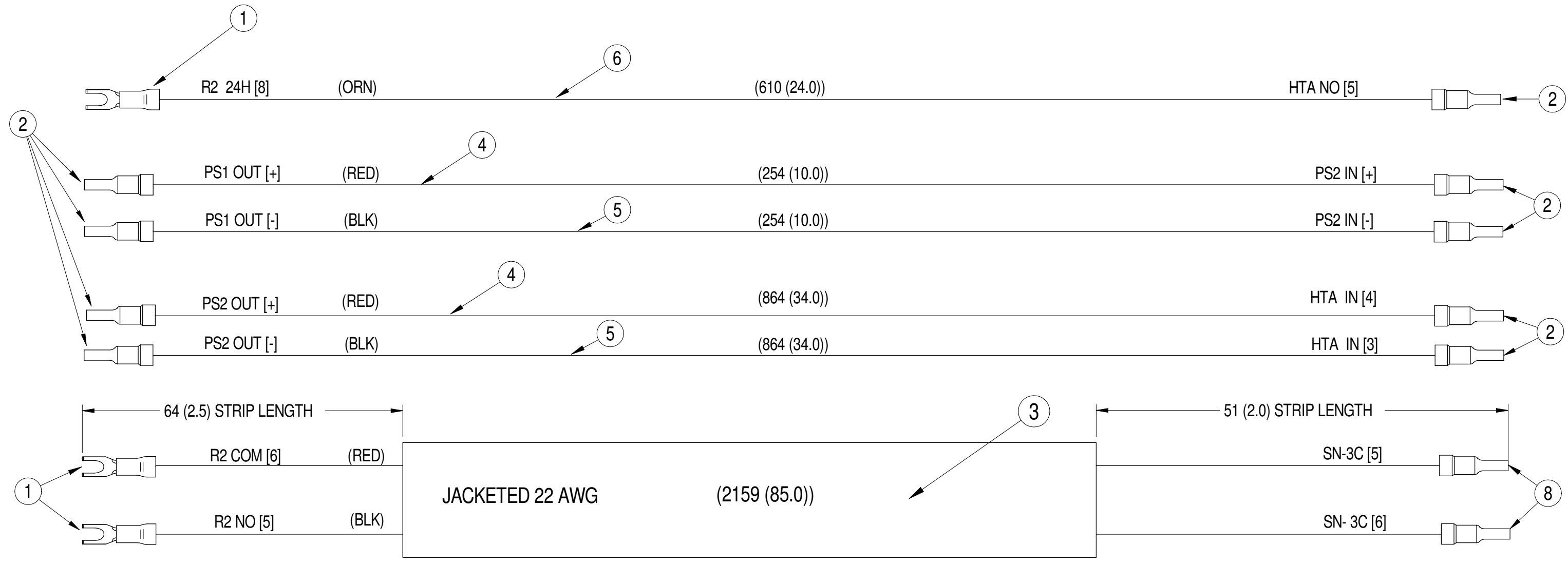
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1	ADDED SHEET 2. ADDED 560142G2.	10/12/2016	B. REINBOLT B. LYNCH
2	W3 AND W4 LENGTH REDUCED.	06/29/2017	B. REINBOLT B. LYNCH
3	ITEM 5 QTY WAS 11 [B7].	01/03/2018	B. LYNCH B. REINBOLT
4	REMOVAL OF WIRES CONNECTING HT ALARM	06/03/2022	JOSE VALERIO MIKE NEAL



- NOTES:
- ASSEMBLY SHALL BE BUILT AND LABELED WITH ITEM #6 IN ACCORDANCE WITH LIEBERT SPECIFICATION 1A10952.
 - WIRE ENDS SHALL BE MARKED PER DRAWING USING ITEM #4. INFORMATION IN PARENTHESIS IS NOT MARKED.
 - CUT AROUND INSULATION 1/4" BACK ON ALL NON-TERMINATED WIRES AND LEAVE INSULATION IN PLACE.
 - WIRE HARNESS MUST BE 100% TESTED FOR CONTINUITY AND SHORTS.
WIRE HARNESS MUST BE MARKED OR STAMPED AFTER TEST IS COMPLETED.
 - PLACE TYWRAPS IN APPROXIMATE LOCATION SHOWN.

CONTROL CHARACTERISTICS SYMBOL LEGEND	CONTROL CHARACTERISTIC	560142G2	WH DOOR AJAR X2+HT MCR
MATERIAL:		PART NUMBER	DESCRIPTION
FINISH:			
MATERIAL NOTE: FABRICATE FROM THE MATERIAL SPECIFIED IN ACCORDANCE WITH THE CURRENT APPLICABLE VERTIV ENGINEERING SPECIFICATION OR AS OTHERWISE SPECIFIED ON THIS DRAWING.			
DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED		THIRD ANGLE PROJECTION	
MM (PRIMARY)	INCHES (SECONDARY)		
X ±.2	(.X) ±.1	CORPORATE CAGE CODE: 1EDC2	
.X ±.8	(.XX) ±.03	1050 DEARBORN DRIVE P.O. BOX 29186 COLUMBUS, OHIO 43229	
.XX ±.38	(.XXX) ±.015	ANGULAR ± 2°	
DRAWN: BRAD REINBOLT	DATE: 9/14/2016	TITLE: WH DOOR AJAR X4/X2+HT MCR	
CHECKED: BRIAN LYNCH	DATE: 9/14/2016	SIZE: B	DRAWING NUMBER: 560142
ENGR: BRAD REINBOLT	DATE: 9/14/2016	SHEET: 2/2	REV: 4

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	6/3/2022	JOSE VALERIO

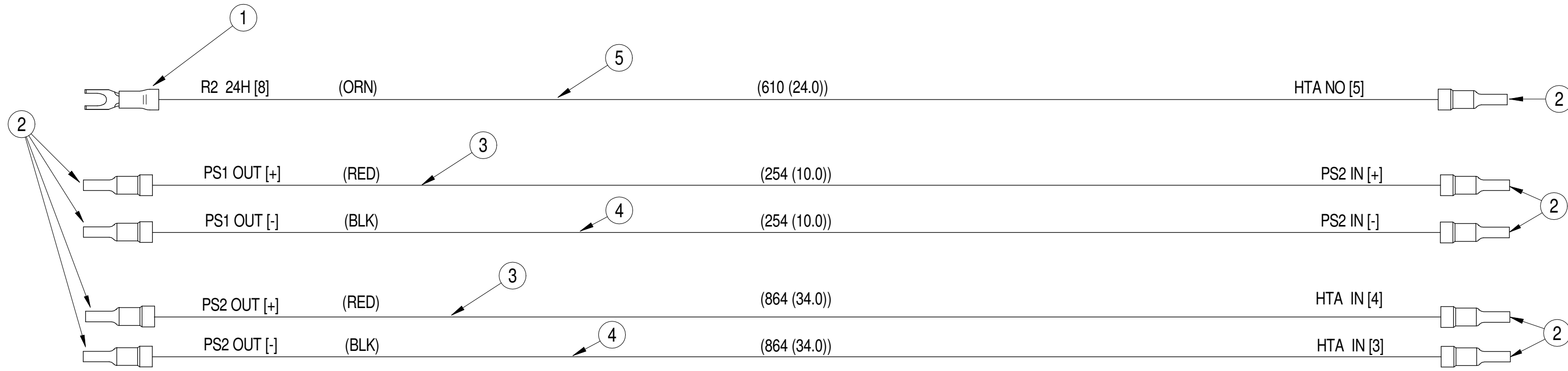


NOTES:

1. LENGTH TOLERANCES FOR EACH DIMENSIONED SEGMENT ARE $\pm 7.6 (.3)$ UP TO 305 (12), $\pm 13 (.5)$ FOR 305 (12) TO 610 (24.0), AND ABOVE 610 (24.0) SHALL BE EQUAL TO $\pm 25 (1.0)$.
2. WIRE IDENTIFICATION NUMBERS OR LETTERS INCLUDING INFORMATION IN BRACKETS SHALL BE HOT STAMPED ON EACH END OF A WIRE. INFORMATION IN PARENTHESIS IS NOT TO BE HOT STAMPED.
3. ASSEMBLY MUST BE PROVIDED IN ACCORDANCE WITH LATEST REVISION OF LIEBERT ENGINEERING SPECIFICATION 1A10952.
4. USE ITEM # 9009 FOR ID LABEL.
5. CABLE TIE CALLOUT # 7 USED TO SECURE WIRE HARNESS.
6. SHOWN LENGTH OF JACKETED CABLE INCLUDES THE STRIP LENGTH.

CONTROL CHARACTERISTICS SYMBOL LEGEND	CONTROL CHARACTERISTIC	10031558G1	WH HTA SN-3C MCR										
MATERIAL:	NA	PART NUMBER	DESCRIPTION										
FINISH:	NONE												
MATERIAL NOTE: FABRICATE FROM THE MATERIAL SPECIFIED IN ACCORDANCE WITH THE CURRENT APPLICABLE VERTIV ENGINEERING SPECIFICATION OR AS OTHERWISE SPECIFIED ON THIS DRAWING.													
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MM (PRIMARY)	INCHES (SECONDARY)												
X ± 2	(.X) $\pm .1$												
.X $\pm .8$	(.XXX) $\pm .03$												
.XX $\pm .38$	(.XXX) $\pm .015$												
ANGULAR	$\pm 2^\circ$												
DRAWN:	JOSE VALERIO	DATE:	6/3/2022										
CHECKED:	MIKE NEAL	DATE:	6/3/2022										
ENGR:	JOSE VALERIO	DATE:	6/3/2022										
CORPORATE CAGE CODE: 1EDC2		1050 DEARBORN DRIVE P.O. BOX 29186 COLUMBUS, OHIO 43229											
TITLE:		WH HIGH TEMP ALARM MCR											
SIZE:	B	DRAWING NUMBER:	10031558										
SHEET:	1/2	REV.:	A										

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	6/3/2022	JOSE VALERIO



NOTES:

1. LENGTH TOLERANCES FOR EACH DIMENSIONED SEGMENT ARE $\pm 7.6 (.3)$ UP TO 305 (12), $\pm 13 (.5)$ FOR 305 (12) TO 610 (24.0), AND ABOVE 610 (24.0) SHALL BE EQUAL TO $\pm 25 (1.0)$.
2. WIRE IDENTIFICATION NUMBERS OR LETTERS INCLUDING INFORMATION IN BRACKETS SHALL BE HOT STAMPED ON EACH END OF A WIRE. INFORMATION IN PARENTHESES IS NOT TO BE HOT STAMPED.
3. ASSEMBLY MUST BE PROVIDED IN ACCORDANCE WITH LATEST REVISION OF LIEBERT ENGINEERING SPECIFICATION 1A10952.
4. USE ITEM # 9009 FOR ID LABEL.
5. CABLE TIE CALLOUT # 6 USED TO SECURE WIRE HARNESS.

CONTROL CHARACTERISTICS SYMBOL LEGEND		C CONTROL CHARACTERISTIC		10031558G2	WH HTA NO SN-3C MCR	
MATERIAL: NA		FINISH: NONE		PART NUMBER DESCRIPTION		
MATERIAL NOTE: FABRICATE FROM THE MATERIAL SPECIFIED IN ACCORDANCE WITH THE CURRENT APPLICABLE VERTIV ENGINEERING SPECIFICATION OR AS OTHERWISE SPECIFIED ON THIS DRAWING.						
DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED		THIRD ANGLE PROJECTION				
MM (PRIMARY)	INCHES (SECONDARY)	CORPORATE CAGE CODE: 1EDC2		1050 DEARBORN DRIVE P.O. BOX 29186 COLUMBUS, OHIO 43229		
X ± 2	(.X) $\pm .1$	DRAWN: JOSE VALERIO		DATE: 6/3/2022		
.X $\pm .8$	(.XX) $\pm .03$	CHECKED: MIKE NEAL		DATE: 6/3/2022		
.XX $\pm .38$	(.XXX) $\pm .015$	ENGR: JOSE VALERIO		DATE: 6/3/2022		
ANGULAR $\pm 2^\circ$		SIZE B		DRAWING NUMBER 10031558		
				SHEET 2/2	REV. A	

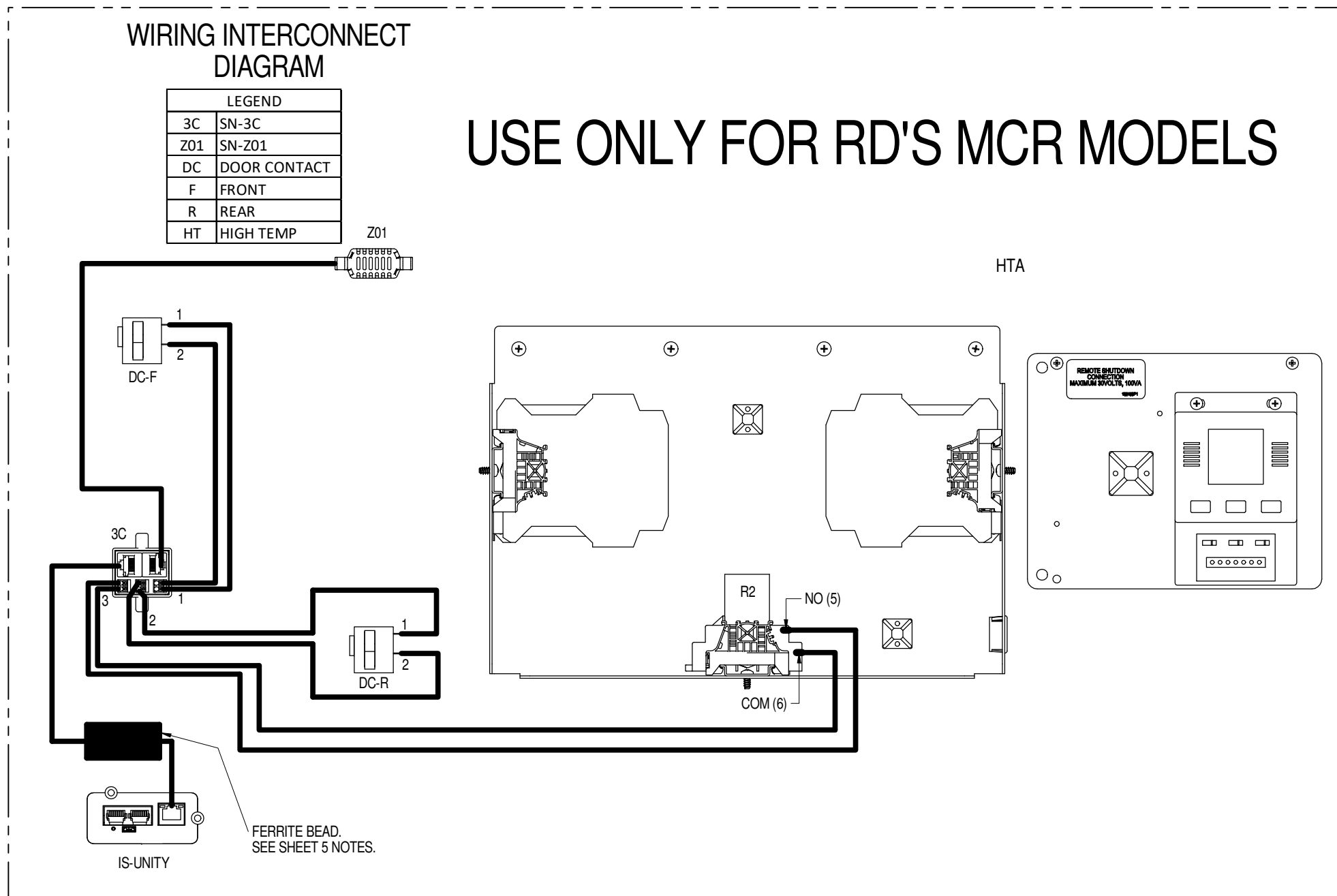
WH HIGH TEMP ALARM MCR

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	WIRING INTERCONNECT DIAGRAM	7-8-22	M MALDONADO

WIRING INTERCONNECT DIAGRAM

LEGEND	
3C	SN-3C
Z01	SN-Z01
DC	DOOR CONTACT
F	FRONT
R	REAR
HT	HIGH TEMP

USE ONLY FOR RD'S MCR MODELS



SIZE	DRAWING NUMBER	SHEET	REV.
B	10037297DRW	1/2	A

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED

FERRITE BEAD INSTALLATION:
1. OPEN FERRITE BEAD AS SHOWN.



2. LOOP CABLE THROUGH THE FERRITE BEAD THREE TIMES.
FERRITE BEAD SHALL BE LOCATED AS CLOSE AS POSSIBLE TO UNITY CARD.



3. CLOSE FERRITE BEAD AROUND THE LOOPED CABLES.

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SL-71009_REVA_11-22