# 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.



### 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

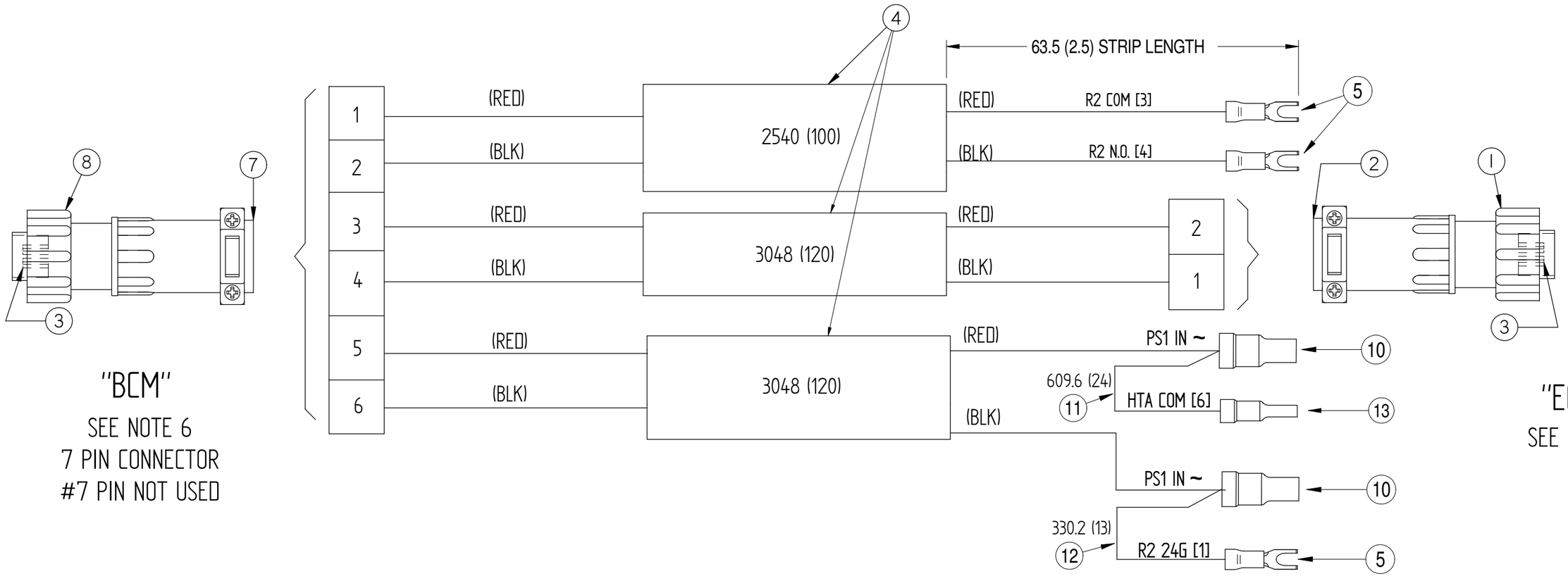
Asia

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<br>A. MUNSELL |
| 7 | TERMINALS CHANGE, JUMPERS CONNECTED TO A DOUBLE FERRULE, JACKETED CABLE LENGHT MODIFICATION, HOT STAMPS MODIFICATION | 6/3/2022 | JOSE VALERIO |




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 | C CONTROL CHARACTERISTIC |
| MATERIAL: | NA |
| 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 | | | |
|---|---|---|---|
| MM (PRIMARY) | | INCHES (SECONDARY) | |
| X | ± 2 | (.X) | ± .1 |
| .X | ± .8 | (.XX) | ± .03 |
| .XX | ± .38 | (.XXX) | ± .015 |
| ANGULAR | | ± 2° | |

THIRD ANGLE PROJECTION

CORPORATE CAGE CODE: 1EDC2

1050 DEARBORN DRIVE
P.O. BOX 29186
COLUMBUS, OHIO 43229

| | | |
|---|---|---|
| DRAWN: | BRIAN ADOLPH | DATE: 6/27/2000 |
| CHECKED: | NA | DATE: NA |
| ENGR: | STEVE REES | DATE: 6/27/2000 |

| 163516G1 | WH ENERGY SAVER CONTROL |
|---|---|
| PART NUMBER | DESCRIPTION |

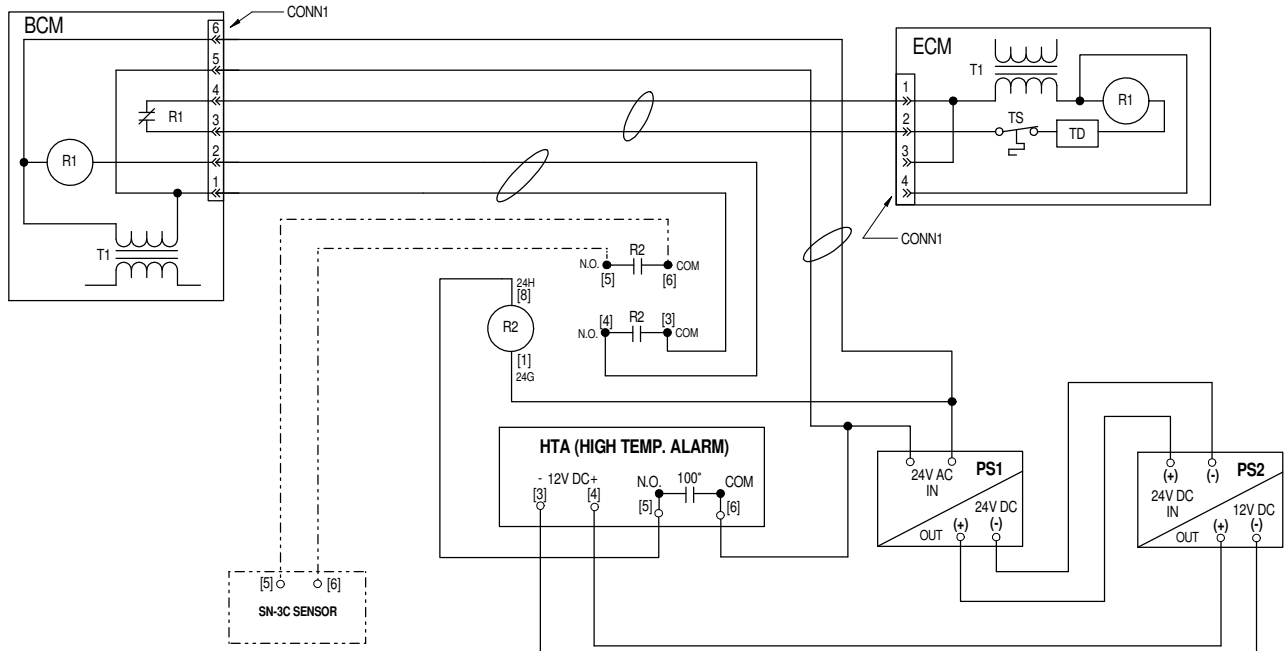
VERTIV.



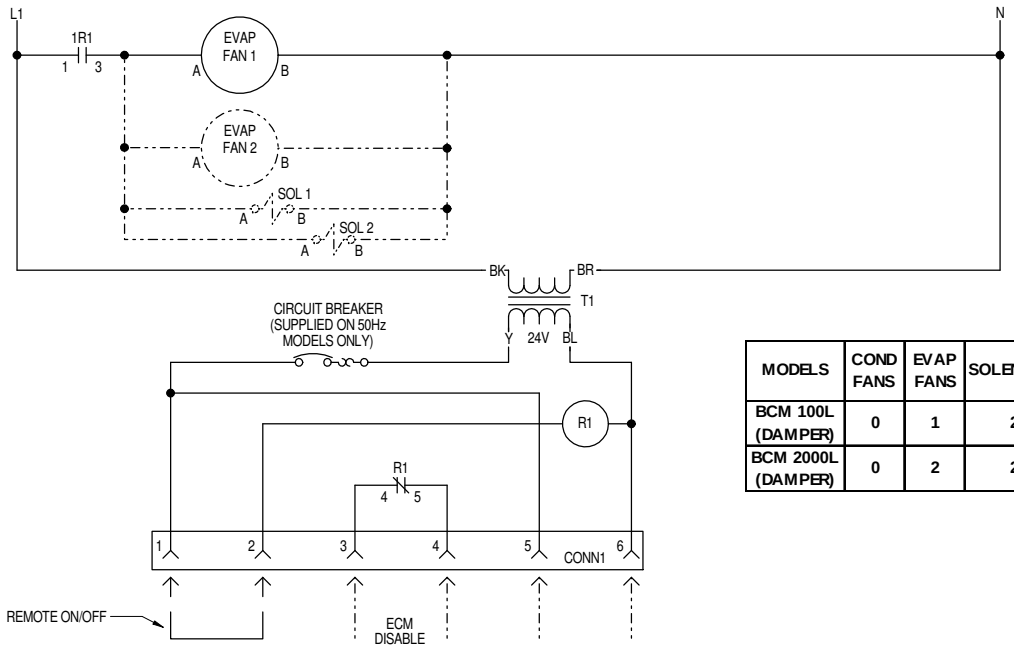
TITLE:

# WIRE HARNESS ECONOMIZER LGH2

| SIZE | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|
| B | 163516 | 1/1 | 7 |




NOTE:
ADDITIONAL CONNECTIONS ARE MADE TO THIS SN-3C FROM OTHER SENSORS, FOR MORE DETAILS PLEASE SEE DRAWING 560194 SHEETS 3 & 4 OF 5.




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

27,41

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




| | | |
|---|---|---|
| DRAWN | B. ADOLPH | DATE 6/19/2000 |
| CHECKED | NA | DATE NA |
| ENGR | S. REES | DATE 6/19/2000 |

VERTIV.

TITLE

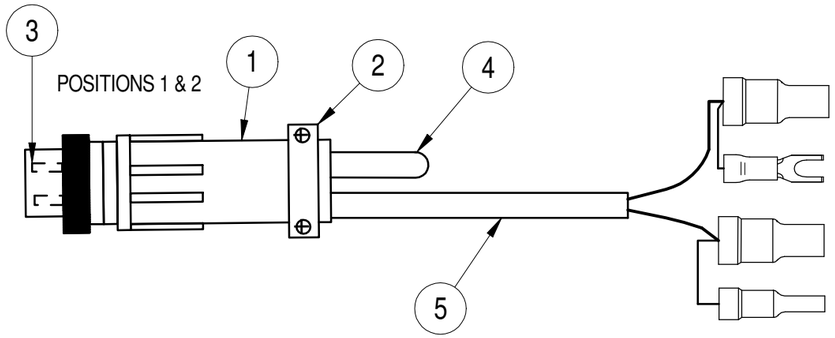
# ELECTRICAL SCHEMATIC ECONOMIZER CONTROL LIEBERT® MCR BCM

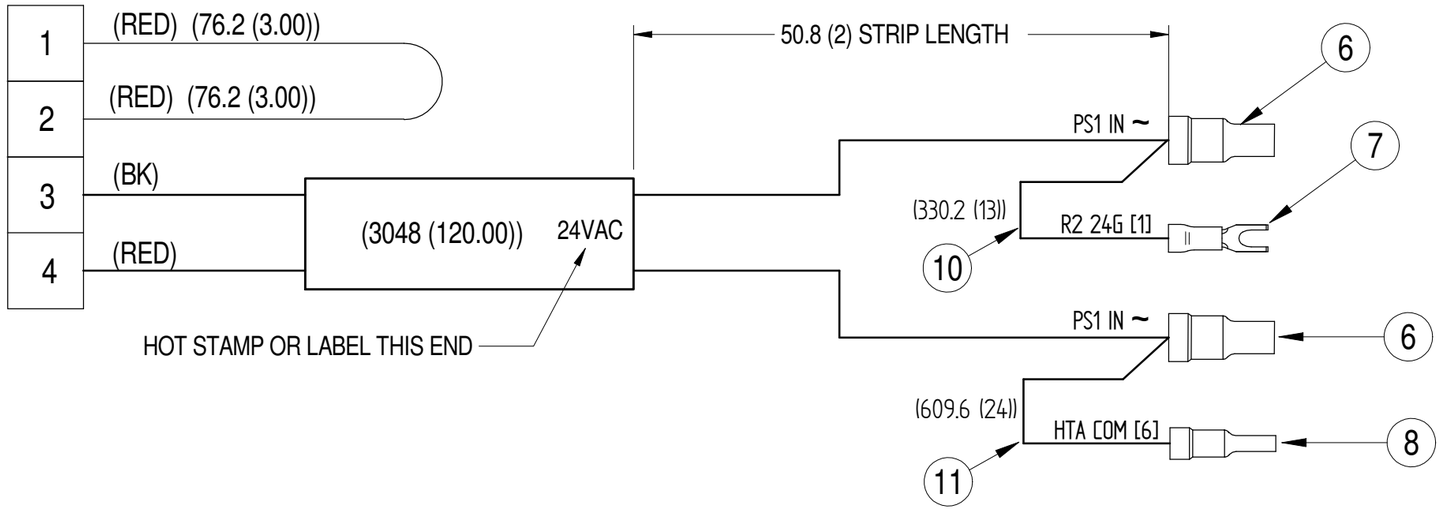
SCHEM BCM/ENERGY SAVER CONTRL

DRAWING NO **163517**

REV 7

| 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 ± 6.35 (.25) UP TO 305 (12), ± 13 (.5) FOR 305 (12) TO 610 (24.0), AND ABOVE 610 (24.0) SHALL BE EQUAL TO ± 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 | C CONTROL CHARACTERISTIC |
| MATERIAL: | NA |
| 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 | | | |
|---|---|---|---|
| MM (PRIMARY) | | INCHES (SECONDARY) | |
| X | ± 2 | (.X) | ± .1 |
| .X | ± .8 | (.XX) | ± .03 |
| .XX | ± .38 | (.XXX) | ± .015 |
| ANGULAR | | ± 2° | |

THIRD ANGLE PROJECTION

CORPORATE CAGE CODE: 1EDC2

1050 DEARBORN DRIVE
P.O. BOX 29186
COLUMBUS, OHIO 43229

| | | |
|---|---|---|
| DRAWN: | B. ADOLPH | DATE: 1/31/2000 |
| CHECKED: | NA | DATE: NA |
| ENGR: | S. REES | DATE: 1/31/2000 |

| 163772G1 | WH CON1 37/38 JUMPER LGH2 |
|---|---|
| PART NUMBER | DESCRIPTION |

VERTIV.

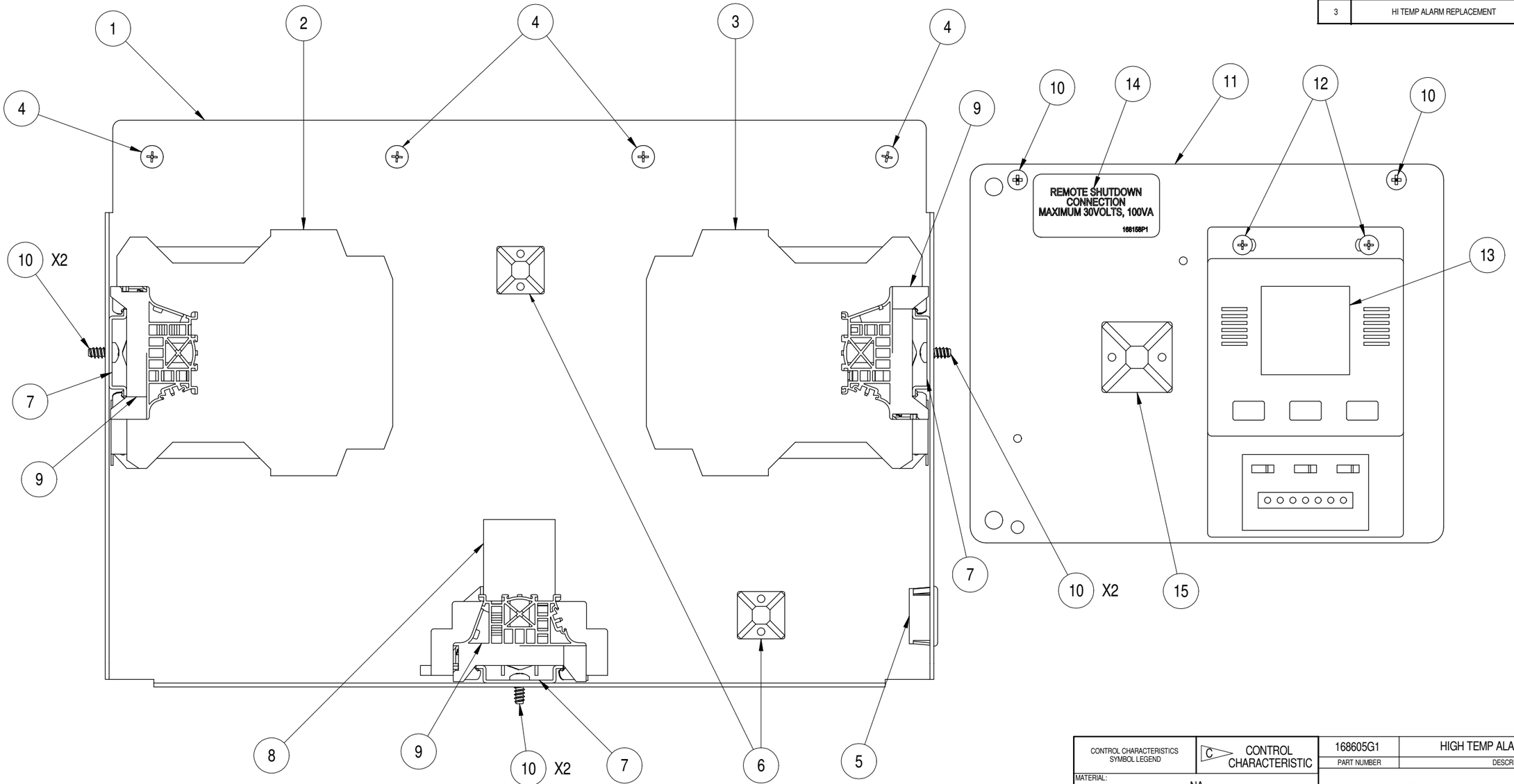


TITLE:

# WH CON1 37/38 JUMPER LGH2

| SIZE | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|
| B | 163772 | 1/1 | 3 |

| REVISIONS | | | |
|---|---|---|---|
| REV. | DESCRIPTION | DATE | APPROVED |
| 1 | REV TO ADD LABEL ITEM CALLOUT #8<br>E000876 | 12-15-00<br>12-15-00 | B. Adolph<br>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 |



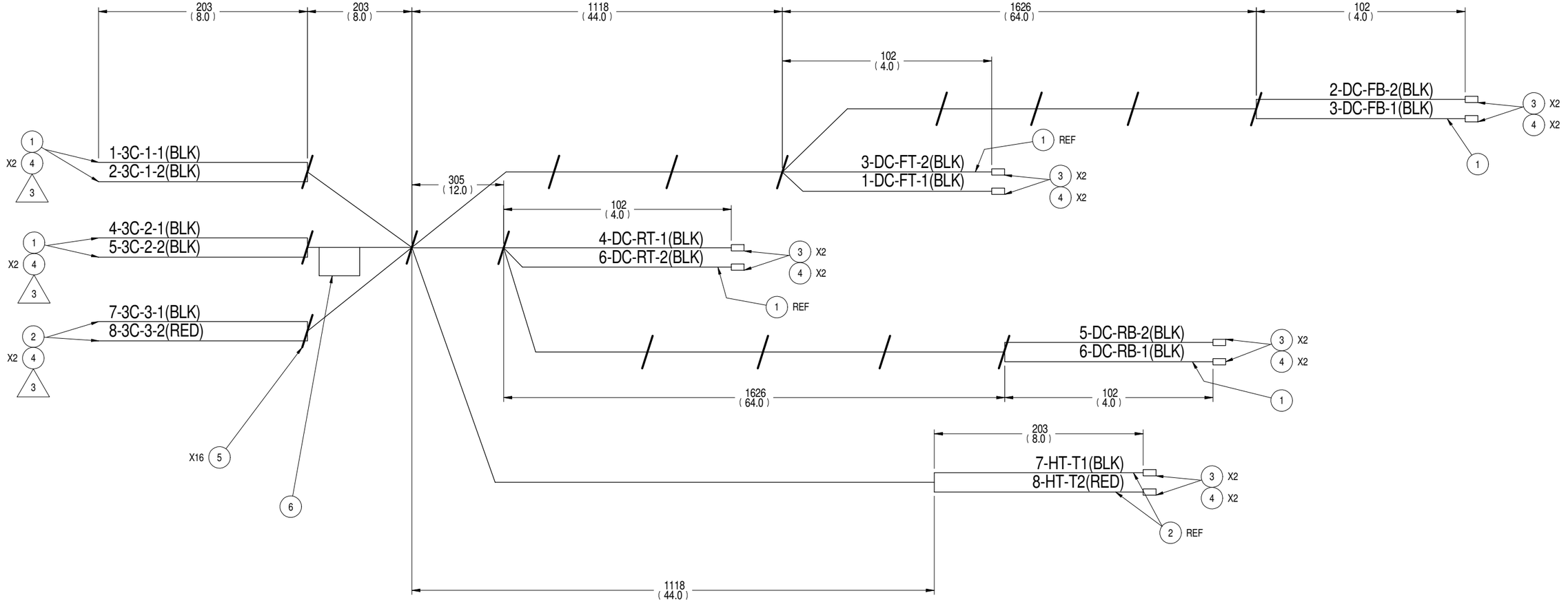

| | | | | | |
|---|---|---|---|---|---|
| CONTROL CHARACTERISTICS SYMBOL LEGEND | | C CONTROL CHARACTERISTIC | | 168605G1 | HIGH TEMP ALARM ASSY LGH2 |
| | | | | PART NUMBER | DESCRIPTION |
| MATERIAL: NA | | | | VERTIV. | |
| FINISH: NONE | | | | | |
| MATERIAL NOTE: FABRICATE FROM THE MATERIAL SPECIFIED IN ACCORDANCE WITH THE CURRENT APPLICABLE VERTIV ENGINEERING SPECIFICATION OR AS OTHERWISE SPECIFIED ON THIS DRAWING. | | | | | |
| DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED | | | | THIRD ANGLE PROJECTION | |
| 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: B. Adolph | | | DATE: 6/30/2000 | | |
| CHECKED: | | | DATE: | | |
| ENGR: S. Rees | | | DATE: 6/30/2000 | | |



TITLE: HIGH TEMP ASSY LGH2

| SIZE | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|
| B | 168605 | 1/3 | 3 |

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




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

CONTROL CHARACTERISTICS SYMBOL LEGEND: C CONTROL CHARACTERISTIC

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.

| DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED | | | |
|---|---|---|---|
| MM (PRIMARY) | | INCHES (SECONDARY) | |
| X | ± 2 | (.X) | ± .1 |
| .X | ± .8 | (.XX) | ± .03 |
| .XX | ± .38 | (.XXX) | ± .015 |
| ANGULAR | | ± 2° | |

THIRD ANGLE PROJECTION

CORPORATE CAGE CODE: 1EDC2

1050 DEARBORN DRIVE
P.O. BOX 29186
COLUMBUS, OHIO 43229

| | | |
|---|---|---|
| DRAWN: | BRAD REINBOLT | DATE: 9/14/2016 |
| CHECKED: | BRIAN LYNCH | DATE: 9/14/2016 |
| ENGR: | BRAD REINBOLT | DATE: 9/14/2016 |

| 560142G1 | WH DOOR AJAR X4+HT MCR |
|---|---|
| PART NUMBER | DESCRIPTION |

VERTIV.

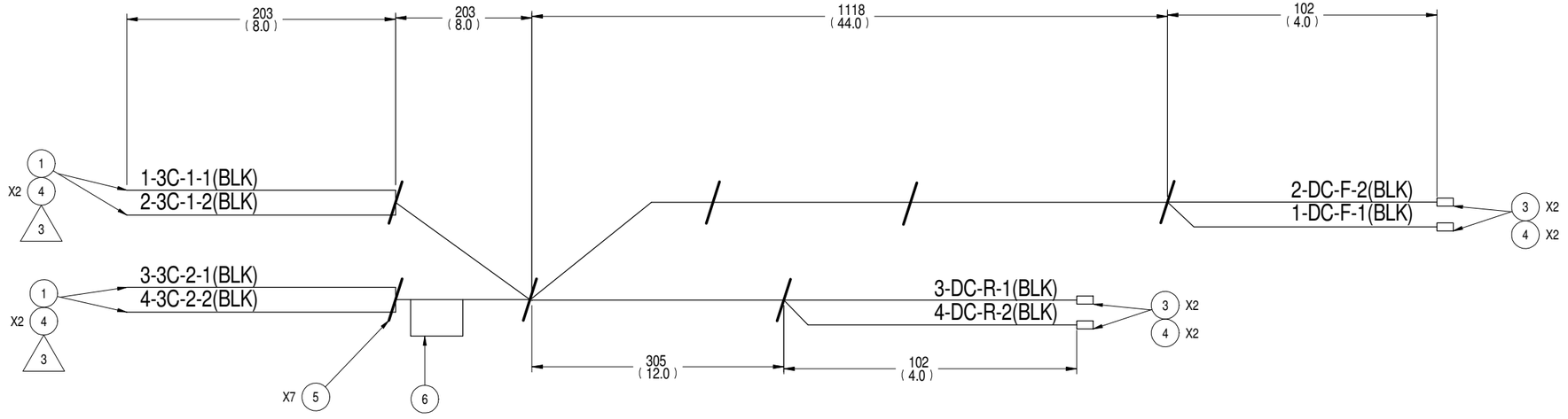


TITLE:

# WH DOOR AJAR X4/X2+HT MCR

| SIZE | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|
| B | 560142 | 1/2 | 4 |

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




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

| | | | |
|---|---|---|---|
| CONTROL CHARACTERISTICS SYMBOL LEGEND | C CONTROL CHARACTERISTIC | 560142G2 | WH DOOR AJAR X2+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.

| DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED | | | |
|---|---|---|---|
| MM (PRIMARY) | | INCHES (SECONDARY) | |
| X | ± 2 | (.X) | ± .1 |
| .X | ± .8 | (.XX) | ± .03 |
| .XX | ± .38 | (.XXX) | ± .015 |
| ANGULAR | | ± 2° | |

THIRD ANGLE PROJECTION

CORPORATE CAGE CODE: 1EDC2

1050 DEARBORN DRIVE
P.O. BOX 29186
COLUMBUS, OHIO 43229

| | | |
|---|---|---|
| DRAWN: | BRAD REINBOLT | DATE: 9/14/2016 |
| CHECKED: | BRIAN LYNCH | DATE: 9/14/2016 |
| ENGR: | BRAD REINBOLT | DATE: 9/14/2016 |

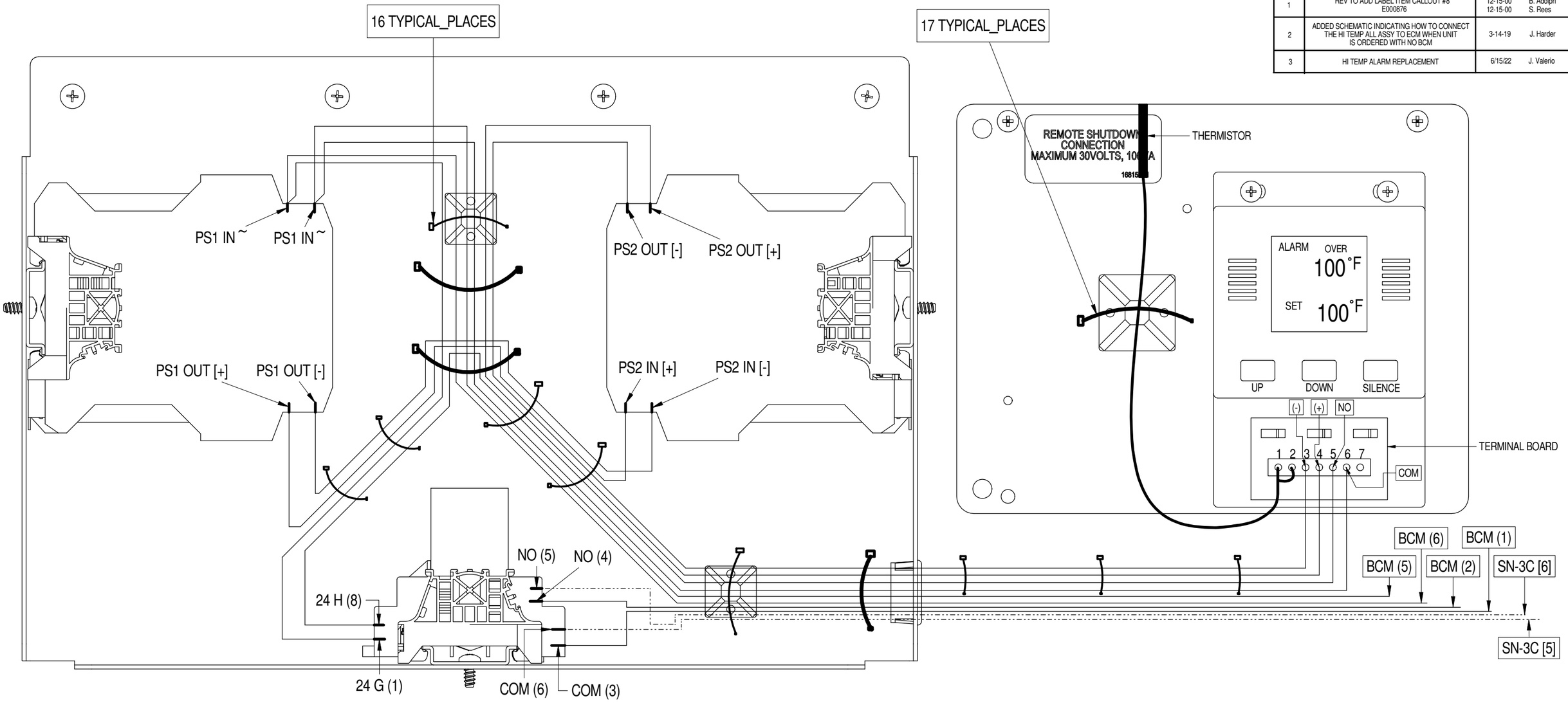


TITLE:

# WH DOOR AJAR X4/X2+HT MCR

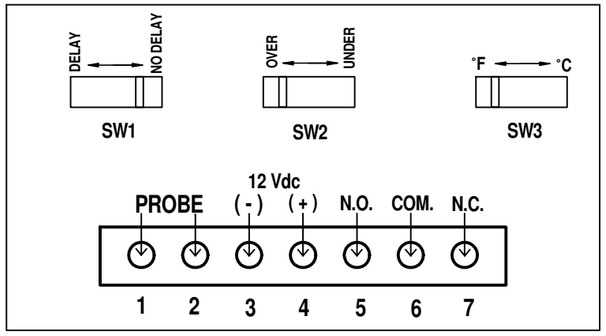
| SIZE | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|
| B | 560142 | 2/2 | 4 |

| REVISIONS | | | |
|---|---|---|---|
| REV. | DESCRIPTION | DATE | APPROVED |
| 1 | REV TO ADD LABEL ITEM CALLOUT #8<br>E000876 | 12-15-00<br>12-15-00 | B. Adolph<br>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 |




NOTES:
1. FOR REFERENCE ONLY ON BCM UNITS.
2. REFER TO UNIT SCHEMATIC.
3. WIRE HARNESS WILL BE ON STRUCTURED TO ANOTHER ASSEMBLY.
4. REMOVE SWITCH COVER TO ACCESS CONTROLS IN TERMINAL BOARD AND ADJUST TO THE FOLLOWING POSITIONS:
SW1: NO DELAY
SW2: OVER
SW3: °F
5. SET THE TEMPERATURE ALARM THRESHOLD USING THE UP AND DOWN BUTTONS.
6. THE SET POINT IS 100 °F, REACHING THIS TEMPERATURE THE AUDIBLE ALARM WILL SOUND AND THE N.O. CONTACTS WILL CLOSE.
7. 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.
8. SN-3C SENSOR AND WIRING OPTIONAL

**TERMINAL BOARD**



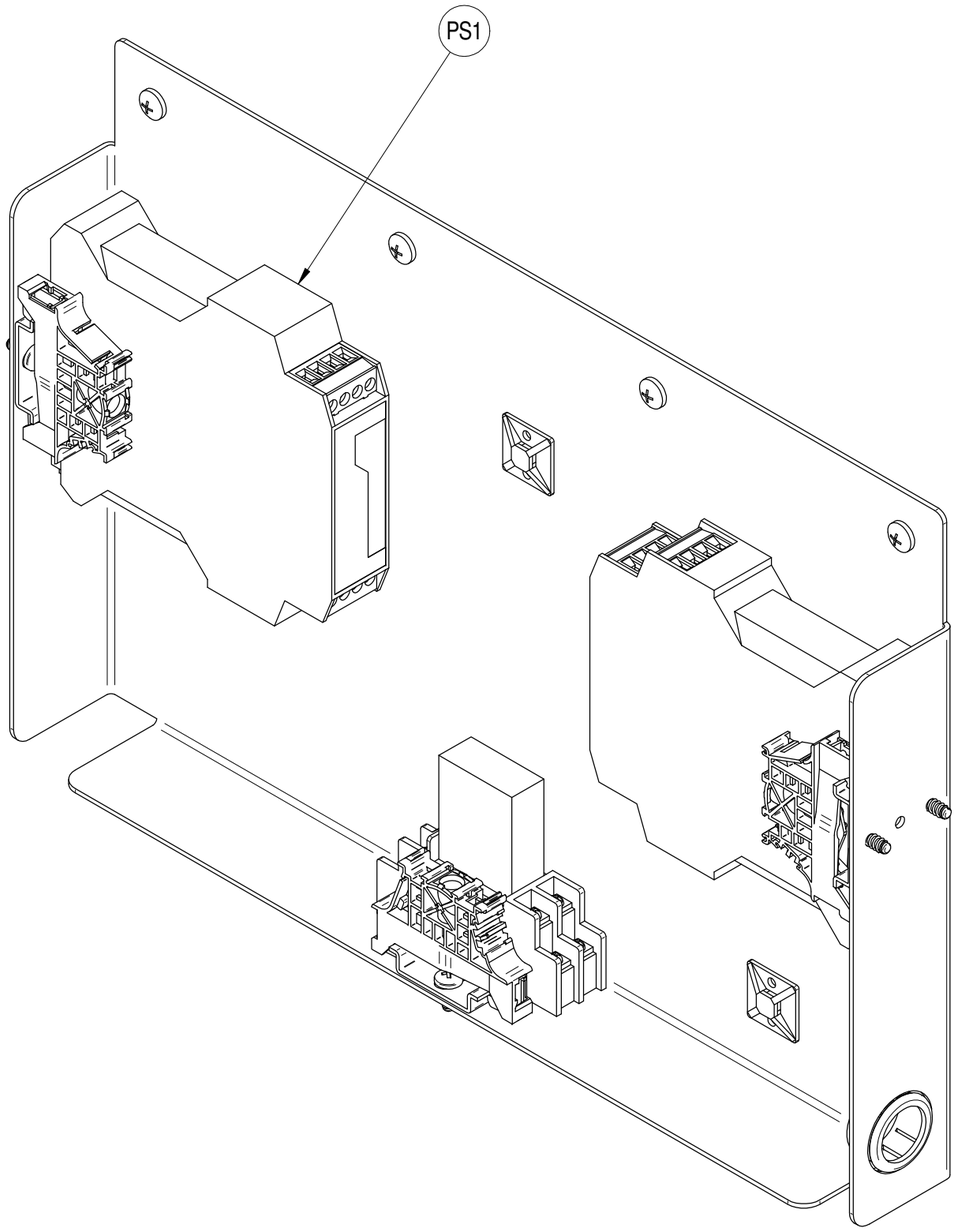

| | | | |
|---|---|---|---|
| CONTROL CHARACTERISTICS SYMBOL LEGEND | C CONTROL CHARACTERISTIC | 168605G1 | HIGH TEMP ALARM ASSY LGH2 |
| | | PART NUMBER | DESCRIPTION |
| MATERIAL: NA | | | |
| FINISH: NONE | | | |
| MATERIAL NOTE: FABRICATE FROM THE MATERIAL SPECIFIED IN ACCORDANCE WITH THE CURRENT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



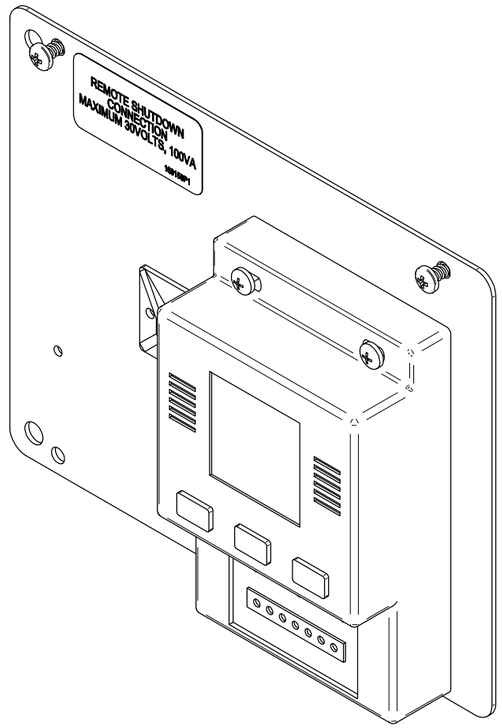
TITLE: HIGH TEMP ASSY LGH2

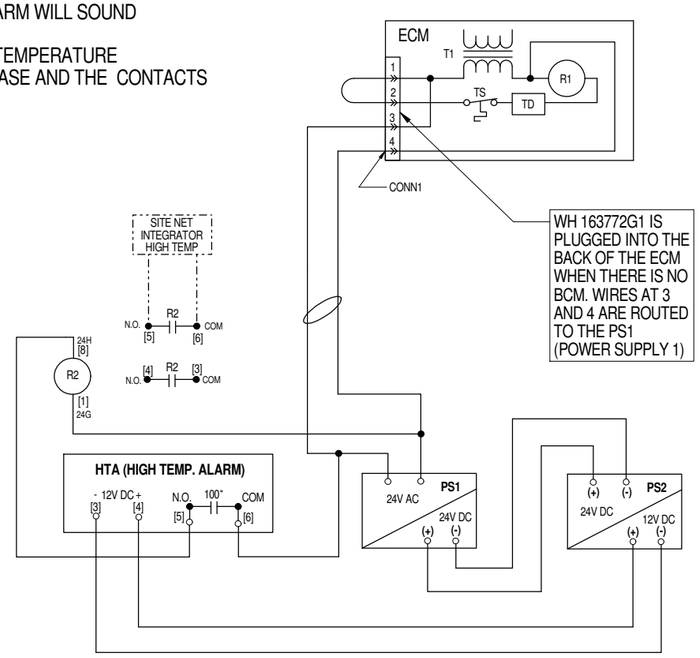
| SIZE | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|
| B | 168605 | 2/3 | 3 |

| REVISIONS | | | |
|---|---|---|---|
| REV. | DESCRIPTION | DATE | APPROVED |
| 1 | REV TO ADD LABEL ITEM CALLOUT #8<br>E000876 | 12-15-00<br>12-15-00 | B. Adolph<br>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:
1. FOR REFERENCE ON UNITS WITHOUT BCM.
2. REFER TO UNIT SCHEMATIC.
3. WIRE HARNESS WILL BE ON STRUCTURED TO ANOTHER ASSEMBLY.
4. REMOVE SWITCH COVER TO ACCESS CONTROLS IN TERMINAL BOARD AND ADJUST TO THE FOLLOWING POSITIONS:
SW1: NO DELAY
SW2: OVER
SW3: °F
5. SET THE TEMPERATURE ALARM THRESHOLD USING THE UP AND DOWN BUTTONS.
6. THE SET POINT IS 100 °F, REACHING THIS TEMPERATURE THE AUDIBLE ALARM WILL SOUND AND THE N.O. CONTACTS WILL CLOSE.
7. 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 | C CONTROL CHARACTERISTIC |
|---|---|
| MATERIAL: | NA |
| 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 | | | |
|---|---|---|---|
| MM (PRIMARY) | | INCHES (SECONDARY) | |
| X | ± 2 | (.X) | ± .1 |
| .X | ± .8 | (.XX) | ± .03 |
| .XX | ± .38 | (.XXX) | ± .015 |
| ANGULAR | | ± 2° | |

THIRD ANGLE PROJECTION

CORPORATE CAGE CODE: 1EDC2

1050 DEARBORN DRIVE
P.O. BOX 29186
COLUMBUS, OHIO 43229

| | |
|---|---|
| DRAWN: B. Adolph | DATE: 6/30/2000 |
| CHECKED: | DATE: |
| ENGR: S. Rees | DATE: 6/30/2000 |

| 168605G1 | HIGH TEMP ALARM ASSY LGH2 |
|---|---|
| PART NUMBER | DESCRIPTION |

VERTIV.

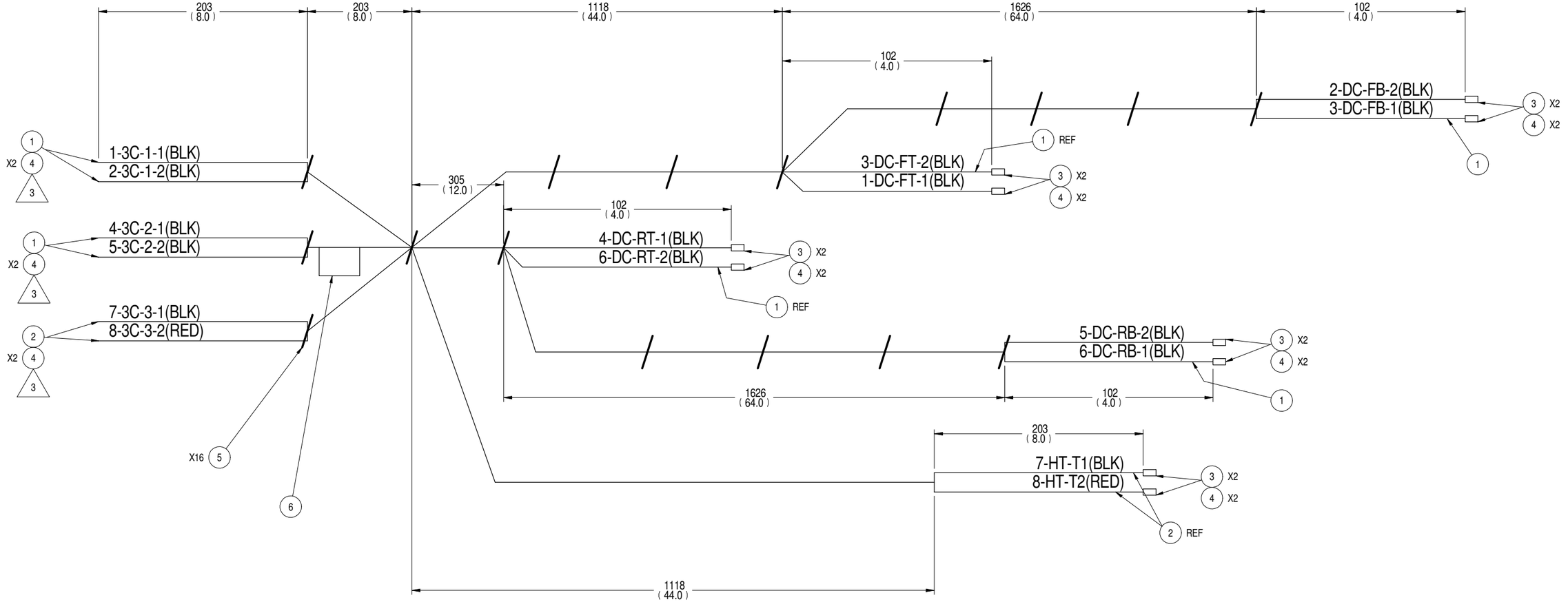


TITLE:

# HIGH TEMP ASSY LGH2

| SIZE | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|
| B | 168605 | 3/3 | 3 |

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




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

CONTROL CHARACTERISTICS SYMBOL LEGEND: C CONTROL CHARACTERISTIC

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.

| DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED | | | |
|---|---|---|---|
| MM (PRIMARY) | | INCHES (SECONDARY) | |
| X | ± 2 | (.X) | ± .1 |
| .X | ± .8 | (.XX) | ± .03 |
| .XX | ± .38 | (.XXX) | ± .015 |
| ANGULAR | | ± 2° | |

THIRD ANGLE PROJECTION

CORPORATE CAGE CODE: 1EDC2

1050 DEARBORN DRIVE
P.O. BOX 29186
COLUMBUS, OHIO 43229

| | | |
|---|---|---|
| DRAWN: | BRAD REINBOLT | DATE: 9/14/2016 |
| CHECKED: | BRIAN LYNCH | DATE: 9/14/2016 |
| ENGR: | BRAD REINBOLT | DATE: 9/14/2016 |

| 560142G1 | WH DOOR AJAR X4+HT MCR |
|---|---|
| PART NUMBER | DESCRIPTION |

VERTIV.

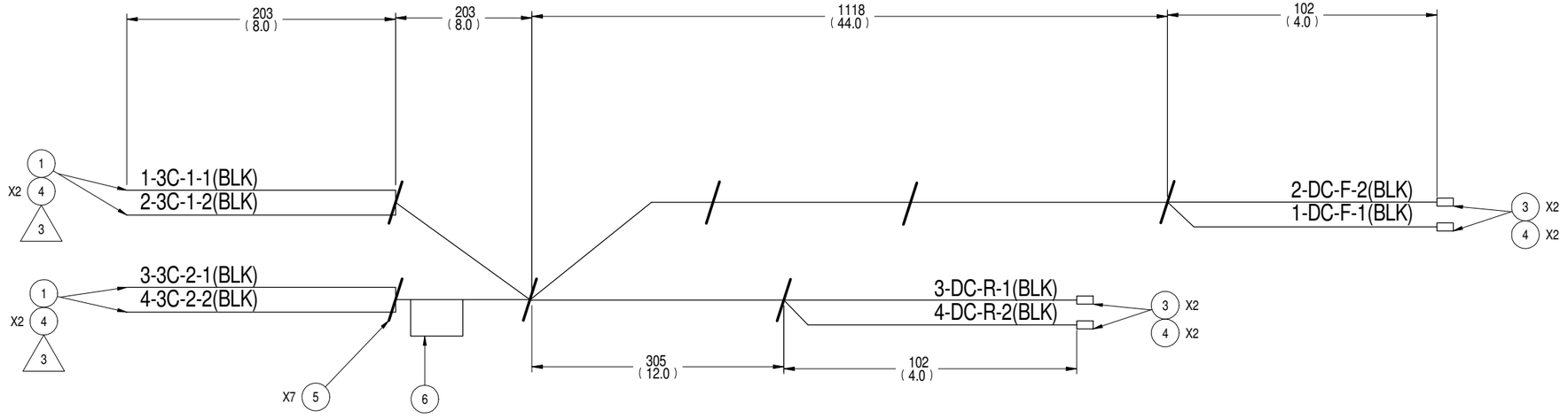


TITLE:

# WH DOOR AJAR X4/X2+HT MCR

| SIZE | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|
| B | 560142 | 1/2 | 4 |

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




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

| | | | |
|---|---|---|---|
| CONTROL CHARACTERISTICS SYMBOL LEGEND | C CONTROL CHARACTERISTIC | 560142G2 | WH DOOR AJAR X2+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.

| DIMENSIONAL TOLERANCES UNLESS OTHERWISE SPECIFIED | | | |
|---|---|---|---|
| MM (PRIMARY) | | INCHES (SECONDARY) | |
| X | ± 2 | (.X) | ± .1 |
| .X | ± .8 | (.XX) | ± .03 |
| .XX | ± .38 | (.XXX) | ± .015 |
| ANGULAR | | ± 2° | |

THIRD ANGLE PROJECTION

CORPORATE CAGE CODE: 1EDC2

1050 DEARBORN DRIVE
P.O. BOX 29186
COLUMBUS, OHIO 43229

| | | |
|---|---|---|
| DRAWN: | BRAD REINBOLT | DATE: 9/14/2016 |
| CHECKED: | BRIAN LYNCH | DATE: 9/14/2016 |
| ENGR: | BRAD REINBOLT | DATE: 9/14/2016 |

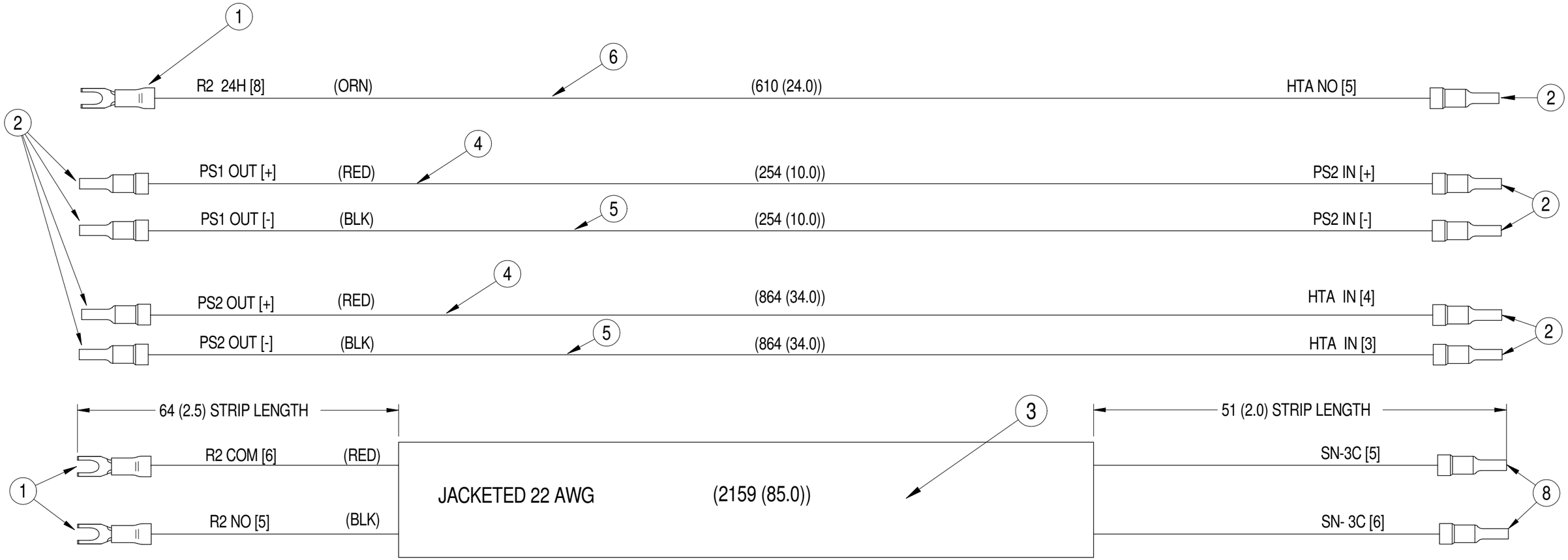


TITLE:

# WH DOOR AJAR X4/X2+HT MCR

| SIZE | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|
| B | 560142 | 2/2 | 4 |

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




NOTES:

1. LENGTH TOLERANCES FOR EACH DIMENSIONED SEGMENT ARE ± 7.6 (.3) UP TO 305 (12),
   ± 13 (.5) FOR 305 (12) TO 610 (24.0), AND ABOVE 610 (24.0) SHALL BE EQUAL TO ± 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 | C CONTROL CHARACTERISTIC |
|---|---|
| MATERIAL: | NA |
| 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 | | | |
|---|---|---|---|
| MM (PRIMARY) | | INCHES (SECONDARY) | |
| X | ± 2 | (.X) | ± .1 |
| .X | ± .8 | (.XX) | ± .03 |
| .XX | ± .38 | (.XXX) | ± .015 |
| ANGULAR | | ± 2° | |

THIRD ANGLE PROJECTION

CORPORATE CAGE CODE: 1EDC2

1050 DEARBORN DRIVE
P.O. BOX 29186
COLUMBUS, OHIO 43229

| | | |
|---|---|---|
| DRAWN: | JOSE VALERIO | DATE: 6/3/2022 |
| CHECKED: | MIKE NEAL | DATE: 6/3/2022 |
| ENGR: | JOSE VALERIO | DATE: 6/3/2022 |

| 10031558G1 | WH HTA SN-3C MCR |
|---|---|
| PART NUMBER | DESCRIPTION |

VERTIV.

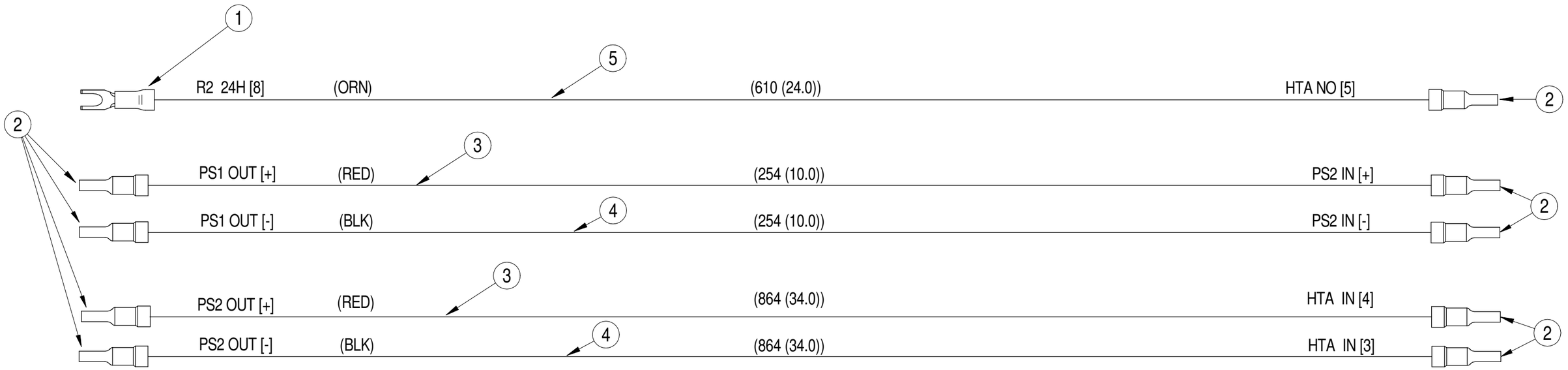


TITLE:

# WH HIGH TEMP ALARM MCR

| SIZE | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|
| B | 10031558 | 1/2 | A |

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




NOTES:

1. LENGTH TOLERANCES FOR EACH DIMENSIONED SEGMENT ARE ± 7.6 (.3) UP TO 305 (12),
   ± 13 (.5) FOR 305 (12) TO 610 (24.0), AND ABOVE 610 (24.0) SHALL BE EQUAL TO ± 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 # 6 USED TO SECURE WIRE HARNESS.

| | | | |
|---|---|---|---|
| CONTROL CHARACTERISTICS SYMBOL LEGEND | C CONTROL CHARACTERISTIC | 10031558G2 | WH HTA NO SN-3C MCR |
| | | PART NUMBER | DESCRIPTION |
| MATERIAL: NA | | | |
| 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: MM (PRIMARY) / INCHES (SECONDARY); X ± 2 / (.X) ± .1; .X ± .8 / (.XX) ± .03; .XX ± .38 / (.XXX) ± .015; ANGULAR ± 2° | THIRD ANGLE PROJECTION | | |
| CORPORATE CAGE CODE: 1EDC2 | 1050 DEARBORN DRIVE P.O. BOX 29186 COLUMBUS, OHIO 43229 | | |
| DRAWN: JOSE VALERIO | DATE: 6/3/2022 | | |
| CHECKED: MIKE NEAL | DATE: 6/3/2022 | | |
| ENGR: JOSE VALERIO | DATE: 6/3/2022 | | |



TITLE:

# WH HIGH TEMP ALARM MCR

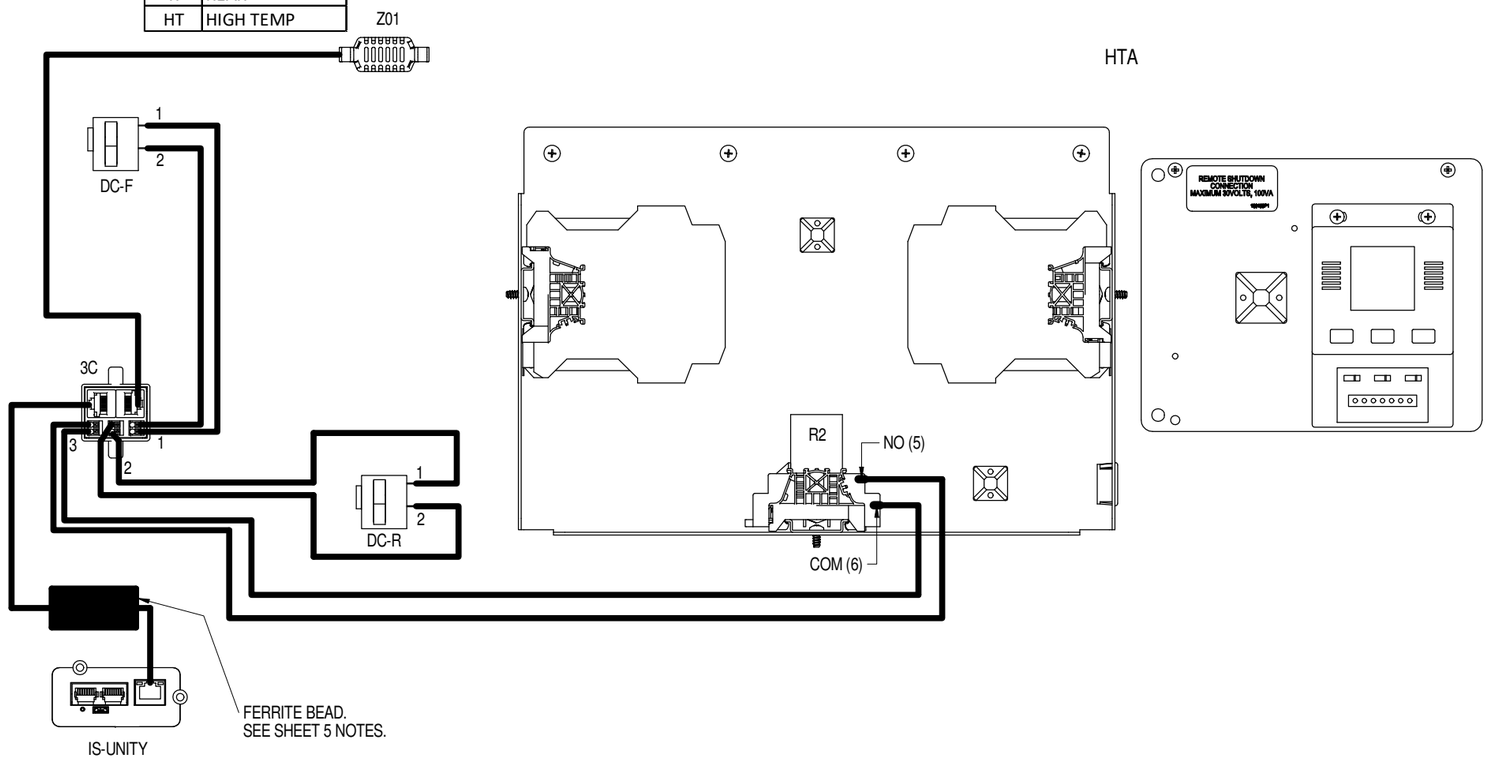
| SIZE | DRAWING NUMBER | SHEET | REV. |
|---|---|---|---|
| B | 10031558 | 2/2 | A |

| 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.

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

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