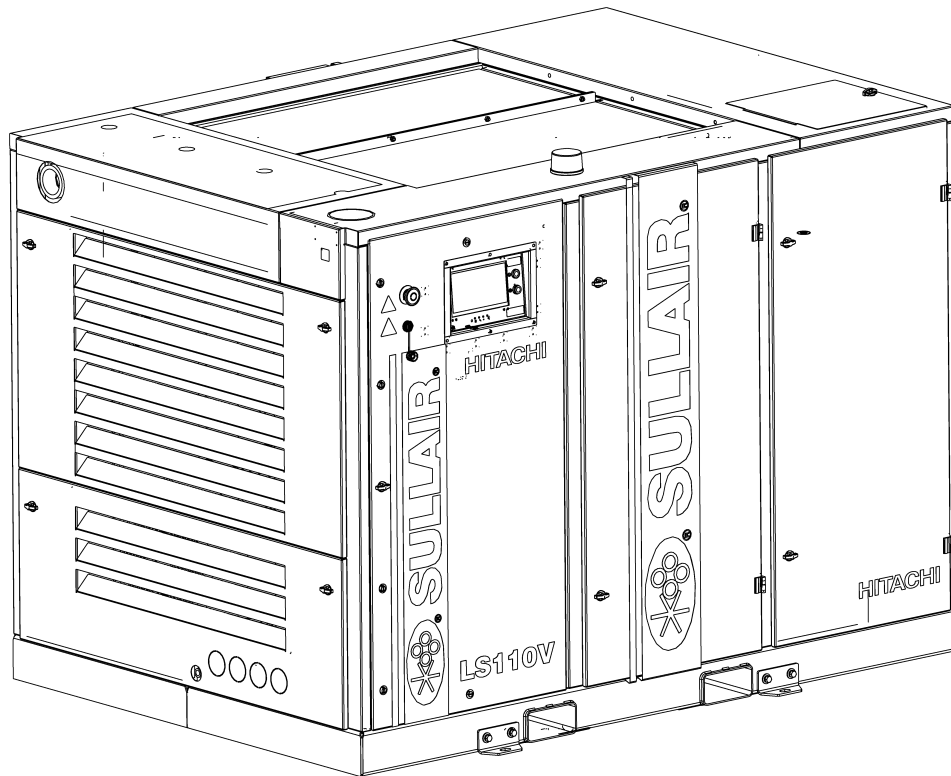




## PARTS LIST MANUAL

### Industrial Air Compressor LS90, LS90S, LS90V, LS110, LS110S, LS110V

125 & 150 hp (90 & 110 kW)



#### SAFETY WARNING

Users are required to read the entire User Manual before handling or using the product. Keep the User Manual in a safe place for future reference.

#### WARRANTY NOTICE

Failure to follow the instructions and procedures in this manual, or misuse of this equipment, will void its warranty.

**PART NUMBER:**  
**02250231-031 R07**

The information in this manual is current as of its publication date and applies to compressor models indicated on this cover with **serial number:**

**US0123090001**

and all subsequent serial numbers until next revision of this manual or release of a replacement manual..

**Publication date: 05/30/2025**

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www.SullairTraining.com

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1 Sullair Way  
Michigan City, IN 46360  
Attn: Training Department



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## 1.1 Procedure for ordering parts

You should order parts from the nearest authorized Sullair representative or the representative from whom the compressor was purchased. If for any reason you cannot obtain parts in this manner, contact the factory directly at the address, phone number, or website listed below.

---

**Hitachi Global Air Power US**

1 Sullair Way  
Michigan City, IN 46360 USA  
www.sullair.com  
1-800-SULLAIR (USA only)  
1-219-879-5451 (non-USA)

---

When ordering parts, always indicate the serial number of the compressor. You can get the serial number from the Bill of Lading for the compressor or from the Serial Number Plate located on the compressor (see *Figure 1-1: Serial number plate location*).

The genuine Sullair service parts listed meet or exceed the demands of this compressor. Use of replacement parts other than those approved by Sullair will void the Sullair warranties specific to this product and may lead to hazardous conditions over which Sullair has no control. Such conditions include, but are not limited to, bodily injury and compressor failure.

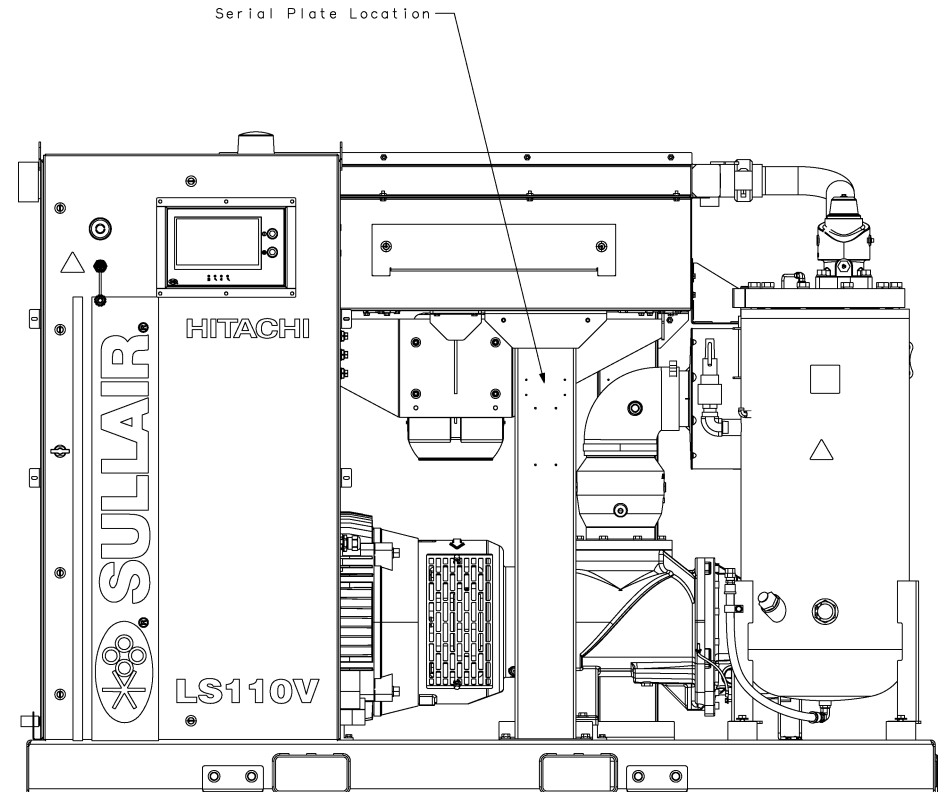


**Figure 1-1: Serial number plate location**

## 1.2 Recommended spare parts list

| Part number  | Qty | Description                                          | Notes                             |
|--------------|-----|------------------------------------------------------|-----------------------------------|
| 02250135-155 | 1   | ELEMENT,AIR FLTROPTIMALAIR 750CFM                    |                                   |
| 02250231-914 | 1   | COVER,AIRFLTR OPTIMALAIR 750CFM                      |                                   |
| 02250231-911 | 1   | VALVE,DUST EJECTOR 750CFM                            |                                   |
| 250025-526   | 1   | ELEMENT,FLUID FILTER                                 |                                   |
| 02250229-242 | 1   | KIT,SEPARATOR ELEMENT LS110                          |                                   |
| 02250117-782 | 1   | FILTER,ASSEMBLY GENISIS FILTR +                      |                                   |
| 241772       | 1   | KIT, REP STRAINER-V-TYPE                             |                                   |
| 02250053-273 | 1   | KIT,REPAIR 6" INLET VALVE                            |                                   |
| 02250176-830 | 1   | KIT,REPAIR THRMVLV O-RING 175F                       |                                   |
| 02250176-831 | 1   | KIT,REPAIR THRMVLV O-RING 190F                       |                                   |
| 02250214-211 | 1   | KIT,REPAIR 3" SAE MIN PRESS VLV                      |                                   |
| 250022-669   | 4   | LUBRICANT,SULLUBE 32 5GAL                            |                                   |
| 02250215-660 | 1   | ELEMENT,COUPLING 40R BLACK                           |                                   |
| 02250229-231 | 1   | COVER,CPLG 40R BLK ELEMENT                           |                                   |
| 02250189-201 | 1   | KIT,VALVE SERVICE ZLOSS                              |                                   |
| 02250160-745 | 1   | KIT,SOLENOID VALVE REBUILD 02250125-657*             |                                   |
| 02250125-861 | 1   | COIL,SOL REPL 110/120 3'LEADS+                       |                                   |
| 02250100-042 | 1   | VALVE,1/2 BLDWN 1.8:1 250 PSIG                       |                                   |
| 02250182-947 | 1   | STRAINER,SCREEN .690 DIA X1.045 LG                   |                                   |
| 408893       | 1   | VALVE, SHUTTLE 1/4" (DBL CHK)                        |                                   |
|              | 1   | KIT,SEAL REPL D23A DBL TFE LIP                       | Consult factory                   |
| 02250300-321 | 1   | KIT,TOOL - D23A LIP SEAL REPL                        |                                   |
| 02250224-923 | 1   | KEY,PARAL ISO R773 3X3X10                            |                                   |
| 250042-647   | 1   | O-RING,STR THD                                       | for 040029 fill plug              |
| 250042-648   | 1   | O-RING,STR THD 70 VITON 1-1/2"                       | for sight glass plug 02250097-611 |
| 250022-669   | (I) | LUBRICANT, SULLUBE (STD.) (5 GAL/19 LITER)           |                                   |
| 02250196-470 | (I) | LUBRICANT, PRISTINE FG (FOOD GRADE) (5 GAL/19 LITER) |                                   |

## 1.2 Recommended spare parts list

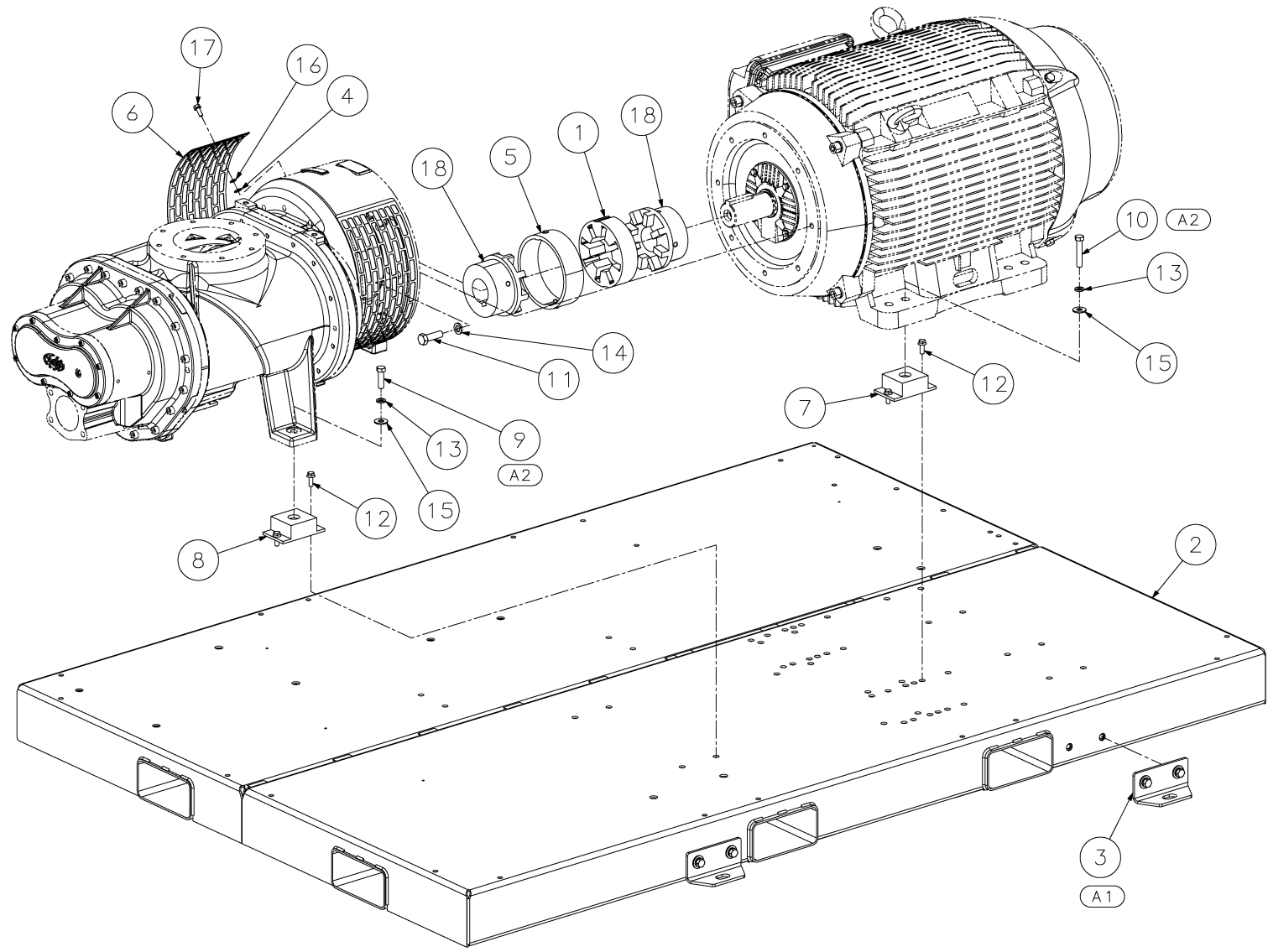
| Part number | Qty | Description                               | Notes                                                                                                                                                                                                                    |
|-------------|-----|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1000-8059   | 1   | KIT, 2000 HOUR MAINTENANCE                | Parts included in kit:<br>02250135-155 1<br>250025-526 1                                                                                                                                                                 |
| 1000-8060   | 1   | KIT, 8000 HOUR MAINTENANCE                | Parts included in kit:<br>02250135-155 1<br>02250229-242 1<br>241772 1<br>250022-669 2<br>250025-526 1                                                                                                                   |
| 1000-8061   | 1   | KIT, YEARLY MAINTENANCE                   | Parts included in kit:<br>02250135-155 4<br>02250229-242 1<br>241772 1<br>250022-669 2<br>250025-526 4                                                                                                                   |
| 1000-8062   | 1   | KIT, FILTERS MAINTENANCE                  | Parts included in kit:<br>02250135-155 4<br>250025-526 4<br>241772 1<br>02250229-242 1                                                                                                                                   |
| 1003-4832   | 1   | KIT, DRAIN 23S WITH SPIRAL VALVE LS90-160 | Parts included in kit:<br>408300-004 2<br>884408-075 1<br>884408-056 1<br>878308-075 1<br>878306-056 1<br>02250230-734 2<br>882508-125 1<br>02250225-774 2<br>870004-006 1<br>1003-3528 1<br>1003-3529 1<br>882608-020 1 |

1.2 Recommended spare parts list

| Part number | Qty | Description                                  | Notes                                                                                                                                                                     |
|-------------|-----|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1003-4669   | 1   | KIT, DRAIN 23S WITHOUT SPIRAL VALVE LS90-160 | Parts included in kit:<br>408300-004 1<br>884408-056 1<br>878306-056 1<br>02250230-734 1<br>882508-125 1<br>02250225-774 1<br>870004-006 1<br>1003-3529 1<br>882608-020 1 |

Notes:

1.3 Compressor, frame and drive



02250226-470 R05

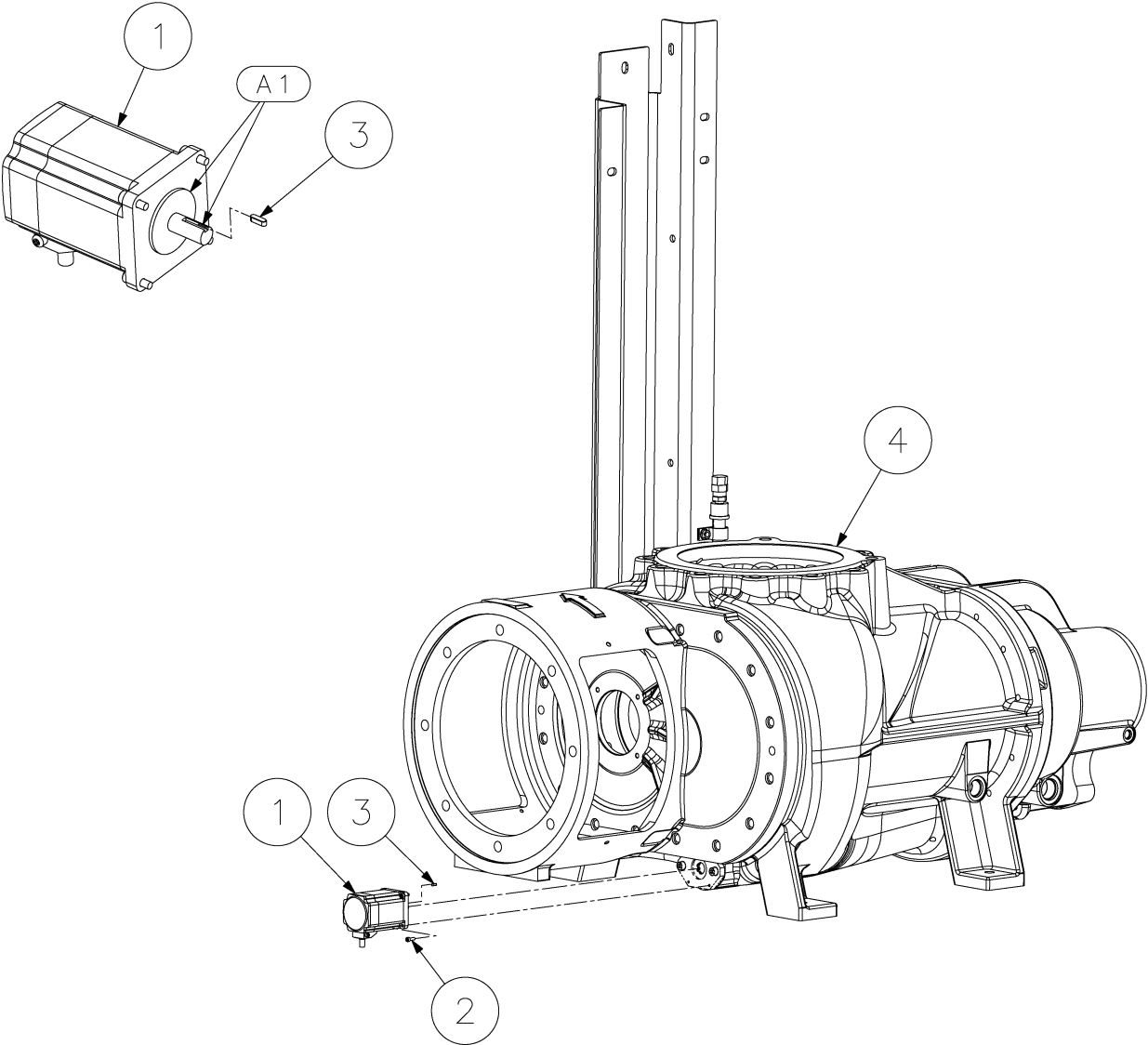
### 1.3 Compressor, frame and drive

| Key | Part number  | Qty | Description                      | Notes       |
|-----|--------------|-----|----------------------------------|-------------|
| 1   | 02250215-660 | 1   | ELEMENT,COUPLING 40R BLACK       |             |
| 2   | 02250222-598 | 1   | FRAME,ASSY 125-150 HP            |             |
| 3   | 02250226-635 | 1   | KIT,TIE DWN BRKTS 125-150HP      |             |
| 4   | 02250226-838 | 4   | WASHER,LCK NYLON INT TOOTH 5/16  |             |
| 5   | 02250229-231 | 1   | COVER,CPLG 40R BLK ELEMENT       |             |
| 6   | 1001-0347    | 2   | GUARD,CPLG LS90-110              |             |
| 7   | 250042-757   | 2   | ISOLATOR,VIBRATION 670-15        |             |
| 8   | 250042-785   | 2   | ISOLATOR,VIBRATION 670-10        |             |
| 9   | 829108-175   | 2   | CAPSCREW,HEX GR5 1/2-13 X 1 3/4" |             |
| 10  | 829108-275   | 2   | CAPSCREW,HEX GR5 1/2-13 X 2 3/4" |             |
| 11  | 829110-200   | 8   | CAPSCREW,HEX GR5 5/8-11 X 2"     |             |
| 12  | 829706-100   | 8   | SCREW, HX SER WASH 3/8 X 1"      |             |
| 13  | 837808-125   | 4   | WASHER, SPRLOCK REG PLTD 1/2"    |             |
| 14  | 837810-156   | 8   | WASHER, SPRLOCK REG PLTD 5/8"    |             |
| 15  | 838208-112   | 4   | WASHER, PL-B REG PLTD 1/2"       |             |
| 16  | 865408-170   | 4   | WASHER, ISO 7089-8-200HV         |             |
| 17  | 882608-020   | 4   | SCREW, HEX SER WASHER M8 X 20    |             |
| 18  | 02250152-641 | 2   | HUB,CPLG 2.375 BORE 40R          | FIXED SPEED |
|     | 02250226-002 | 2   | HUB,CPLG 2.375 BORE 40R          | VSD         |

#### Drawing notes

|    |                         |
|----|-------------------------|
| A1 | KIT TO BE SHIPPED LOOSE |
| A2 | TORQUE T0 50 FT-LBS     |

1.4 Compressor, Spiral Valve



02250221-927 R02

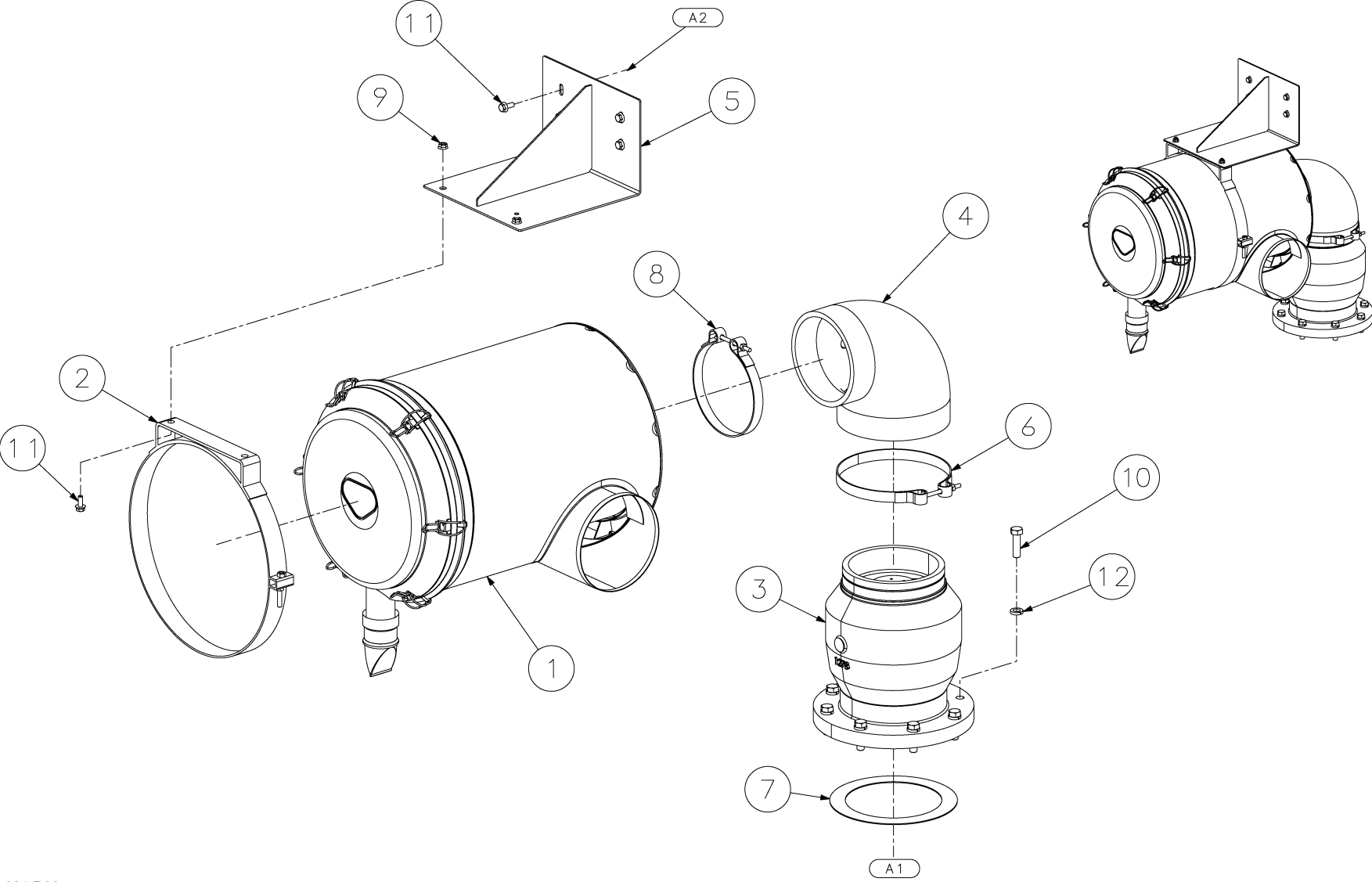
## 1.4 Compressor, Spiral Valve

| Key | Part number  | Qty | Description                                 | Notes |
|-----|--------------|-----|---------------------------------------------|-------|
| 1   | 02250224-248 | 1   | MOTOR,STEPPER NEMA 23                       |       |
| 2   | 02250224-398 | 4   | SCREW,SOCKET ISO 4762 M4X12MM               |       |
| 3   | 02250224-923 | 1   | KEY,PARAL ISO R773 3X3X10                   |       |
| 4   | VARIOUS      | 1   | SUB ASSEMBLY,MODULAR,UNIT DRN LS160 26S W/V |       |

### Drawing notes

|   |                                        |
|---|----------------------------------------|
| 1 | APPLY ANTI SEIZE (REF. PERMATEX 80078) |
|---|----------------------------------------|

1.5 Air inlet system, air-cooled



02250221-921 R02

**1.5 Air inlet system, air-cooled**

| Key | Part number  | Qty | Description                        | Notes |
|-----|--------------|-----|------------------------------------|-------|
| 1   | 02250135-154 | 1   | FILTER,AIRASSY OPTIMALAIR 750CFM   |       |
| 2   | 02250146-413 | 1   | BAND,MTG 15" AIR FILTER LS200S     |       |
| 3   | 02250222-558 | 1   | VALVE,INLET 6" POP W/BYPASS LS200S |       |
| 4   | 02250225-373 | 1   | ELBOW,RUB 90 6"TO 7"               |       |
| 5   | 02250225-453 | 1   | SUPPORT,BRACKET AIR INLET FILTER   |       |
| 6   | 041992       | 1   | CLAMP, HOSE 7"                     |       |
| 7   | 240621-012   | 1   | GASKET, ASA FLG 150# 6"            |       |
| 8   | 250020-159   | 1   | CLAMP, HOSE 6 9/16 TO 6 1/4"       |       |
| 9   | 825305-283   | 2   | NUT, HEX FLGD PLTD 5/16-18         |       |
| 10  | 829108-175   | 8   | CAPSCREW,HEX GR5 1/2-13 X 1 3/4"   |       |
| 11  | 829705-075   | 6   | SCREW, HX SER WASH 5/16 X 3/4"     |       |
| 12  | 837808-125   | 8   | WASHER, SPRLOCK REG PLTD 1/2"      |       |

**Drawing notes**

|    |                     |
|----|---------------------|
| A1 | TO COMPRESSOR INLET |
| A2 | TO AIROC FANBOX     |

Exploded view diagram of the RICON 1278 fire extinguisher assembly. The diagram illustrates the main components and their assembly sequence:

- 1**: Nozzle
- 2**: Handle
- 3**: Main body
- 4**: Intermediate ring
- 5**: Elbow fitting
- 6**: Top ring
- 7**: Ring
- 8**: Hose
- 9**: Base ring
- 10**: Ring
- 11**: Fastener
- 12**: Fastener
- 13**: Fastener
- 14**: Fastener
- A1**: Mounting bracket
- A2**: Mounting bracket
- A3**: Mounting bracket

A 20° angle is indicated for the handle. The assembled unit is shown in the top right corner.



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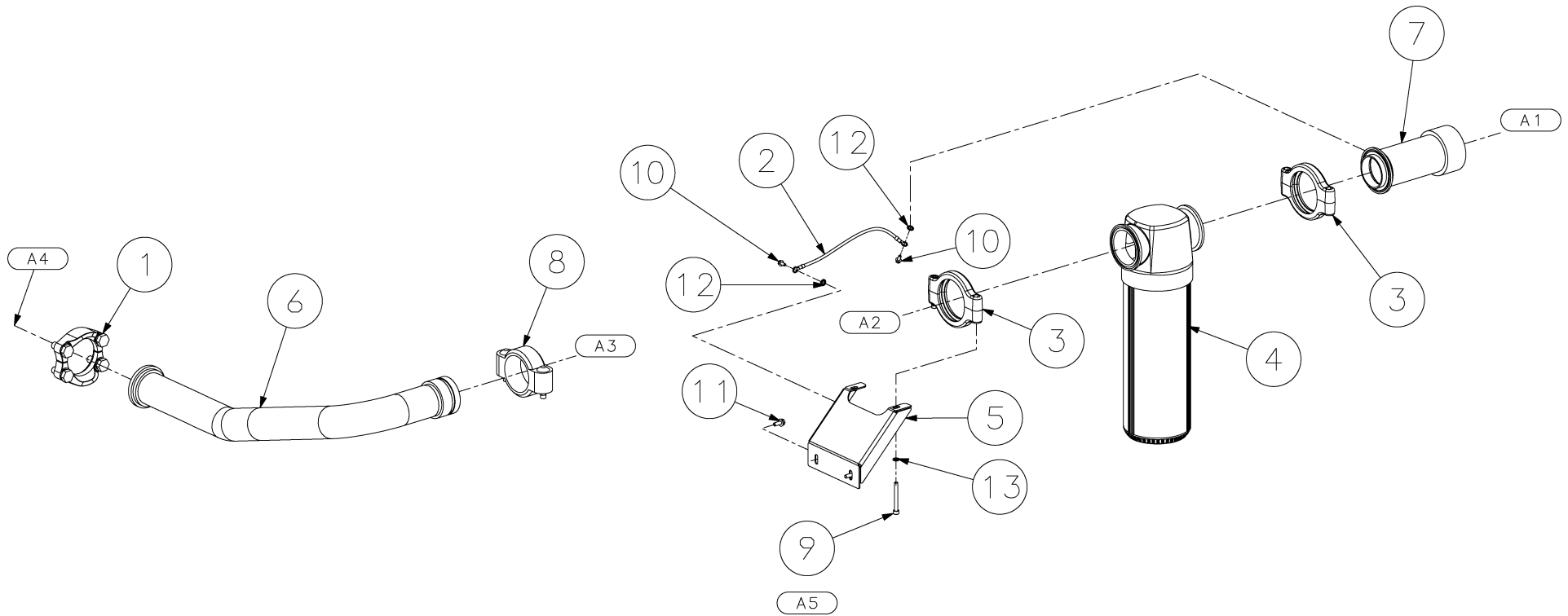
**1.6 Air inlet system, water-cooled (enclosed)**

| Key | Part number  | Qty | Description                        | Notes |
|-----|--------------|-----|------------------------------------|-------|
| 1   | 02250044-538 | 2   | CLAMP, T-BOLT SS BAND 7.50" ID     |       |
| 2   | 02250135-154 | 1   | FILTER,AIRASSY OPTIMALAIR 750CFM   |       |
| 3   | 02250146-413 | 1   | BAND,MTG 15" AIR FILTER LS200S     |       |
| 4   | 02250222-558 | 1   | VALVE,INLET 6" POP W/BYPASS LS200S |       |
| 5   | 02250225-373 | 1   | ELBOW,RUB 90 6"TO 7"               |       |
| 6   | 02250226-548 | 1   | SUPPORT,BRACKET AIR INLET FILTER   |       |
| 7   | 041992       | 1   | CLAMP,HOSE 7 3/4"                  |       |
| 8   | 1000-7439    | 1   | HOSE,7" ID CORG AIR INLET LS90     |       |
| 9   | 240621-012   | 1   | GASKET, ASA FLG 150# 6"            |       |
| 10  | 250020-159   | 1   | CLAMP, HOSE 6 9/16 TO 6 1/4"       |       |
| 11  | 825305-283   | 2   | NUT, HEX FLGD PLTD 5/16-18         |       |
| 12  | 829108-175   | 8   | CAPSCREW,HEX GR5 1/2-13 X 1 3/4"   |       |
| 13  | 829705-075   | 4   | SCREW, HX SER WASH 5/16 X 3/4"     |       |
| 14  | 837808-125   | 8   | WASHER, SPRLOCK REG PLTD 1/2"      |       |

**Drawing notes**

|    |                      |
|----|----------------------|
| A1 | TO COMPRESSOR INLET  |
| A2 | TO WATEROC STRUCTURE |
| A3 | TO ENCLOSURE ROOF    |

1.7 Air piping, air-cooled



02250223-704 R02

**1.7 Air piping, air-cooled**

| Key | Part number  | Qty | Description                     | Notes |
|-----|--------------|-----|---------------------------------|-------|
| 1   | 02250100-926 | 1   | FLANGE,KIT(SAE) SPLT 3" - VITON |       |
| 2   | 02250157-279 | 1   | WIRE, 10 GAGE GROUND BOND 12"   |       |
| 3   | 02250193-544 | 2   | CLAMP,FX FILTER 925-1600        |       |
| 4   | 02250208-571 | 1   | SEPARATOR,WTR CS-1600 3" W/O DR |       |
| 5   | 02250211-593 | 1   | SUPPORT,BRACKET FILTER/H2O SEP  |       |
| 6   | 02250224-122 | 1   | PIPE ASSEMBLY,AIRPP LS110       |       |
| 7   | 02250224-347 | 1   | PIPE ASSEMBLY,3.00 DISCH        |       |
| 8   | 02250225-325 | 1   | CLAMP,3.0 SPLIT FLG             |       |
| 9   | 829308-070   | 2   | SCREW,SOCKET ISO 4762 M8X70MM   |       |
| 10  | 829704-050   | 2   | SCREW, HX SER WASH 1/4 X 1/2"   |       |
| 11  | 829705-075   | 2   | SCREW, HX SER WASH 5/16 X 3/4"  |       |
| 12  | 838405-034   | 2   | WASHER, LOCK EXT TOOTH 5/16"    |       |
| 13  | 838808-200   | 2   | WASHER, SPRLOCK METRIC M8       |       |

**Drawing notes**

|    |                                                                      |
|----|----------------------------------------------------------------------|
| A1 | PACKAGE OUT                                                          |
| A2 | AC OUT                                                               |
| A3 | AC IN                                                                |
| A4 | MPV OUT                                                              |
| A5 | DISCARD BOLTS IN KIT AND REPLACE WITH 829308-070 FOR THIS CLAMP ONLY |



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## 1.8 Air piping, water-cooled

| Key | Part number  | Qty | Description                     | Notes |
|-----|--------------|-----|---------------------------------|-------|
| 1   | 02250100-926 | 1   | FLANGE,KIT(SAE) SPLT 3" - VITON |       |
| 2   | 02250157-281 | 1   | WIRE, 10 GAGE GROUND BOND 24"   |       |
| 3   | 02250193-544 | 2   | CLAMP,FX FILTER 925-1600        |       |
| 4   | 02250208-571 | 1   | SEPARATOR,WTR CS-1600 3" W/O DR |       |
| 5   | 02250224-347 | 1   | PIPE ASSEMBLY,3.00 DISCH        |       |
| 6   | 02250224-690 | 1   | PIPE ASSEMBLY,DISCH 3.00 AC OUT |       |
| 7   | 02250224-691 | 1   | PIPE ASSEMBLY,DISCH 3.00 AC IN  |       |
| 8   | 02250225-325 | 2   | CLAMP,3.0 SPLIT FLG             |       |
| 9   | 02250230-580 | 1   | SUPPORT,AIRPP AC OUT WC         |       |
| 10  | 825306-347   | 4   | NUT, HEX FLGD PLTD 3/8-16       |       |
| 11  | 829704-050   | 2   | SCREW, HX SER WASH 1/4 X 1/2"   |       |
| 12  | 829705-075   | 4   | SCREW, HX SER WASH 5/16 X 3/4"  |       |
| 13  | 838405-034   | 2   | WASHER, LOCK EXT TOOTH 5/16"    |       |
| 14  | 868306-250   | 2   | U-BOLT 3/8 X 2 1/2" PIPE PLTD   |       |

### Drawing notes

|    |                              |
|----|------------------------------|
| A1 | PACKAGE OUT                  |
| A2 | AC OUT                       |
| A3 | AC IN                        |
| A4 | MPV OUT                      |
| A5 | TO WATEROC SUPPORT STRUCTURE |

This exploded view diagram illustrates the assembly of a water pump. The components are numbered as follows:

- 1**: Main pump body
- 2**: Mounting plate
- 3**: Upper hose
- 4**: Lower hose
- 5**: Hose clamp
- 6**: Hose clamp
- 7**: Hose connector
- 8**: Hose connector

Callouts A1 through A6 indicate specific assembly points or fasteners:

- A1**: Hose connector
- A2**: Hose connector
- A3**: Hose connector
- A4**: Hose connector
- A5**: Mounting plate
- A6**: Hose clamp

The diagram shows the pump body (1) connected to the upper hose (3) and the lower hose (4). The lower hose is connected to the mounting plate (2) via a hose clamp (5) and a hose connector (8). The mounting plate (2) is secured to the pump body (1) with a hose clamp (6) and a hose connector (7). The hose connector (7) is also connected to the upper hose (3) via a hose connector (8).



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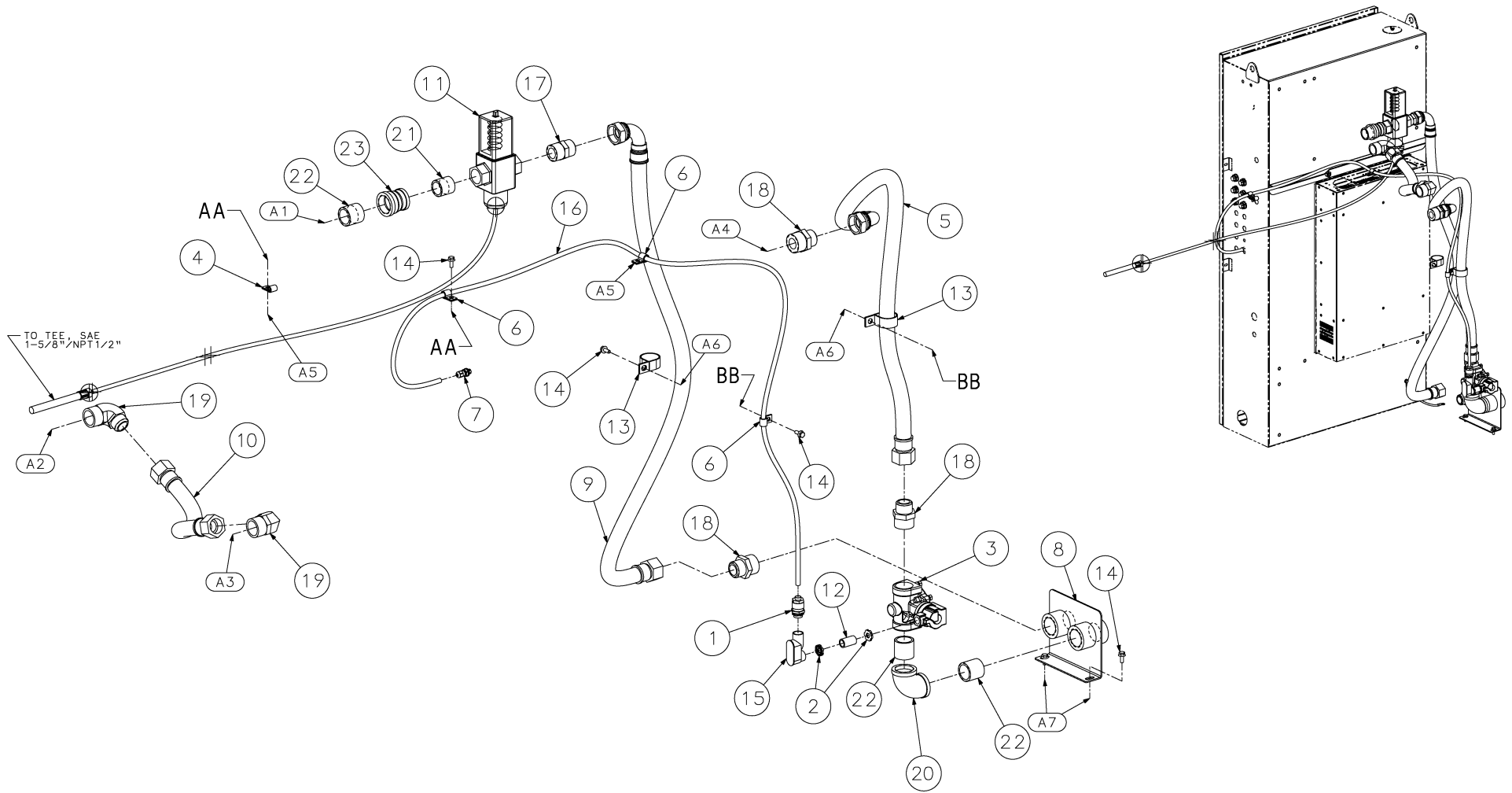
**1.9 Water piping, water-cooled (standard)**

| Key | Part number  | Qty | Description                       | Notes |
|-----|--------------|-----|-----------------------------------|-------|
| 1   | 02250219-219 | 1   | HOSE, HYD PARKRIMP 1-1/4 X 71     |       |
| 2   | 02250225-689 | 1   | SUPPORT, BRACKET WTRPP            |       |
| 3   | 02250226-828 | 1   | HOSE, HYD PARKRIMP 1-1/4X60"OAL   |       |
| 4   | 02250226-876 | 1   | HOSE, HYD PARKRIMP 1-1/4X30"OAL   |       |
| 5   | 408300-008   | 2   | CLAMP, HOSE O.D. 1.750            |       |
| 6   | 829705-075   | 4   | SCREW, HX SER WASH 5/16 X 3/4"    |       |
| 7   | 860120-150   | 3   | CONNECTOR, 37FL/MPT 1-1/4 X 1-1/2 |       |
| 8   | 860220-150   | 3   | ELBOW, 37FL 90M 1 1/4 X 1 1/2"    |       |

**Drawing notes**

|    |                       |
|----|-----------------------|
| A1 | TO OIL COOLER IN      |
| A2 | TO OIL COOLER OUT     |
| A3 | TO AFTERCOOLER IN     |
| A4 | TO AFTERCOOLER OUT    |
| A5 | TO FRAME              |
| A6 | TO WTROC SUPPORT, LEG |

1.10 Water piping, water-cooled (water solenoid valve and water regulating valve)

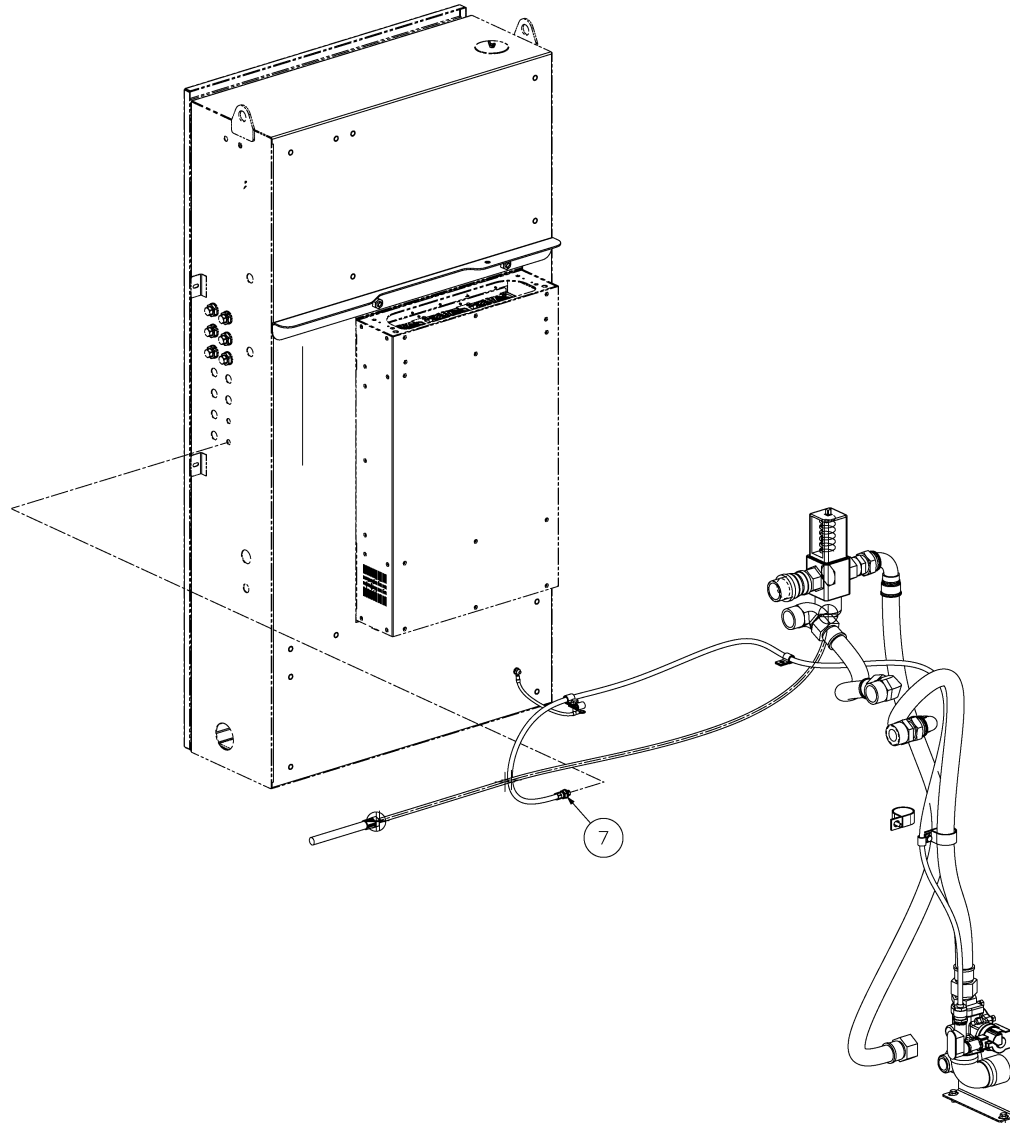


02250222-805 R03 (sh1)



02250231-031 R07  
Subject to EAR, ECCN EAR99 and related export control restrictions.

## 1.10 Water piping, water-cooled (water solenoid valve and water regulating valve)



02250222-805 R03 (sh2)

**1.10 Water piping, water-cooled (water solenoid valve and water regulating valve)**

| Key | Part number  | Qty | Description                         | Notes |
|-----|--------------|-----|-------------------------------------|-------|
| 1   | 02250071-250 | 1   | GRIP,CORD N4 .38-.50 X 1/2"         |       |
| 2   | 02250071-362 | 2   | LOCKNUT,COND SEAL N4 1/2"           |       |
| 3   | 02250125-653 | 1   | VALVE,SOLENOID 2WNC 1-1/2 150# N4 + |       |
| 4   | 02250143-876 | 1   | CLAMP, HOSE O.D. .375               |       |
| 5   | 02250146-545 | 1   | HOSE,HYD PARKRIMP 1-14 X 61         |       |
| 6   | 02250157-458 | 3   | CLAMP, HOSE O.D. .500               |       |
| 7   | 02250215-692 | 1   | GRIP,CORD CABLE GLAND M 12          |       |
| 8   | 02250225-689 | 1   | SUPPORT,BRACKET WTRPP               |       |
| 9   | 02250230-495 | 1   | HOSE,HYD PARKRIMP 1-1/4X58"OAL      |       |
| 10  | 02250230-496 | 1   | HOSE,HYD PARKRIMP 1-1/4X27"OAL      |       |
| 11  | 049474       | 1   | VALVE, WATER REGULATING 1 1/4"      |       |
| 12  | 250007-169   | 1   | NIPPLE, CONDUIT 1/2 X 1.5"          |       |
| 13  | 408300-008   | 2   | CLAMP, HOSE O.D. 1.750              |       |
| 14  | 829705-075   | 5   | SCREW, HX SER WASH 5/16 X 3/4"      |       |
| 15  | 847715-050   | 1   | ELBOW, ENTRANCE 1/2"                |       |
| 16  | 850603-016   | 11  | WIRE, NEOPRENE #16-3 SO (FT)        |       |
| 17  | 860120-125   | 1   | CONNECTOR, 37FL/MPT 1-1/4 X 1-1/4   |       |
| 18  | 860120-150   | 3   | CONNECTOR, 37FL/MPT 1-1/4 X 1-1/2   |       |
| 19  | 860220-150   | 2   | ELBOW, 37FL 90M 1 1/4 X 1 1/2"      |       |
| 20  | 866215-060   | 1   | ELBOW,PIPE 90DG 1 1/2" 150#PLT      |       |
| 21  | 866420-000   | 1   | NIPPLE, PIPE XS 1 1/4 X CLOSE       |       |
| 22  | 866424-000   | 3   | NIPPLE,PIPE XS 1 1/2 X CLOSE        |       |
| 23  | 879412-010   | 1   | COUPLING, RED 1 1/2 X 1 1/4         |       |

**Drawing notes**

|    |                    |
|----|--------------------|
| A1 | TO OIL COOLER OUT  |
| A2 | TO OIL COOLER IN   |
| A3 | TO AFTERCOOLER OUT |
| A4 | TO AFTERCOOLER IN  |
| A5 | WTROC SUPPORT      |
| A6 | WTROC SUPPORT, LEG |
| A7 | TO FRAME           |

Notes:

This diagram illustrates the assembly of a hydraulic system. The components are numbered as follows:

- 1**: Cylindrical hydraulic cylinder body.
- 2**: Hydraulic cylinder head.
- 3**: Various fittings and connectors.
- 4**: Hydraulic valve or control unit.
- 5**: O-ring.
- 6**: Small hydraulic hose or tube.
- 7**: Hydraulic hose.
- 8**: Long hydraulic hose.
- 9**: Hydraulic hose.
- 10**: Hydraulic hose fitting.
- 11**: O-ring.
- 12**: Hydraulic hose fitting.
- 13**: O-ring.
- 14**: Hydraulic hose fitting.
- 15**: Hydraulic hose fitting.

Labels A1 through A6 indicate specific assembly points or connections:

- A1**: Connection point for fitting 3 at the end of hose 7.
- A2**: Connection point for fitting 3 at the top of hose 9.
- A3**: Connection point for fitting 3 at the top of hose 8.
- A4**: Connection point for fitting 15 on hose 8.
- A5**: Connection point for fitting 13 on hose 9.
- A6**: Connection point for fitting 15 on hose 12.



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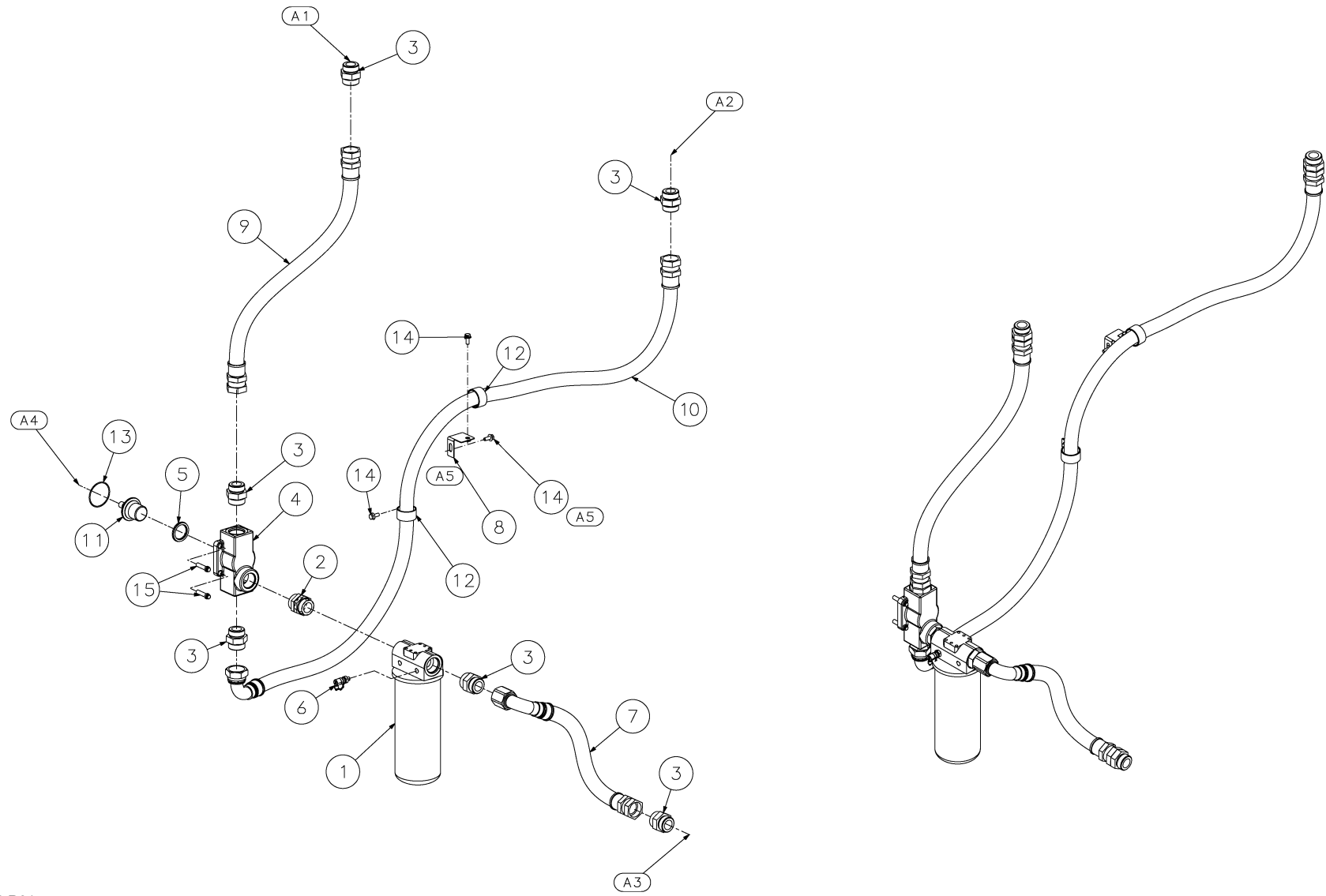
**1.11 Fluid piping, air-cooled (L, H)**

| Key | Part number  | Qty | Description                         | Notes |
|-----|--------------|-----|-------------------------------------|-------|
| 1   | 02250054-605 | 1   | FILTER,FL 1 5/8"SAE STR THRD CON    |       |
| 2   | 02250055-015 | 1   | ADAPTER,SAE 1 5/8-12 X 1 5/8-12     |       |
| 3   | 02250087-068 | 6   | CONNECTOR,SAE X ORFS 1.25"          |       |
| 4   | 02250092-929 | 1   | HOUSING,THRM VLV 1-5/8 - 12 CONN    |       |
| 5   | 02250101-372 | 1   | SEAL,U-CUP VITON THERM VLV          |       |
| 6   | 02250196-306 | 1   | VALVE, KP18NV (1/8" NPTF, VITON)    |       |
| 7   | 02250215-796 | 1   | HOSE,MP 7/8ID X 23.5OAL             |       |
| 8   | 02250228-719 | 1   | HOSE,MP 1-1/8"ID X 108"OAL          |       |
| 9   | 02250228-720 | 1   | HOSE,MP 1-1/8"ID X 36"OAL           |       |
| 10  | 02250229-254 | 1   | SUPPORT,BRACKET AC FLPP             |       |
| 11  | 049542       | 1   | ELEMENT, THERMAL VALVE 175          |       |
| 12  | 408300-008   | 3   | CLAMP, HOSE O.D. 1.750              |       |
| 13  | 826502-144   | 1   | O-RING,VITON 2 1/2 X 3/32           |       |
| 14  | 828406-150   | 4   | CAPSCREW,FERRY HEAD 3/8-16 X 1 1/2" |       |
| 15  | 829705-075   | 4   | SCREW, HX SER WASH 5/16 X 3/4"      |       |

**Drawing notes**

|    |                   |
|----|-------------------|
| A1 | TO AIR END        |
| A2 | TO COOLER OUT     |
| A3 | TO COOLER IN      |
| A4 | TO AIROC BOX      |
| A5 | TO SEPARATOR TANK |
| A6 | TO AIROC SUPPORT  |

1.12 Fluid piping, water-cooled (L, H)



02250231-272 R01

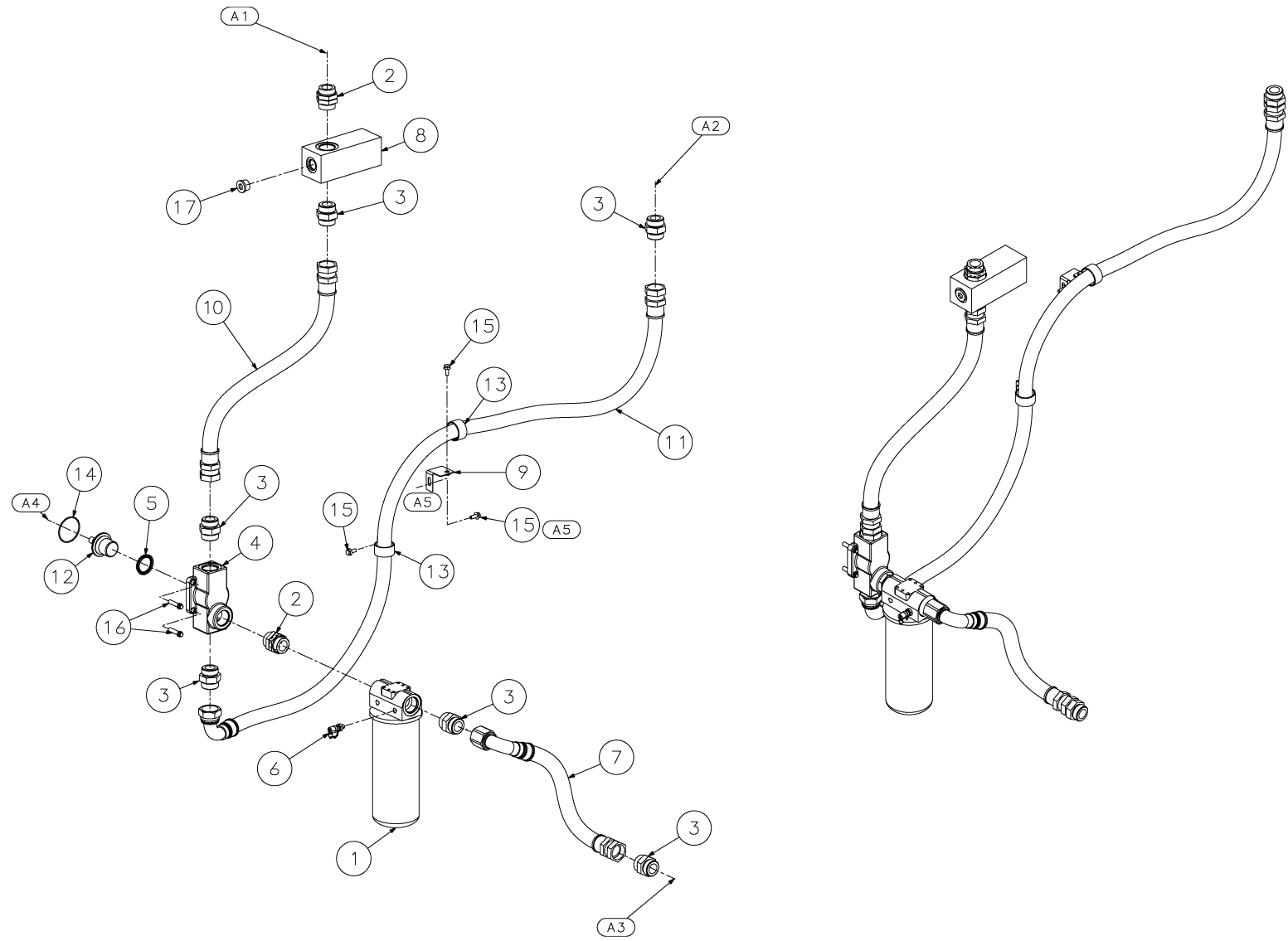
**1.12 Fluid piping, water-cooled (L, H)**

| Key | Part number  | Qty | Description                         | Notes |
|-----|--------------|-----|-------------------------------------|-------|
| 1   | 02250054-605 | 1   | FILTER,FL 1 5/8"SAE STR THRD CON    |       |
| 2   | 02250055-015 | 1   | ADAPTER,SAE 1 5/8-12 X 1 5/8-12     |       |
| 3   | 02250087-068 | 6   | CONNECTOR,SAE X ORFS 1.25"          |       |
| 4   | 02250092-929 | 1   | HOUSING,THRM VLV 1-5/8 - 12 CONN    |       |
| 5   | 02250101-372 | 1   | SEAL,U-CUP VITON THERM VLV          |       |
| 6   | 02250196-306 | 1   | VALVE, KP18NV (1/8" NPTF, VITON)    |       |
| 7   | 02250215-796 | 1   | HOSE,MP 7/8ID X 23.5OAL             |       |
| 8   | 02250229-254 | 1   | SUPPORT,BRACKET AC FLPP             |       |
| 9   | 02250229-440 | 1   | HOSE,MP 1-1/8"ID X 32"OAL           |       |
| 10  | 02250229-441 | 1   | HOSE,MP 1-1/8"ID X 84"OAL           |       |
| 11  | 049542       | 1   | ELEMENT,                            |       |
| 12  | 408300-008   | 2   | CLAMP, HOSE O.D. 1.750              |       |
| 13  | 826502-144   | 1   | O-RING,VITON 2 1/2 X 3/32           |       |
| 14  | 829705-075   | 3   | SCREW, HX SER WASH 5/16 X 3/4"      |       |
| 15  | 867306-150   | 4   | CAPSCREW,FERRY HEAD 3/8-16 X 1 1/2" |       |

**Drawing notes**

|    |                   |
|----|-------------------|
| A1 | TO OIL COOLER IN  |
| A2 | TO OIL COOLER OUT |
| A3 | TO AIR END        |
| A4 | TO SEPARATOR TANK |
| A5 | TO WTROC LEG      |

1.13 Fluid piping, water-cooled (L, H with regulating valve)



02250229-437 R02

**1.13 Fluid piping, water-cooled (L, H with regulating valve)**

| Key | Part number  | Qty | Description                         | Notes |
|-----|--------------|-----|-------------------------------------|-------|
| 1   | 02250054-605 | 1   | FILTER,FL 1 5/8"SAE STR THRD CON    |       |
| 2   | 02250055-015 | 2   | ADAPTER,SAE 1 5/8-12 X 1 5/8-12     |       |
| 3   | 02250087-068 | 6   | CONNECTOR,SAE X ORFS 1.25"          |       |
| 4   | 02250092-929 | 1   | HOUSING,THRM VLV 1-5/8 - 12 CONN    |       |
| 5   | 02250101-372 | 1   | SEAL,U-CUP VITON THERM VLV          |       |
| 6   | 02250196-306 | 1   | VALVE, KP18NV (1/8" NPTF, VITON)    |       |
| 7   | 02250215-796 | 1   | HOSE,MP 7/8ID X 23.5OAL             |       |
| 8   | 02250225-817 | 1   | TEE,SAE 1-5/8"/ NPT 1/2"            |       |
| 9   | 02250229-254 | 1   | SUPPORT,BRACKET AC FLPP             |       |
| 10  | 02250229-440 | 1   | HOSE,MP 1-1/8"ID X 32"OAL           |       |
| 11  | 02250229-441 | 1   | HOSE,MP 1-1/8"ID X 84"OAL           |       |
| 12  | 049542       | 1   | ELEMENT, THERMAL VALVE 175          |       |
| 13  | 408300-008   | 2   | CLAMP, HOSE O.D. 1.750              |       |
| 14  | 826502-144   | 1   | O-RING,VITON 2 1/2 X 3/32           |       |
| 15  | 829705-075   | 3   | SCREW, HX SER WASH 5/16 X 3/4"      |       |
| 16  | 867306-150   | 4   | CAPSCREW,FERRY HEAD 3/8-16 X 1 1/2" |       |
| 17  | 875712-106   | 1   | PLUG,STR THD HOL HX 1 1/16-12       |       |

**Drawing notes**

|    |                   |
|----|-------------------|
| A1 | TO OIL COOLER     |
| A2 | TO AFTERCOOLER    |
| A3 | TO AIR END        |
| A4 | TO SEPARATOR TANK |
| A5 | TO WTROC LEG      |

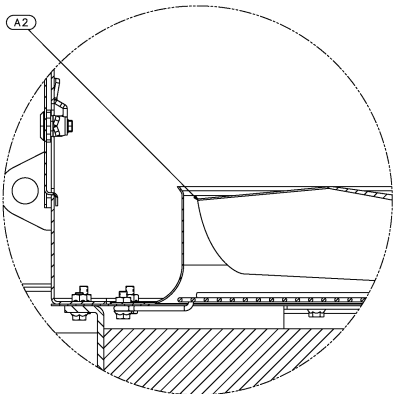
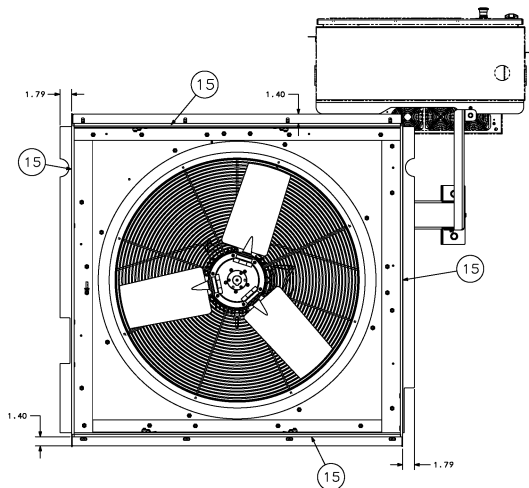
This exploded view diagram illustrates the assembly of the ceiling-mounted projector. The components are labeled as follows:

- 1**: A small circular component, likely a pin or screw, shown separately on the left.
- 2**: The main projector body.
- 3**: A rectangular mounting plate or bracket.
- 4**: A component, possibly a lens or filter, mounted on the projector body.
- 5**: A vertical support arm.
- 6**: A vertical support arm, similar to 5 but with different mounting details.
- 7**: A small component, possibly a switch or sensor, mounted on the projector body.
- 8**: A rectangular component, possibly a cover or plate, mounted on the projector body.
- 9**: A circular component, likely a lens or filter, mounted on the projector body.
- 10**: A component, possibly a bracket or arm, mounted on the projector body.
- 11**: A component, possibly a bracket or arm, mounted on the projector body.
- 12**: A component, possibly a bracket or arm, mounted on the projector body.
- 13**: A component, possibly a bracket or arm, mounted on the projector body.
- 14**: A component, possibly a bracket or arm, mounted on the projector body.
- 15**: A component, possibly a bracket or arm, mounted on the projector body.
- 16**: A component, possibly a bracket or arm, mounted on the projector body.
- 17**: A component, possibly a bracket or arm, mounted on the projector body.
- 18**: A component, possibly a bracket or arm, mounted on the projector body.
- 19**: A component, possibly a bracket or arm, mounted on the projector body.
- 20**: A component, possibly a bracket or arm, mounted on the projector body.
- 21**: A component, possibly a bracket or arm, mounted on the projector body.
- 22**: A component, possibly a bracket or arm, mounted on the projector body.
- AA**: A component, possibly a bracket or arm, mounted on the projector body.
- BB**: A component, possibly a bracket or arm, mounted on the projector body.
- CC**: A component, possibly a bracket or arm, mounted on the projector body.
- DD**: A component, possibly a bracket or arm, mounted on the projector body.
- EE**: A component, possibly a bracket or arm, mounted on the projector body.
- FF**: A component, possibly a bracket or arm, mounted on the projector body.

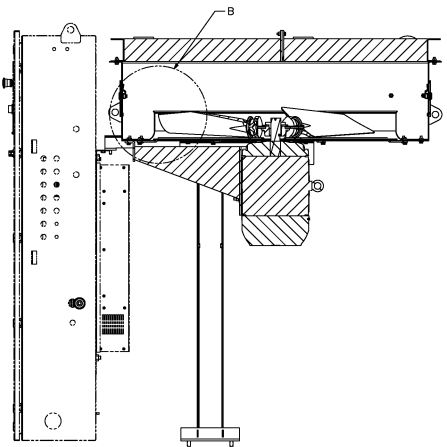
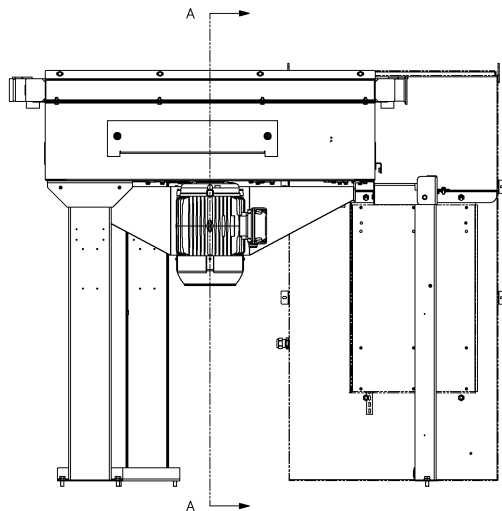


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1.14 Cooling and lubrication system, air-cooled (460V)



DETAIL B



SECTION A-A

02250225-823 R06 (sh2)

**1.14 Cooling and lubrication system, air-cooled (460V)**

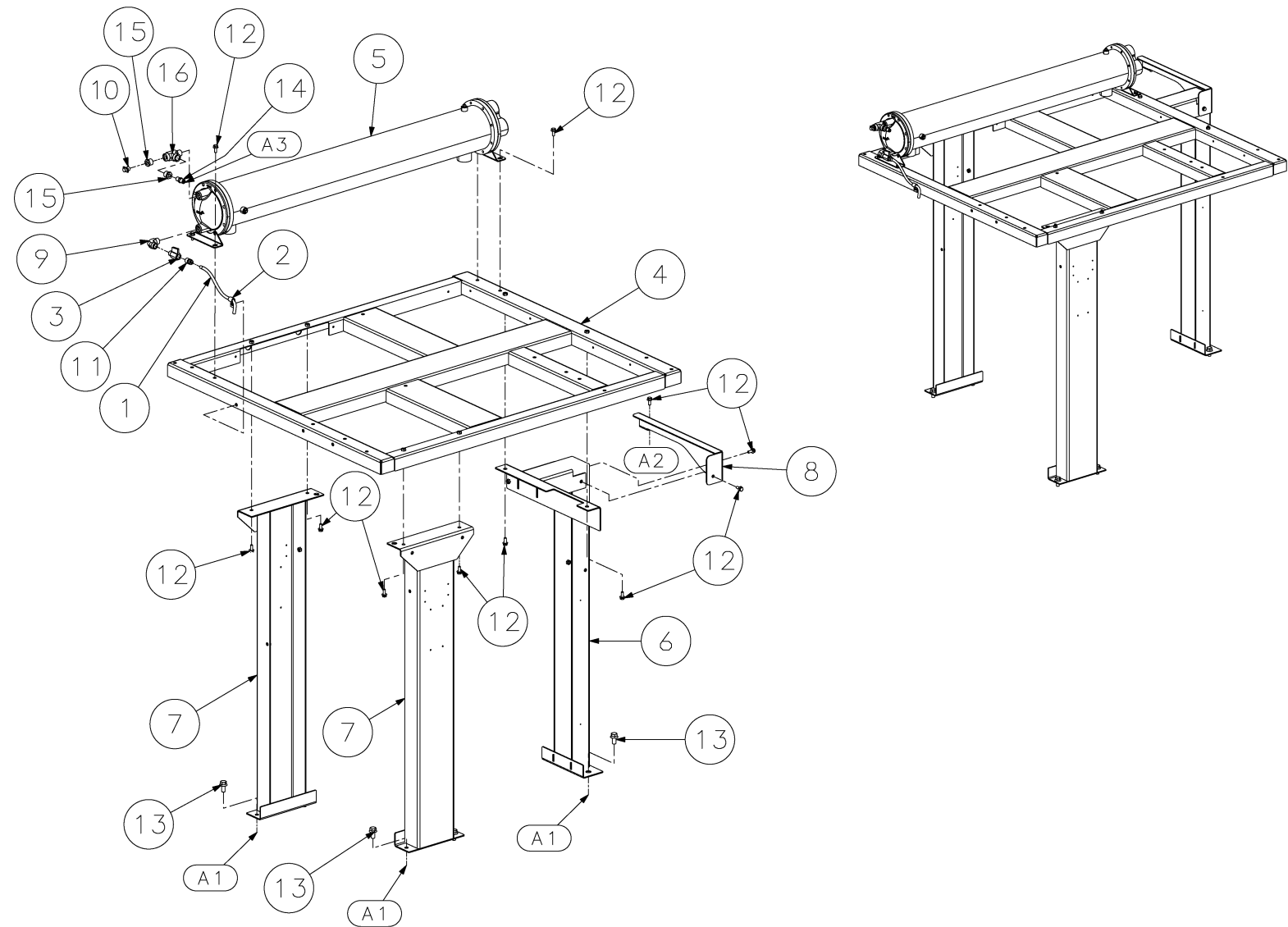
| Key | Part number  | Qty | Description                          | Notes |
|-----|--------------|-----|--------------------------------------|-------|
| 1   | 02250217-531 | 1   | GRIP,CORD CABLE GLAND M32            |       |
| 2   | 02250218-162 | 1   | MOTOR, 3 HORSE POWER 6P 55C 230/460V |       |
| 3   | 02250223-690 | 1   | COOLER,OIL 150HP LS110               |       |
| 4   | 02250223-691 | 1   | COOLER,AFTERCOOLER 150HP LS110       |       |
| 5   | 02250224-809 | 1   | SUPPORT,BRACKET AFTERCOOLER          |       |
| 6   | 02250224-810 | 2   | SUPPORT,BRACKET AFTERCOOLER          |       |
| 7   | 02250224-846 | 1   | FAN,AXIAL 36OD                       |       |
| 8   | 02250225-608 | 2   | COVER,AIROC BOX                      |       |
| 9   | 02250226-074 | 1   | PANEL,VENTURI                        |       |
| 10  | 02250226-076 | 1   | SUPPORT,FAN MOTOR                    |       |
| 11  | 02250228-595 | 1   | SUPPORT,BRACKET 125-150 STARTER      |       |
| 12  | 02250228-828 | 1   | BOX,AIROC                            |       |
| 13  | 248744       | 1   | GUARD, FAN (2 PER PART)              |       |
| 14  | 250018-499   | 1   | GRIP, CORD FOR SO 12/4 ST 1"         |       |
| 15  | 250022-436   | 17  | WEATHERSTRIP,3/16" X 3/8" (FT)       | FEET  |
| 16  | 829106-175   | 4   | CAPSCREW,HX GR5 3/8-16 X 1 3/4       |       |
| 17  | 829705-075   | 41  | SCREW, HX SER WASH 5/16 X 3/4"       |       |
| 18  | 829705-100   | 4   | SCREW, HX SER WASH 5/16 X 1"         |       |
| 19  | 829708-100   | 6   | SCREW, HX SER WASH 1/2 X 1"          |       |
| 20  | 837806-094   | 4   | WASHER,SPRLOCK REG PLTD 3/8          |       |
| 21  | 838206-071   | 4   | WASHER,PL-B REG PLTD 3/8             |       |
| 22  | 866506-337   | 4   | NUT, HEX 3/8-16 PLT                  |       |

**Drawing notes**

|    |                                                                |
|----|----------------------------------------------------------------|
| A1 | TO FRAME                                                       |
| A2 | LEADING EDGE OF FAN NOT TO EXTEND PAST FLAT SECTION OF VENTURI |

**Notes:**

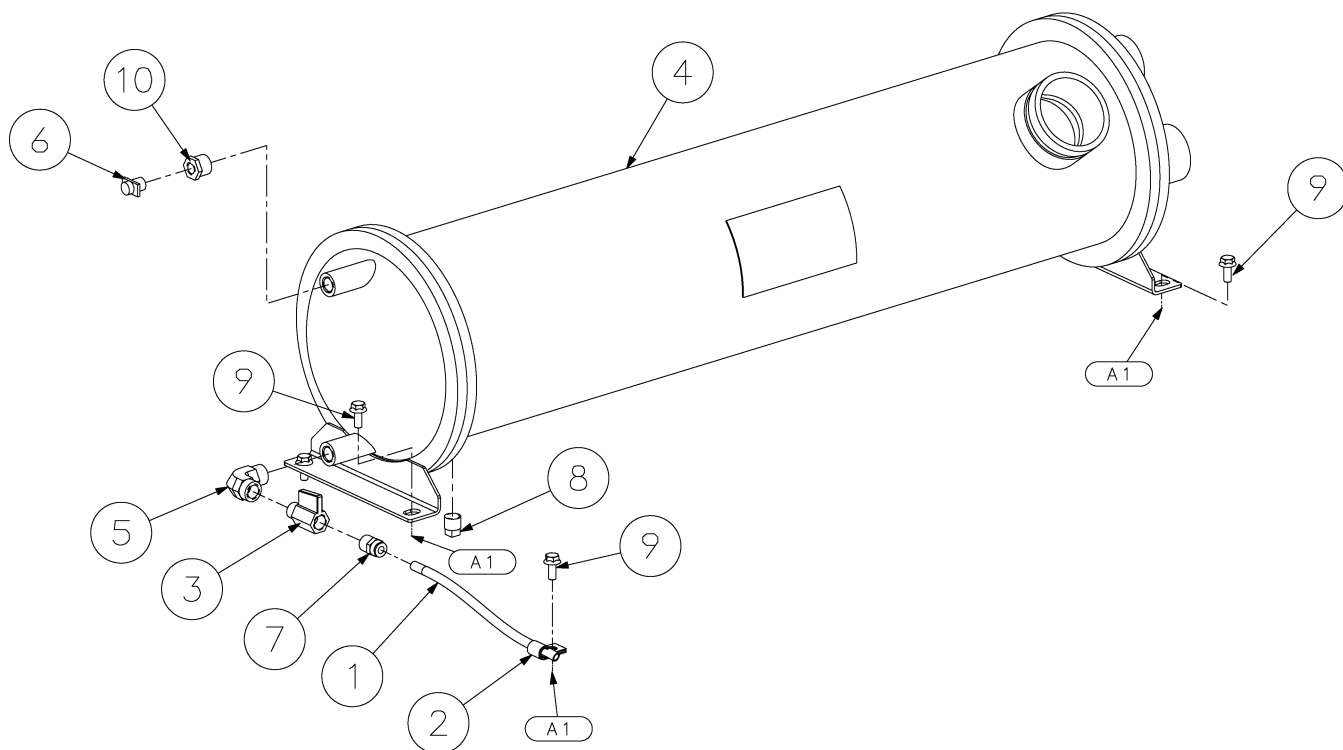
1.15 Cooling and lubrication system, water-cooled (460V)



02250222-803 R02

**1.15 Cooling and lubrication system, water-cooled (460V)**

| Key                  | Part number     | Qty | Description                     | Notes |
|----------------------|-----------------|-----|---------------------------------|-------|
| 1                    | 02250099-630    | 1   | TUBE,NYL .375OD X.05W BLK(FT)   |       |
| 2                    | 02250143-876    | 1   | CLAMP, HOSE O.D. .375           |       |
| 3                    | 02250146-870    | 1   | VALVE,BALL MINI M X F 3/8"VITON |       |
| 4                    | 02250224-705    | 1   | SUPPORT,WTROC 150HP             |       |
| 5                    | 02250224-711    | 1   | COOLER,OIL W/SAE PORTS LS110    |       |
| 6                    | 02250224-809    | 1   | SUPPORT,BRACKET AFTERCOOLER     |       |
| 7                    | 02250224-810    | 2   | SUPPORT,BRACKET AFTERCOOLER     |       |
| 8                    | 02250228-595    | 1   | SUPPORT,BRACKET 125-150 STARTER |       |
| 9                    | 02250230-582    | 1   | ELBOW,PIPE 90M/F 1/2 X 3/8"     |       |
| 10                   | 040061          | 1   | DRAINLOCK, 1/4"                 |       |
| 11                   | 250025-862      | 1   | CONNECTOR, MALE 3/8TUBE X 3/8   |       |
| 12                   | 829705-075      | 13  | SCREW, HX SER WASH 5/16 X 3/4"  |       |
| 13                   | 829708-100      | 6   | SCREW, HX SER WASH 1/2 X 1"     |       |
| 14                   | 860404-012      | 1   | NIPPLE, PIPE HX 1/4 X 1/8"      |       |
| 15                   | 867102-010      | 2   | BUSHING,RED 1/2 X 1/4" STL PLT  |       |
| 16                   | 895508-050      | 1   | TEE,MALE/FEMALE/FEMALE 1/2      |       |
| <b>Drawing notes</b> |                 |     |                                 |       |
| A1                   | TO FRAME        |     |                                 |       |
| A2                   | STARTER CABINET |     |                                 |       |
| A3                   | PRESSURE SENSOR |     |                                 |       |



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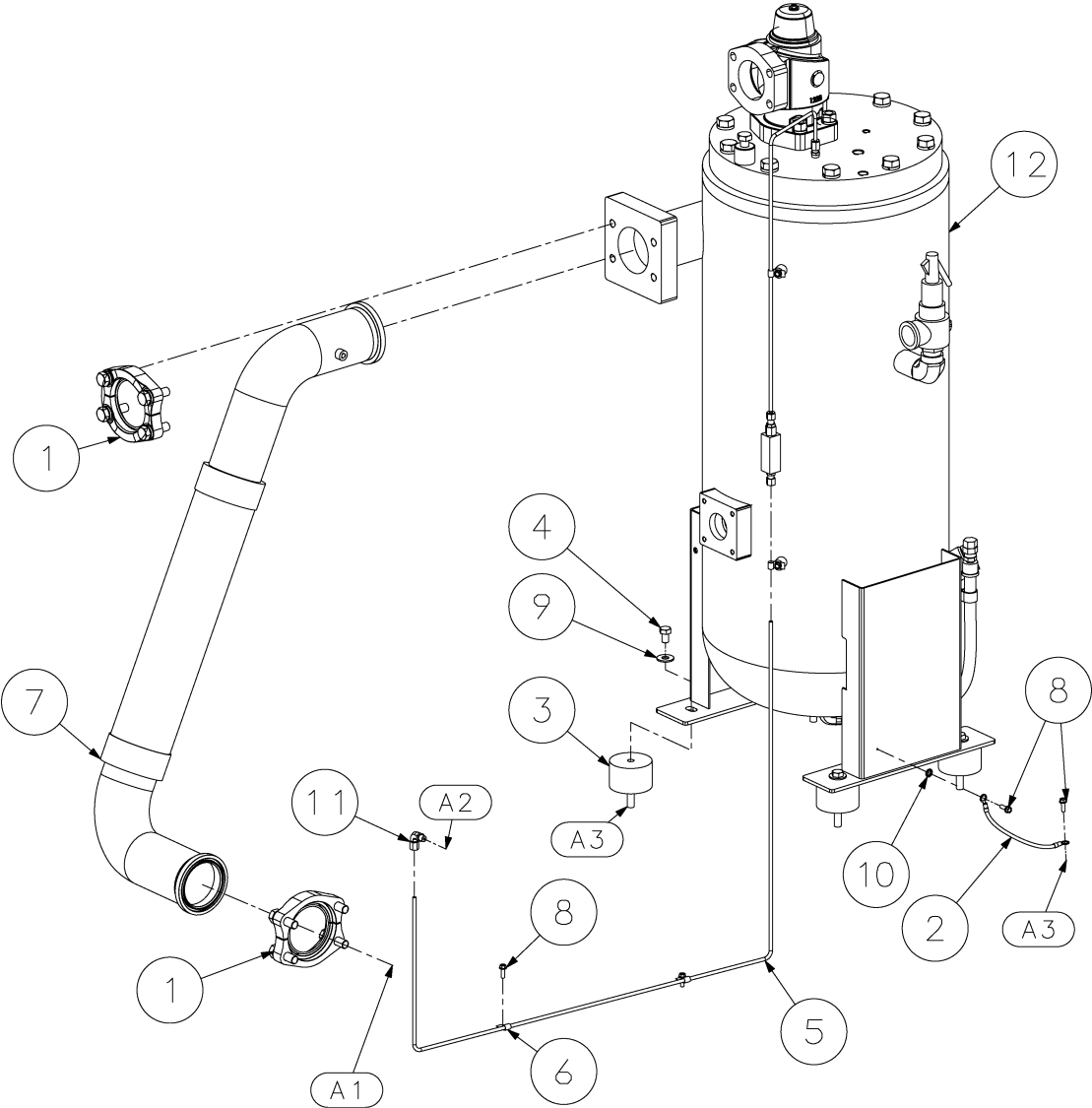
**1.16 Aftercooler, water-cooled (standard)**

| Key | Part number  | Qty | Description                     | Notes |
|-----|--------------|-----|---------------------------------|-------|
| 1   | 02250099-630 | 1   | TUBE,NYL .375OD X.05W BLK(FT)   |       |
| 2   | 02250143-876 | 1   | CLAMP, HOSE O.D. .375           |       |
| 3   | 02250146-870 | 1   | VALVE,BALL MINI M X F 3/8"VITON |       |
| 4   | 02250226-857 | 1   | COOLER,AFTERCOOLER              |       |
| 5   | 02250230-582 | 1   | ELBOW,PIPE 90M/F 1/2 X 3/8"     |       |
| 6   | 040061       | 1   | DRAINLOCK, 1/4"                 |       |
| 7   | 250025-862   | 1   | CONNECTOR, MALE 3/8TUBE X 3/8   |       |
| 8   | 807800-015   | 1   | PLUG, PIPE 3/8" 3000# STL       |       |
| 9   | 829705-075   | 5   | SCREW, HX SER WASH 5/16 X 3/4"  |       |
| 10  | 867102-010   | 1   | BUSHING,RED 1/2 X 1/4" STL PLT  |       |

**Drawing notes**

A1 TO WTROC SUPPORT

1.17 Sump & piping



02250222-721 R04

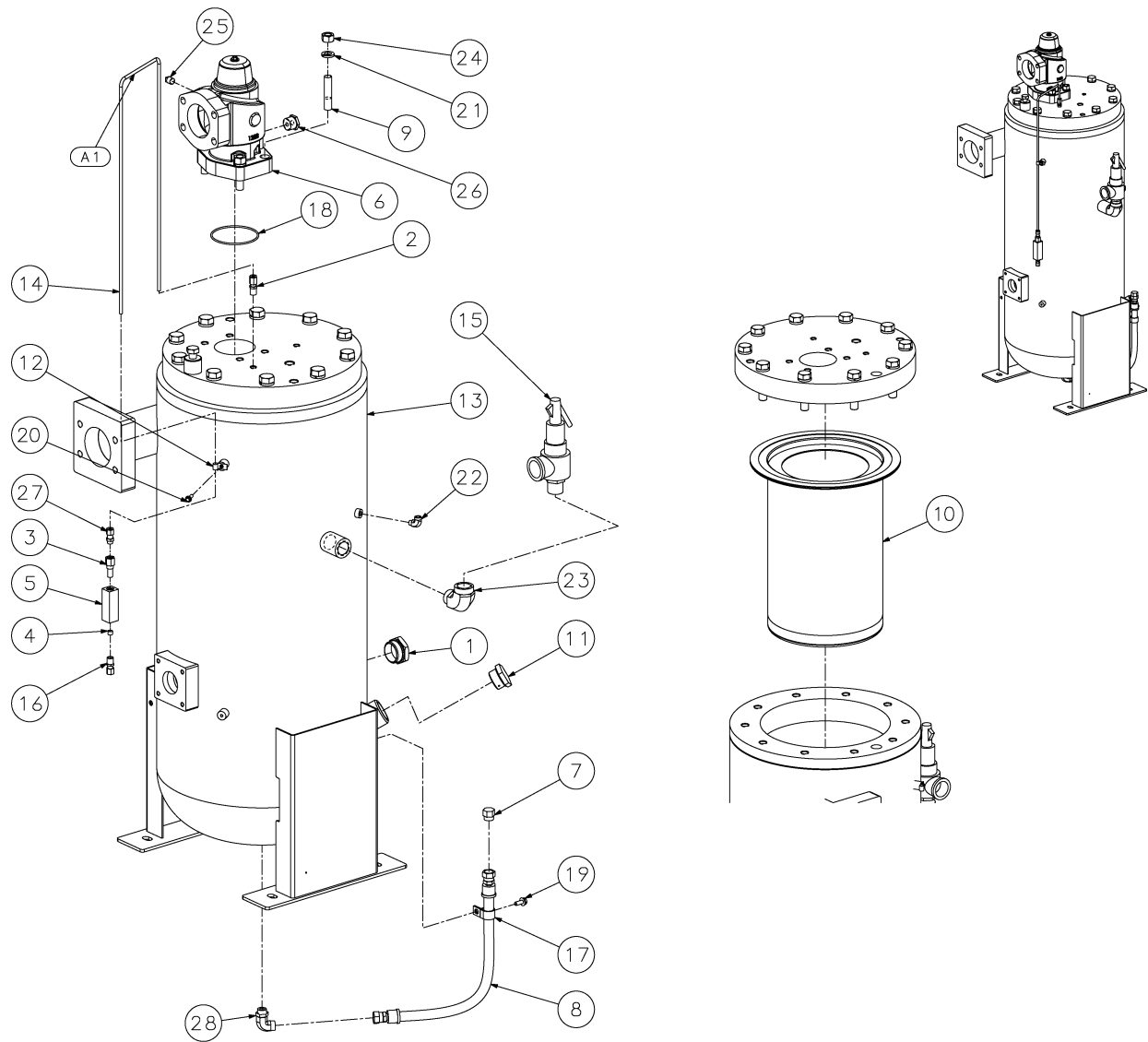
## 1.17 Sump & piping

| Key | Part number  | Qty | Description                                | Notes |
|-----|--------------|-----|--------------------------------------------|-------|
| 1   | 02250224-539 | 2   | FLANGE,3.5" SAE J518 CODE 61               |       |
| 2   | 02250226-008 | 1   | CABLE,GROUND BOND 8"                       |       |
| 3   | 02250228-381 | 4   | ISOLATOR,VIBRATION 3.12OD X 2.00 1/2-13    |       |
| 4   | 02250228-694 | 4   | SCREW,HEX GR5 1/2-13 X 3/4 PLT             |       |
| 5   | 02250228-840 | 1   | TUBE,STAINLESS STEEL SCAVENGE LINE         |       |
| 6   | 043357       | 3   | CLAMP, SPEED - TUBE 1/4"                   |       |
| 7   | 1000-7442    | 1   | PIPEASSY,DISCH LS110                       |       |
| 8   | 834504-075   | 5   | SCREW, SELF DRILL 1/4 X 3/4"               |       |
| 9   | 838208-112   | 4   | WASHER, PL-B REG PLTD 1/2"                 |       |
| 10  | 838405-034   | 2   | WASHER, LOCK EXT TOOTH 5/16"               |       |
| 11  | 870804-044   | 1   | ELBOW,TB-M STR THD SS 1/4 X 7/16           |       |
| 12  | 1001-6747    | 1   | SUB ASSEMBLY,SEP TANK LS110/LP 160 PSI     |       |
|     | 1000-9566    | 1   | SUB ASSEMBLY,SEP TANK LS110/HP 200 PSI     |       |
|     | 1001-6748    | 1   | SUB ASSEMBLY,SEP TANK LS110/HP CRV 200 PSI |       |

### Drawing notes

|    |                         |
|----|-------------------------|
| A1 | TO COMPRESSOR DISCHARGE |
| A2 | TO SCAVENGE OIL RTN     |
| A3 | TO FRAME                |

1.18 Sump tank assembly (8 and 9 bar machines)



1001-6747 R00

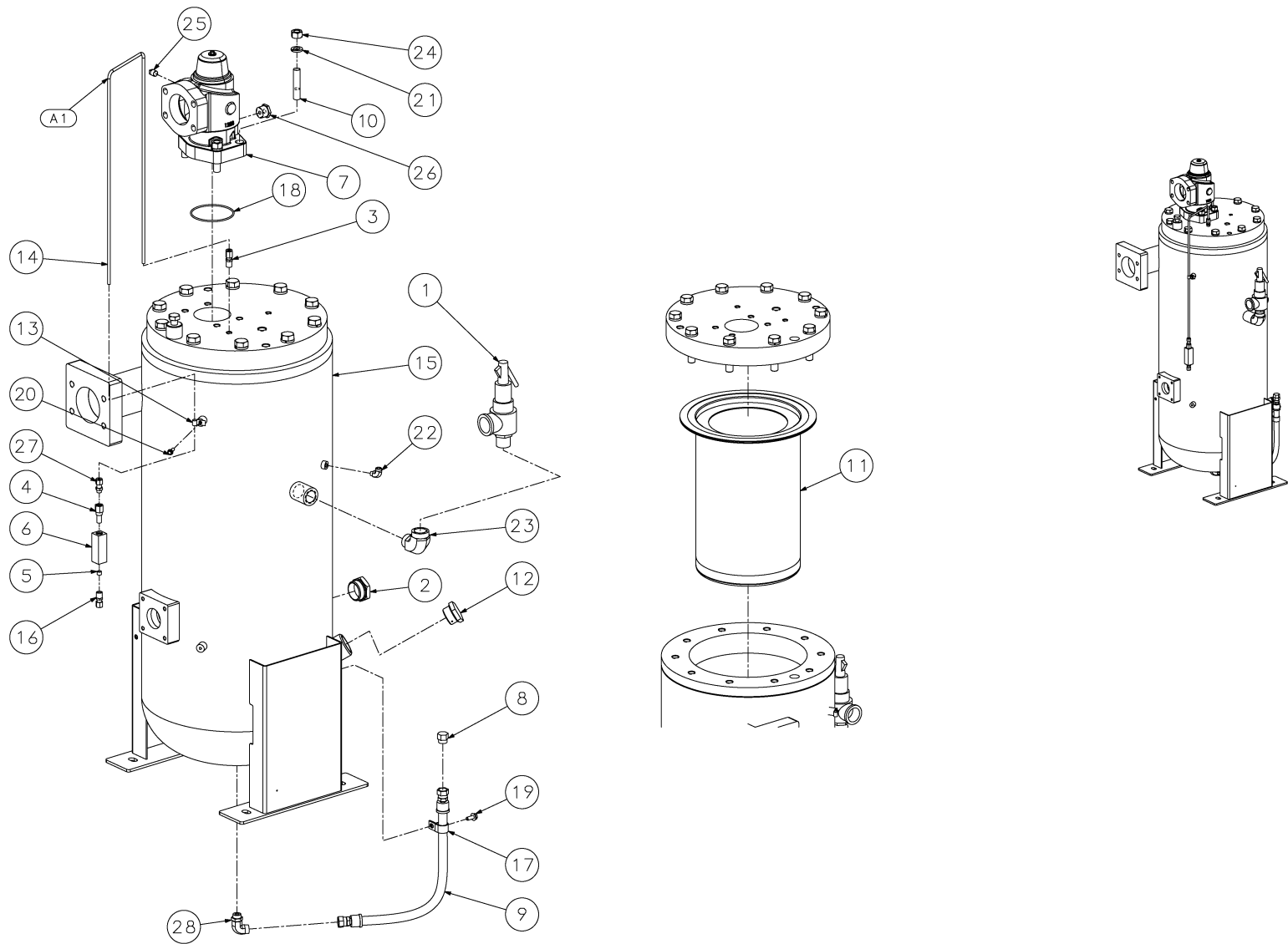
**1.18 Sump tank assembly (8 and 9 bar machines)**

| Key | Part number  | Qty | Description                         | Notes |
|-----|--------------|-----|-------------------------------------|-------|
| 1   | 02250097-611 | 1   | PLUG, SIGHT GLASS 1 7/8" SAE        |       |
| 2   | 02250108-700 | 1   | CONNECTOR,TUBE OIL RETURN 1/4 X 1/4 |       |
| 3   | 02250117-782 | 1   | FILTER ASSEMBLY,GENESIS FILTR       |       |
| 4   | 02250125-774 | 1   | ORIFICE,PLUG BRASS 1/8"NPT X1/32"   |       |
| 5   | 02250126-129 | 1   | SIGHTGLASS/ORF BLOCK - SAE          |       |
| 6   | 02250213-089 | 1   | VALVE,MINIMUM PRESSURE 3" W/CK SAE  |       |
| 7   | 02250225-774 | 1   | PLUG,STR THD ORFS 13/16-16 VIT      |       |
| 8   | 02250225-900 | 1   | HOSE,MP 13/32ID X 24OAL             |       |
| 9   | 02250227-678 | 4   | STUD,THRD 5/8-11 X 3 PLT            |       |
| 10  | 02250229-179 | 1   | ELEMENT,SEP LS 110                  |       |
| 11  | 040029       | 1   | PLUG, O-RING BOSS SAE 1 1/4         |       |
| 12  | 043357       | 1   | CLAMP, SPEED - TUBE 1/4"            |       |
| 13  | 1000-7102    | 1   | TANK,SEP LS110/LP                   |       |
| 14  | 1000-8660    | 1   | TUBE,STAINLESS STEEL SCAVENGE LINE  |       |
| 15  | 1001-4096    | 1   | VALVE,RELIEF 1" X 1-1/4" 160PSIG    |       |
| 16  | 250139-016   | 1   | CONNECTOR,TUBE-M 1/4" SWGLK 316SS   |       |
| 17  | 408300-004   | 1   | CLAMP, HOSE O.D. .875               |       |
| 18  | 826502-241   | 1   | O-RING,VITON 3 7/8 X 1/8"           |       |
| 19  | 829705-075   | 1   | SCREW, HX SER WASH 5/16 X 3/4"      |       |
| 20  | 834504-075   | 1   | SCREW, SELF DRILL 1/4 X 3/4"        |       |
| 21  | 837810-156   | 4   | WASHER, SPRLOCK REG PLTD 5/8"       |       |
| 22  | 860702-012   | 1   | ELBOW, PIPE 90M/F 1/8 X 1/8         |       |
| 23  | 860716-100   | 1   | ELBOW, PIPE 90M/F 1" X 1"           |       |
| 24  | 866510-559   | 4   | NUT,HEX 5/8-11 PLT                  |       |
| 25  | 866900-010   | 1   | PLUG, PIPE 1/4" 3000# STL PLT       |       |
| 26  | 867103-005   | 1   | BUSHING,RED 3/4 X 1/8" STL PLT      |       |
| 27  | 870904-044   | 1   | CONNECTOR,TB-M STR THD SS 1/4 X7/16 |       |
| 28  | 888708-075   | 1   | ELBOW,ST THD/ORFS 3/4 X 1/2         |       |

**Drawing notes**

|    |                                                                          |
|----|--------------------------------------------------------------------------|
| A1 | THE DISTANCE FROM THE TUBE TO THE TOP OF THE RECEIVER LID SHOULD BE 3.5" |
|----|--------------------------------------------------------------------------|

1.19 Sump tank assembly (10 and 12 bar machines)



1000-9566 R00

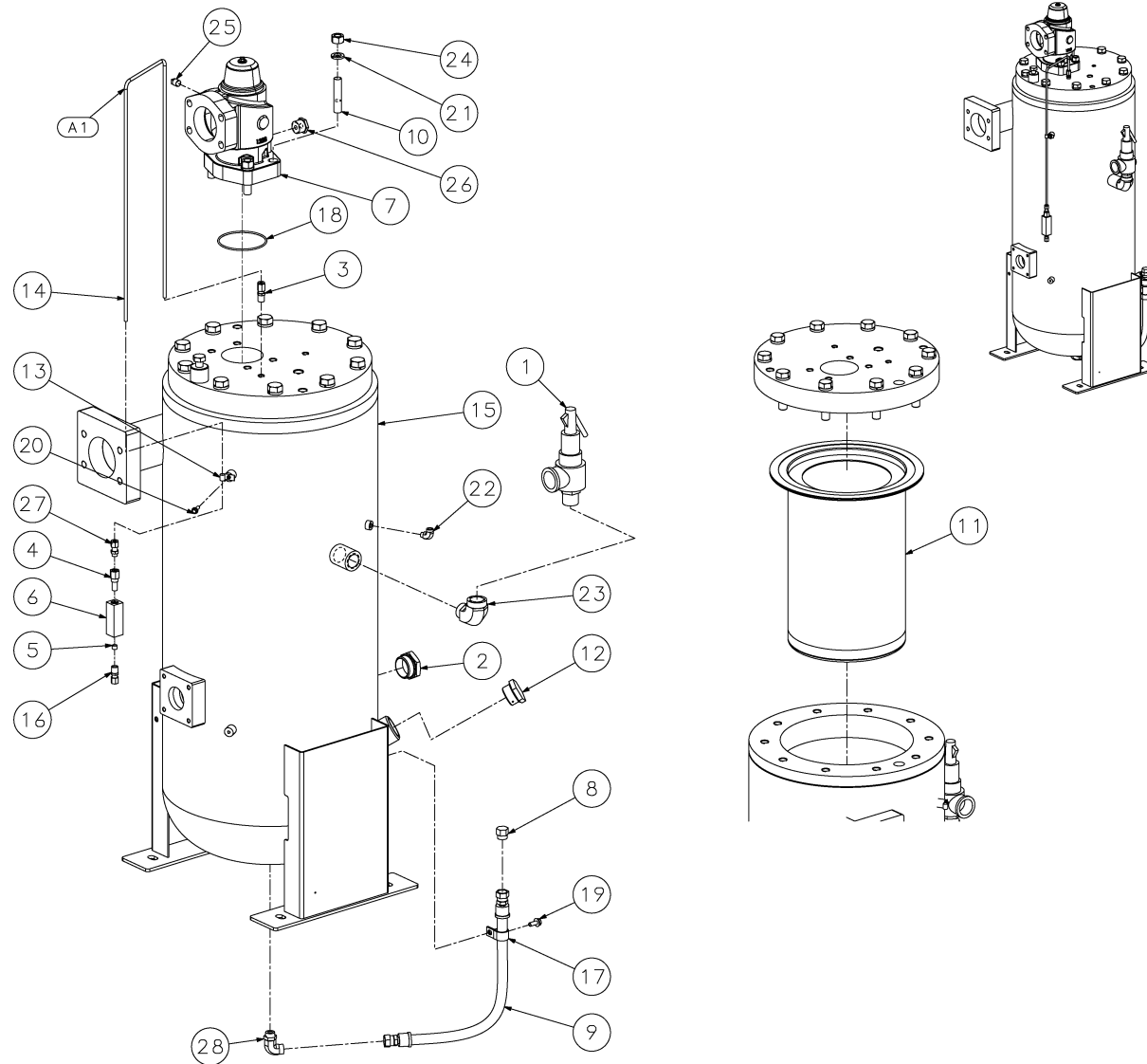
**1.19 Sump tank assembly (10 and 12 bar machines)**

| Key | Part number  | Qty | Description                         | Notes |
|-----|--------------|-----|-------------------------------------|-------|
| 1   | 02250047-679 | 1   | VALVE,RELIEF 1" X 1-1/4" 200PSIG    |       |
| 2   | 02250097-611 | 1   | PLUG, SIGHT GLASS 1 7/8" SAE        |       |
| 3   | 02250108-700 | 1   | CONNECTOR,TUBE OIL RETURN 1/4 X 1/4 |       |
| 4   | 02250117-782 | 1   | FILTER ASSEMBLY,GENESIS FILTR       |       |
| 5   | 02250125-774 | 1   | ORIFICE,PLUG BRASS 1/8"NPT X1/32"   |       |
| 6   | 02250126-129 | 1   | SIGHTGLASS/ORF BLOCK - SAE          |       |
| 7   | 02250213-089 | 1   | VALVE,MINIMUM PRESSURE 3" W/CK SAE  |       |
| 8   | 02250225-774 | 1   | PLUG,STR THD ORFS 13/16-16 VIT      |       |
| 9   | 02250225-900 | 1   | HOSE,MP 13/32ID X 24OAL             |       |
| 10  | 02250227-678 | 4   | STUD,THRD 5/8-11 X 3 PLT            |       |
| 11  | 02250229-179 | 1   | ELEMENT,SEP LS 110                  |       |
| 12  | 040029       | 1   | PLUG, O-RING BOSS SAE 1 1/4         |       |
| 13  | 043357       | 1   | CLAMP, SPEED - TUBE 1/4"            |       |
| 14  | 1000-8660    | 1   | TUBE,STAINLESS STEEL SCAVENGE LINE  |       |
| 15  | 1001-0314    | 1   | TANK,SEP LS110/HP                   |       |
| 16  | 250139-016   | 1   | CONNECTOR,TUBE-M 1/4" SWGLK 316SS   |       |
| 17  | 408300-004   | 1   | CLAMP, HOSE O.D. .875               |       |
| 18  | 826502-241   | 1   | O-RING,VITON 3 7/8 X 1/8"           |       |
| 19  | 829705-075   | 1   | SCREW, HX SER WASH 5/16 X 3/4"      |       |
| 20  | 834504-075   | 1   | SCREW, SELF DRILL 1/4 X 3/4"        |       |
| 21  | 837810-156   | 4   | WASHER, SPRLOCK REG PLTD 5/8"       |       |
| 22  | 860702-012   | 1   | ELBOW, PIPE 90M/F 1/8 X 1/8         |       |
| 23  | 860716-100   | 1   | ELBOW, PIPE 90M/F 1" X 1"           |       |
| 24  | 866510-559   | 4   | NUT,HEX 5/8-11 PLT                  |       |
| 25  | 866900-010   | 1   | PLUG, PIPE 1/4" 3000# STL PLT       |       |
| 26  | 867103-005   | 1   | BUSHING,RED 3/4 X 1/8" STL PLT      |       |
| 27  | 870904-044   | 1   | CONNECTOR,TB-M STR THD SS 1/4 X7/16 |       |
| 28  | 888708-075   | 1   | ELBOW,ST THD/ORFS 3/4 X 1/2         |       |

**Drawing notes**

|    |                                                                          |
|----|--------------------------------------------------------------------------|
| A1 | THE DISTANCE FROM THE TUBE TO THE TOP OF THE RECEIVER LID SHOULD BE 3.5" |
|----|--------------------------------------------------------------------------|

## 1.20 Sump tank assembly (Certified relief valves – all pressures)



1001-6748 R00

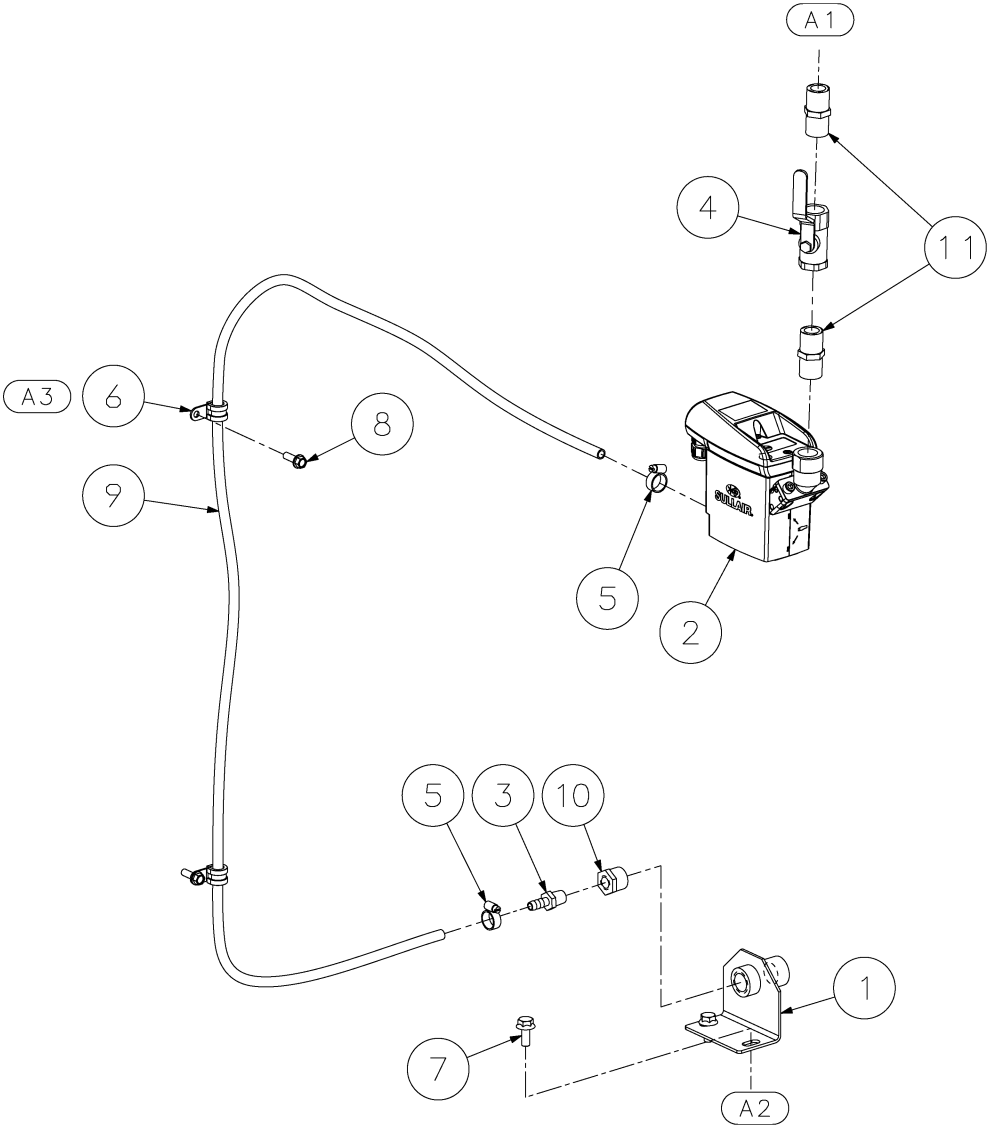
**1.20 Sump tank assembly (Certified relief valves – all pressures)**

| Key | Part number  | Qty | Description                         | Notes |
|-----|--------------|-----|-------------------------------------|-------|
| 1   | 02250062-197 | 1   | VALVE,PRESS RLF1" 200# CERT.        |       |
| 2   | 02250097-611 | 1   | PLUG,SIGHT GLASS 1 7/8" SAE         |       |
| 3   | 02250108-700 | 1   | CONNECTOR,TUBE OIL RETURN 1/4 X 1/4 |       |
| 4   | 02250117-782 | 1   | FILTER ASSEMBLY,GENESIS FILTR       |       |
| 5   | 02250125-774 | 1   | ORIFICE,PLUG 1/8"NPT 1/32           |       |
| 6   | 02250126-129 | 1   | GLASS,SIGHT/ORF BLK-SAE             |       |
| 7   | 02250213-089 | 1   | VALVE,MINIMUM PRESSURE 3" W/CK SAE  |       |
| 8   | 02250225-774 | 1   | PLUG,STR THD ORFS 13/16-16 VIT      |       |
| 9   | 02250225-900 | 1   | HOSE,MP 13/32ID X 24OAL             |       |
| 10  | 02250227-678 | 4   | STUD,THRD 5/8-11 X 3 PLT            |       |
| 11  | 02250229-179 | 1   | ELEMENT,SEP LS 110                  |       |
| 12  | 040029       | 1   | PLUG, O-RING BOSS SAE 1 1/4         |       |
| 13  | 043357       | 1   | CLAMP, SPEED - TUBE 1/4"            |       |
| 14  | 1000-8660    | 1   | TUBE,STAINLESS STEEL SCAVENGE LINE  |       |
| 15  | 1001-0314    | 1   | TANK,SEP LS110/HP                   |       |
| 16  | 250139-016   | 1   | CONNECTOR,TUBE-M 1/4" SWGLK 316SS   |       |
| 17  | 408300-004   | 1   | CLAMP, HOSE O.D. .875               |       |
| 18  | 826502-241   | 1   | O-RING,VITON 3 7/8 X 1/8"           |       |
| 19  | 829705-075   | 1   | SCREW, HX SER WASH 5/16 X 3/4"      |       |
| 20  | 834504-075   | 1   | SCREW, SELF DRILL 1/4 X 3/4"        |       |
| 21  | 837810-156   | 4   | WASHER, SPRLOCK REG PLTD 5/8"       |       |
| 22  | 860702-012   | 1   | ELBOW, PIPE 90M/F 1/8 X 1/8         |       |
| 23  | 860716-100   | 1   | ELBOW, PIPE 90M/F 1" X 1"           |       |
| 24  | 866510-559   | 4   | NUT,HEX 5/8-11 PLT                  |       |
| 25  | 866900-010   | 1   | PLUG, PIPE 1/4" 3000# STL PLT       |       |
| 26  | 867103-005   | 1   | BUSHING,RED 3/4 X 1/8" STL PLT      |       |
| 27  | 870904-044   | 1   | CONNECTOR,TB-M STR THD SS 1/4 X7/16 |       |
| 28  | 888708-075   | 1   | ELBOW,ST THD/ORFS 3/4 X 1/2         |       |

**Drawing notes**

|    |                                                                          |
|----|--------------------------------------------------------------------------|
| A1 | THE DISTANCE FROM THE TUBE TO THE TOP OF THE RECEIVER LID SHOULD BE 3.5" |
|----|--------------------------------------------------------------------------|

1.21 Moisture drain



02250224-898 R04

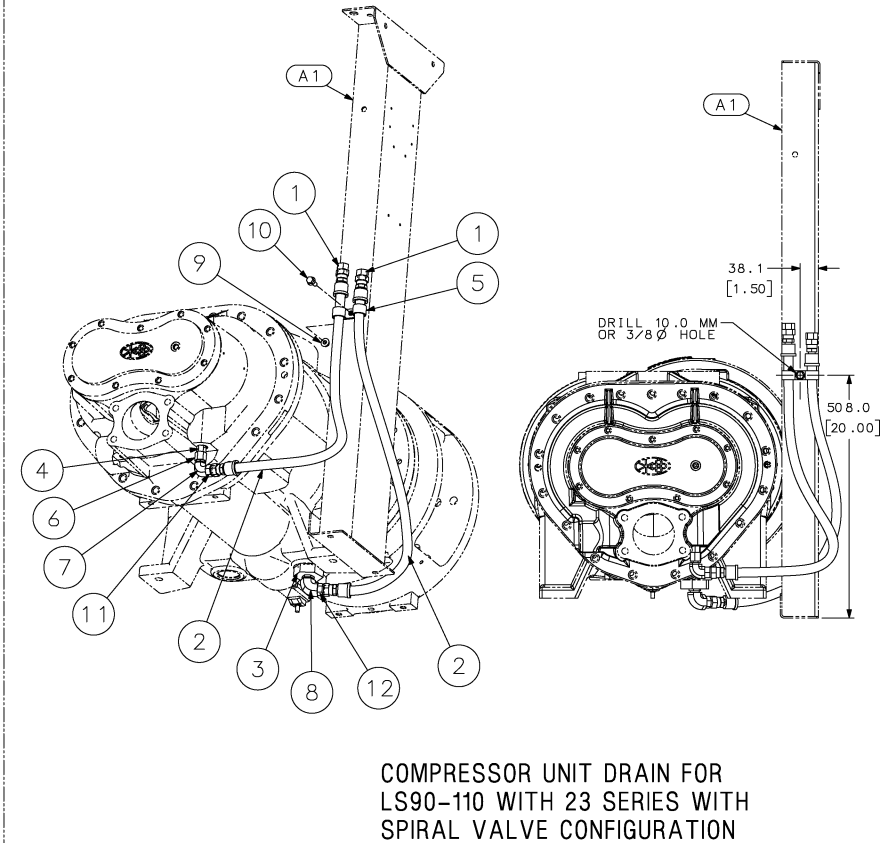
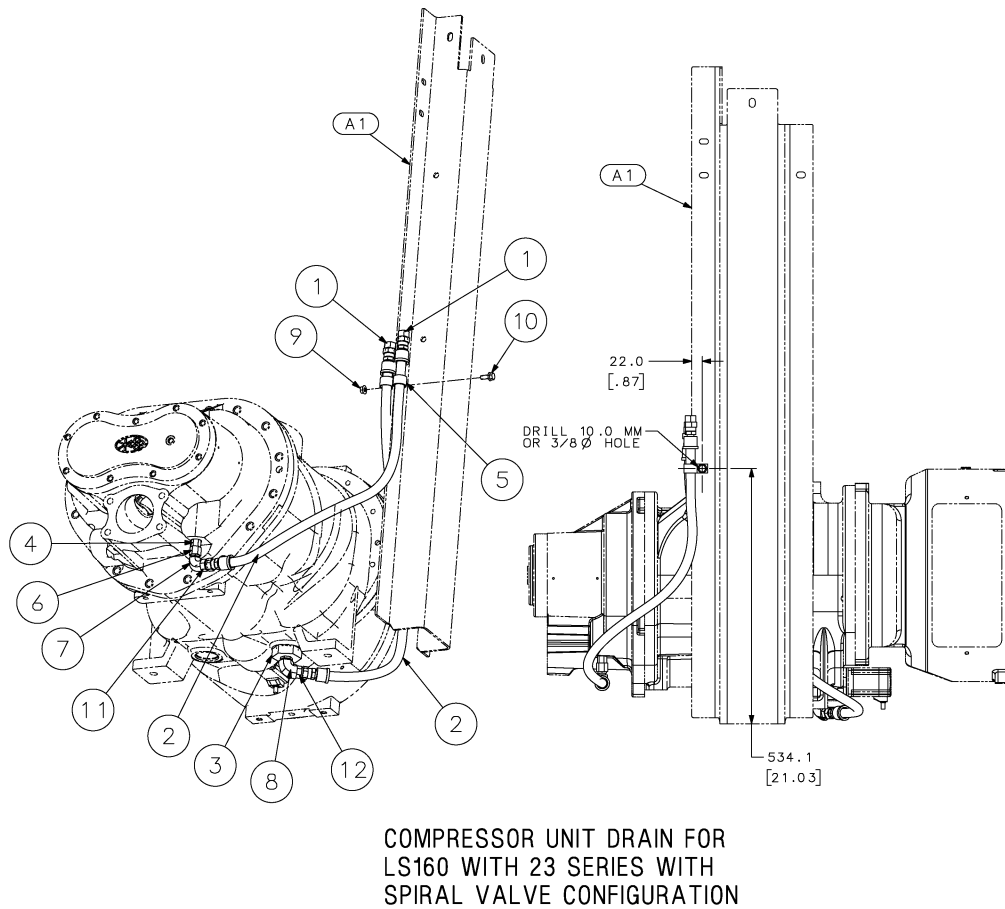
## 1.21 Moisture drain

| Key | Part number  | Qty | Description                      | Notes |
|-----|--------------|-----|----------------------------------|-------|
| 1   | 02250225-371 | 1   | SUPPORT,BRACKET MOISTURE REMOVAL |       |
| 2   | 02250252-887 | 1   | DRAIN,SULLIMAX 32 VARIO 16FT     |       |
| 3   | 043258       | 1   | CONNECTOR,HOSE 5/16"             |       |
| 4   | 047117       | 1   | VALVE,BALL 1/2 NPT               |       |
| 5   | 047235       | 2   | CLAMP, HOSE 3/8"                 |       |
| 6   | 250025-633   | 2   | CLAMP, TUBE RUBR CTD 1/2" DIA    |       |
| 7   | 829705-075   | 2   | SCREW, HX SER WASH 5/16 X 3/4"   |       |
| 8   | 834504-075   | 2   | SCREW, SELF DRILL 1/4 X 3/4"     |       |
| 9   | 842315-031   | 5   | HOSE, FUEL LINE 5/16" (FT)       |       |
| 10  | 867102-010   | 1   | BUSHING,RED 1/2 X 1/4" STL PLT   |       |
| 11  | 881308-050   | 2   | NIPPLE,PIPE HX BRASS 1/2 X 1/2   |       |

### Drawing notes

|    |                  |
|----|------------------|
| A1 | TO H2O SEPARATOR |
| A2 | TO FRAME         |
| A3 | TO AIROC LEG     |

## 1.22 Drain, 23 series with Spiral Valve



1003-4746 R00

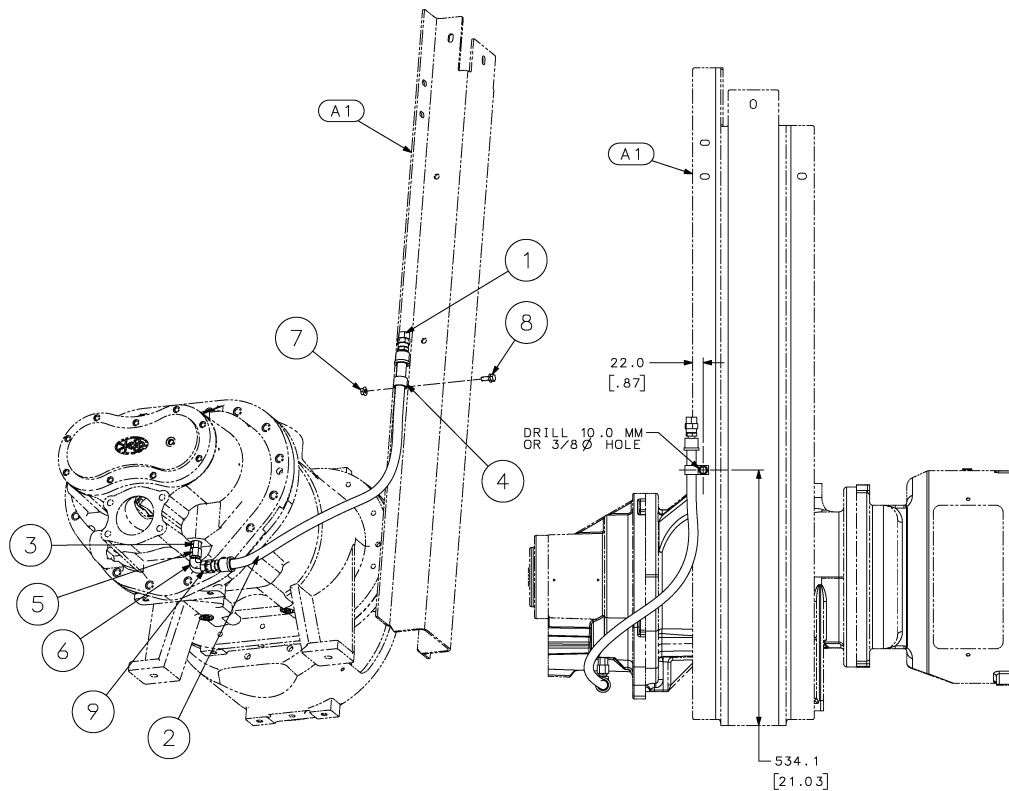
**1.22 Drain, 23 series with Spiral Valve**

| Key | Part number  | Qty | Description                        | Notes |
|-----|--------------|-----|------------------------------------|-------|
| 1   | 02250225-774 | 2   | PLUG,STR THD ORFS 13/16-16 VIT     |       |
| 2   | 02250230-734 | 2   | HOSE,MP 13/32ID X 33OAL            |       |
| 3   | 1003-3528    | 1   | REDUCER,STR THRD 1 1/2 X 1/2 VITON |       |
| 4   | 1003-3529    | 1   | REDUCER,STR THRD 5/16 X 1/4 VITON  |       |
| 5   | 408300-004   | 2   | CLAMP, HOSE O.D. .875              |       |
| 6   | 870004-006   | 1   | REDUCER,STR THRD 1/4 X 3/8 VITON   |       |
| 7   | 878306-056   | 1   | ELBOW, FEMALE STRTHRD 9/16         |       |
| 8   | 878308-075   | 1   | ELBOW, FEMALE STRTHRD 3/4          |       |
| 9   | 882508-125   | 1   | NUT, HEX SERR FLNG M8 X 1.25       |       |
| 10  | 882608-020   | 1   | SCREW, HEX SER WASHER M8 X 20      |       |
| 11  | 884408-056   | 1   | CONNECTOR,STR THD/ORFS 3/4 X 1/2   |       |
| 12  | 884408-075   | 1   | CONNECTOR,STR THD/ORFS 7/16 X 1/2  |       |

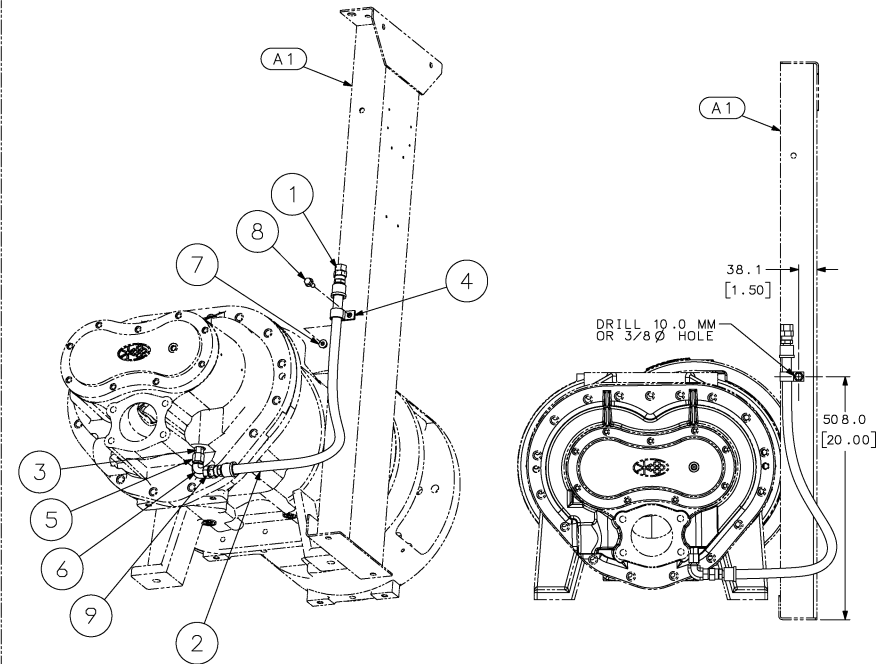
**Drawing notes**

A1 REAR COOLER SUPPORT

## 1.23 Drain, 23 series without Spiral Valve



COMPRESSOR UNIT DRAIN FOR  
LS160 WITH 23 SERIES WITHOUT  
SPIRAL VALVE CONFIGURATION



COMPRESSOR UNIT DRAIN FOR  
LS90-110 WITH 23 SERIES WITHOUT  
SPIRAL VALVE CONFIGURATION

1003-4752 R00

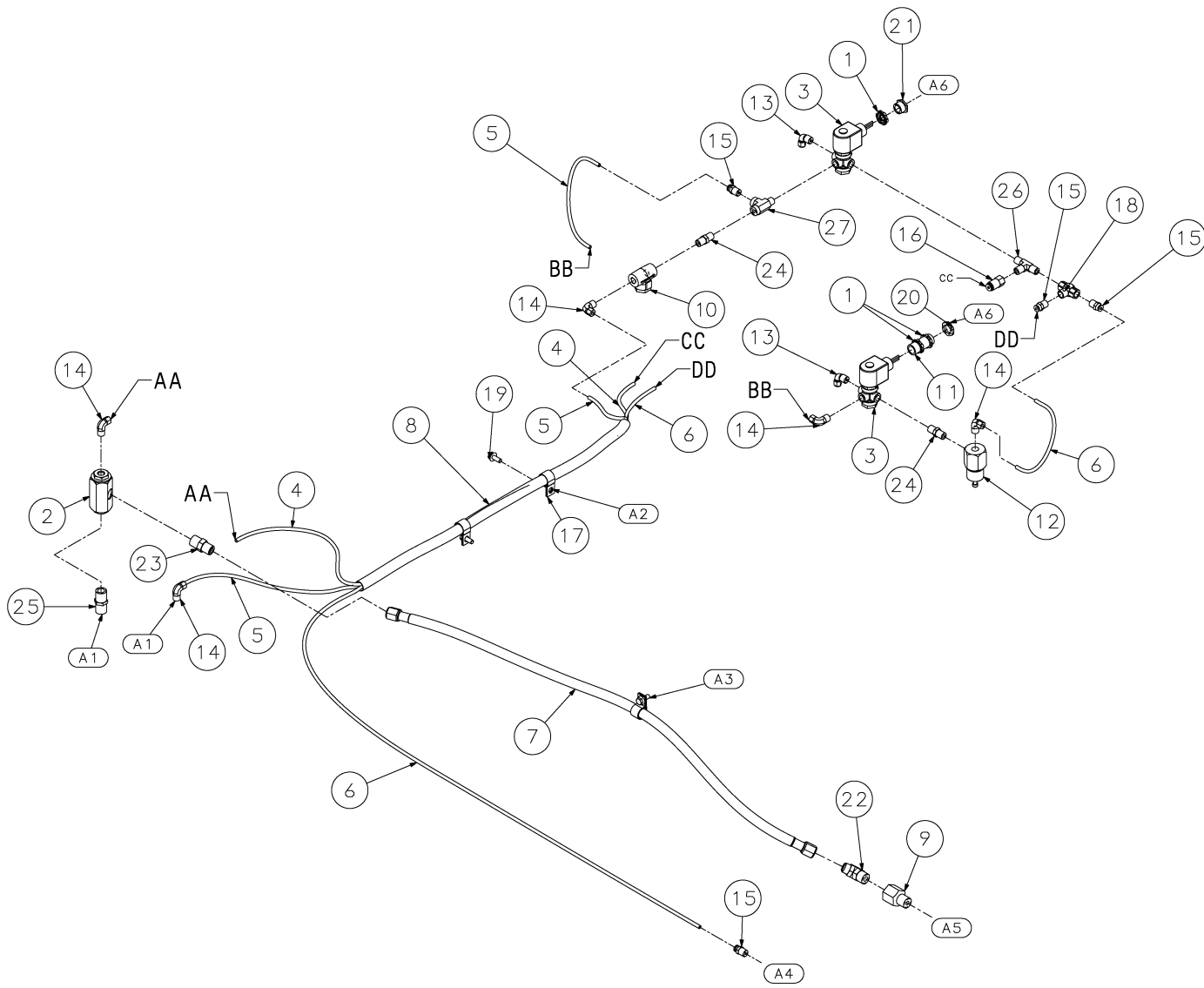
**1.23 Drain, 23 series without Spiral Valve**

| Key | Part number  | Qty | Description                       | Notes |
|-----|--------------|-----|-----------------------------------|-------|
| 1   | 02250225-774 | 1   | PLUG,STR THD ORFS 13/16-16 VIT    |       |
| 2   | 02250230-734 | 1   | HOSE,MP 13/32ID X 33OAL           |       |
| 3   | 1003-3529    | 1   | REDUCER,STR THRD 5/16 X 1/4 VITON |       |
| 4   | 408300-004   | 1   | CLAMP, HOSE O.D. .875             |       |
| 5   | 870004-006   | 1   | REDUCER,STR THRD 1/4 X 3/8 VITON  |       |
| 6   | 878306-056   | 1   | ELBOW, FEMALE STRTHRD 9/16        |       |
| 7   | 882508-125   | 1   | NUT, HEX SERR FLNG M8 X 1.25      |       |
| 8   | 882608-020   | 1   | SCREW, HEX SER WASHER M8 X 20     |       |
| 9   | 884408-056   | 1   | CONNECTOR,STR THD/ORFS 3/4 X 1/2  |       |

**Drawing notes**

A1 REAR COOLER SUPPORT

1.24 Pneumatic control, nylon (Wye-delta)



02250224-729 R02

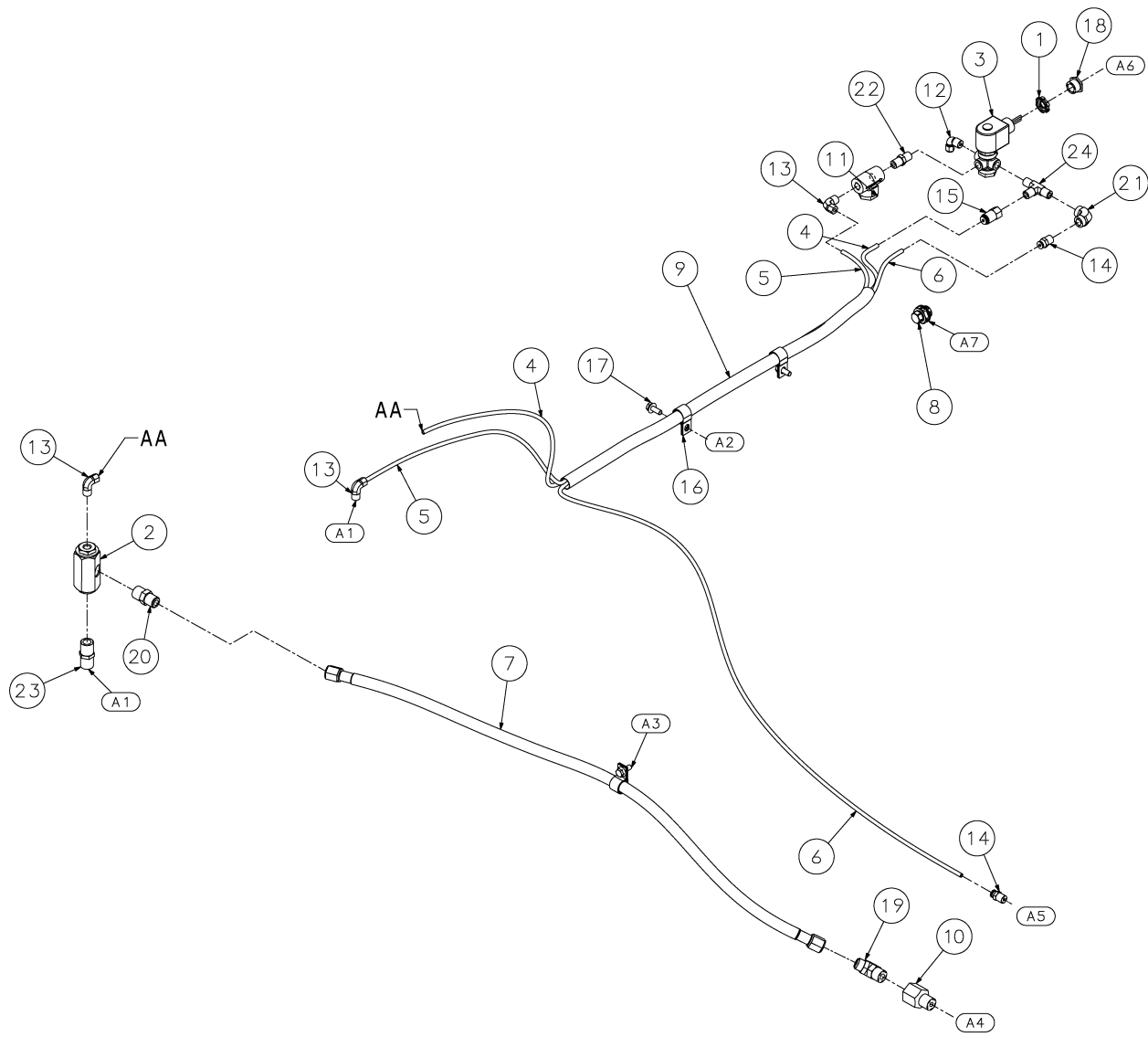
## 1.24 Pneumatic control, nylon (Wye-delta)

| Key | Part number  | Qty | Description                        | Notes |
|-----|--------------|-----|------------------------------------|-------|
| 1   | 02250071-362 | 3   | LOCKNUT,COND SEAL N4 1/2"          |       |
| 2   | 02250100-042 | 1   | VALVE,1/2 BLDWN 1.8:1 250 PSIG     |       |
| 3   | 02250125-657 | 2   | VALVE,SOLENOID 3WN0 1/4 235# N4 +  |       |
| 4   | 02250155-961 | 5   | TUBING,NYLON 1/4"-OD RED           |       |
| 5   | 02250155-962 | 7   | TUBING,NYLON 1/4"-OD BLUE          |       |
| 6   | 02250155-963 | 9   | TUBING,NYLON 1/4"-OD YELLOW        |       |
| 7   | 02250200-791 | 1   | HOSE,MP 13/32"ID X 42 OAL          |       |
| 8   | 02250229-208 | 3   | WRAP,.75ID PRESPLIT BRAIDED        |       |
| 9   | 234125-313   | 1   | ORIFICE, 1/2M X 1/2F X .313        |       |
| 10  | 241771       | 1   | STRAINER, V-TYPE 300PSIX1/4        |       |
| 11  | 250007-170   | 1   | NIPPLE, CONDUIT 1/2 X 2"           |       |
| 12  | 250017-280   | 1   | VALVE, PRESSURE REGULATOR          |       |
| 13  | 250018-430   | 2   | ELBOW, 1/4" TUBE X 1/4" NPT        |       |
| 14  | 250025-850   | 5   | ELBOW, 90DEG M SWVL 1/4 T X 1/4    |       |
| 15  | 250025-859   | 4   | CONNECTOR, MALE 1/4 TUBE X 1/4     |       |
| 16  | 250025-923   | 1   | CONNECTOR, FEM TUBE 1/4 X 1/4 NPTF |       |
| 17  | 408300-003   | 3   | CLAMP, HOSE O.D. .750              |       |
| 18  | 408893       | 1   | VALVE, SHUTTLE 1/4" (DBL CHK)      |       |
| 19  | 829705-075   | 3   | SCREW, HX SER WASH 5/16 X 3/4"     |       |
| 20  | 847200-050   | 1   | LOCKNUT, CONDUIT 1/2"              |       |
| 21  | 847815-050   | 1   | NIPPLE, CHASE COND 1/2"            |       |
| 22  | 860008-050   | 1   | ELBOW, 37FL 45M 1/2 X 1/2"         |       |
| 23  | 860108-050   | 1   | CONNECTOR, 37FL/MPT 1/2 X 1/2"     |       |
| 24  | 868504-025   | 2   | NIPPLE,PIPE HEX 1/4 X 1/4" PLT     |       |
| 25  | 868508-050   | 1   | NIPPLE,PIPE HEX 1/2 X 1/2" PLT     |       |
| 26  | 869825-025   | 1   | TEE,MALE PIPE 1/4" BRASS           |       |
| 27  | 895504-025   | 1   | TEE,MALE/FEMALE/FEMALE 1/4         |       |

## Drawing notes

|    |                   |
|----|-------------------|
| A1 | TO SEPARATOR TANK |
| A2 | TO AIROC LEG      |
| A3 | TO AIROC BOX      |
| A4 | TO INLET VLV      |
| A5 | TO INLET ELBOW    |
| A6 | TO STARTER BOX    |

1.25 Pneumatic control, nylon (VSD, Spiral Valve)



02250225-385 R03

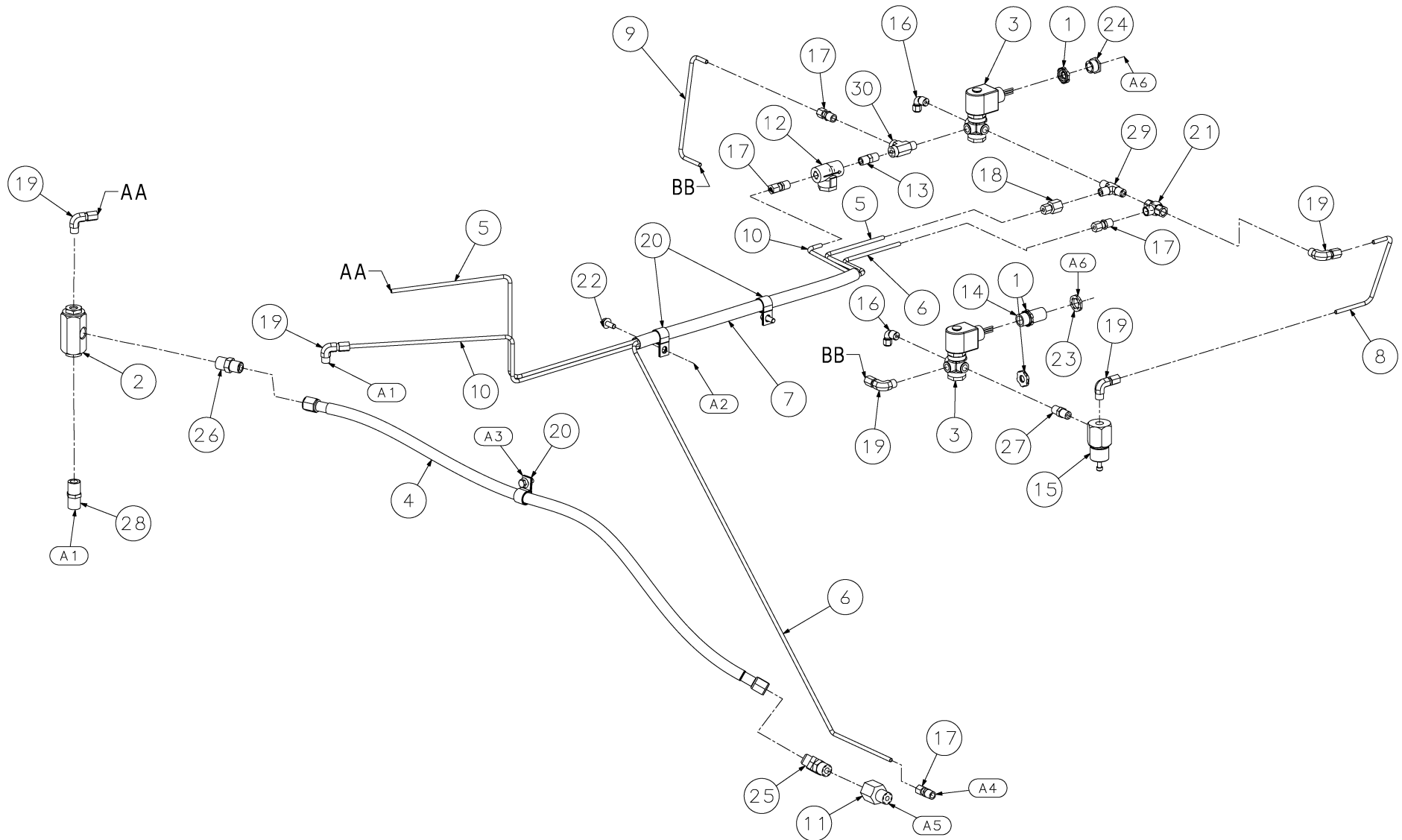
## 1.25 Pneumatic control, nylon (VSD, Spiral Valve)

| Key | Part number  | Qty | Description                        | Notes |
|-----|--------------|-----|------------------------------------|-------|
| 1   | 02250071-362 | 1   | LOCKNUT,COND SEAL N4 1/2"          |       |
| 2   | 02250100-042 | 1   | VALVE,1/2 BLDWN 1.8:1 250 PSIG     |       |
| 3   | 02250125-657 | 1   | VALVE,SOLENOID 3WN0 1/4 235# N4 +  |       |
| 4   | 02250155-961 | 5   | TUBING,NYLON 1/4"-OD RED           |       |
| 5   | 02250155-962 | 5   | TUBING,NYLON 1/4"-OD BLUE          |       |
| 6   | 02250155-963 | 7   | TUBING,NYLON 1/4"-OD YELLOW        |       |
| 7   | 02250200-791 | 1   | HOSE,MP 13/32"ID X 42 OAL          |       |
| 8   | 02250216-341 | 1   | PLUG,CLICK BLK 20MM                |       |
| 9   | 02250229-208 | 3   | WRAP,.75ID PRESPLIT BRAIDED        |       |
| 10  | 234125-313   | 1   | ORIFICE,1/2M X 1/2F X .313         |       |
| 11  | 241771       | 1   | STRAINER, V-TYPE 300PSIX1/4        |       |
| 12  | 250018-430   | 1   | ELBOW, 1/4" TUBE X 1/4" NPT        |       |
| 13  | 250025-850   | 3   | ELBOW, 90DEG M SWVL 1/4 T X 1/4    |       |
| 14  | 250025-859   | 2   | CONNECTOR, MALE 1/4 TUBE X 1/4     |       |
| 15  | 250025-923   | 1   | CONNECTOR, FEM TUBE 1/4 X 1/4 NPTF |       |
| 16  | 408300-003   | 3   | CLAMP, HOSE O.D. .750              |       |
| 17  | 829705-075   | 3   | SCREW, HX SER WASH 5/16 X 3/4"     |       |
| 18  | 847815-050   | 1   | NIPPLE, CHASE COND 1/2"            |       |
| 19  | 860008-050   | 1   | ELBOW, 37FL 45M 1/2 X 1/2"         |       |
| 20  | 860108-050   | 1   | CONNECTOR, 37FL/MPT 1/2 X 1/2"     |       |
| 21  | 860604-025   | 1   | ELBOW, PIPE 90F 1/4 X 1/4"         |       |
| 22  | 868504-025   | 1   | NIPPLE,PIPE HEX 1/4 X 1/4" PLT     |       |
| 23  | 868508-050   | 1   | NIPPLE,PIPE HEX 1/2 X 1/2" PLT     |       |
| 24  | 869825-025   | 1   | TEE,MALE PIPE 1/4" BRASS           |       |

## Drawing notes

|    |                           |
|----|---------------------------|
| A1 | TO SEPARATOR TANK         |
| A2 | TO AIROC LEG              |
| A3 | TO AIROC BOX              |
| A4 | TO INLET VLV              |
| A5 | TO INLET ELBOW            |
| A6 | TO STARTER BOX            |
| A7 | TO OPENING ON STARTER BOX |

## 1.26 Pnuematic control, stainless steel (Wye-delta)



02250222-471 R03

**1.26 Pneumatic control, stainless steel (Wye-delta)**

| Key | Part number  | Qty | Description                             | Notes |
|-----|--------------|-----|-----------------------------------------|-------|
| 1   | 02250071-362 | 3   | LOCKNUT,COND SEAL N4 1/2"               |       |
| 2   | 02250100-042 | 1   | VALVE,1/2 BLDWN 1.8:1 250 PSIG          |       |
| 3   | 02250125-657 | 2   | VALVE,SOLENOID 3WN0 1/4 235# N4 +       |       |
| 4   | 02250200-791 | 1   | HOSE,MP 13/32"ID X 42 OAL               |       |
| 5   | 02250229-124 | 1   | TUBE,STAINLESS STEEL 1/4" OD BD PILOT   |       |
| 6   | 02250229-125 | 1   | TUBE,STAINLESS STEEL 1/4" OD CTRL 2     |       |
| 7   | 02250229-208 | 2   | WRAP,.75ID PRESPLIT BRAIDED             |       |
| 8   | 02250229-315 | 1   | TUBE,STAINLESS STEEL 1/4" OD CTRL 1     |       |
| 9   | 02250229-316 | 1   | TUBE,STAINLESS STEEL 1/4" OD SEQ SUPPLY |       |
| 10  | 02250229-376 | 1   | TUBE,STAINLESS STEEL 1/4" OD SUPPLY VCC |       |
| 11  | 234125-313   | 1   | ORIFICE, 1/2M X 1/2F X .313             |       |
| 12  | 241771       | 1   | STRAINER, V-TYPE 300PSIX1/4             |       |
| 13  | 249537       | 1   | NIPPLE, BRASS HEX 1/4"-NPT              |       |
| 14  | 250007-170   | 1   | NIPPLE, CONDUIT 1/2 X 2"                |       |
| 15  | 250017-280   | 1   | VALVE, PRESSURE REGULATOR               |       |
| 16  | 250018-430   | 2   | ELBOW, 1/4" TUBE X 1/4" NPT             |       |
| 17  | 250139-016   | 4   | CONNECTOR,TUBE-M 1/4" SWGLK 316SS       |       |
| 18  | 250139-044   | 1   | CONNECTOR, TUBE-F 1/4" SWGLK SS         |       |
| 19  | 250211-005   | 5   | ELBOW,TUBE-M 1/4" SWGLK 316SS           |       |
| 20  | 408300-003   | 3   | CLAMP, HOSE O.D. .750                   |       |
| 21  | 408893       | 1   | VALVE, SHUTTLE 1/4" (DBL CHK)           |       |
| 22  | 829705-075   | 3   | SCREW, HX SER WASH 5/16 X 3/4"          |       |
| 23  | 847200-050   | 1   | LOCKNUT, CONDUIT 1/2"                   |       |
| 24  | 847815-050   | 1   | NIPPLE, CHASE COND 1/2"                 |       |
| 25  | 860008-050   | 1   | ELBOW, 37FL 45M 1/2 X 1/2"              |       |
| 26  | 860108-050   | 1   | CONNECTOR, 37FL/MPT 1/2 X 1/2"          |       |
| 27  | 868504-025   | 1   | NIPPLE,PIPE HEX 1/4 X 1/4" PLT          |       |
| 28  | 868508-050   | 1   | NIPPLE,PIPE HEX 1/2 X 1/2" PLT          |       |
| 29  | 869825-025   | 1   | TEE,MALE PIPE 1/4" BRASS                |       |
| 30  | 895504-025   | 1   | TEE,MALE/FEMALE/FEMALE 1/4              |       |

**Drawing notes**

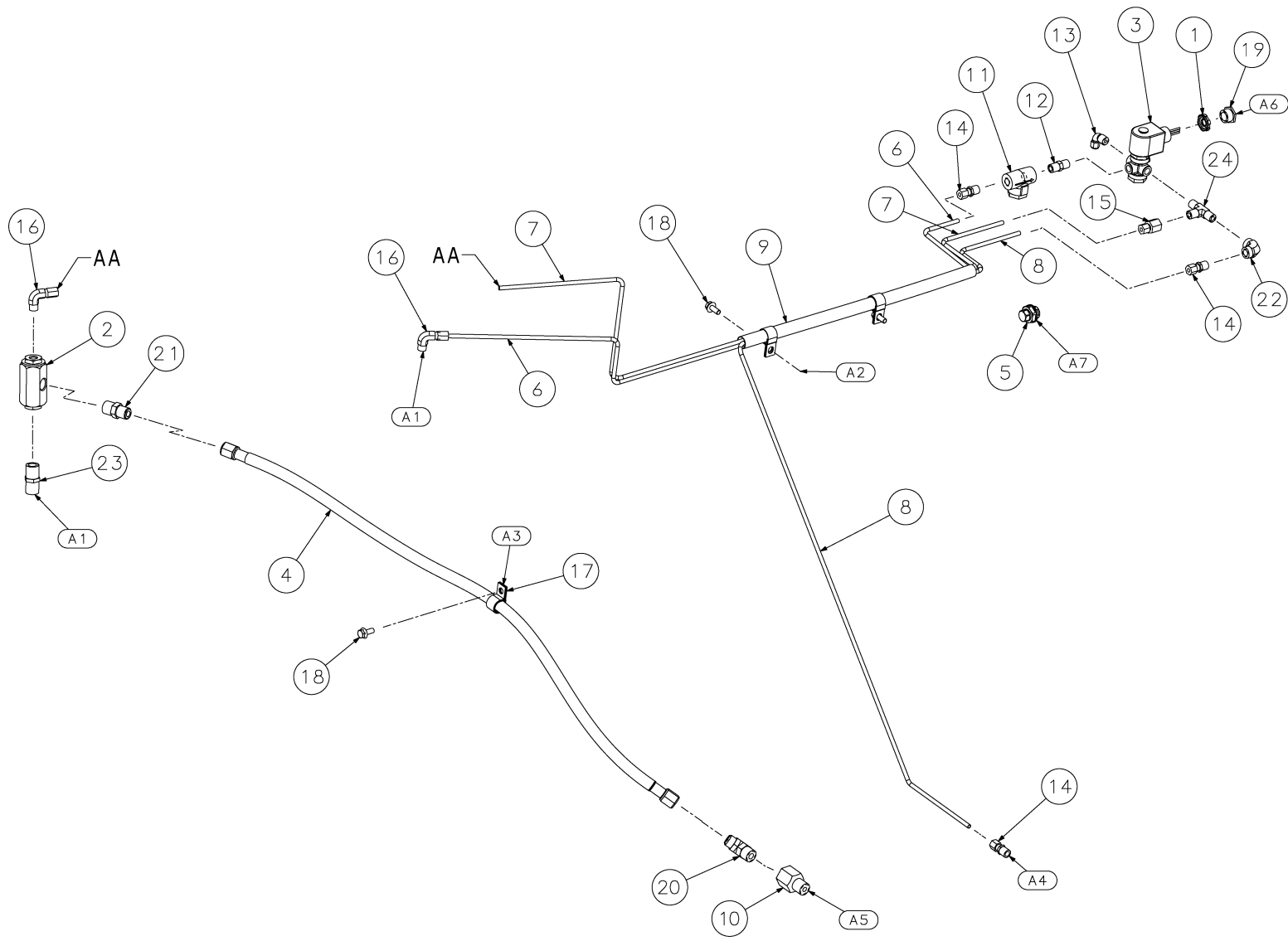
|    |                   |
|----|-------------------|
| A1 | TO SEPARATOR TANK |
| A2 | TO AIROC LEG      |
| A3 | TO AIROC BOX      |
| A4 | TO INLET VLV      |

1.26 Pnuematic control, stainless steel (Wye-delta)

| Key | Part number    | Qty | Description | Notes |
|-----|----------------|-----|-------------|-------|
| A5  | TO ELBOW       |     |             |       |
| A6  | TO STARTER BOX |     |             |       |

Notes:

1.27 Pneumatic control, stainless steel (VSD, Spiral Valve)



02250225-386 R02



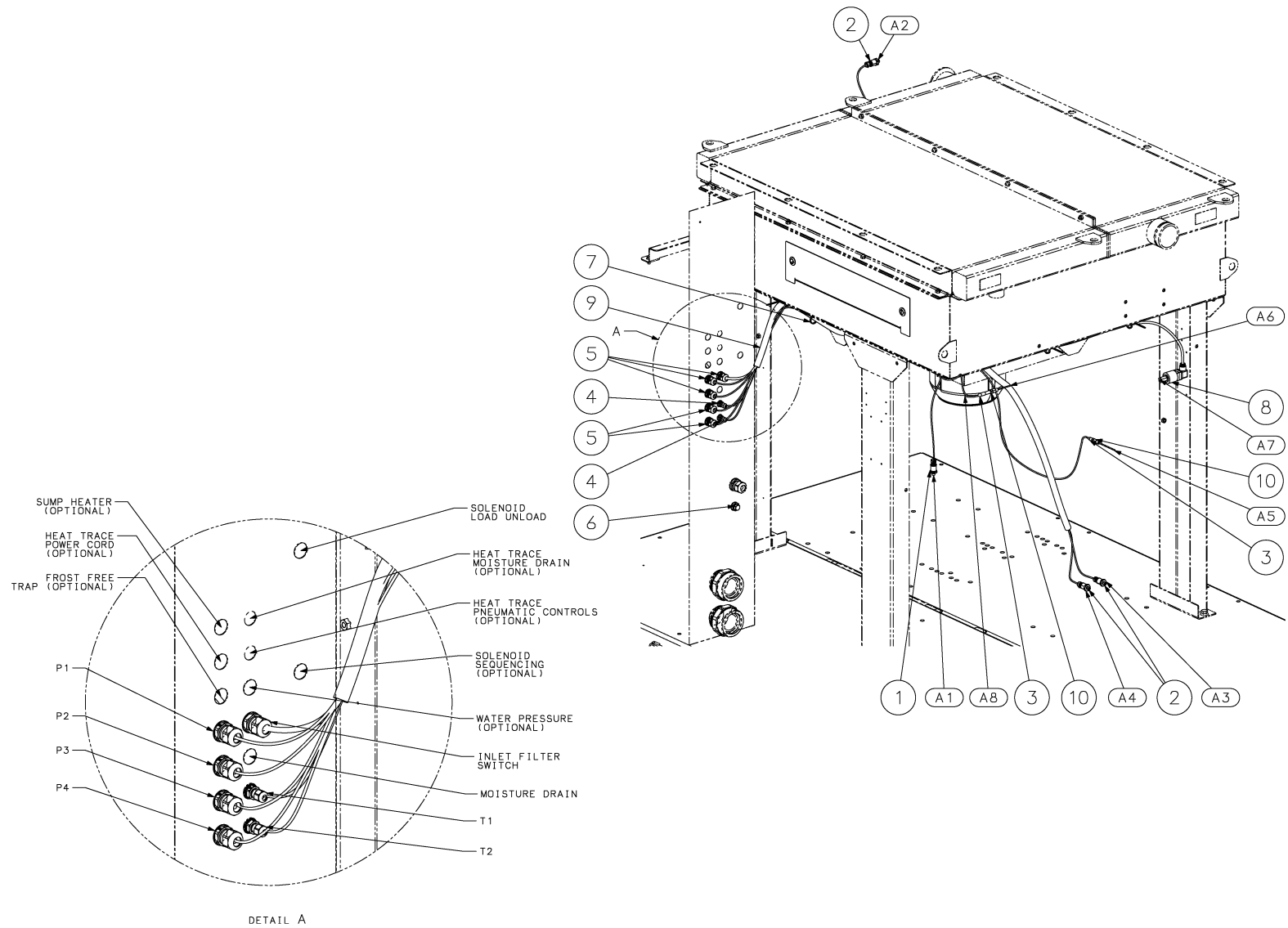
**1.27 Pneumatic control, stainless steel (VSD, Spiral Valve)**

| Key | Part number  | Qty | Description                             | Notes |
|-----|--------------|-----|-----------------------------------------|-------|
| 1   | 02250071-362 | 1   | LOCKNUT,COND SEAL N4 1/2"               |       |
| 2   | 02250100-042 | 1   | VALVE,1/2 BLDWN 1.8:1 250 PSIG          |       |
| 3   | 02250125-657 | 1   | VALVE,SOLENOID 3WN0 1/4 235# N4 +       |       |
| 4   | 02250200-791 | 1   | HOSE,MP 13/32"ID X 42 OAL               |       |
| 5   | 02250216-341 | 1   | PLUG,CLICK BLK 20MM                     |       |
| 6   | 02250229-121 | 1   | TUBE,STAINLESS STEEL 1/4" OD SUPPLY VCC |       |
| 7   | 02250229-124 | 1   | TUBE,STAINLESS STEEL 1/4" OD BD PILOT   |       |
| 8   | 02250229-125 | 1   | TUBE,STAINLESS STEEL 1/4" OD CTRL 2     |       |
| 9   | 02250229-208 | 2   | WRAP,.75ID PRESPLIT BRAIDED             |       |
| 10  | 234125-313   | 1   | ORIFICE,1/2M X 1/2F X .313              |       |
| 11  | 241771       | 1   | STRAINER,V - TYPE 250# X 1/4"           |       |
| 12  | 249537       | 1   | NIPPLE, BRASS HEX-1/4"                  |       |
| 13  | 250018-430   | 1   | ELBOW, 1/4" TUBE X 1/4" NPT             |       |
| 14  | 250139-016   | 3   | CONNECTOR,TUBE-M 1/4" SWGLK 316SS       |       |
| 15  | 250139-044   | 1   | CONNECTOR, TUBE-F 1/4" SWGLK SS         |       |
| 16  | 250211-005   | 2   | ELBOW,TUBE-M 1/4" SWGLK 316SS           |       |
| 17  | 408300-003   | 3   | CLAMP, HOSE O.D. .750                   |       |
| 18  | 829705-075   | 3   | SCREW, HX SER WASH 5/16 X 3/4"          |       |
| 19  | 847815-050   | 1   | NIPPLE, CHASE COND 1/2"                 |       |
| 20  | 860008-050   | 1   | ELBOW, 37FL 45M 1/2 X 1/2"              |       |
| 21  | 860108-050   | 1   | CONNECTOR, 37FL/MPT 1/2 X 1/2"          |       |
| 22  | 860604-025   | 1   | ELBOW, PIPE 90F 1/4 X 1/4"              |       |
| 23  | 868508-050   | 1   | NIPPLE,PIPE HEX 1/2 X 1/2" PLT          |       |
| 24  | 869825-025   | 1   | TEE,MALE PIPE 1/4" BRASS                |       |

**Drawing notes**

|    |                           |
|----|---------------------------|
| A1 | TO SEPARATOR TANK         |
| A2 | TO AIROC LEG              |
| A3 | TO AIROC BOX              |
| A4 | TO INLET VLV              |
| A5 | TO ELBOW                  |
| A6 | TO STARTER BOX            |
| A7 | TO OPENING ON STARTER BOX |

1.28 Electrical control assembly (Wye-delta, VSD)



02250221-929 R07



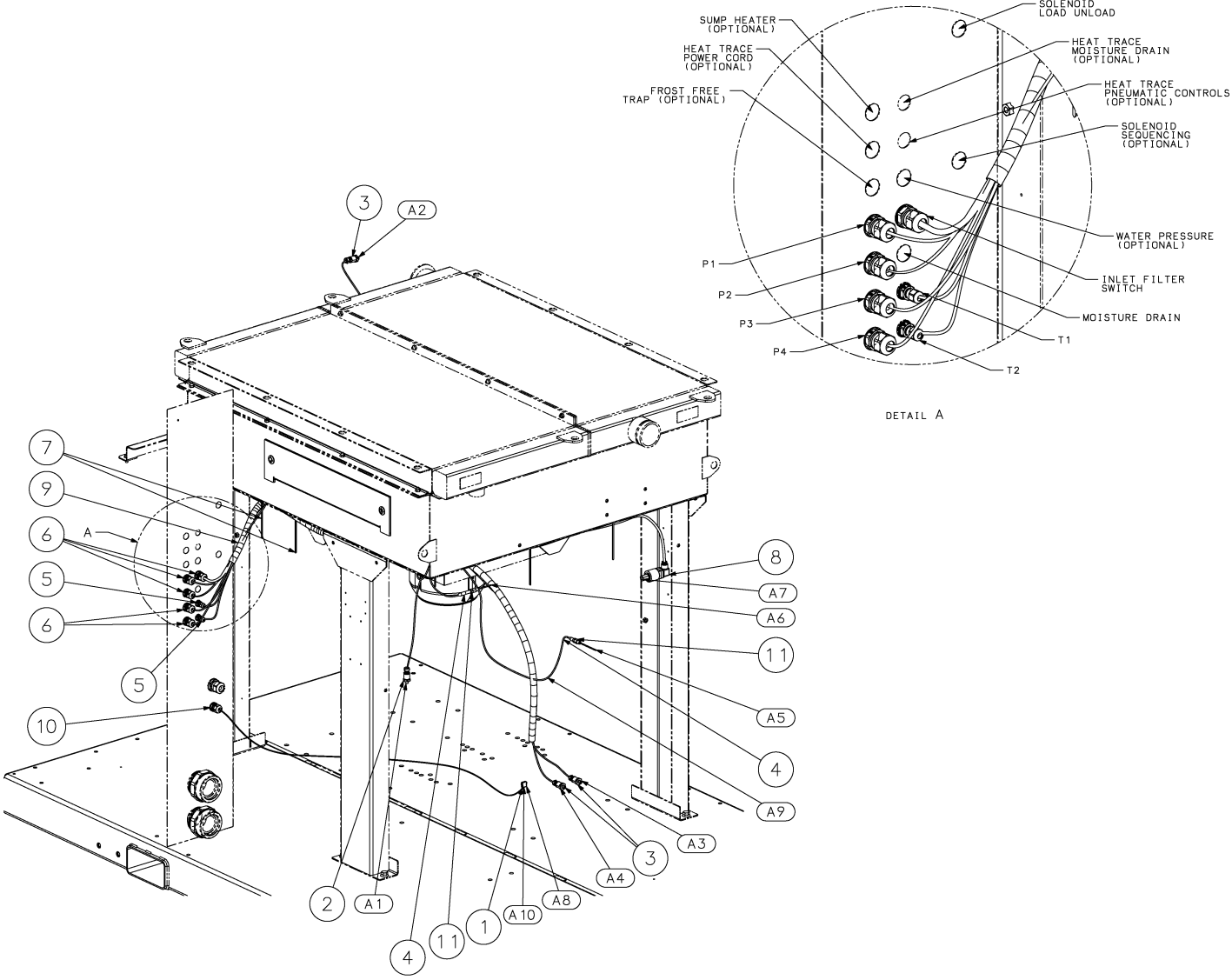
**1.28 Electrical control assembly (Wye-delta, VSD)**

| Key | Part number  | Qty | Description                          | Notes |
|-----|--------------|-----|--------------------------------------|-------|
| 1   | 02250155-174 | 1   | TRANSDUCER,PRESS 0-250# RATIO METRIC |       |
| 2   | 02250172-873 | 3   | KIT,XDCR PRESS0-250# 12FT CORD       |       |
| 3   | 02250175-087 | 2   | PROBE,THERMISTER 3000 OHM NTC 12'L   |       |
| 4   | 02250215-692 | 2   | GRIP,CORD CABLE GLAND M 12           |       |
| 5   | 02250215-693 | 5   | GRIP,CORD CABLE GLAND M 20           |       |
| 6   | 02250216-341 | 1   | PLUG,CLICK BLK 20MM                  |       |
| 7   | 02250221-086 | 9   | WRAP,PUSH LOK TIE                    |       |
| 8   | 02250224-853 | 1   | SWITCH,VAC 22" N4                    |       |
| 9   | 02250229-208 | 6   | WRAP,.75ID PRESPLIT BRAIDED          | FEET  |
| 10  | 250028-635   | 2   | FITTING, COMPRESS ADJ                |       |

**Drawing notes**

|    |                                          |
|----|------------------------------------------|
| A1 | P1 TO SUMP TANK                          |
| A2 | P2 TO MOISTURE SEP                       |
| A3 | P3 TO FLUID FILTER OUT                   |
| A4 | P4 TO FLUID FILTER IN                    |
| A5 | T1 TO DISCHARGE PIPE                     |
| A6 | T2 TO MINIMUM PRESSURE CHECK VALVE       |
| A7 | INLET FILTER SWITCH TO AIR FILTER        |
| A8 | LOOP 12 INCHES OF EXTRA WIRE AND ZIP TIE |

1.29 Electrical control assembly (Spiral Valve)



02250226-713 R07



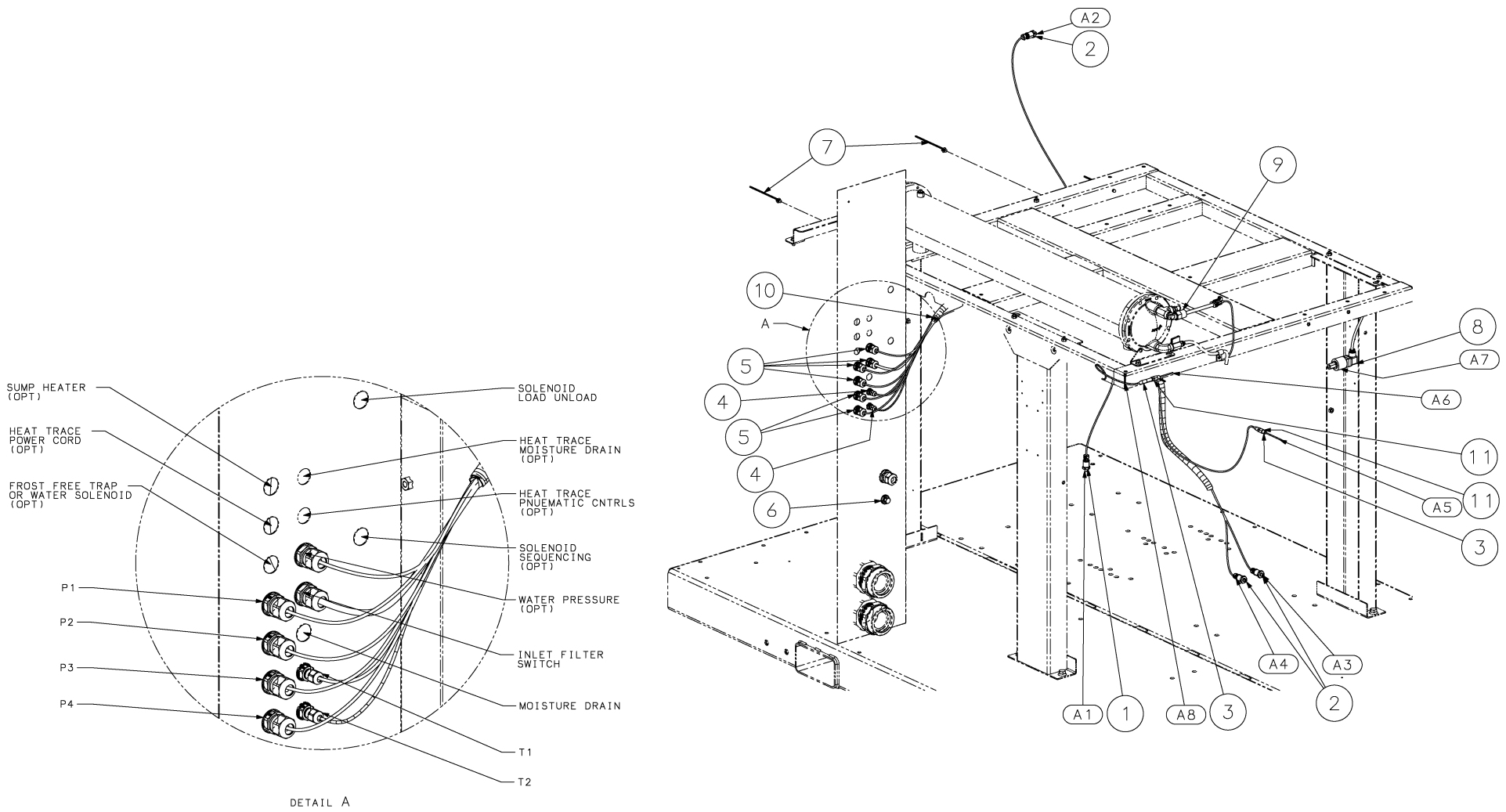
**1.29 Electrical control assembly (Spiral Valve)**

| Key | Part number  | Qty | Description                          | Notes |
|-----|--------------|-----|--------------------------------------|-------|
| 1   | 02250120-820 | 1   | TUBING,HT SHRNK .375-.75" BLK FT     |       |
| 2   | 02250155-174 | 1   | TRANSDUCER,PRESS 0-250# RATIO METRIC |       |
| 3   | 02250172-873 | 3   | KIT,XDCR PRESS0-250# 12FT CORD       |       |
| 4   | 02250175-087 | 2   | PROBE,THERMISTER 3000 OHM NTC 12'L   |       |
| 5   | 02250215-692 | 2   | GRIP,CORD CABLE GLAND M 12           |       |
| 6   | 02250215-693 | 5   | GRIP,CORD CABLE GLAND M 20           |       |
| 7   | 02250221-086 | 9   | WRAP,PUSH LOK TIE                    |       |
| 8   | 02250224-853 | 1   | SWITCH,VAC 22" N4                    |       |
| 9   | 02250229-208 | 6   | WRAP,.75ID PRESPLIT BRAIDED          | FEET  |
| 10  | 02250229-273 | 1   | HARNESS,STEP MTR ARD 9 COND          |       |
| 11  | 250028-635   | 2   | FITTING, COMPRESS ADJ                |       |

**Drawing notes**

|     |                                          |
|-----|------------------------------------------|
| A1  | P1 TO SUMP TANK                          |
| A2  | P2 TO MOISTURE SEPARATOR                 |
| A3  | P3 TO FLUID FILTER OUT                   |
| A4  | P4 TO FLUID FILTER IN                    |
| A5  | T1 TO DISCHARGE PIPE                     |
| A6  | T2 TO MINIMUM PRESSURE CHECK VALVE       |
| A7  | INLET FILTER SWITCH TO AIR FILTER        |
| A8  | POWER TO SPIRAL VALVE STEPPER MOTOR      |
| A9  | LOOP 12 INCHES OF EXTRA WIRE AND ZIP TIE |
| A10 | HEAT SHRINK SHALL COVER THE CONNECTOR    |

1.30 Electrical control assembly, water-cooled (Wye-delta, VSD)



02250225-729 R03



02250231-031 R07  
Subject to EAR, ECCN EAR99 and related export control restrictions.

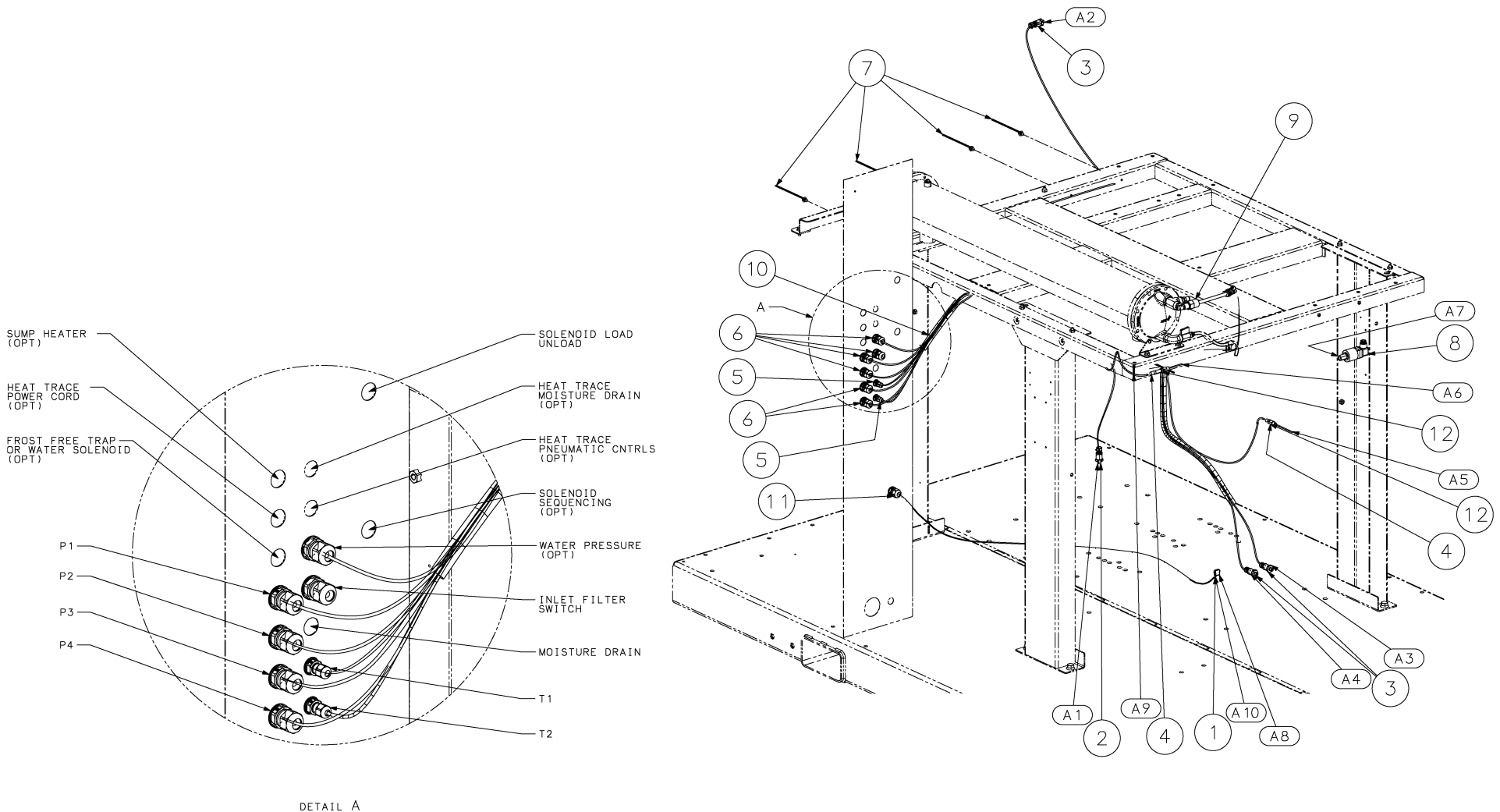
**1.30 Electrical control assembly, water-cooled (Wye-delta, VSD)**

| Key | Part number  | Qty | Description                          | Notes |
|-----|--------------|-----|--------------------------------------|-------|
| 1   | 02250155-174 | 1   | TRANSDUCER,PRESS 0-250# RATIO METRIC |       |
| 2   | 02250172-873 | 3   | KIT,XDCR PRESS0-250# 12FT CORD       |       |
| 3   | 02250175-087 | 2   | PROBE,THERMISTER 3000 OHM NTC 12'L   |       |
| 4   | 02250215-692 | 2   | GRIP,CORD CABLE GLAND M 12           |       |
| 5   | 02250215-693 | 6   | GRIP,CORD CABLE GLAND M 20           |       |
| 6   | 02250216-341 | 1   | PLUG,CLICK BLK 20MM                  |       |
| 7   | 02250221-086 | 11  | WRAP,PUSH LOK TIE                    |       |
| 8   | 02250224-853 | 1   | SWITCH,VAC 22" N4                    |       |
| 9   | 02250227-008 | 1   | SWITCH,PRESS NO 10 PSI               |       |
| 10  | 02250229-208 | 1   | WRAP,.75ID PRESPLIT BRAIDED          |       |
| 11  | 250028-635   | 2   | FITTING, COMPRESS ADJ                |       |

**Drawing notes**

|    |                                          |
|----|------------------------------------------|
| A1 | P1 TO SUMP TANK                          |
| A2 | P2 TO MOISTURE SEP                       |
| A3 | P3 TO FLUID FILTER OUT                   |
| A4 | P4 TO FLUID FILTER IN                    |
| A5 | T1 TO DISCHARGE PIPE                     |
| A6 | T2 TO MIN. PRESSURE CHECK VALVE          |
| A7 | INLET FILTER SWITCH TO AIR FILTER        |
| A8 | LOOP 12 INCHES OF EXTRA WIRE AND ZIP TIE |

1.31 Electrical control assembly, water-cooled (Spiral Valve)



02250227-011 R06



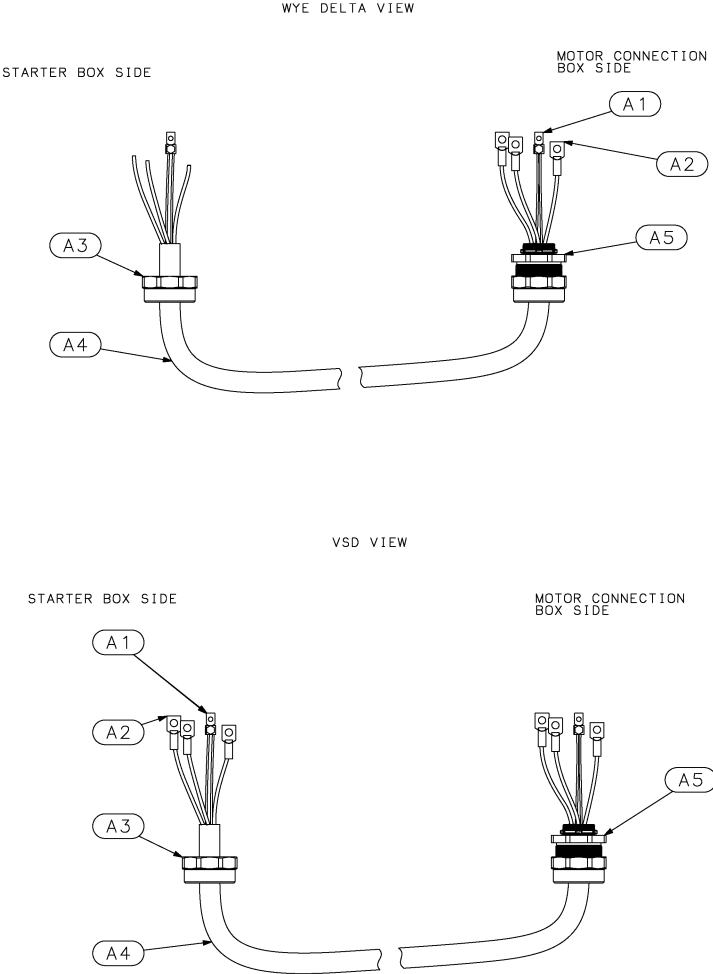
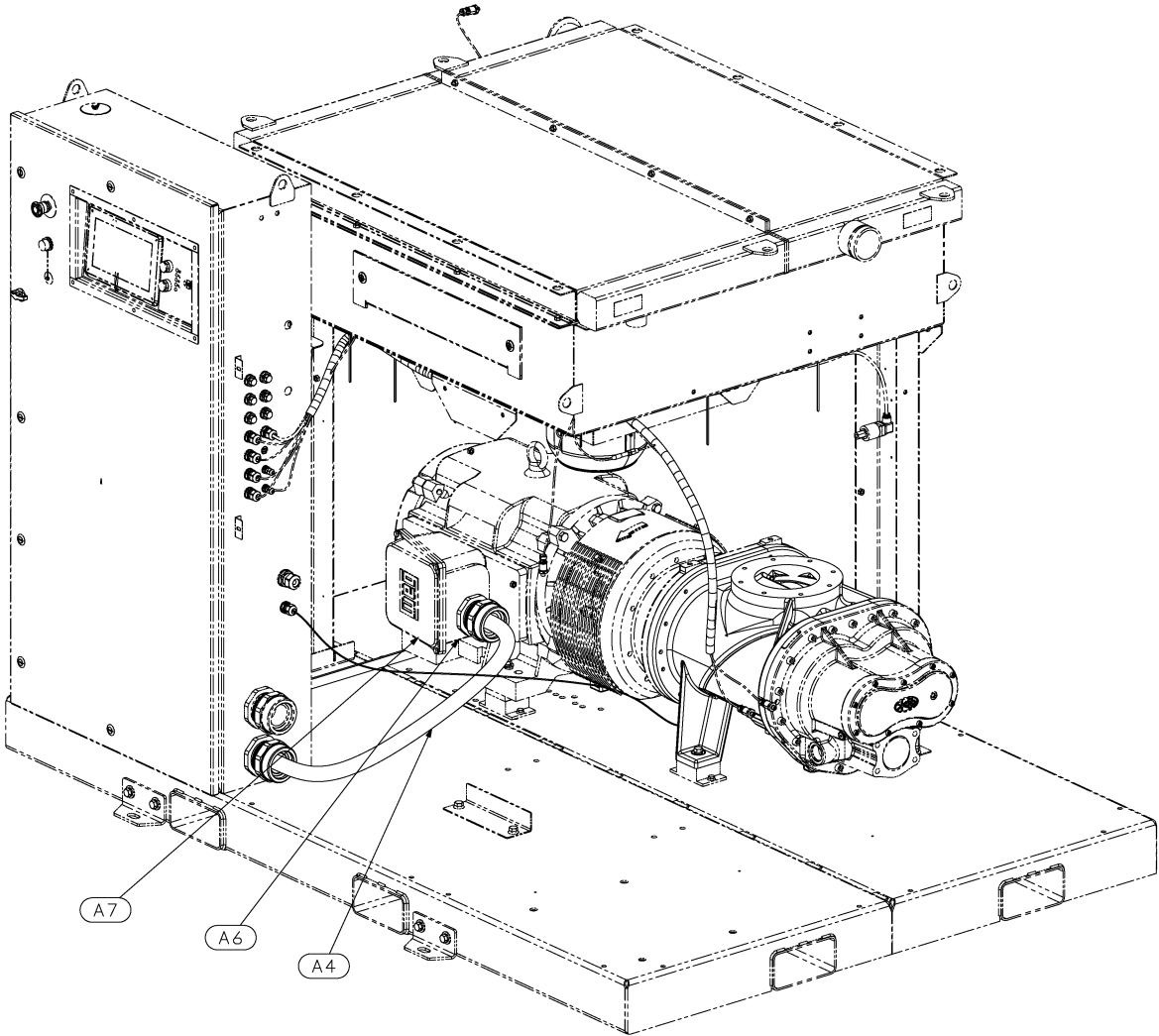
**1.31 Electrical control assembly, water-cooled (Spiral Valve)**

| Key | Part number  | Qty | Description                          | Notes |
|-----|--------------|-----|--------------------------------------|-------|
| 1   | 02250120-820 | 1   | TUBING,HT SHRNK .375-.75" BLK FT     |       |
| 2   | 02250155-174 | 1   | TRANSDUCER,PRESS 0-250# RATIO METRIC |       |
| 3   | 02250172-873 | 3   | KIT,XDCR PRESS0-250# 12FT CORD       |       |
| 4   | 02250175-087 | 2   | PROBE,THERMISTER 3000 OHM NTC 12'L   |       |
| 5   | 02250215-692 | 2   | GRIP,CORD CABLE GLAND M 12           |       |
| 6   | 02250215-693 | 6   | GRIP,CORD CABLE GLAND M 20           |       |
| 7   | 02250221-086 | 11  | WRAP,PUSH LOK TIE                    |       |
| 8   | 02250224-853 | 1   | SWITCH,VAC 22" N4                    |       |
| 9   | 02250227-008 | 1   | SWITCH,PRESS NO 10 PSI               |       |
| 10  | 02250229-208 | 1   | WRAP,.75ID PRESLIT BRAIDED           |       |
| 11  | 02250229-273 | 1   | HARNESS,STEP MTR ARD 9 COND          |       |
| 12  | 250028-635   | 2   | FITTING, COMPRESS ADJ                |       |

**Drawing notes**

|     |                                          |
|-----|------------------------------------------|
| A1  | P1 TO SUMP TANK                          |
| A2  | P2 TO MOISTURE SEPARATOR                 |
| A3  | P3 TO FLUID FILTER OUT                   |
| A4  | P4 TO FLUID FILTER IN                    |
| A5  | T1 TO DISCHARGE PIPE                     |
| A6  | T2 TO MINIMUM PRESSURE CHECK VALVE       |
| A7  | INLET FILTER SWITCH TO AIR FILTER        |
| A8  | POWER TO SPIRAL VALVE STEPPER MOTOR      |
| A9  | LOOP 12 INCHES OF EXTRA WIRE AND ZIP TIE |
| A10 | HEAT SHRINK SHALL COVER THE CONNECTOR    |

1.32 Motor wiring

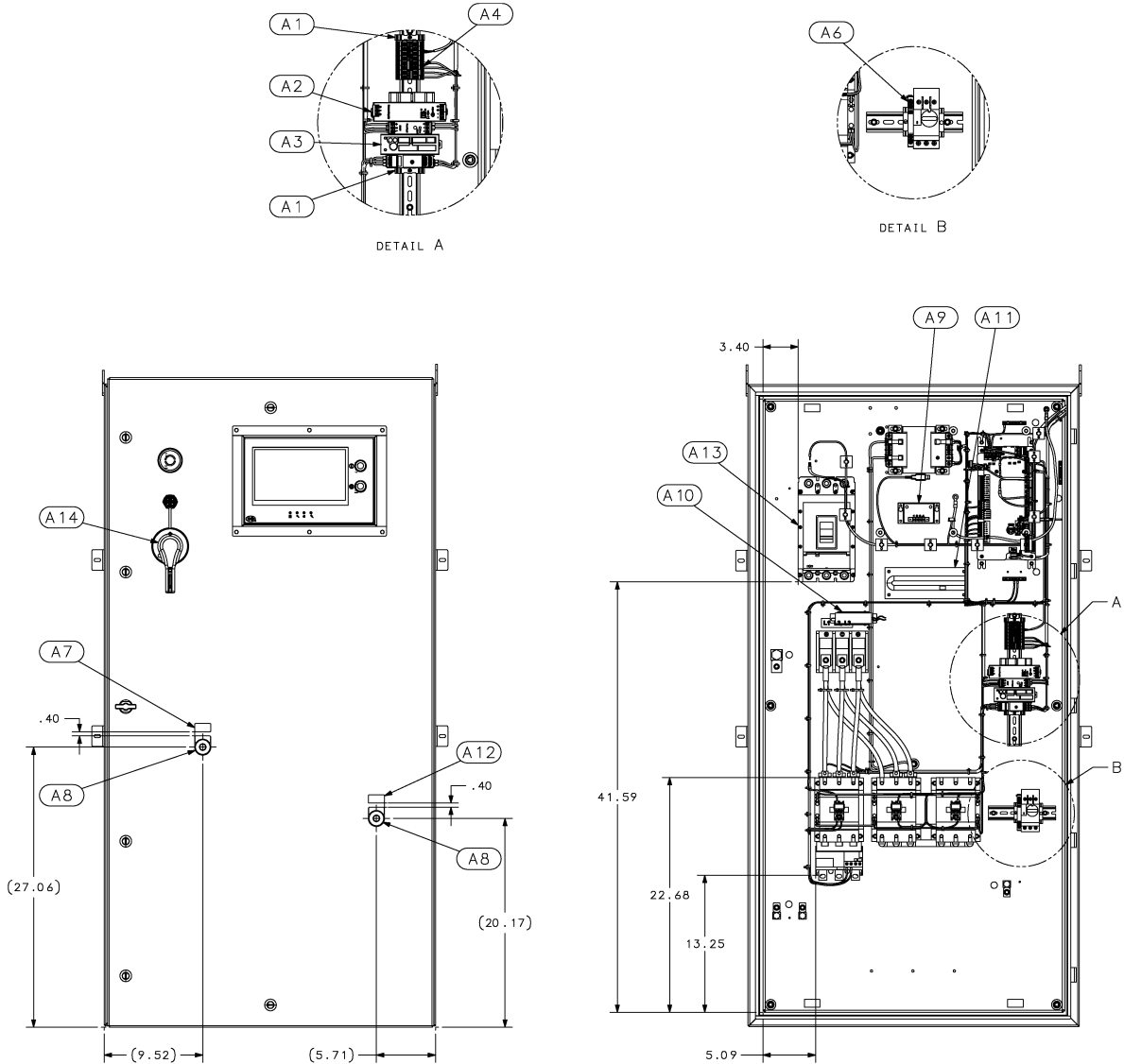


02250228-382 R02

1.32 Motor wiring

| Drawing notes |                                                                                                                                                                                |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A1            | GROUND LUG - GREEN WIRE                                                                                                                                                        |
| A2            | LUG - WHITE, RED, BLACK WIRE                                                                                                                                                   |
| A3            | CORD GRIP                                                                                                                                                                      |
| A4            | MOTOR CABLE                                                                                                                                                                    |
| A5            | BUSHING                                                                                                                                                                        |
| A6            | WYE DELTA: TWO BUSHINGS TO MOTOR CONNECTION BOX; VSD: ONE BUSHING AND ONE PLUG TO MOTOR CONNECTION BOX                                                                         |
| A7            | ROTATE MOTOR CONNECTION BOX 90 DEGREES COUNTER CLOCKWISE                                                                                                                       |
|               | THIS DOCUMENT IS TO BE USED AS A REFERENCE FOR THE LOCATION OF THE MOTOR WIRING OPTIONS. IF FOR SOME REASON THE MODULE CANNOT BE MOUNTED AS SHOWN, PLEASE CONSULT ENGINEERING. |

1.33 Wye-delta options



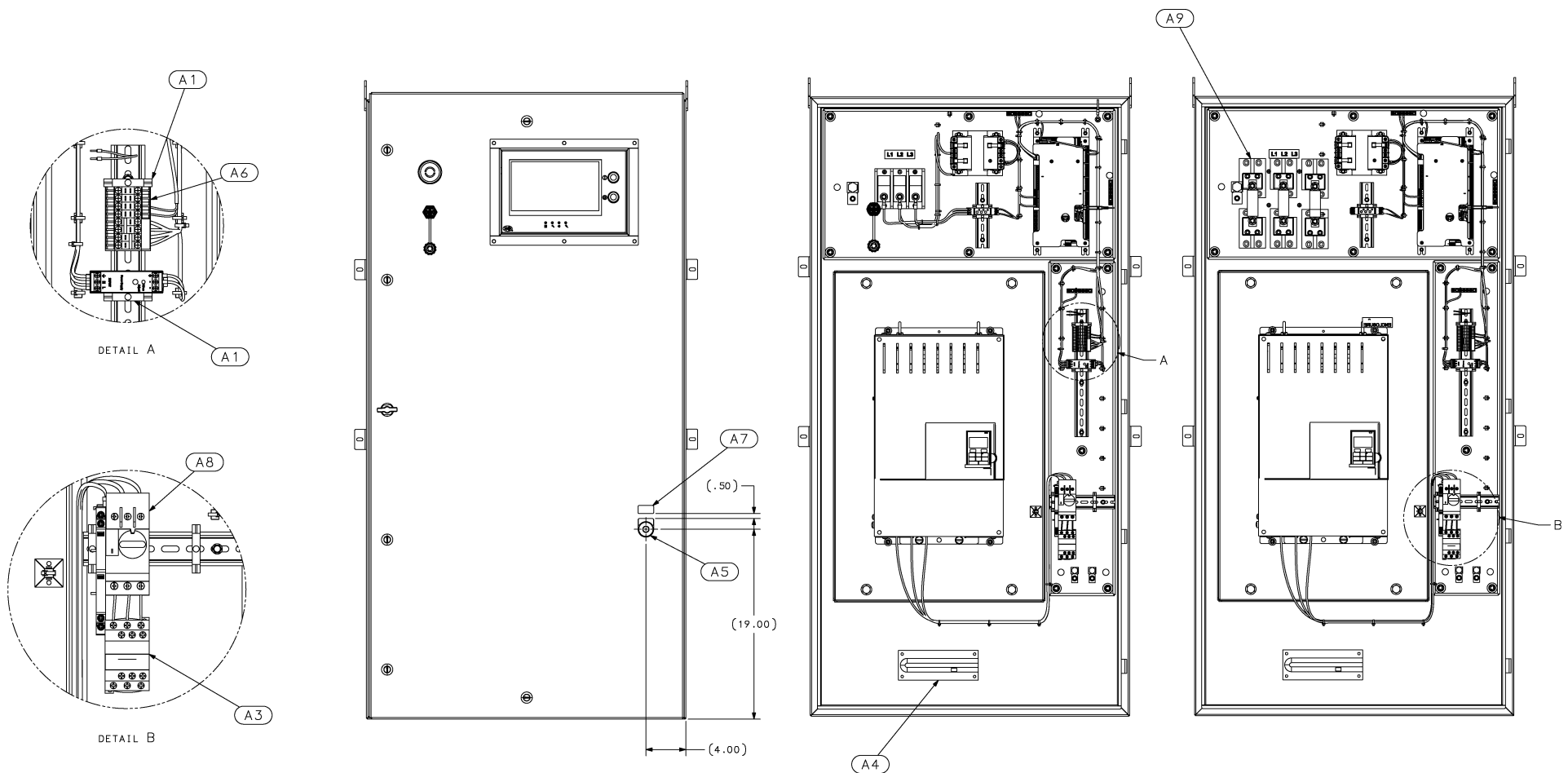
1004-5384 R01

### 1.33 Wye-delta options

**Drawing notes**

|     |                                                                                                          |
|-----|----------------------------------------------------------------------------------------------------------|
| 1   | TERMINAL END PLATE SHALL BE MOVED TO THE BOTTOM OF LAST COMPONENT ON THE DIN RAIL FOR ANY OTHER OPTIONS. |
| A1  | DIN RAIL END CLIP                                                                                        |
| A2  | POWER SUPPLY (SPIRAL VALVE)                                                                              |
| A3  | DRIVE (SPIRAL VALVE)                                                                                     |
| A4  | TERMINAL BLOCK                                                                                           |
| A5  | NOTE REMOVED                                                                                             |
| A6  | FAN OVERLOAD (MPP)                                                                                       |
| A7  | MAIN DECAL FOR MANUAL RESET BUTTON                                                                       |
| A8  | MANUAL RESET BUTTON                                                                                      |
| A9  | TRANSDUCER (POWER MONITORING)                                                                            |
| A10 | CURRENT TRANSFORMER (POWER MONITORING)                                                                   |
| A11 | CONTROL BOX HEATER (COLD WEATHER STANDARD)                                                               |
| A12 | FAN DECAL FOR MANUAL RESET BUTTON                                                                        |
| A13 | CIRCUIT BREAKER                                                                                          |
| A14 | CIRCUIT BREAKER HANDLE                                                                                   |

1.34 VSD options

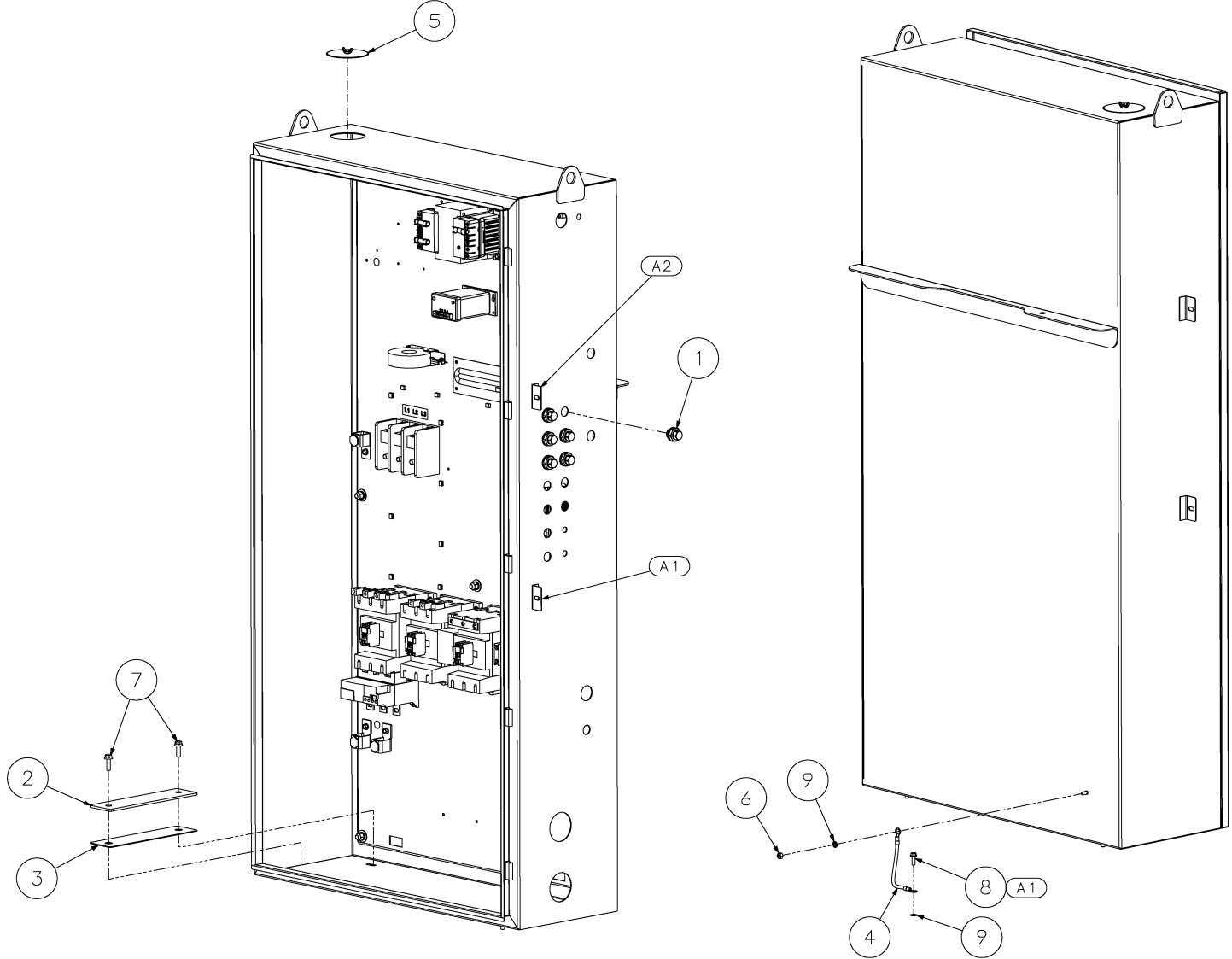


1004-5356 R01

1.34 VSD options

| Drawing notes |                                            |
|---------------|--------------------------------------------|
| A1            | DIN RAIL END CLIP                          |
| A2            | NOTE REMOVED                               |
| A3            | FAN CONTACTOR                              |
| A4            | CONTROL BOX HEATER (COLD WEATHER STANDARD) |
| A5            | MANUAL RESET BUTTON                        |
| A6            | TERMINAL BLOCK                             |
| A7            | FAN DECAL FOR MANUAL RESET BUTTON          |
| A8            | FAN OVERLOAD (MMP)                         |
| A9            | MAIN FUSES                                 |

1.35 Starter mounting (Wye-delta)



1003-1060 R00

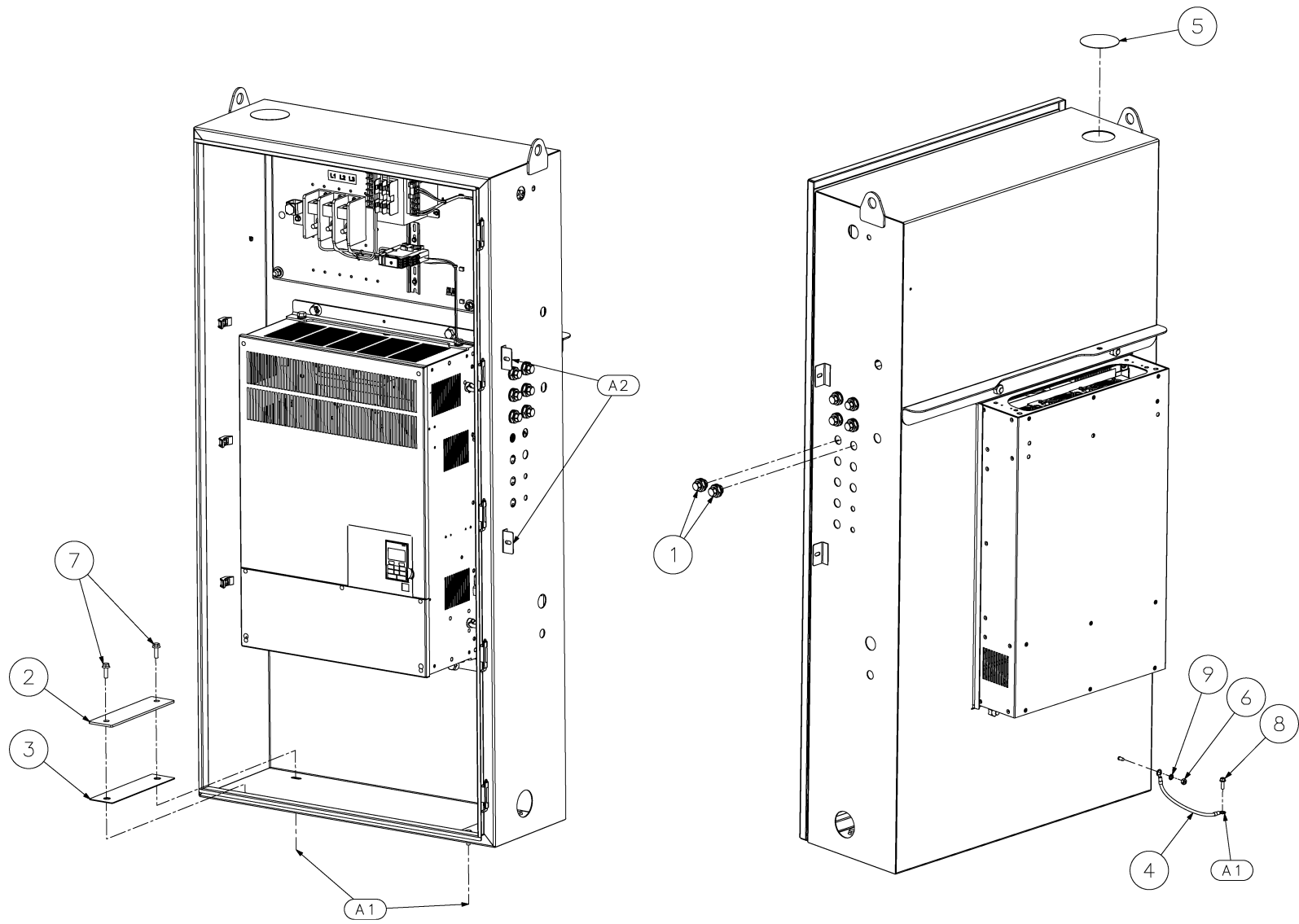
**1.35 Starter mounting (Wye-delta)**

| Key | Part number  | Qty | Description                   | Notes |
|-----|--------------|-----|-------------------------------|-------|
| 1   | 02250216-341 | 6   | PLUG,CLICK BLK 20MM           |       |
| 2   | 02250225-320 | 2   | PLATE,MOUNTING ELEC ENCLOSURE |       |
| 3   | 02250225-938 | 2   | GASKET,ELECT ENCLOSURE        |       |
| 4   | 02250226-008 | 1   | CABLE,GROUND BOND 8"          |       |
| 5   | 409918-008   | 1   | PLUG,HOLE N4 2-1/2" COND      |       |
| 6   | 825204-226   | 1   | NUT, HEX PLTD 1/4-20          |       |
| 7   | 829705-100   | 4   | SCREW, HX SER WASH 5/16 X 1"  |       |
| 8   | 834504-075   | 1   | SCREW, SELF DRILL 1/4 X 3/4"  |       |
| 9   | 838404-028   | 2   | WASHER, LOCK EXT TOOTH 1/4"   |       |

**Drawing notes**

|    |              |
|----|--------------|
| A1 | TO THE FRAME |
| A2 | TO ENCLOSURE |

1.36 Starter mounting (VSD)



1004-5355 R00

**1.36 Starter mounting (VSD)**

| Key | Part number  | Qty | Description                   | Notes |
|-----|--------------|-----|-------------------------------|-------|
| 1   | 02250216-341 | 6   | PLUG,CLICK BLK 20MM           |       |
| 2   | 02250225-320 | 2   | PLATE,MOUNTING ELEC ENCLOSURE |       |
| 3   | 02250225-938 | 2   | GASKET,ELECT ENCLOSURE        |       |
| 4   | 02250226-008 | 1   | CABLE,GROUND BOND 8"          |       |
| 5   | 409918-008   | 1   | PLUG,HOLE N4 2-1/2" COND      |       |
| 6   | 825204-226   | 1   | NUT, HEX PLTD 1/4-20          |       |
| 7   | 829705-100   | 4   | SCREW, HX SER WASH 5/16 X 1"  |       |
| 8   | 834504-075   | 1   | SCREW, SELF DRILL 1/4 X 3/4"  |       |
| 9   | 838404-028   | 1   | WASHER, LOCK EXT TOOTH 1/4"   |       |

**Drawing notes**

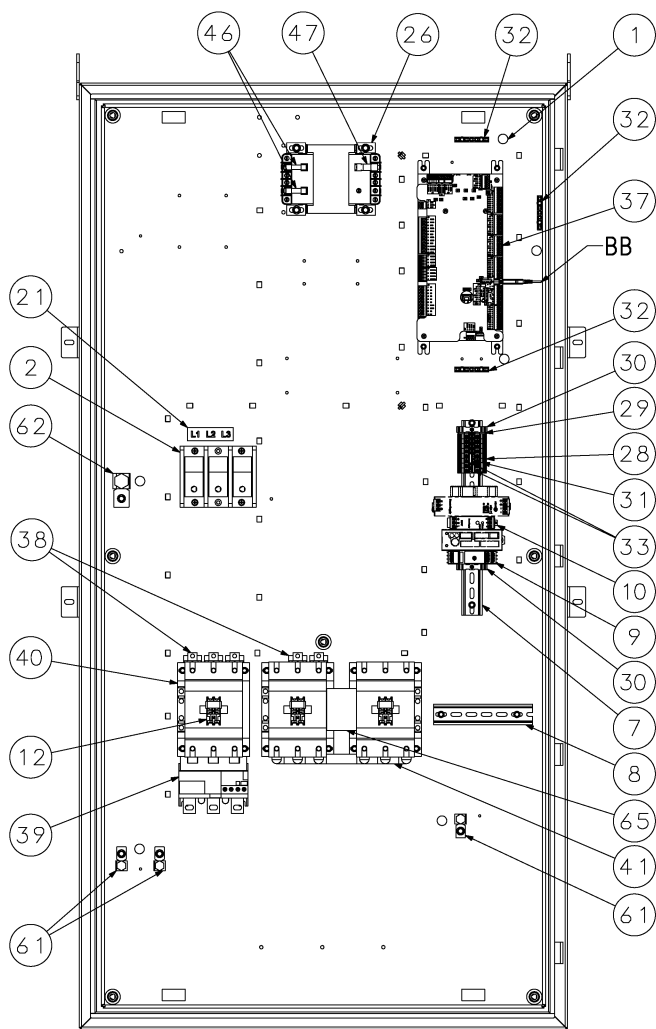
|    |              |
|----|--------------|
| A1 | TO THE FRAME |
| A2 | TO ENCLOSURE |

Exploded view diagram of a control cabinet door assembly. The diagram shows the door (35) with its frame (36) and various components like hinges (27, 5), locking bolts (34, 11), and a handle (51). The door is shown being attached to the cabinet (44) using screws (63, 13, 53, 49) and a handle (57, 64, 51, 58, 60). The cabinet interior shows terminal blocks and wiring.

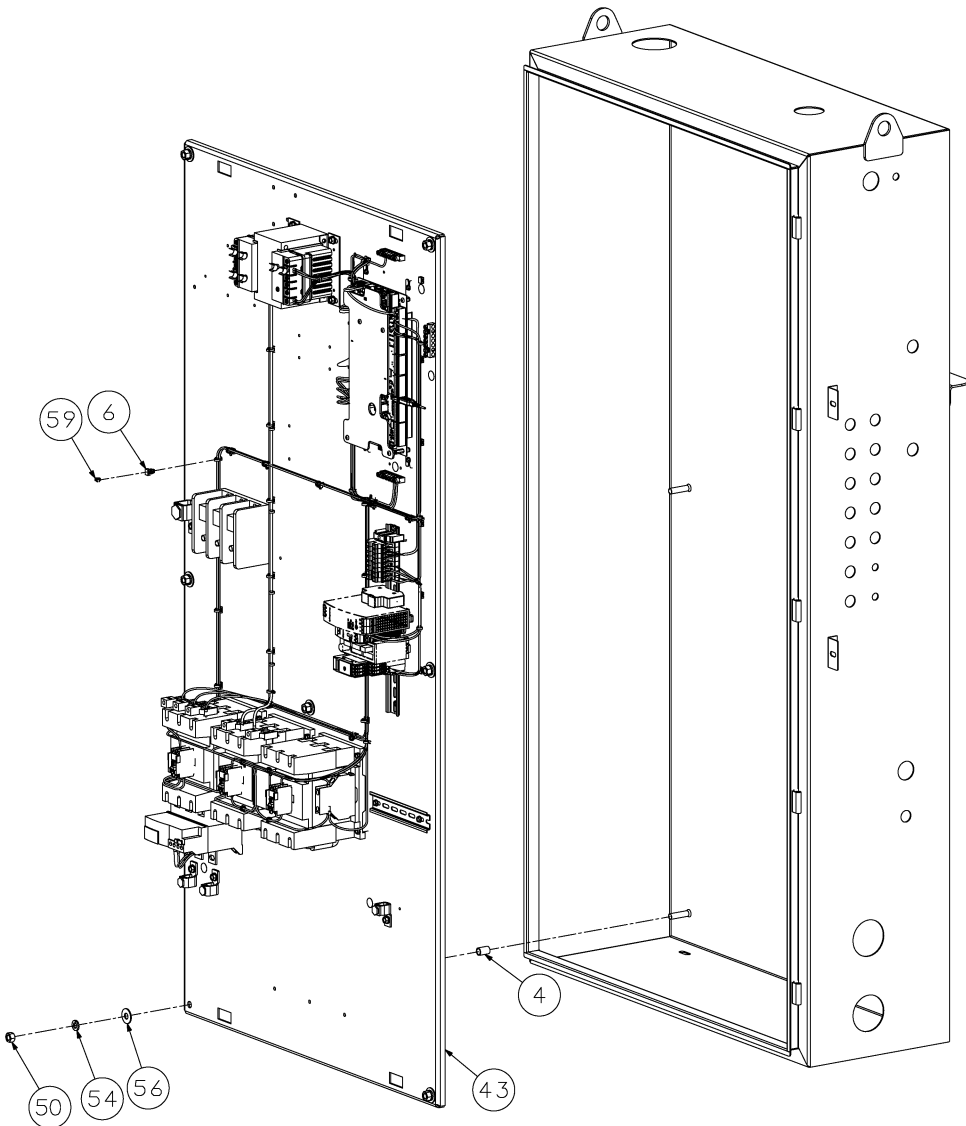


34

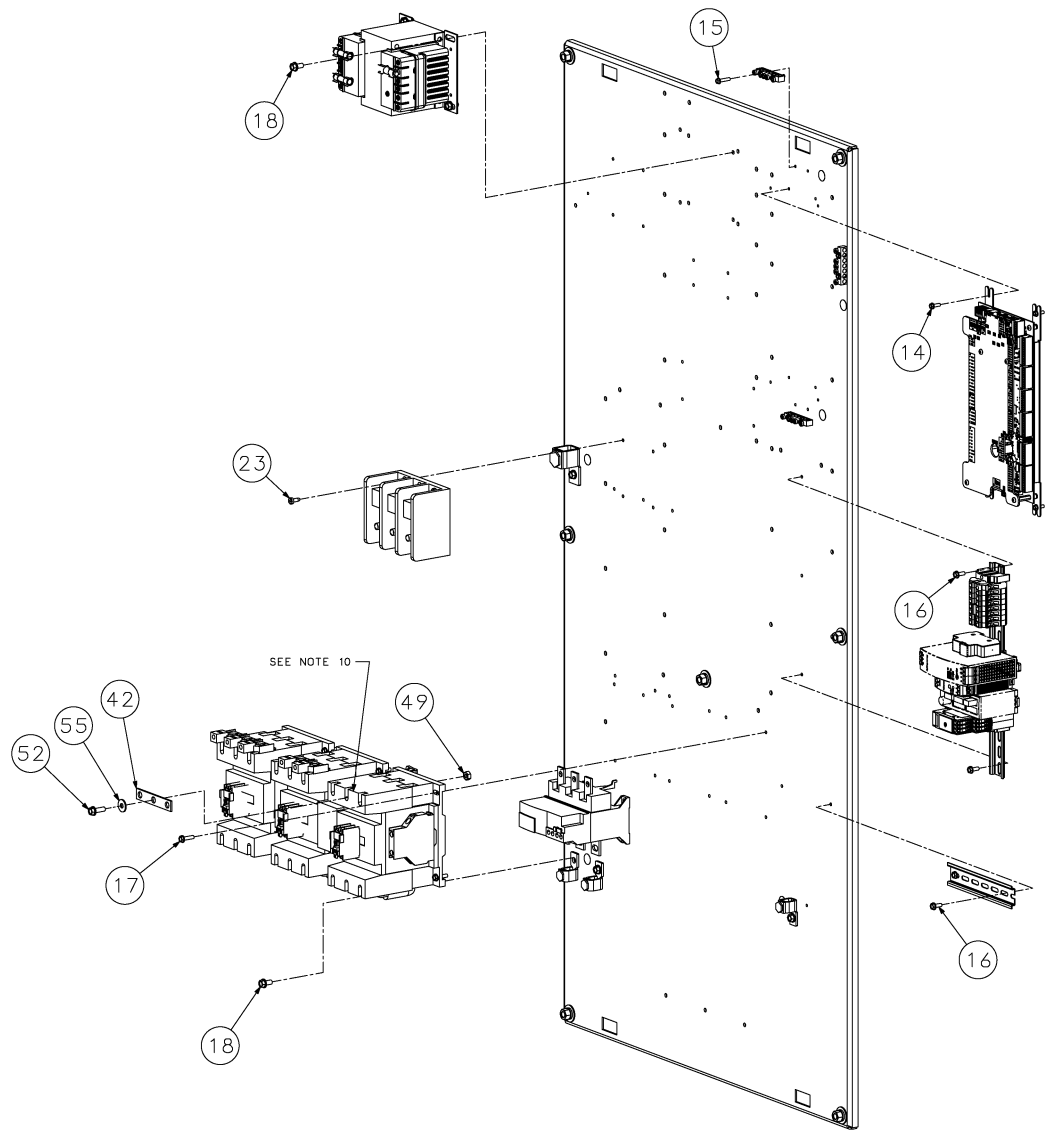
1.37 Control starter (Wye-delta – 125 hp)



1002-9249 R02 (sh2)

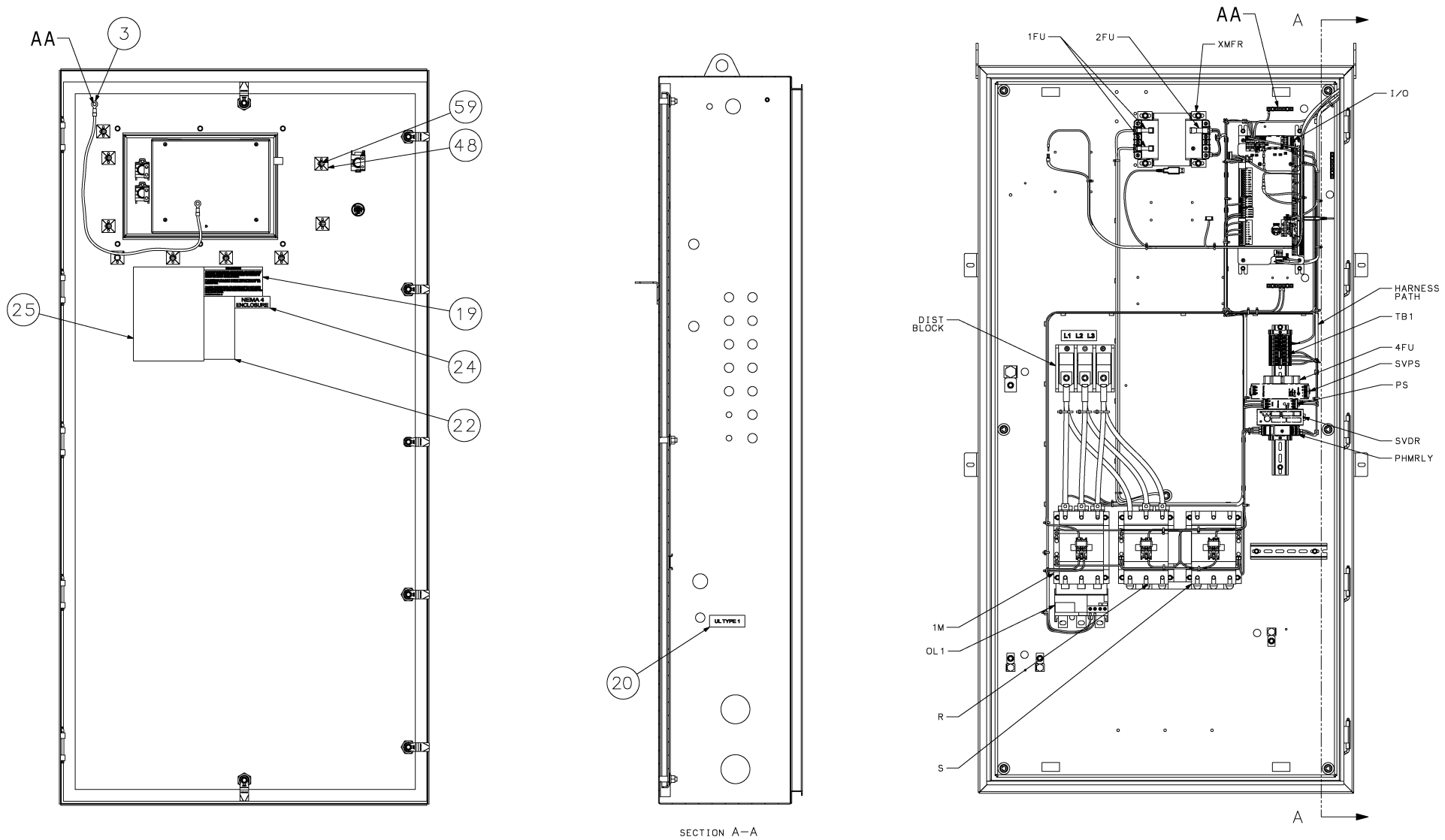


1.37 Control starter (Wye-delta – 125 hp)



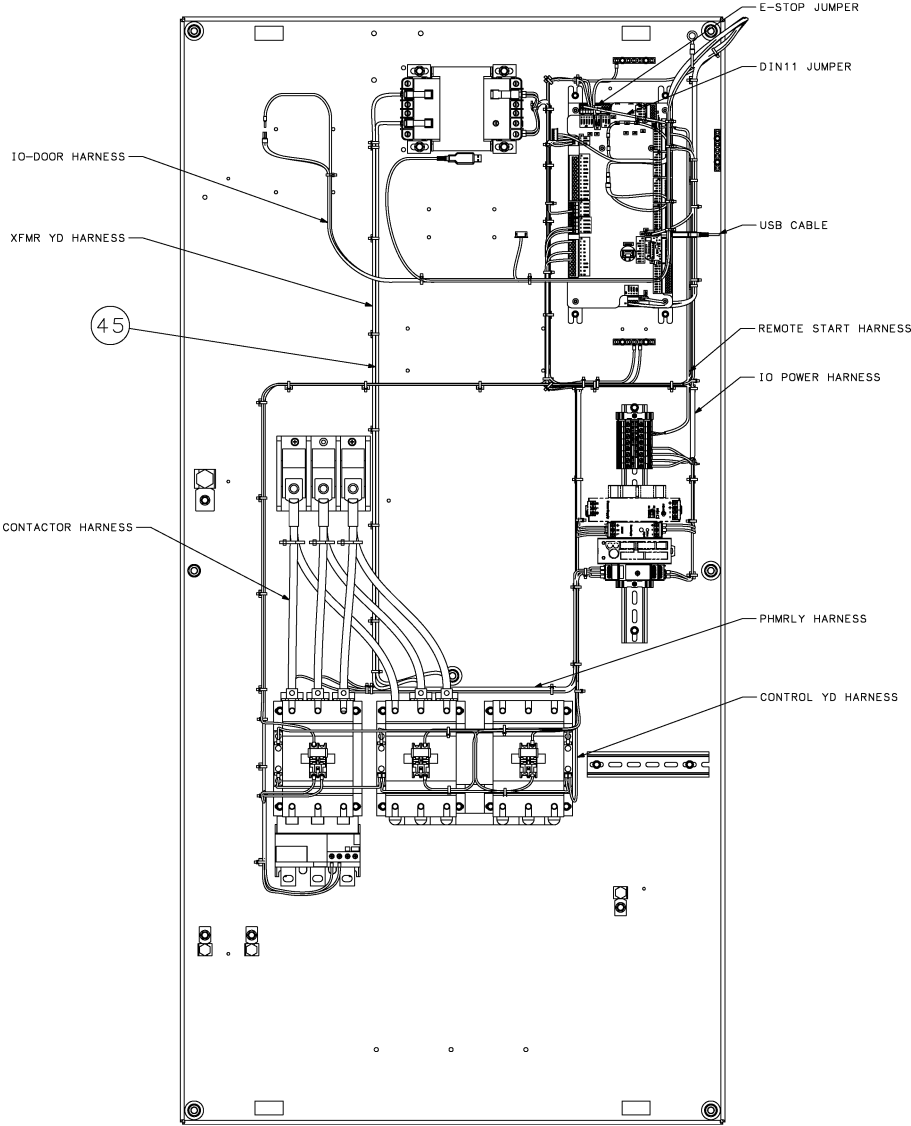
1002-9249 R02 (sh3)

1.37 Control starter (Wye-delta – 125 hp)



1002-9249 R02 (sh4)

1.37 Control starter (Wye-delta – 125 hp)



1002-9249 R02 (sh5)

**1.37 Control starter (Wye-delta – 125 hp)**

| Key | Part number  | Qty | Description                                | Notes |
|-----|--------------|-----|--------------------------------------------|-------|
| 1   | 02250075-045 | 6   | DECAL,PROTECTIVE EARTH GROUND              |       |
| 2   | 02250145-194 | 1   | BLOCK,POWER DISTRIBUTION 600V              |       |
| 3   | 02250157-281 | 1   | WIRE, 10 GAGE GROUND BOND 24"              |       |
| 4   | 02250183-074 | 7   | SPACER,TUBE 3/8 ID X 3/4                   |       |
| 5   | 02250207-732 | 1   | CAP,ETHERNET PORT NEMA6                    |       |
| 6   | 02250214-985 | 36  | CLIP,CABLE TIE PUSH BARB                   |       |
| 7   | 02250218-324 | 1   | RAIL,DIN RAIL 12.75IN                      |       |
| 8   | 02250218-671 | 1   | RAIL,DIN RAIL 6.5IN                        |       |
| 9   | 02250225-305 | 1   | RELAY,OVERLOAD & UND VOLT PM               |       |
| 10  | 02250225-306 | 1   | SUPPLY,POWER 24VAC/DC PULS                 |       |
| 11  | 02250232-525 | 1   | RECEIVER,USB                               |       |
| 12  | 02250234-041 | 3   | CONTACTOR,AUX 1NO&1NC                      |       |
| 13  | 02250241-424 | 1   | TERMINAL,RING 5/16 X 14-16 AWG             |       |
| 14  | 02250244-437 | 4   | SCREW,TR-TT HEX #8-32 X 1/2"               |       |
| 15  | 02250244-438 | 6   | SCREW,TR-TT HEX #8-32 X 3/4"               |       |
| 16  | 02250244-439 | 5   | SCREW,TR-TT HEX #10-32 X 1/2"              |       |
| 17  | 02250244-440 | 12  | SCREW,TR-TT HEX #10-32 X 3/4"              |       |
| 18  | 02250244-441 | 8   | SCREW,TR-TT HEX 1/4-20 X 1/2"              |       |
| 19  | 02250246-544 | 1   | DECAL,WARNING CIRCUIT PROTECT              |       |
| 20  | 02250246-668 | 1   | DECAL,TYPE 1 ENCLOSURE                     |       |
| 21  | 02250246-669 | 1   | DECAL,FIELD WIRING INPUT                   |       |
| 22  | 02250246-671 | 1   | DECAL,FIELD INSTRUCTIONS                   |       |
| 23  | 02250247-582 | 4   | SCREW,TR-TT PAN 10-24 X 1/2"               |       |
| 24  | 02250250-556 | 1   | DECAL,NEMA 4 ENCLOSURE                     |       |
| 25  | 02250260-870 | 1   | DECAL,SCHNEIDER OVLD                       |       |
| 26  | 02250261-688 | 1   | TRANSFORMER,500VA UNIV VOLT HPS            |       |
| 27  | 02250266-609 | 1   | SWITCH ASSEMBLY,E-STOP SCH                 |       |
| 28  | 02250266-710 | 8   | BLOCK,TERM 50A 600V SCH                    |       |
| 29  | 02250266-711 | 1   | BLOCK,TERM END PLATE SCH                   |       |
| 30  | 02250266-713 | 2   | BLOCK,TERM END STOP SCH                    |       |
| 31  | 02250266-719 | 1   | MARKER,TAG, BLANK 8MM SCH                  |       |
| 32  | 02250266-725 | 3   | BAR,GROUNDING 5 POINT SCH                  |       |
| 33  | 02250266-726 | 2   | LINK,JUMPER 6MM 2 POS SCH                  |       |
| 34  | 02250266-727 | 1   | DECAL,ESTOP YL RING 60MM SCH               |       |
| 35  | 02250266-756 | 1   | SUB ASSEMBLY,MODULAR,GLOBAL CONTROLLER 10" |       |

**1.37 Control starter (Wye-delta – 125 hp)**

| Key | Part number  | Qty | Description                           | Notes |
|-----|--------------|-----|---------------------------------------|-------|
| 36  | 02250269-819 | 1   | GASKET,GC HMI BEZEL 10"               |       |
| 37  | 1000-1223    | 1   | SUB ASSEMBLY,MODULAR,I/O MOD GLOBAL   |       |
| 38  | 1000-3181    | 5   | CONTACTOR,TERMINAL EXTENSION SCH      |       |
| 39  | 1000-7812    | 1   | RELAY,OVERLOAD 60-100A SCH            |       |
| 40  | 1000-8253    | 3   | CONTACTOR,SZD 115A 120V 50/60HZ       |       |
| 41  | 1001-0698    | 1   | BAR,REVERSING                         |       |
| 42  | 1001-0699    | 1   | BAR,SHORTING                          |       |
| 43  | 1001-1972    | 1   | PANEL,SUB YD LS90-110                 |       |
| 44  | 1002-9247    | 1   | BOX,STR YD LS90-110                   |       |
| 45  | 1003-3897    | 1   | SUB ASSEMBLY,MODULAR,YD HARN LS90/110 |       |
| 46  | 250026-644   | 2   | FUSE,CLASS CC 2.0A 600V TD            |       |
| 47  | 250041-614   | 1   | FUSE,CC TD 7A 600VAC                  |       |
| 48  | 409796       | 9   | PLATE,TY-RAP MOUNTING                 |       |
| 49  | 825204-226   | 4   | NUT, HEX PLTD 1/4-20                  |       |
| 50  | 825206-337   | 7   | NUT,HEX PLTD 3/8-16                   |       |
| 51  | 825908-125   | 6   | NUT, HEX METRIC M8 X 1.25             |       |
| 52  | 835904-075   | 3   | SCREW, TR-TT HEX 1/4 X 3/4"           |       |
| 53  | 837504-062   | 1   | WASHER, SPRLOCK REG 1/4"              |       |
| 54  | 837506-094   | 7   | WASHER, SPRLOCK REG 3/8"              |       |
| 55  | 838204-071   | 3   | WASHER,PL-B REG PLTD 1/4"             |       |
| 56  | 838206-071   | 7   | WASHER,PL-B REG PLTD 3/8"             |       |
| 57  | 838406-040   | 1   | WASHER, LOCK EXT TOOTH 3/8"           |       |
| 58  | 838808-200   | 6   | WASHER, SPRLOCK METRIC M8             |       |
| 59  | 843200-023   | 47  | WRAP, TIE NYLON TY23                  |       |
| 60  | 848700-038   | 2   | WRAP, SPIRAL WIRE 3/8" (FT)           | FEET  |
| 61  | 849215-025   | 3   | LUG, SCRULUG KPA-25 4-1/0             |       |
| 62  | 849215-028   | 1   | LUG, SCRULUG KPA-28 1/0-4/0           |       |
| 63  | 850215-016   | 1   | WIRE, MTW/AWM 16GA GRN/YEL STR        | FEET  |
| 64  | 882708-200   | 6   | WASHER, METRIC FLT THIN 8 X 20        |       |
| 65  | 88290001-487 | 1   | CONTACTOR,MCNLOCK LA9D11502 TE        |       |

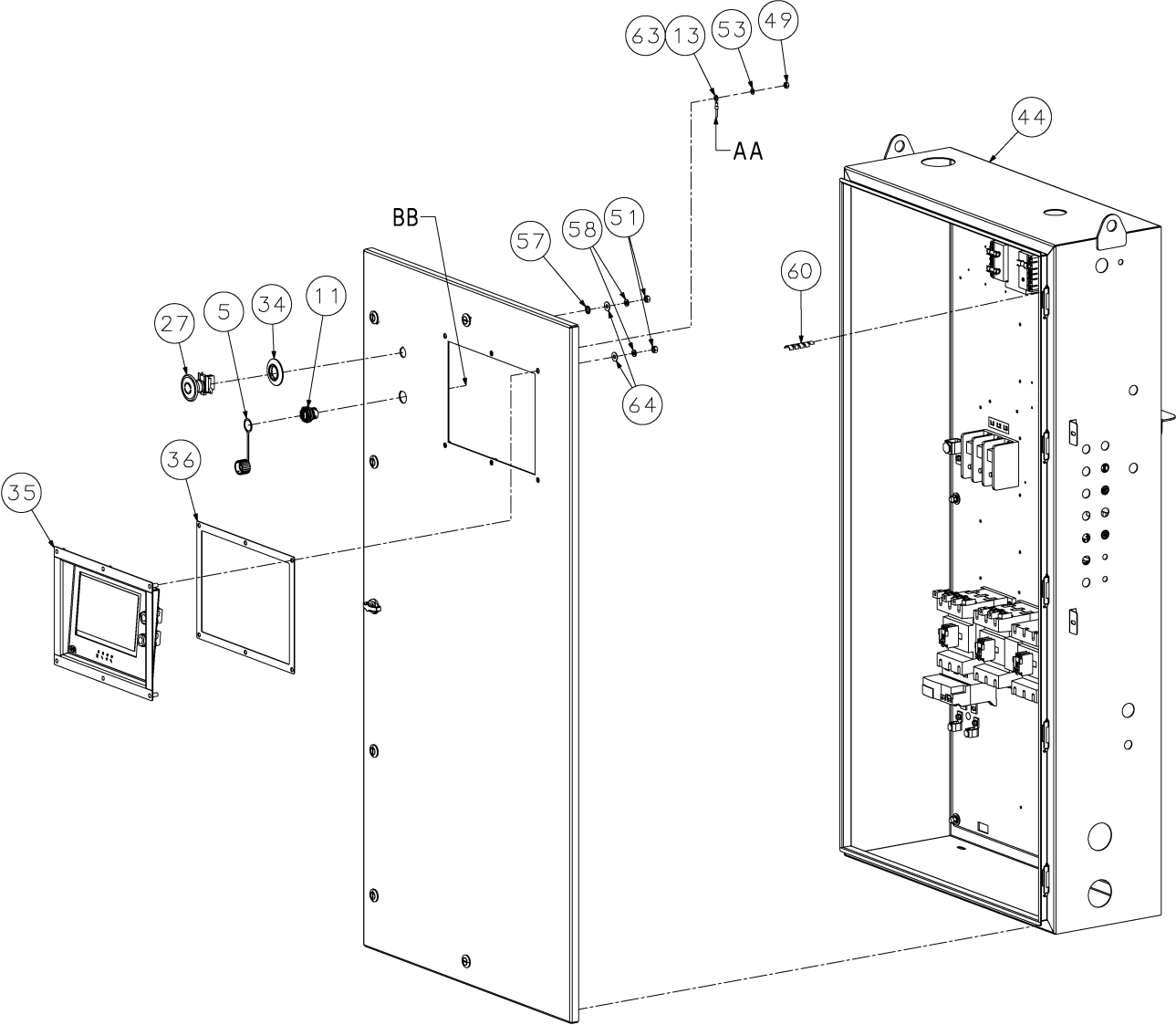
**Drawing notes**

|   |                                                                     |
|---|---------------------------------------------------------------------|
| 1 | MARK/TAG COMPONENT/CONTAINER WITH SULLAIR PART NUMBER AND REVISION. |
| 2 | MANUFACTURER: SULLAIR                                               |
| 3 | ALL CRITICAL COMPONENTS TO BE UL AND CSA LISTED/RECOGNIZED.         |
| 4 | PANEL ASSEMBLY SHALL MEET UL 508A.                                  |

### 1.37 Control starter (Wye-delta – 125 hp)

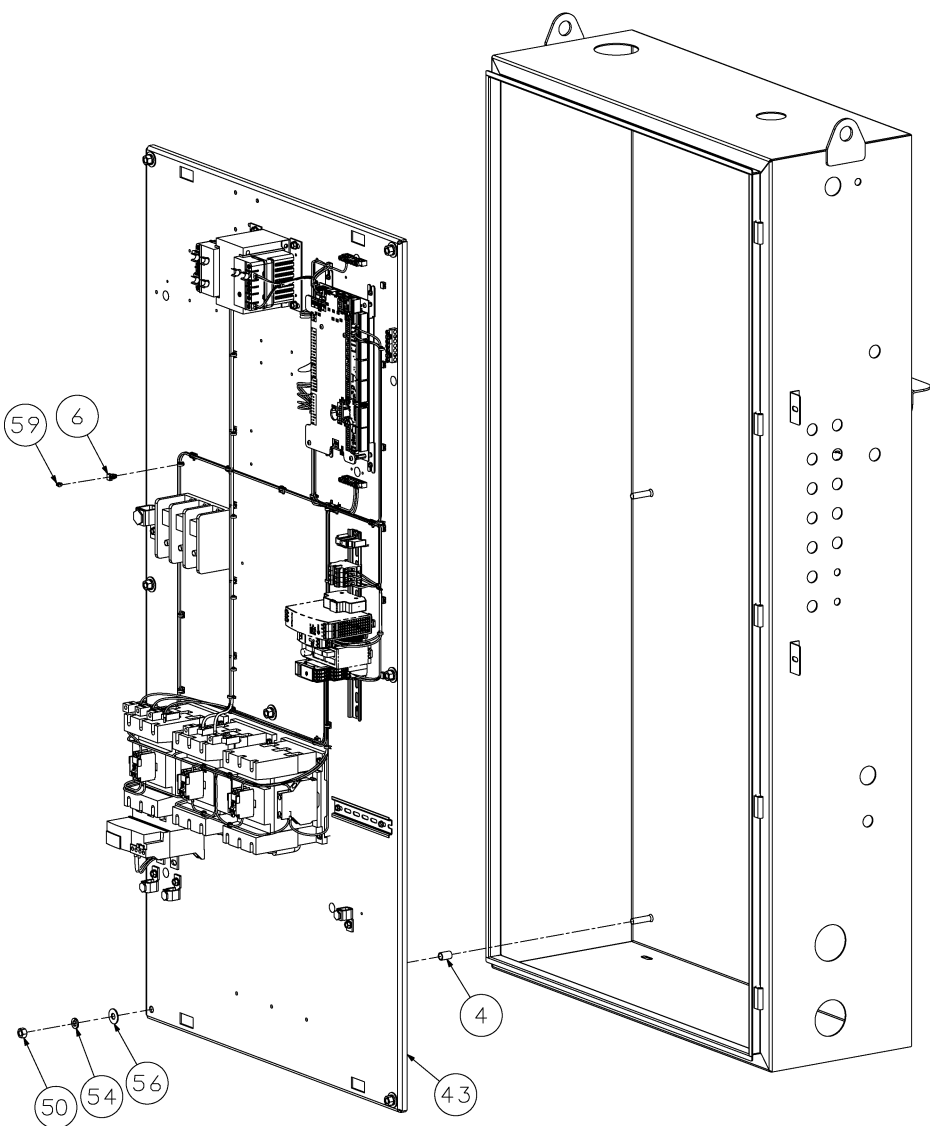
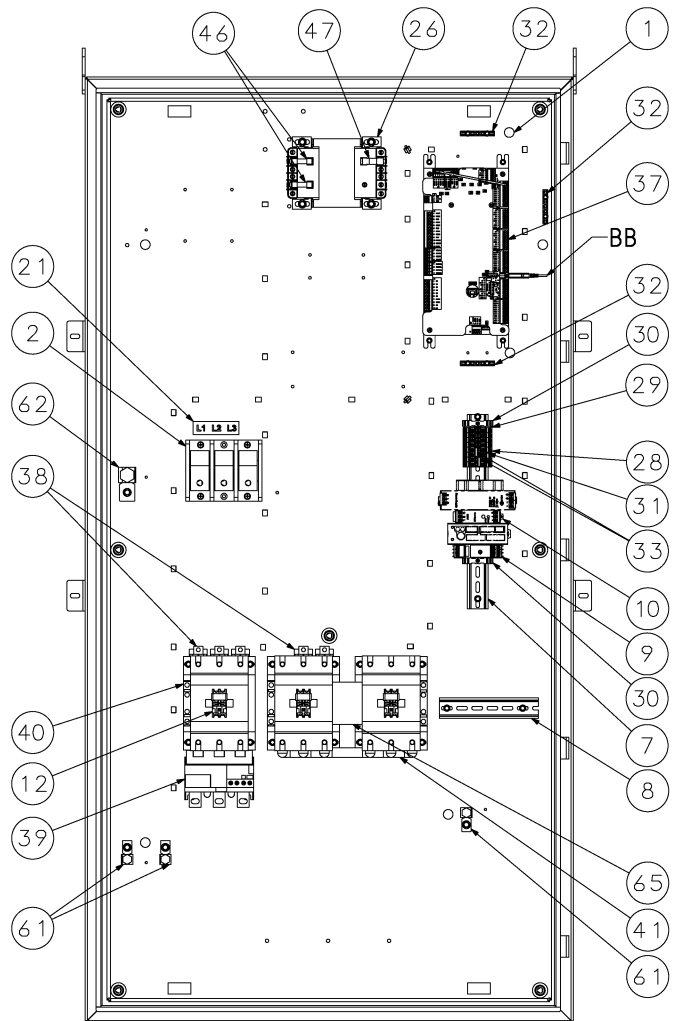
| Key | Part number                                                                                                      | Qty | Description | Notes |
|-----|------------------------------------------------------------------------------------------------------------------|-----|-------------|-------|
| 5   | WIRE TO/FROM ALL SUPPLIED COMPONENTS PER WIRING DIAGRAM 1003-0763 OR 1003-0618.                                  |     |             |       |
| 6   | ENCLOSURE TO BE NEMA 4/UL TYPE 1 AFTER ASSEMBLY AT SULLAIR.                                                      |     |             |       |
| 7   | ALL COMPONENTS SHALL BE LABELED WITH COMPONENT NAMES FROM WIRING DIAGRAM.                                        |     |             |       |
| 8   | FOR AA CONNECTION POINTS, CONNECT THE GROUND WIRE TO THE DOOR STUD AND TO THE GROUNDING BAR ABOVE THE I/O BOARD. |     |             |       |
| 9   | FOR BB CONNECTION POINTS, CONNECT USB DOOR PORT I/O BOARD.                                                       |     |             |       |
| 10  | REMOVE FINGER GUARD TO INSTALL SHORTING BAR.                                                                     |     |             |       |

1.38 Control starter (Wye-delta – 150 hp)



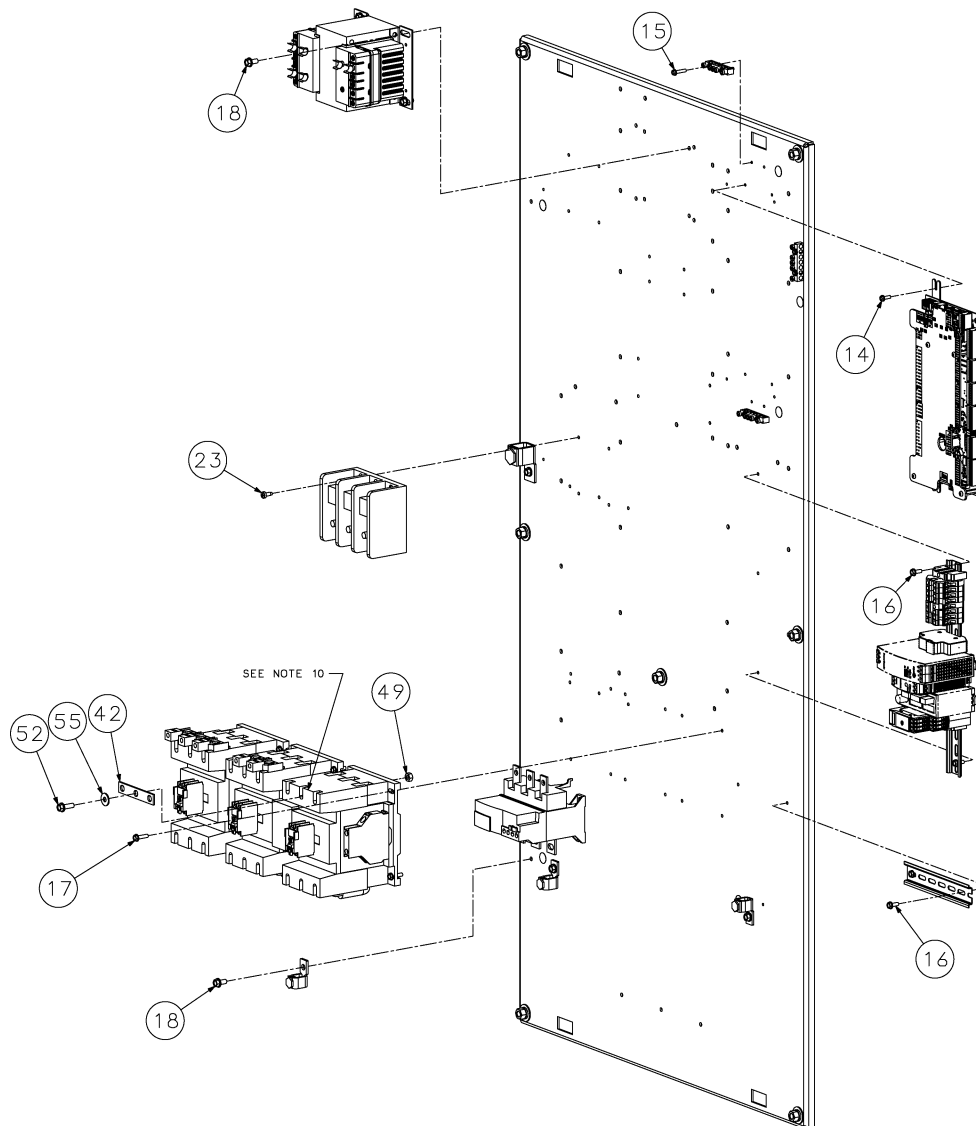
1002-9248 R02 (sh1)

1.38 Control starter (Wye-delta – 150 hp)



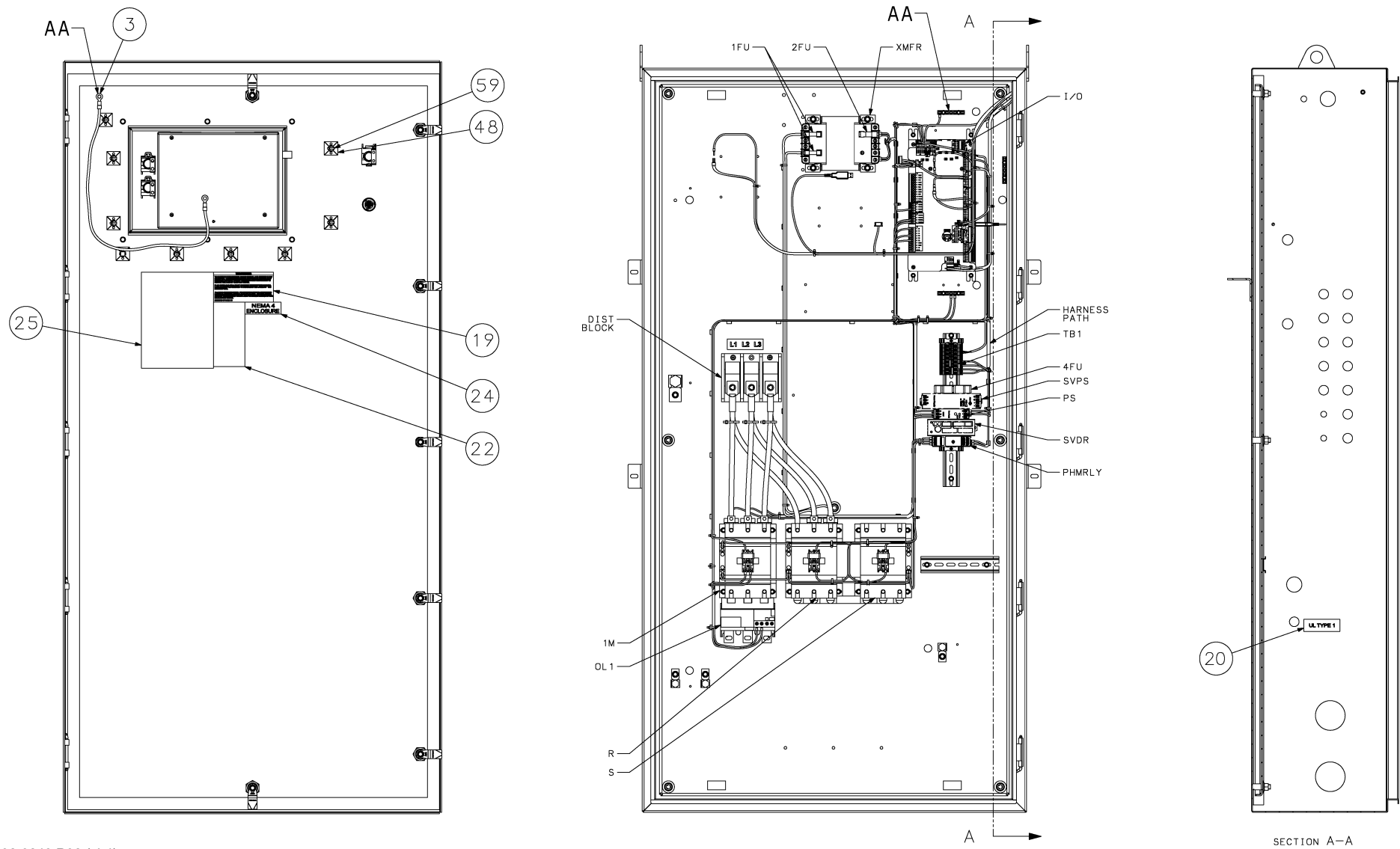
1002-9248 R02 (sh2)

## 1.38 Control starter (Wye-delta – 150 hp)



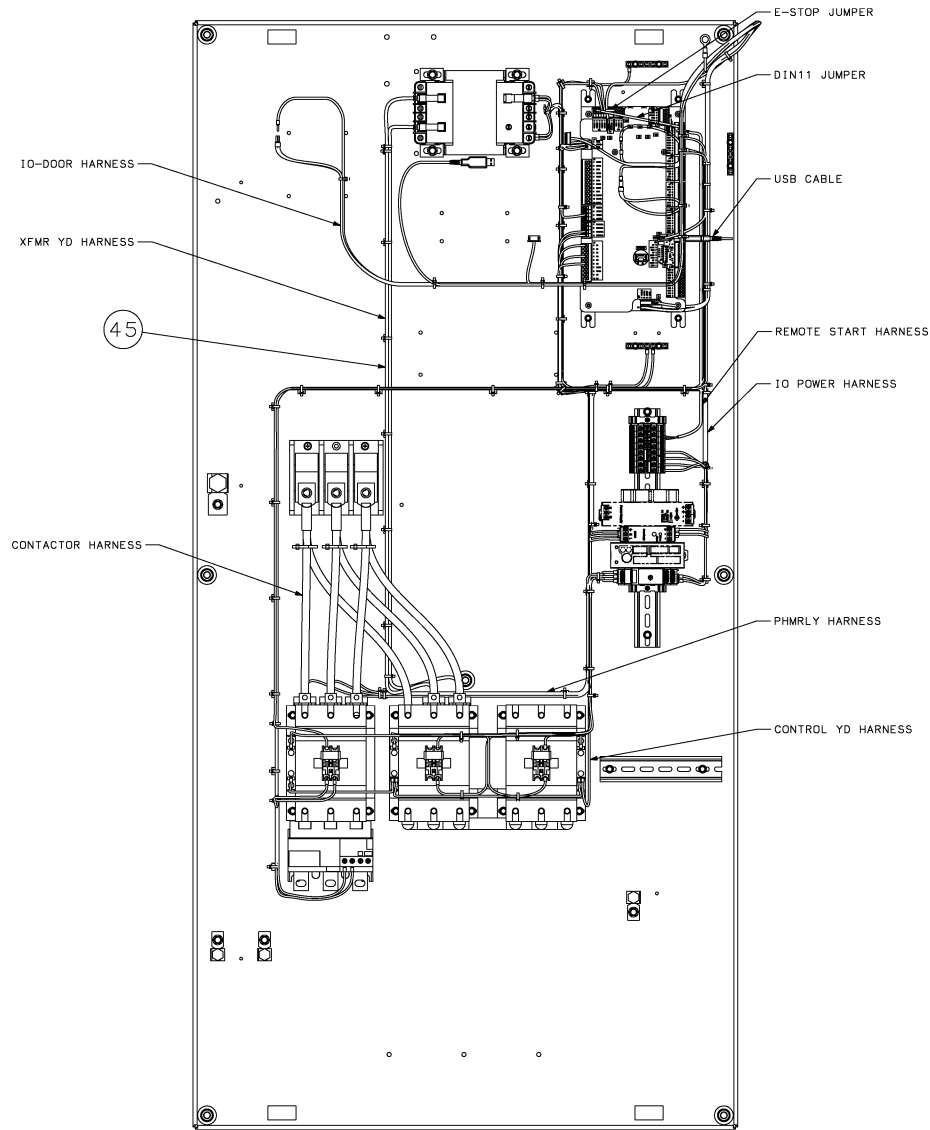
1002-9248 R02 (sh3)

1.38 Control starter (Wye-delta – 150 hp)



1002-9248 R02 (sh4)

1.38 Control starter (Wye-delta – 150 hp)



1002-9248 R02 (sh5)

**1.38 Control starter (Wye-delta – 150 hp)**

| Key | Part number  | Qty | Description                                | Notes |
|-----|--------------|-----|--------------------------------------------|-------|
| 1   | 02250075-045 | 6   | DECAL,PROTECTIVE EARTH GROUND              |       |
| 2   | 02250145-194 | 1   | BLOCK,POWER DISTRIBUTION 600V              |       |
| 3   | 02250157-281 | 1   | WIRE, 10 GAGE GROUND BOND 24"              |       |
| 4   | 02250183-074 | 7   | SPACER,TUBE 3/8 ID X 3/4                   |       |
| 5   | 02250207-732 | 1   | CAP,ETHERNET PORT NEMA6                    |       |
| 6   | 02250214-985 | 37  | CLIP,CABLE TIE PUSH BARB                   |       |
| 7   | 02250218-324 | 1   | RAIL,DIN RAIL 12.75IN                      |       |
| 8   | 02250218-671 | 1   | RAIL,DIN RAIL 6.5IN                        |       |
| 9   | 02250225-305 | 1   | RELAY,OVERLOAD & UND VOLT PM               |       |
| 10  | 02250225-306 | 1   | SUPPLY,POWER 24VAC/DC PULS                 |       |
| 11  | 02250232-525 | 1   | RECEIVER,USB                               |       |
| 12  | 02250234-041 | 3   | CONTACTOR,AUX 1NO&1NC                      |       |
| 13  | 02250241-424 | 1   | TERMINAL,RING 5/16 X 14-16 AWG             |       |
| 14  | 02250244-437 | 4   | SCREW,TR-TT HEX #8-32 X 1/2"               |       |
| 15  | 02250244-438 | 6   | SCREW,TR-TT HEX #8-32 X 3/4"               |       |
| 16  | 02250244-439 | 5   | SCREW,TR-TT HEX #10-32 X 1/2"              |       |
| 17  | 02250244-440 | 12  | SCREW,TR-TT HEX #10-32 X 3/4"              |       |
| 18  | 02250244-441 | 8   | SCREW,TR-TT HEX 1/4-20 X 1/2"              |       |
| 19  | 02250246-544 | 1   | DECAL,WARNING CIRCUIT PROTECT              |       |
| 20  | 02250246-668 | 1   | DECAL,TYPE 1 ENCLOSURE                     |       |
| 21  | 02250246-669 | 1   | DECAL,FIELD WIRING INPUT                   |       |
| 22  | 02250246-671 | 1   | DECAL,FIELD INSTRUCTIONS                   |       |
| 23  | 02250247-582 | 4   | SCREW,TR-TT PAN 10-24 X 1/2"               |       |
| 24  | 02250250-556 | 1   | DECAL,NEMA 4 ENCLOSURE                     |       |
| 25  | 02250260-870 | 1   | DECAL,SCHNEIDER OVLD                       |       |
| 26  | 02250261-688 | 1   | TRANSFORMER,500VA UNIV VOLT HPS            |       |
| 27  | 02250266-609 | 1   | SWITCH ASSEMBLY,E-STOP SCH                 |       |
| 28  | 02250266-710 | 8   | BLOCK,TERM 50A 600V SCH                    |       |
| 29  | 02250266-711 | 1   | BLOCK,TERM END PLATE SCH                   |       |
| 30  | 02250266-713 | 2   | BLOCK,TERM END STOP SCH                    |       |
| 31  | 02250266-719 | 1   | MARKER,TAG, BLANK 8MM SCH                  |       |
| 32  | 02250266-725 | 3   | BAR,GROUNDING 5 POINT SCH                  |       |
| 33  | 02250266-726 | 2   | LINK,JUMPER 6MM 2 POS SCH                  |       |
| 34  | 02250266-727 | 1   | DECAL,ESTOP YL RING 60MM SCH               |       |
| 35  | 02250266-756 | 1   | SUB ASSEMBLY,MODULAR,GLOBAL CONTROLLER 10" |       |

**1.38 Control starter (Wye-delta – 150 hp)**

| Key | Part number  | Qty | Description                           | Notes |
|-----|--------------|-----|---------------------------------------|-------|
| 36  | 02250269-819 | 1   | GASKET,GC HMI BEZEL 10"               |       |
| 37  | 1000-1223    | 1   | SUB ASSEMBLY,MODULAR,I/O MOD GLOBAL   |       |
| 38  | 1000-3181    | 5   | CONTACTOR,TERMINAL EXTENSION SCH      |       |
| 39  | 1000-7811    | 1   | RELAY,OVERLOAD 90-150A SCH            |       |
| 40  | 1000-8856    | 3   | CONTR,SZD 150A 120V 50/60HZ           |       |
| 41  | 1001-0698    | 1   | BAR,REVERSING                         |       |
| 42  | 1001-0699    | 1   | BAR,SHORTING                          |       |
| 43  | 1001-1972    | 1   | PANEL,SUB YD LS90-110                 |       |
| 44  | 1002-9247    | 1   | BOX,STR YD LS90-110                   |       |
| 45  | 1003-3897    | 1   | SUB ASSEMBLY,MODULAR,YD HARN LS90/110 |       |
| 46  | 250026-644   | 2   | FUSE,CLASS CC 2.0A 600V TD            |       |
| 47  | 250041-614   | 1   | FUSE,CC TD 7A 600VAC                  |       |
| 48  | 409796       | 9   | PLATE,TY-RAP MOUNTING                 |       |
| 49  | 825204-226   | 4   | NUT, HEX PLTD 1/4-20                  |       |
| 50  | 825206-337   | 7   | NUT,HEX PLTD 3/8-16                   |       |
| 51  | 825908-125   | 6   | NUT, HEX METRIC M8 X 1.25             |       |
| 52  | 835904-075   | 3   | SCREW, TR-TT HEX 1/4 X 3/4"           |       |
| 53  | 837504-062   | 1   | WASHER, SPRLOCK REG 1/4"              |       |
| 54  | 837506-094   | 7   | WASHER, SPRLOCK REG 3/8"              |       |
| 55  | 838204-071   | 3   | WASHER,PL-B REG PLTD 1/4"             |       |
| 56  | 838206-071   | 7   | WASHER,PL-B REG PLTD 3/8"             |       |
| 57  | 838406-040   | 1   | WASHER, LOCK EXT TOOTH 3/8"           |       |
| 58  | 838808-200   | 6   | WASHER, SPRLOCK METRIC M8             |       |
| 59  | 843200-023   | 46  | WRAP, TIE NYLON TY23                  |       |
| 60  | 848700-038   | 2   | WRAP, SPIRAL WIRE 3/8" (FT)           | FEET  |
| 61  | 849215-025   | 3   | LUG, SCRULUG KPA-25 4-1/0             |       |
| 62  | 849215-028   | 1   | LUG, SCRULUG KPA-28 1/0-4/0           |       |
| 63  | 850215-016   | 1   | WIRE, MTW/AWM 16GA GRN/YEL STR        | FEET  |
| 64  | 882708-200   | 6   | WASHER, METRIC FLT THIN 8 X 20        |       |
| 65  | 88290001-487 | 1   | CONTACTOR,MCNLOCK LA9D11502 TE        |       |

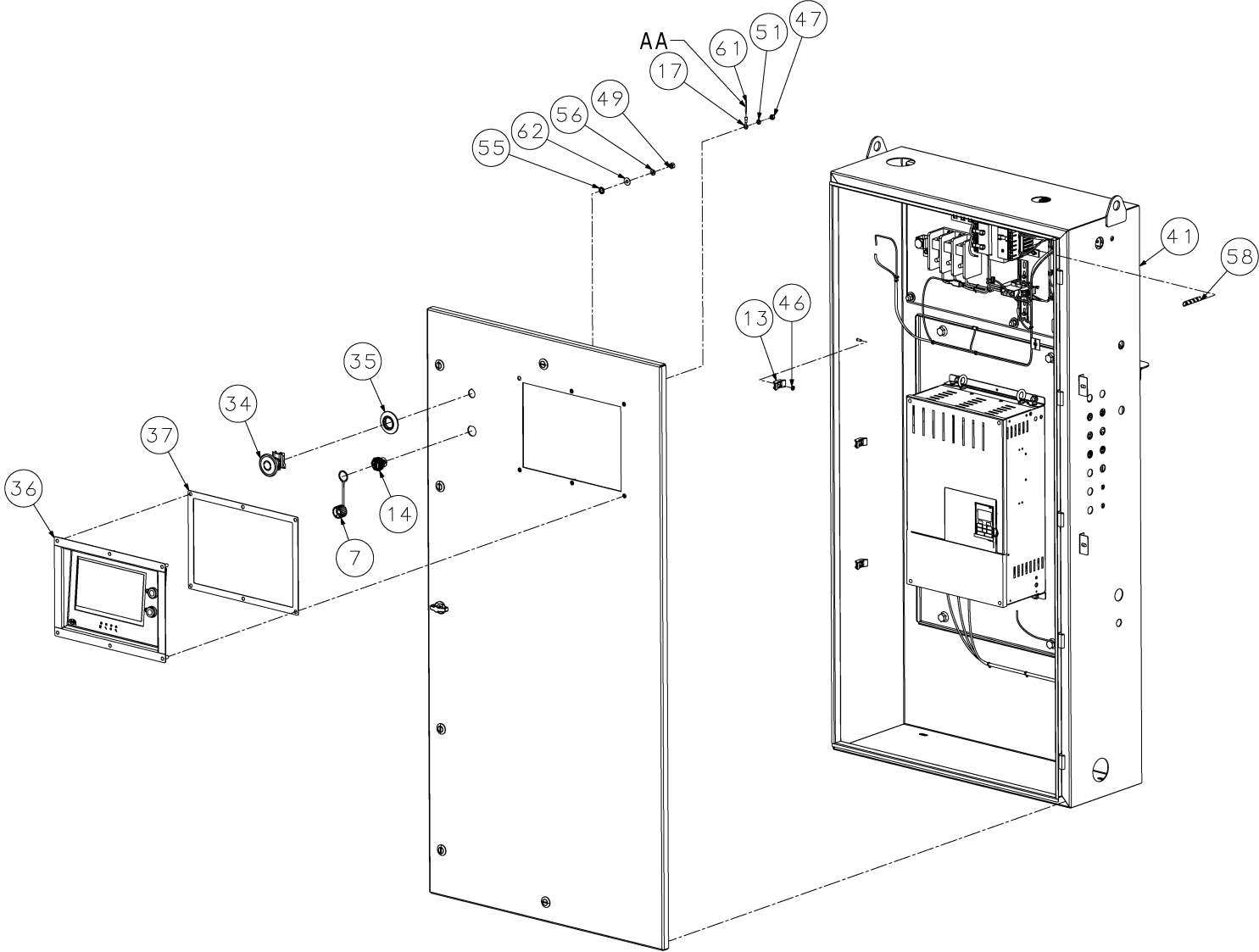
**Drawing notes**

|   |                                                                     |
|---|---------------------------------------------------------------------|
| 1 | MARK/TAG COMPONENT/CONTAINER WITH SULLAIR PART NUMBER AND REVISION. |
| 2 | MANUFACTURER: SULLAIR                                               |
| 3 | ALL CRITICAL COMPONENTS TO BE UL AND CSA LISTED/RECOGNIZED.         |
| 4 | PANEL ASSEMBLY SHALL MEET UL 508A.                                  |

1.38 Control starter (Wye-delta – 150 hp)

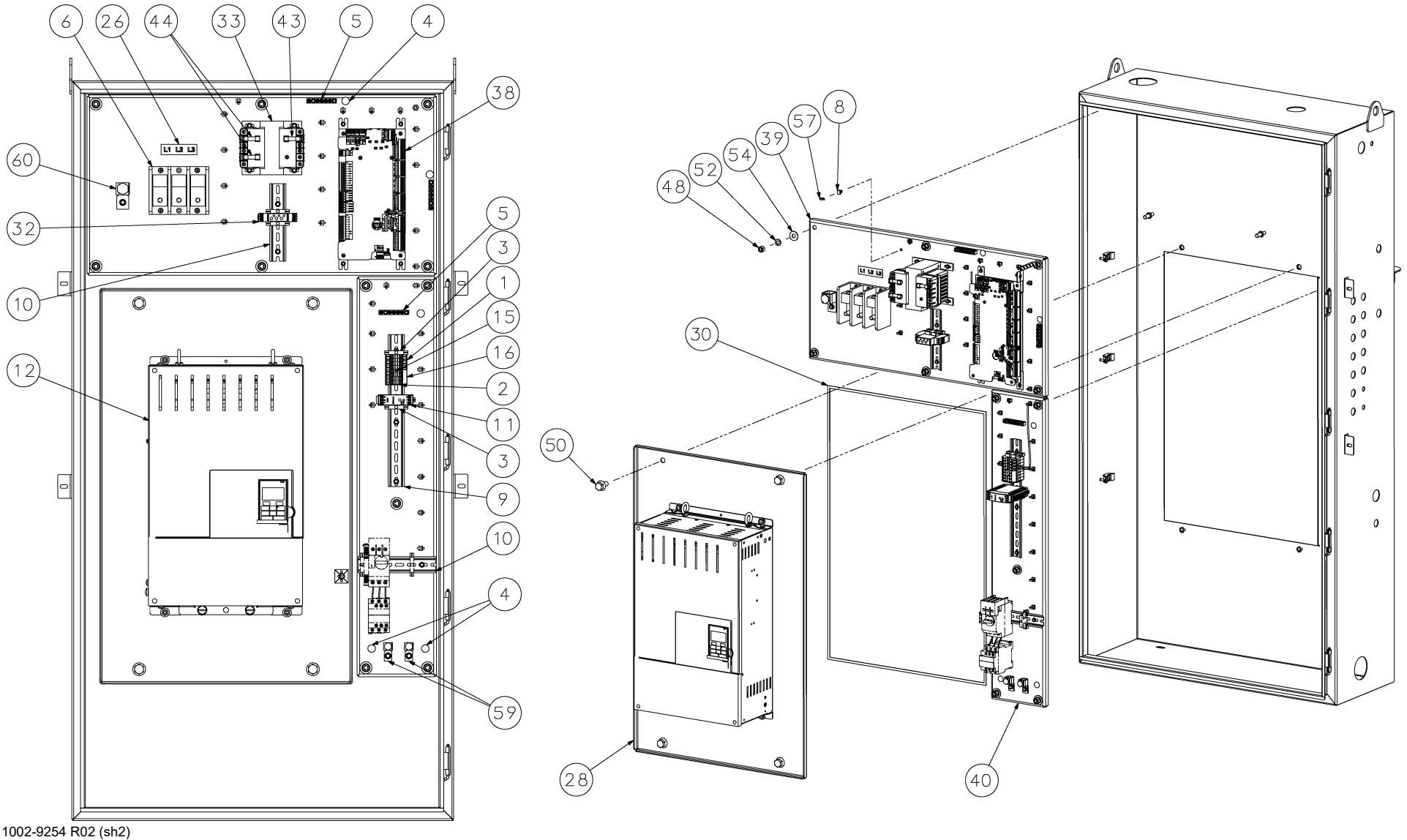
| Key | Part number                                                                                                      | Qty | Description | Notes |
|-----|------------------------------------------------------------------------------------------------------------------|-----|-------------|-------|
| 5   | WIRE TO/FROM ALL SUPPLIED COMPONENTS PER WIRING DIAGRAM 1003-0763 OR 1003-0618.                                  |     |             |       |
| 6   | ENCLOSURE TO BE NEMA 4/UL TYPE 1 AFTER ASSEMBLY AT SULLAIR.                                                      |     |             |       |
| 7   | ALL COMPONENTS SHALL BE LABELED WITH COMPONENT NAMES FROM WIRING DIAGRAM.                                        |     |             |       |
| 8   | FOR AA CONNECTION POINTS, CONNECT THE GROUND WIRE TO THE DOOR STUD AND TO THE GROUNDING BAR ABOVE THE I/O BOARD. |     |             |       |
| 9   | FOR BB CONNECTION POINTS, CONNECT USB DOOR PORT TO THE STS DISPLAY.                                              |     |             |       |
| 10  | REMOVE FINGER GUARD TO INSTALL SHORTING BAR.                                                                     |     |             |       |

1.39 Control starter (VSD—125 hp, 460V)



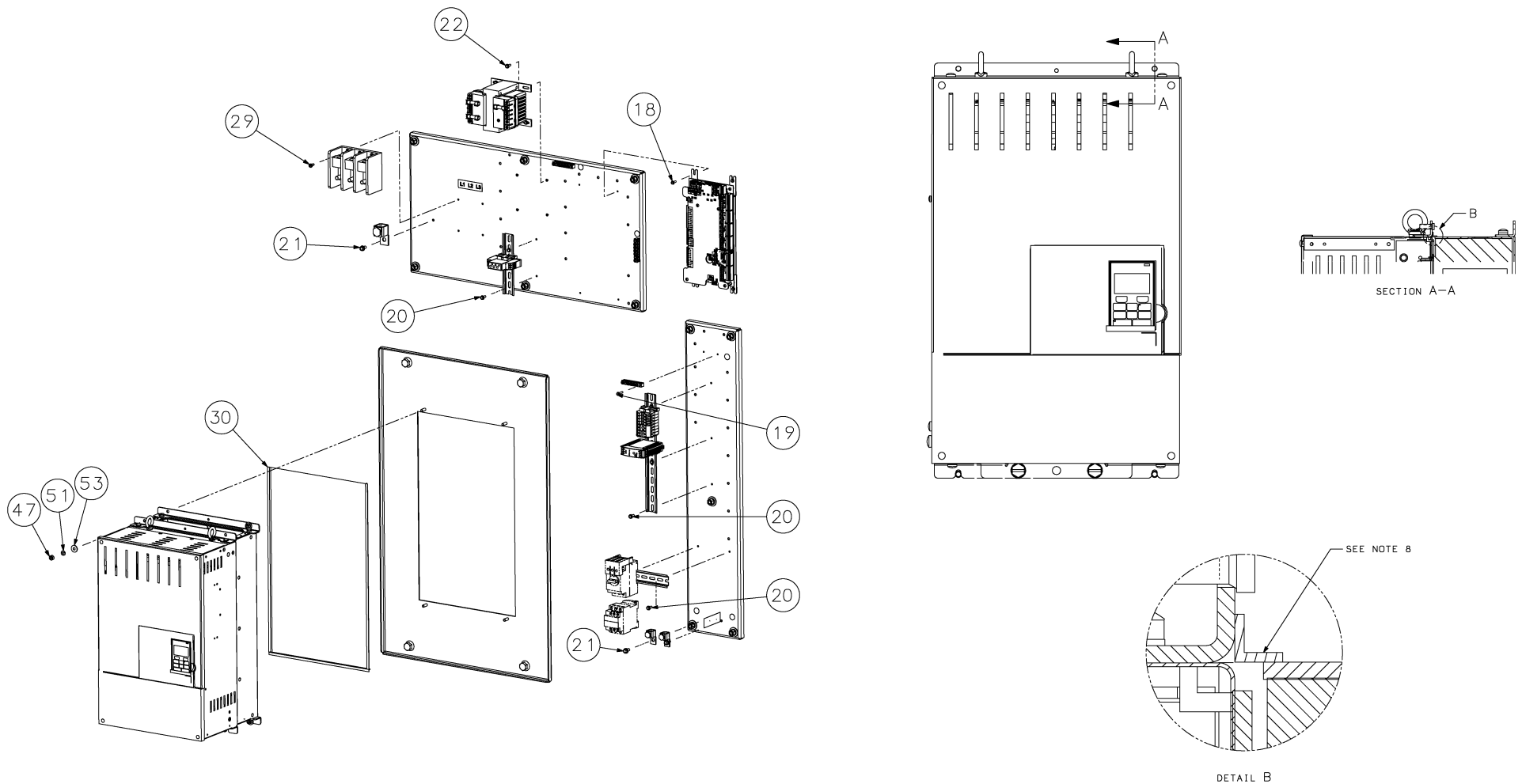
1002-9254 R02 (sh1)

1.39 Control starter (VSD—125 hp, 460V)



1002-9254 R02 (sh2)

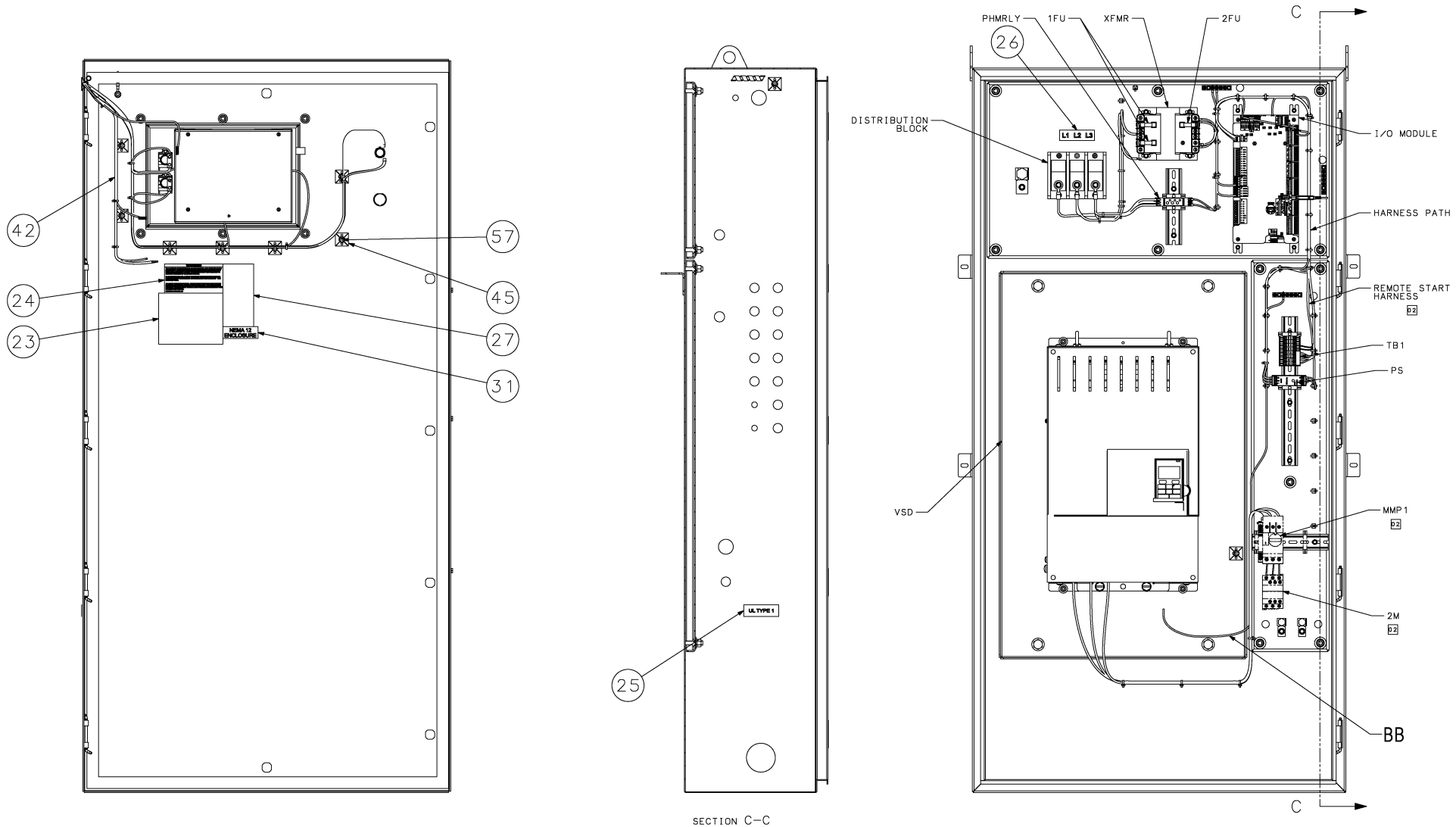
1.39 Control starter (VSD—125 hp, 460V)



1002-9254 R02 (sh3)



1.39 Control starter (VSD—125 hp, 460V)



1002-9254 R02 (sh4)

**1.39 Control starter (VSD—125 hp, 460V)**

| Key | Part number  | Qty | Description                     | Notes |
|-----|--------------|-----|---------------------------------|-------|
| 1   | 02250057-241 | 8   | BLOCK,TERMINAL 45A 600V IEC     |       |
| 2   | 02250057-244 | 1   | BLOCK,TERM END PLATE RK610 CH   |       |
| 3   | 02250057-245 | 4   | BLOCK,TERM END STOP C383 CH     |       |
| 4   | 02250075-045 | 6   | DECAL,PROTECTIVE EARTH GROUND   |       |
| 5   | 02250101-721 | 3   | BAR,GROUNDING 5 POINT           |       |
| 6   | 02250145-194 | 1   | BLOCK,POWER DISTRIBUTION 600V   |       |
| 7   | 02250207-732 | 1   | CAP,ETHERNET PORT NEMA6         |       |
| 8   | 02250214-985 | 29  | CLIP,CABLE TIE PUSH BARB        |       |
| 9   | 02250218-324 | 1   | RAIL,DIN RAIL 12.75IN           |       |
| 10  | 02250218-671 | 2   | RAIL,DIN RAIL 6.5IN             |       |
| 11  | 02250225-306 | 1   | SUPPLY,POWER 24VAC/DC PULS      |       |
| 12  | 02250226-044 | 1   | DRIVE,VSD, 460V 165A IP00       |       |
| 13  | 02250228-105 | 3   | CLIP,TIE HOLDER                 |       |
| 14  | 02250232-525 | 1   | RECEIVER,USB                    |       |
| 15  | 02250241-382 | 2   | LINK,JUMPER 8MM 2 POS           |       |
| 16  | 02250241-383 | 1   | MARKER,TAG, BLANK 8MM           |       |
| 17  | 02250241-424 | 1   | TERMINAL,RING 5/16 X 14-16 AWG  |       |
| 18  | 02250244-437 | 4   | SCREW,TR-TT HEX #8-32 X 1/2"    |       |
| 19  | 02250244-438 | 6   | SCREW,TR-TT HEX #8-32 X 3/4"    |       |
| 20  | 02250244-439 | 7   | SCREW,TR-TT HEX #10-32 X 1/2"   |       |
| 21  | 02250244-441 | 3   | SCREW,TR-TT HEX 1/4-20 X 1/2"   |       |
| 22  | 02250244-444 | 4   | SCREW,TR-TT HEX #10-24 X 1/2"   |       |
| 23  | 02250246-522 | 1   | DECAL,EATON OVLD RLY SETTINGS   |       |
| 24  | 02250246-544 | 1   | DECAL,WARNING CIRCUIT PROTECT   |       |
| 25  | 02250246-668 | 1   | DECAL,TYPE 1 ENCLOSURE          |       |
| 26  | 02250246-669 | 1   | DECAL,FIELD WIRING INPUT        |       |
| 27  | 02250246-671 | 1   | DECAL,FIELD INSTRUCTIONS        |       |
| 28  | 02250246-691 | 1   | PLATE,ADAPT DRV FR 10 TO 12     |       |
| 29  | 02250247-582 | 4   | SCREW,TR-TT PAN 10-24 X 1/2"    |       |
| 30  | 02250248-491 | 14  | SEAL,1/8 THK X 1/2 WD EPDM      |       |
| 31  | 02250250-557 | 1   | DECAL,NEMA 12 ENCLOSURE         |       |
| 32  | 02250250-600 | 1   | RELAY,PH MON 208-460VAC         |       |
| 33  | 02250261-689 | 1   | TRANSFORMER,350VA UNIV VOLT HPS |       |
| 34  | 02250266-609 | 1   | SWITCH ASSEMBLY,E-STOP SCH      |       |
| 35  | 02250266-727 | 1   | DECAL,ESTOP YL RING 60MM SCH    |       |

**1.39 Control starter (VSD—125 hp, 460V)**

| Key | Part number  | Qty | Description                                  | Notes |
|-----|--------------|-----|----------------------------------------------|-------|
| 36  | 02250266-756 | 1   | SUB ASSEMBLY,MODULAR,GLOBAL CONTROLLER 10"   |       |
| 37  | 02250269-819 | 1   | GASKET,GC HMI BEZEL 10"                      |       |
| 38  | 1000-1223    | 1   | SUB ASSEMBLY,MODULAR,I/O MOD GLOBAL          |       |
| 39  | 1003-1770    | 1   | PANEL,SUB VSD TOP LS90-110                   |       |
| 40  | 1003-6680    | 1   | PANEL,SUB VSD RIGHT LS90-110                 |       |
| 41  | 1003-7430    | 1   | ENCLOSURE,START LS90/110 VSD                 |       |
| 42  | 1004-0555    | 1   | SUB ASSEMBLY,MODULAR,LS90/110 VSD HARNESSSES |       |
| 43  | 250019-761   | 1   | FUSE, LIMITRON KTK-R 5.00                    |       |
| 44  | 250026-644   | 2   | FUSE,CLASS CC 2.0A 600V TD                   |       |
| 45  | 409796       | 9   | PLATE,TY-RAP MOUNTING                        |       |
| 46  | 825202-130   | 3   | NUT, HEX PLTD 10-24                          |       |
| 47  | 825204-226   | 5   | NUT, HEX PLTD 1/4-20                         |       |
| 48  | 825206-337   | 11  | NUT,HEX PLTD 3/8-16                          |       |
| 49  | 825908-125   | 6   | NUT, HEX METRIC M8 X 1.25                    |       |
| 50  | 829708-100   | 4   | SCREW, HX SER WASH 1/2 X 1"                  |       |
| 51  | 837504-062   | 5   | WASHER, SPRLOCK REG 1/4"                     |       |
| 52  | 837506-094   | 11  | WASHER, SPRLOCK REG 3/8"                     |       |
| 53  | 838204-071   | 4   | WASHER,PL-B REG PLTD 1/4"                    |       |
| 54  | 838206-071   | 11  | WASHER,PL-B REG PLTD 3/8"                    |       |
| 55  | 838406-040   | 1   | WASHER, LOCK EXT TOOTH 3/8"                  |       |
| 56  | 838808-200   | 6   | WASHER, SPRLOCK METRIC M8                    |       |
| 57  | 843200-023   | 38  | WRAP, TIE NYLON TY23                         |       |
| 58  | 848700-038   | 1   | WRAP, SPIRAL WIRE 3/8" (FT)                  |       |
| 59  | 849215-025   | 2   | LUG, SCRULUG KPA-25 4-1/0                    |       |
| 60  | 849215-028   | 1   | LUG, SCRULUG KPA-28 1/0-4/0                  |       |
| 61  | 850215-016   | 1   | WIRE, MTW/AWM 16GA GRN/YEL STR               |       |
| 62  | 882708-200   | 6   | WASHER, METRIC FLT THIN 8 X 20               |       |

**Drawing notes**

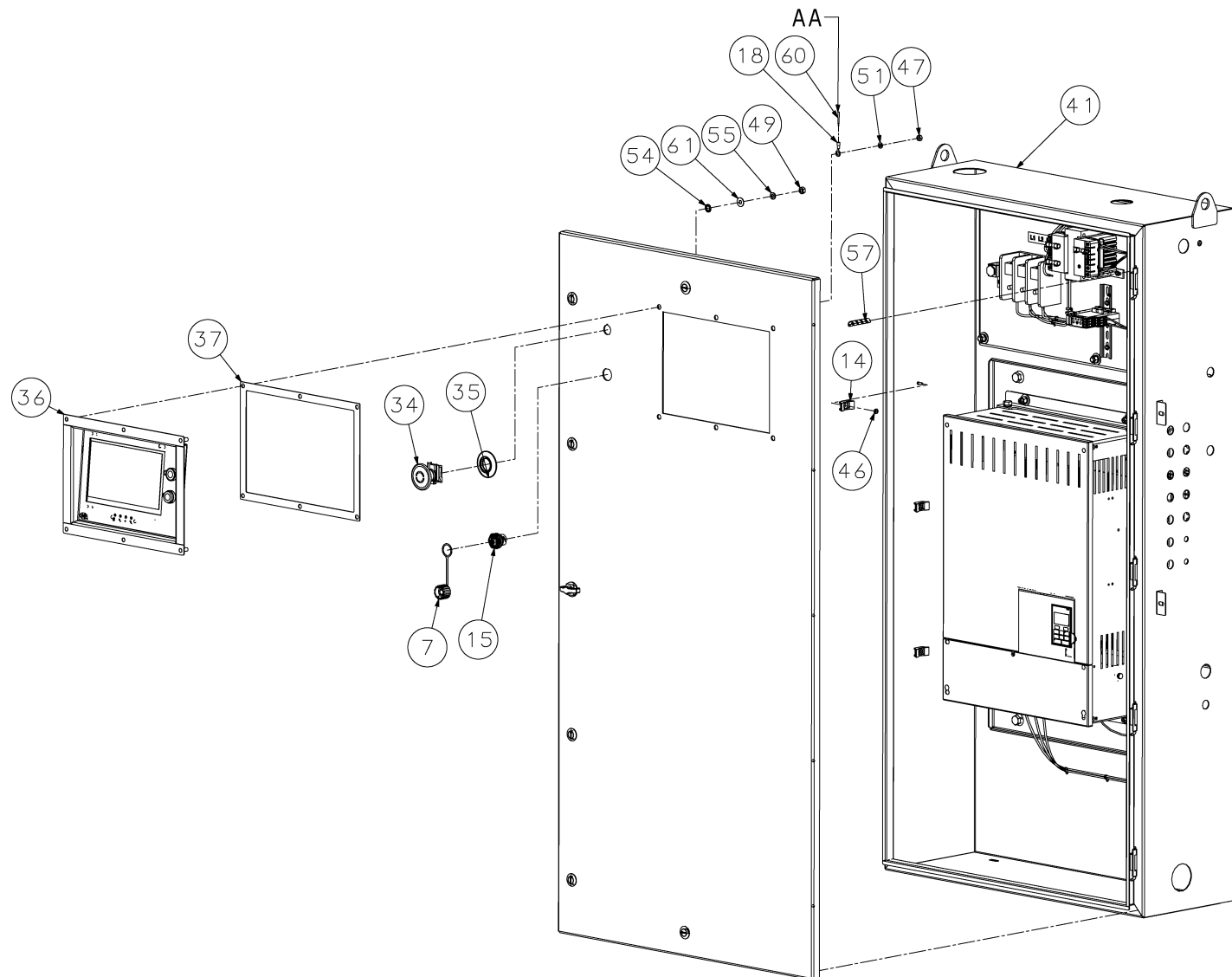
|   |                                                                           |
|---|---------------------------------------------------------------------------|
| 1 | MARK/TAG COMPONENT/CONTAINER WITH SULLAIR PART NUMBER AND REVISION.       |
| 2 | MANUFACTURER: SULLAIR                                                     |
| 3 | ALL CRITICAL COMPONENTS TO BE UL AND CSA LISTED/RECOGNIZED.               |
| 4 | PANEL ASSEMBLY SHALL MEET UL 508A.                                        |
| 5 | WIRE TO/FROM ALL SUPPLIED COMPONENTS PER WIRING DIAGRAM 1003-9614.        |
| 6 | ENCLOSURE TO BE NEMA 12/UL TYPE 1 AFTER ASSEMBLY AT SULLAIR.              |
| 7 | ALL COMPONENTS SHALL BE LABELED WITH COMPONENT NAMES FROM WIRING DIAGRAM. |

1.39 Control starter (VSD—125 hp, 460V)

| Key | Part number                                                                                                      | Qty | Description | Notes |
|-----|------------------------------------------------------------------------------------------------------------------|-----|-------------|-------|
| 8   | REFERENCE DETAIL B FOR GASKET PLACEMENT ON VSD.                                                                  |     |             |       |
| 9   | FOR AA CONNECTION POINTS, CONNECT THE GROUND WIRE TO THE DOOR STUD AND TO THE GROUNDING BAR ABOVE THE I/O BOARD. |     |             |       |
| 10  | FOR BB CONNECTION POINTS, CONNECT USB DOOR PORT TO THE STS DISPLAY.                                              |     |             |       |

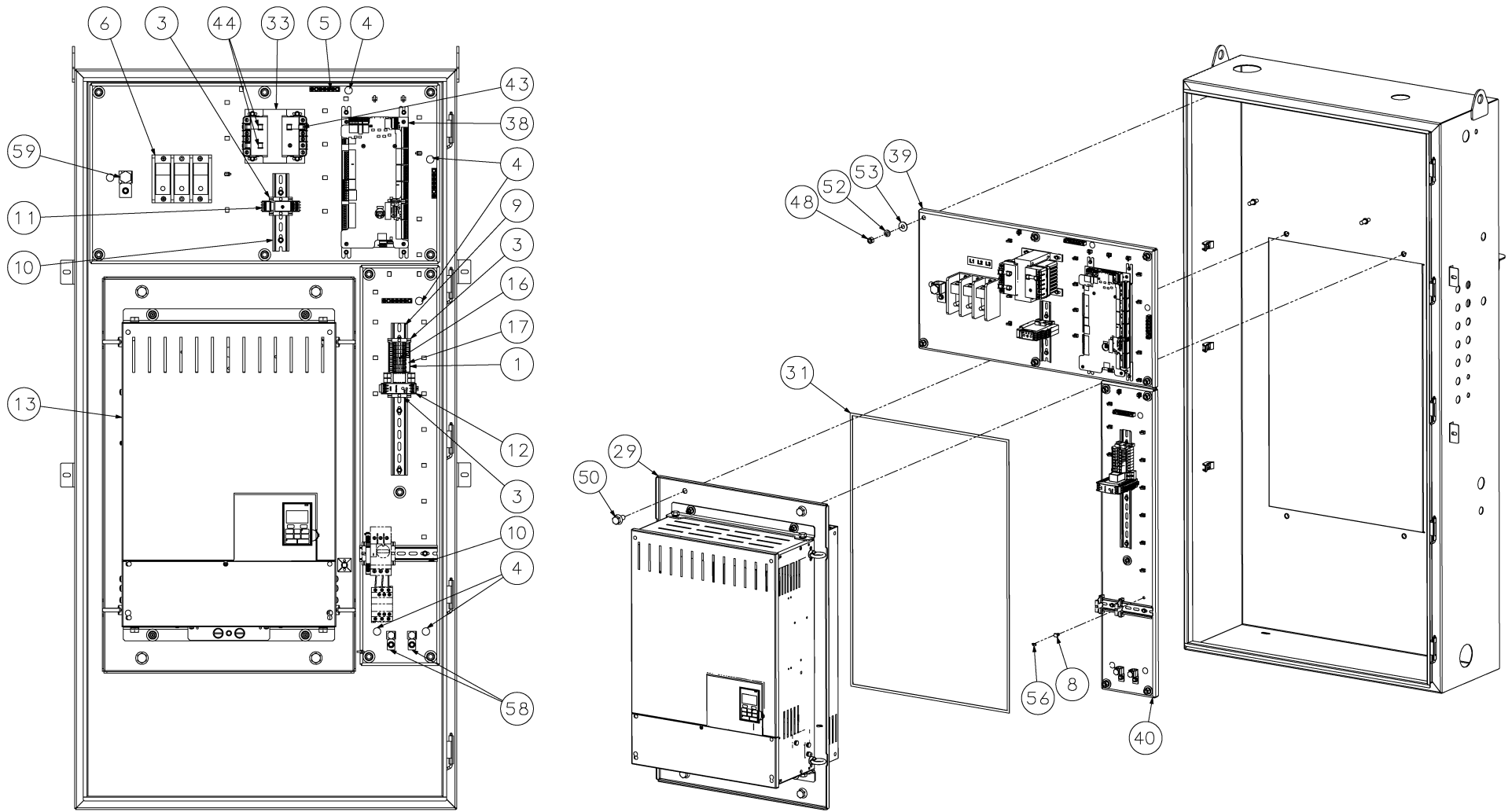
Notes:

## 1.40 Control starter (VSD—125 hp, 575V)



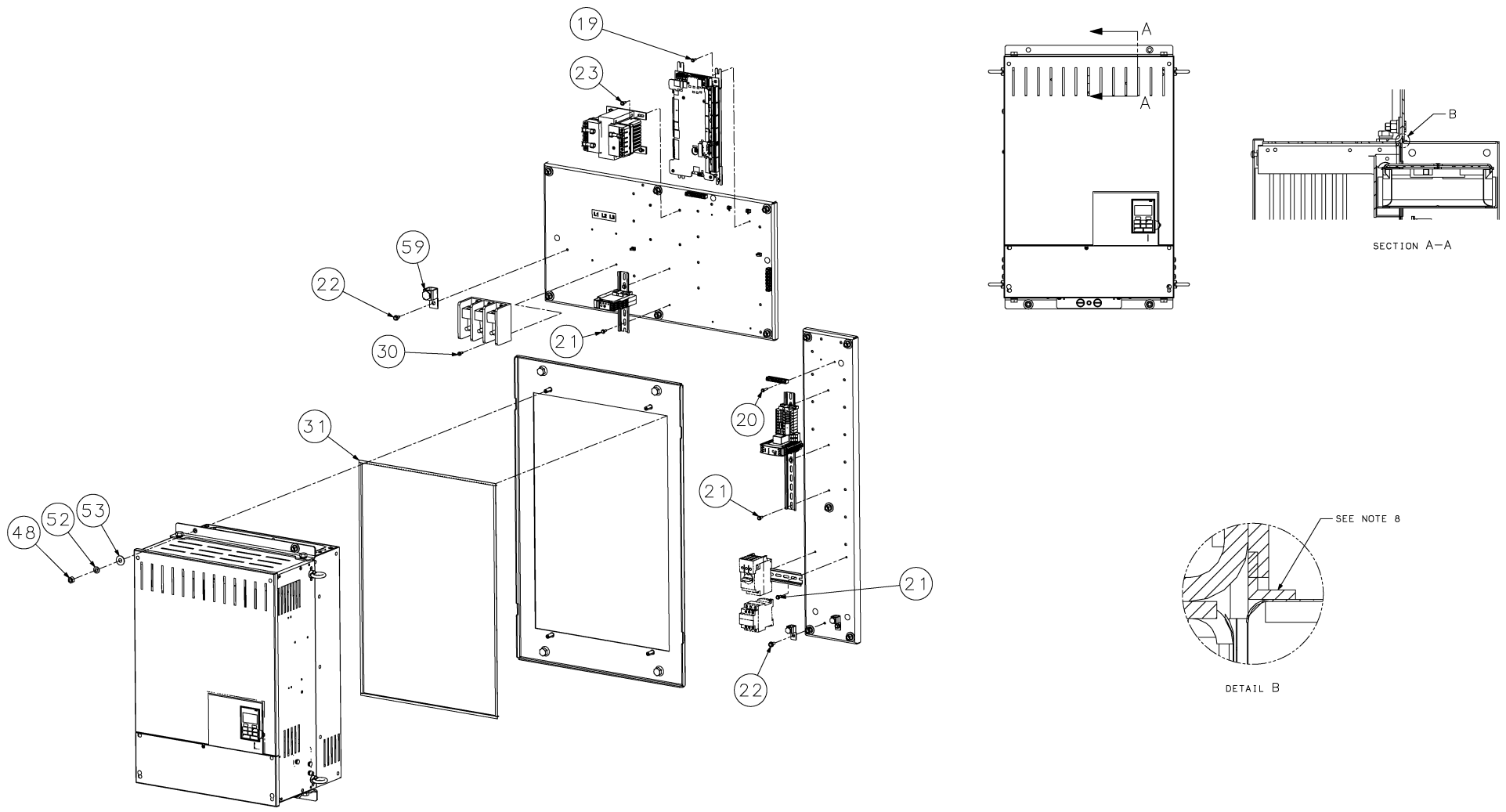
1002-9252 R02 (sh1)

1.40 Control starter (VSD—125 hp, 575V)



1002-9252 R02 (sh2)

1.40 Control starter (VSD—125 hp, 575V)

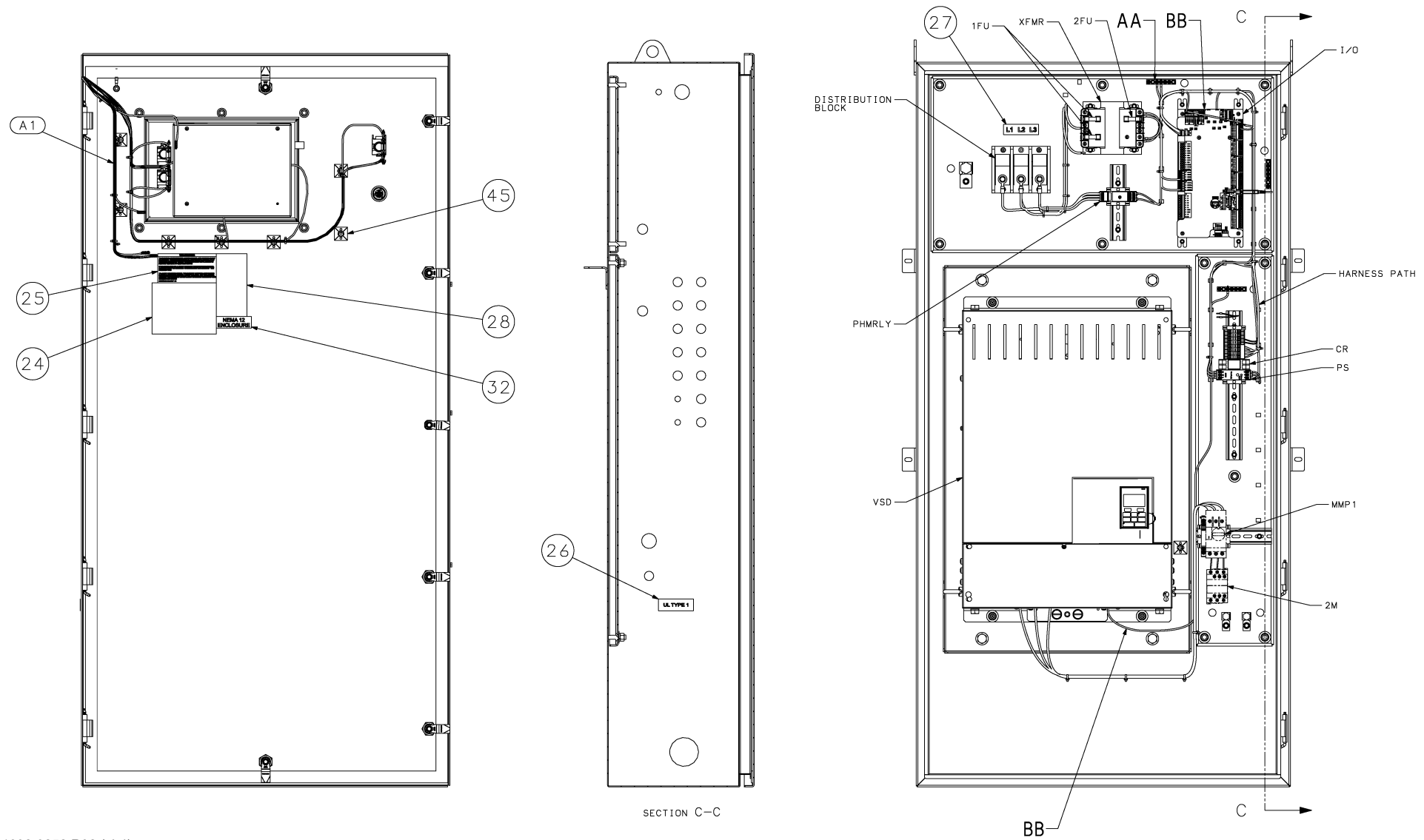


1002-9252 R02 (sh3)



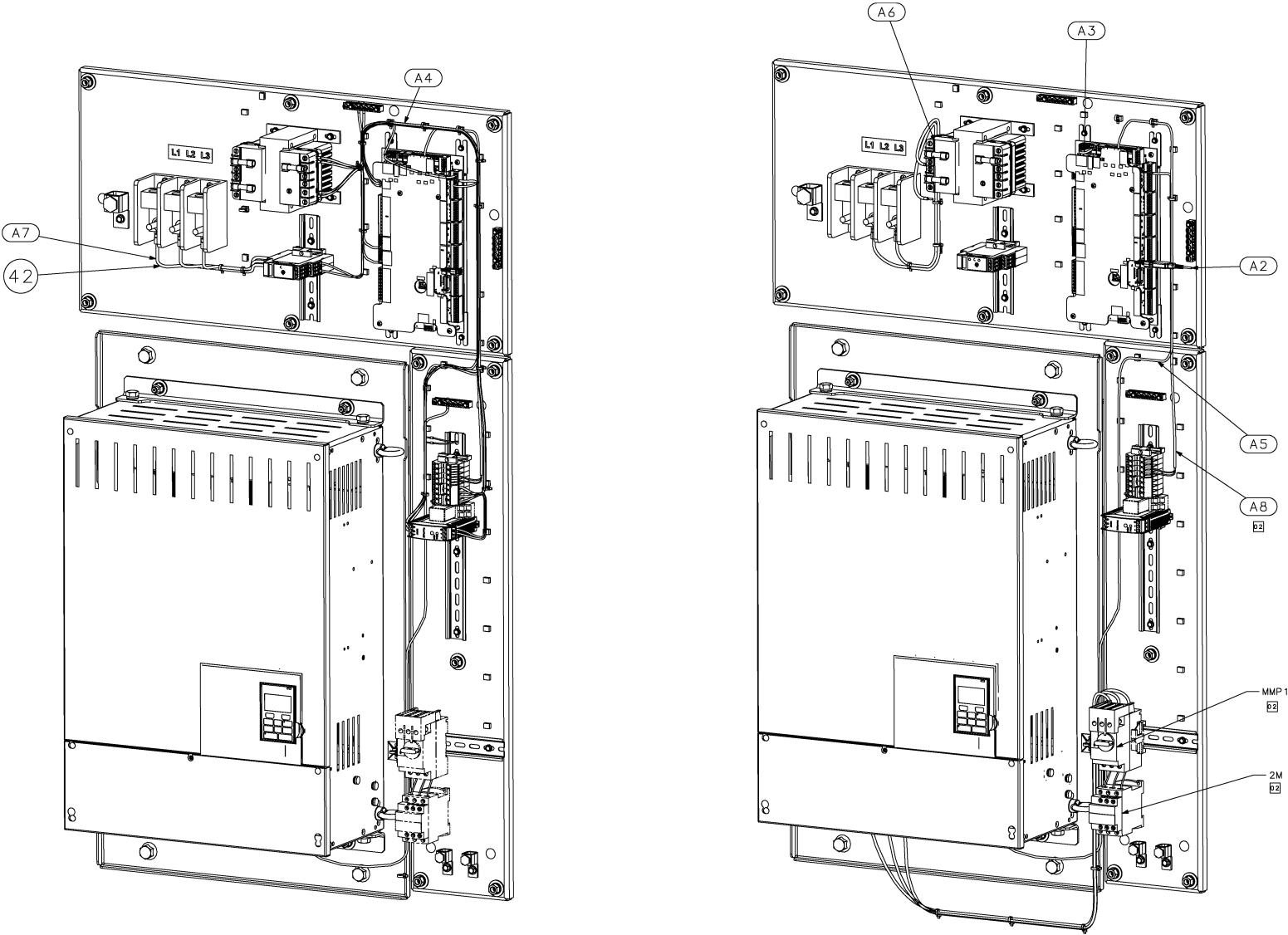
02250231-031 R07  
Subject to EAR, ECCN EAR99 and related export control restrictions.

1.40 Control starter (VSD—125 hp, 575V)



1002-9252 R02 (sh4)

1.40 Control starter (VSD—125 hp, 575V)



1002-9252 R02 (sh5)

**1.40 Control starter (VSD—125 hp, 575V)**

| Key | Part number  | Qty | Description                      | Notes |
|-----|--------------|-----|----------------------------------|-------|
| 1   | 02250057-241 | 8   | BLOCK, TERMINAL 45A 600V IEC     |       |
| 2   | 02250057-244 | 1   | BLOCK, TERM END PLATE RK610 CH   |       |
| 3   | 02250057-245 | 4   | BLOCK, TERM END STOP C383 CH     |       |
| 4   | 02250075-045 | 6   | DECAL, PROTECTIVE EARTH GROUND   |       |
| 5   | 02250101-721 | 3   | BAR, GROUNDING 5 POINT           |       |
| 6   | 02250145-194 | 1   | BLOCK, POWER DISTRIBUTION 600V   |       |
| 7   | 02250207-732 | 1   | CAP, ETHERNET PORT NEMA6         |       |
| 8   | 02250214-985 | 29  | CLIP, CABLE TIE PUSH BARB        |       |
| 9   | 02250218-324 | 1   | RAIL, DIN RAIL 12.75IN           |       |
| 10  | 02250218-671 | 2   | RAIL, DIN RAIL 6.5IN             |       |
| 11  | 02250225-305 | 1   | RELAY, OVERLOAD & UND VOLT PM    |       |
| 12  | 02250225-306 | 1   | SUPPLY, POWER 24VAC/DC PULS      |       |
| 13  | 02250226-046 | 1   | DRIVE, VSD 575V 145A IP00        |       |
| 14  | 02250228-105 | 3   | CLIP, TIE HOLDER                 |       |
| 15  | 02250232-525 | 1   | RECEIVER, USB                    |       |
| 16  | 02250241-382 | 2   | LINK, JUMPER 8MM 2 POS           |       |
| 17  | 02250241-383 | 1   | MARKER, TAG, BLANK 8MM           |       |
| 18  | 02250241-424 | 1   | TERMINAL, RING 5/16 X 14-16 AWG  |       |
| 19  | 02250244-437 | 4   | SCREW, TR-TT HEX #8-32 X 1/2"    |       |
| 20  | 02250244-438 | 6   | SCREW, TR-TT HEX #8-32 X 3/4"    |       |
| 21  | 02250244-439 | 7   | SCREW, TR-TT HEX #10-32 X 1/2"   |       |
| 22  | 02250244-441 | 3   | SCREW, TR-TT HEX 1/4-20 X 1/2"   |       |
| 23  | 02250244-444 | 4   | SCREW, TR-TT HEX #10-24 X 1/2"   |       |
| 24  | 02250246-522 | 1   | DECAL, EATON OVLD RLY SETTINGS   |       |
| 25  | 02250246-544 | 1   | DECAL, WARNING CIRCUIT PROTECT   |       |
| 26  | 02250246-668 | 1   | DECAL, TYPE 1 ENCLOSURE          |       |
| 27  | 02250246-669 | 1   | DECAL, FIELD WIRING INPUT        |       |
| 28  | 02250246-671 | 1   | DECAL, FIELD INSTRUCTIONS        |       |
| 29  | 02250246-692 | 1   | PLATE, ADAPT DRV FR 11 TO 12     |       |
| 30  | 02250247-582 | 4   | SCREW, TR-TT PAN 10-24 X 1/2"    |       |
| 31  | 02250248-491 | 16  | SEAL, 1/8 THK X 1/2 WD EPDM      |       |
| 32  | 02250250-557 | 1   | DECAL, NEMA 12 ENCLOSURE         |       |
| 33  | 02250261-689 | 1   | TRANSFORMER, 350VA UNIV VOLT HPS |       |
| 34  | 02250266-609 | 1   | SWITCH ASSEMBLY, E-STOP SCH      |       |
| 35  | 02250266-727 | 1   | DECAL, ESTOP YL RING 60MM SCH    |       |

**1.40 Control starter (VSD—125 hp, 575V)**

| Key | Part number  | Qty | Description                                  | Notes |
|-----|--------------|-----|----------------------------------------------|-------|
| 36  | 02250266-756 | 1   | SUB ASSEMBLY,MODULAR,GLOBAL CONTROLLER 10"   |       |
| 37  | 02250269-819 | 1   | GASKET,GC HMI BEZEL 10"                      |       |
| 38  | 1000-1223    | 1   | SUB ASSEMBLY,MODULAR,I/O MOD GLOBAL          |       |
| 39  | 1003-1770    | 1   | PANEL,SUB VSD TOP LS90-110                   |       |
| 40  | 1003-6680    | 1   | PANEL,SUB VSD RIGHT LS90-110                 |       |
| 41  | 1003-7430    | 1   | ENCLOSURE,START LS90/110 VSD                 |       |
| 42  | 1004-0555    | 1   | SUB ASSEMBLY,MODULAR,LS90/110 VSD HARNESSSES |       |
| 43  | 250019-761   | 1   | FUSE, LIMITRON KTK-R 5.00                    |       |
| 44  | 250026-644   | 2   | FUSE,CLASS CC 2.0A 600V TD                   |       |
| 45  | 409796       | 9   | PLATE,TY-RAP MOUNTING                        |       |
| 46  | 825202-130   | 3   | NUT, HEX PLTD 10-24                          |       |
| 47  | 825204-226   | 1   | NUT, HEX PLTD 1/4-20                         |       |
| 48  | 825206-337   | 15  | NUT,HEX PLTD 3/8-16                          |       |
| 49  | 825908-125   | 6   | NUT, HEX METRIC M8 X 1.25                    |       |
| 50  | 829708-100   | 4   | SCREW, HX SER WASH 1/2 X 1"                  |       |
| 51  | 837504-062   | 1   | WASHER, SPRLOCK REG 1/4"                     |       |
| 52  | 837506-094   | 15  | WASHER, SPRLOCK REG 3/8"                     |       |
| 53  | 838206-071   | 15  | WASHER,PL-B REG PLTD 3/8"                    |       |
| 54  | 838406-040   | 1   | WASHER, LOCK EXT TOOTH 3/8"                  |       |
| 55  | 838808-200   | 6   | WASHER, SPRLOCK METRIC M8                    |       |
| 56  | 843200-023   | 38  | WRAP, TIE NYLON TY23                         |       |
| 57  | 848700-038   | 1   | WRAP, SPIRAL WIRE 3/8" (FT)                  |       |
| 58  | 849215-025   | 2   | LUG, SCRULUG KPA-25 4-1/0                    |       |
| 59  | 849215-028   | 1   | LUG, SCRULUG KPA-28 1/0-4/0                  |       |
| 60  | 850215-016   | 3   | WIRE, MTW/AWM 16GA GRN/YEL STR               |       |
| 61  | 882708-200   | 6   | WASHER, METRIC FLT THIN 8 X 20               |       |

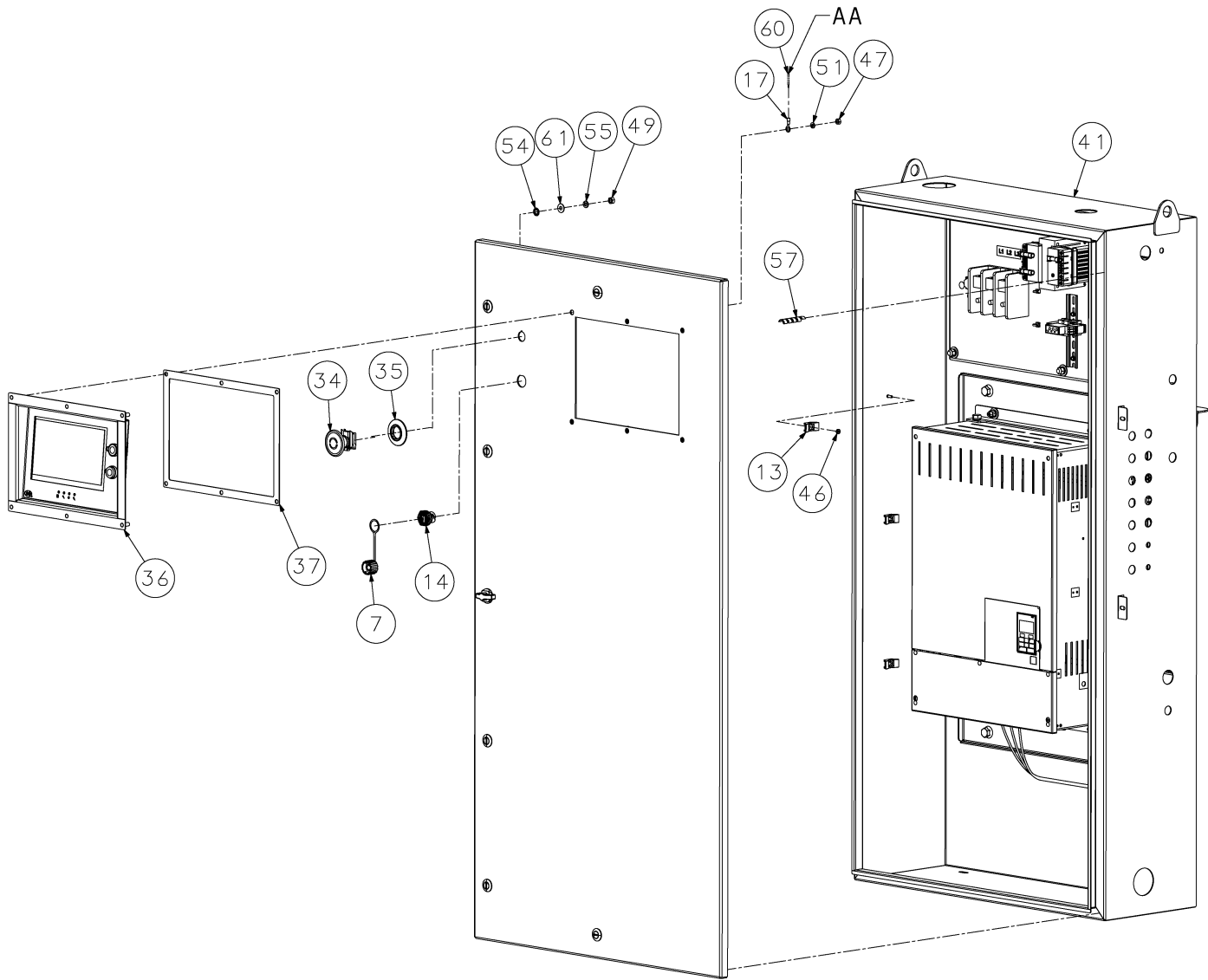
**Drawing notes**

|   |                                                                           |
|---|---------------------------------------------------------------------------|
| 1 | MARK/TAG COMPONENT/CONTAINER WITH SULLAIR PART NUMBER AND REVISION.       |
| 2 | MANUFACTURER: SULLAIR                                                     |
| 3 | ALL CRITICAL COMPONENTS TO BE UL AND CSA LISTED/RECOGNIZED.               |
| 4 | PANEL ASSEMBLY SHALL MEET UL 508A.                                        |
| 5 | WIRE TO/FROM ALL SUPPLIED COMPONENTS PER WIRING DIAGRAM 1003-9614.        |
| 6 | ENCLOSURE TO BE NEMA 12/UL TYPE 1 AFTER ASSEMBLY AT SULLAIR.              |
| 7 | ALL COMPONENTS SHALL BE LABELED WITH COMPONENT NAMES FROM WIRING DIAGRAM. |
| 8 | REFERENCE DETAIL B FOR GASKET PLACEMENT ON VSD.                           |

1.40 Control starter (VSD—125 hp, 575V)

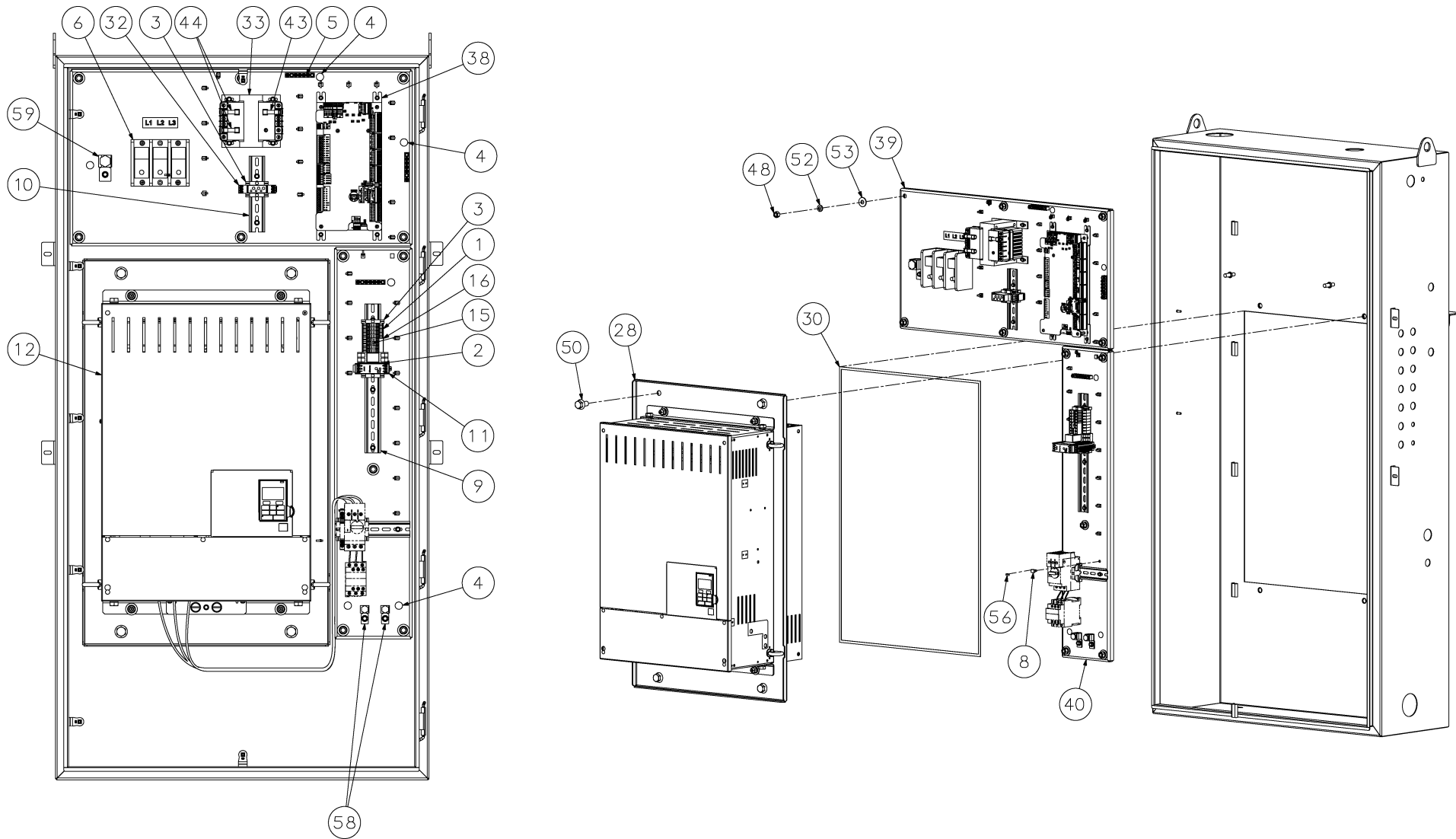
| Key | Part number                                                                                                      | Qty | Description | Notes |
|-----|------------------------------------------------------------------------------------------------------------------|-----|-------------|-------|
| 9   | FOR AA CONNECTION POINTS, CONNECT THE GROUND WIRE TO THE DOOR STUD AND TO THE GROUNDING BAR ABOVE THE I/O BOARD. |     |             |       |
| 10  | FOR BB CONNECTION POINTS, CONNECT USB DOOR PORT TO THE STS DISPLAY.                                              |     |             |       |
| A1  | STS 2.0 HARNESS                                                                                                  |     |             |       |
| A2  | USB CABLE                                                                                                        |     |             |       |
| A3  | E-STOP JUMPER                                                                                                    |     |             |       |
| A4  | POWER HARNESS                                                                                                    |     |             |       |
| A5  | VSD HARNESS                                                                                                      |     |             |       |
| A6  | TRANSFORMER HARNESS                                                                                              |     |             |       |
| A7  | PHASE MONITOR HARNESS                                                                                            |     |             |       |
| A8  | REMOTE START HARNESS                                                                                             |     |             |       |

1.41 Control starter (VSD—150 hp, 460V)



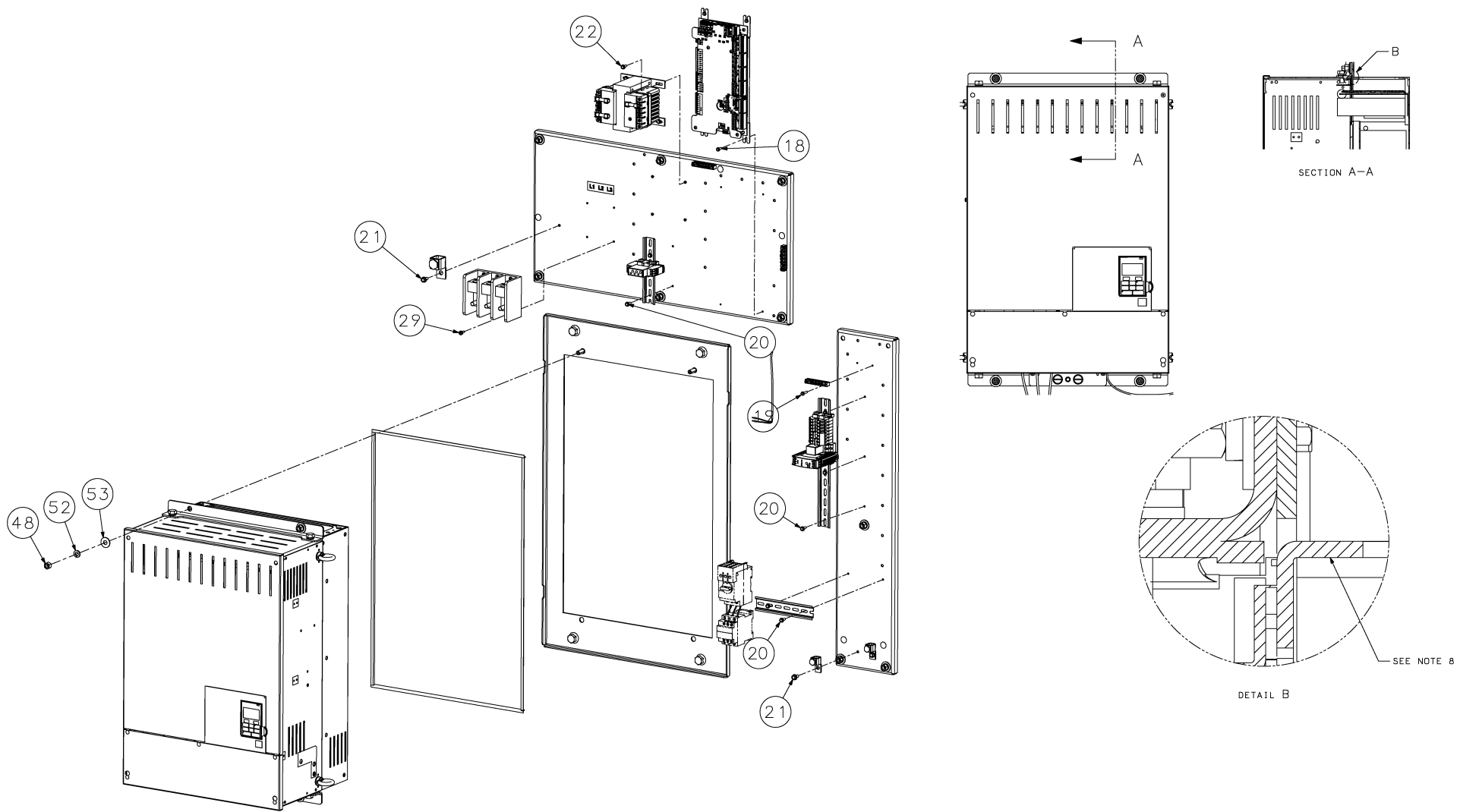
1002-9253 R02 (sh1)

1.41 Control starter (VSD—150 hp, 460V)



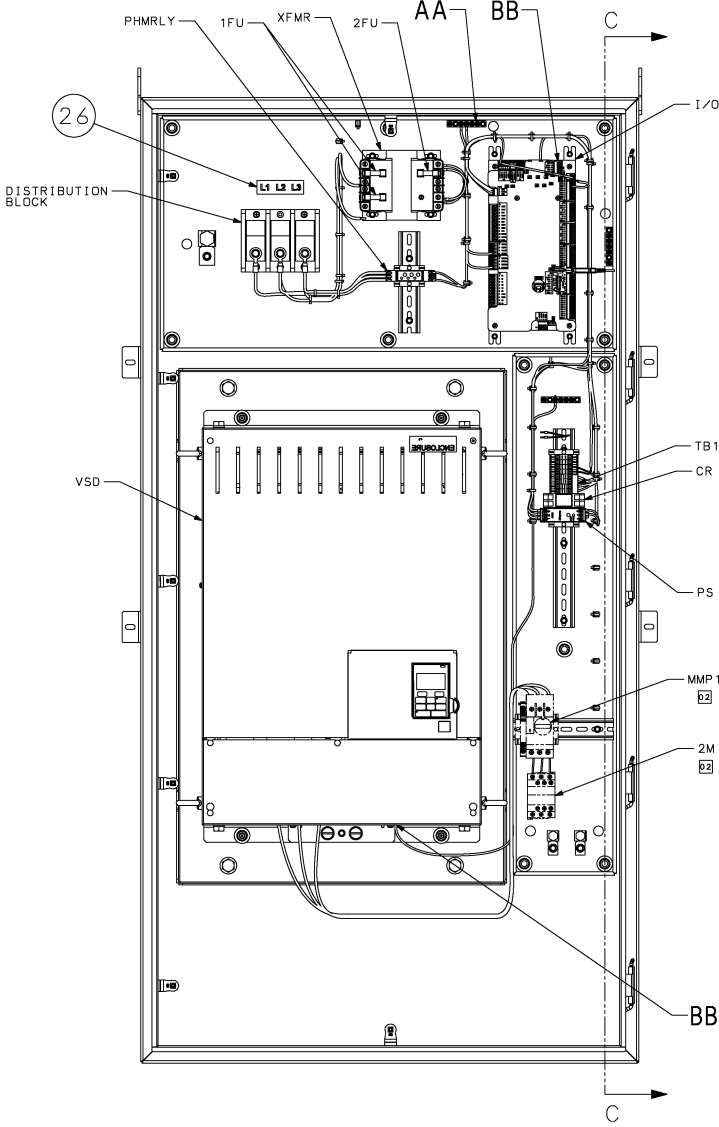
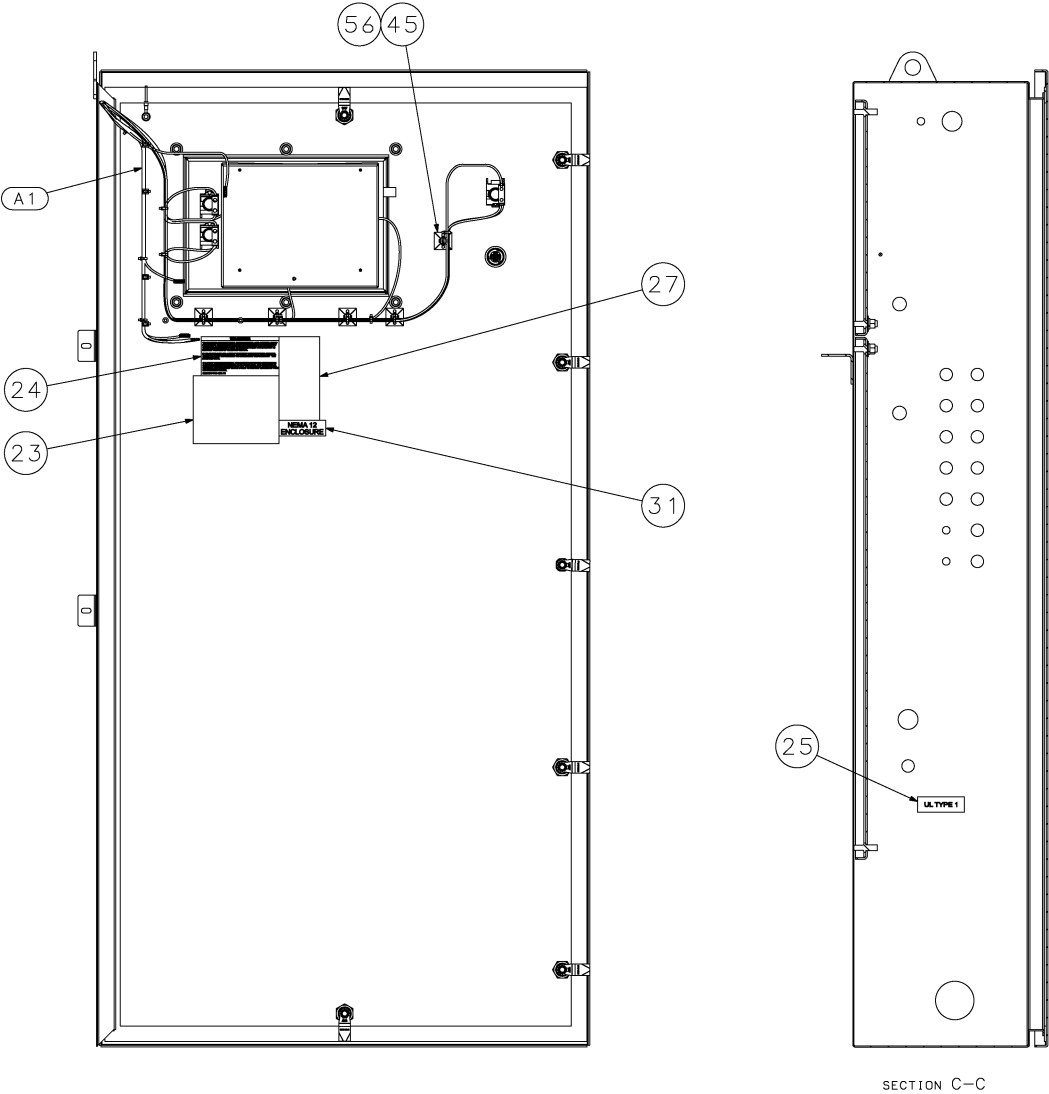
1002-9253 R02 (sh2)

1.41 Control starter (VSD—150 hp, 460V)



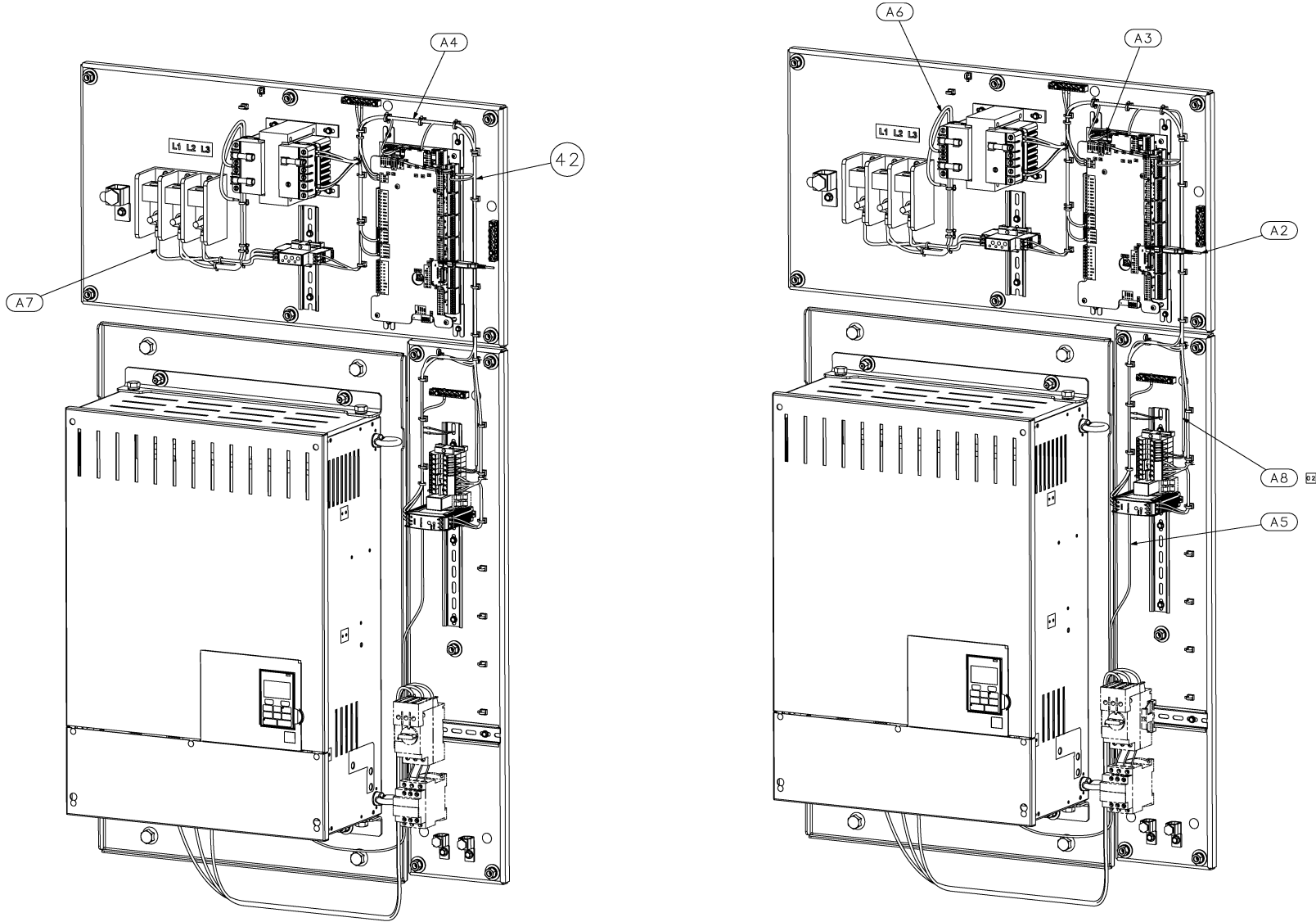
1002-9253 R02 (sh3)

1.41 Control starter (VSD—150 hp, 460V)



1002-9253 R02 (sh4)

1.41 Control starter (VSD—150 hp, 460V)



1002-9253 R02 (sh5)

**1.41 Control starter (VSD—150 hp, 460V)**

| Key | Part number  | Qty | Description                    | Notes |
|-----|--------------|-----|--------------------------------|-------|
| 1   | 02250057-241 | 8   | BLOCK,TERMINAL 45A 600V IEC    |       |
| 2   | 02250057-244 | 1   | BLOCK,TERM END PLATE RK610 CH  |       |
| 3   | 02250057-245 | 4   | BLOCK,TERM END STOP C383 CH    |       |
| 4   | 02250075-045 | 6   | DECAL,PROTECTIVE EARTH GROUND  |       |
| 5   | 02250101-721 | 3   | BAR,GROUNDING 5 POINT          |       |
| 6   | 02250145-194 | 1   | BLOCK,POWER DISTRIBUTION 600V  |       |
| 7   | 02250207-732 | 1   | CAP,ETHERNET PORT NEMA6        |       |
| 8   | 02250214-985 | 29  | CLIP,CABLE TIE PUSH BARB       |       |
| 9   | 02250218-324 | 1   | RAIL,DIN RAIL 12.75IN          |       |
| 10  | 02250218-671 | 2   | RAIL,DIN RAIL 6.5IN            |       |
| 11  | 02250225-306 | 1   | SUPPLY,POWER 24VAC/DC PULS     |       |
| 12  | 02250226-045 | 1   | DRIVE,VSD 460V 208A IP00       |       |
| 13  | 02250228-105 | 3   | CLIP,TIE HOLDER                |       |
| 14  | 02250232-525 | 1   | RECEIVER,USB                   |       |
| 15  | 02250241-382 | 2   | LINK,JUMPER 8MM 2 POS          |       |
| 16  | 02250241-383 | 1   | MARKER,TAG, BLANK 8MM          |       |
| 17  | 02250241-424 | 1   | TERMINAL,RING 5/16 X 14-16 AWG |       |
| 18  | 02250244-437 | 4   | SCREW,TR-TT HEX #8-32 X 1/2"   |       |
| 19  | 02250244-438 | 6   | SCREW,TR-TT HEX #8-32 X 3/4"   |       |
| 20  | 02250244-439 | 7   | SCREW,TR-TT HEX #10-32 X 1/2"  |       |
| 21  | 02250244-441 | 3   | SCREW,TR-TT HEX 1/4-20 X 1/2"  |       |
| 22  | 02250244-444 | 4   | SCREW,TR-TT HEX #10-24 X 1/2"  |       |
| 23  | 02250246-522 | 1   | DECAL,EATON OVLD RLY SETTINGS  |       |
| 24  | 02250246-544 | 1   | DECAL,WARNING CIRCUIT PROTECT  |       |
| 25  | 02250246-668 | 1   | DECAL,TYPE 1 ENCLOSURE         |       |
| 26  | 02250246-669 | 1   | DECAL,FIELD WIRING INPUT       |       |
| 27  | 02250246-671 | 1   | DECAL,FIELD INSTRUCTIONS       |       |
| 28  | 02250246-692 | 1   | PLATE,ADAPT DRV FR 11 TO 12    |       |
| 29  | 02250247-582 | 4   | SCREW,TR-TT PAN 10-24 X 1/2"   |       |
| 30  | 02250248-491 | 16  | SEAL,1/8 THK X 1/2 WD EPDM     | FEET  |
| 31  | 02250250-557 | 1   | DECAL,NEMA 12 ENCLOSURE        |       |
| 32  | 02250250-600 | 1   | RELAY,PH MON 208-460VAC        |       |

**1.41 Control starter (VSD—150 hp, 460V)**

| Key | Part number  | Qty | Description                                  | Notes |
|-----|--------------|-----|----------------------------------------------|-------|
| 33  | 02250261-689 | 1   | TRANSFORMER,350VA UNIV VOLT HPS              |       |
| 34  | 02250266-609 | 1   | SWITCH ASSEMBLY,E-STOP SCH                   |       |
| 35  | 02250266-727 | 1   | DECAL,ESTOP YL RING 60MM SCH                 |       |
| 36  | 02250266-756 | 1   | SUB ASSEMBLY,MODULAR,GLOBAL CONTROLLER 10"   |       |
| 37  | 02250269-819 | 1   | GASKET,GC HMI BEZEL 10"                      |       |
| 38  | 1000-1223    | 1   | SUB ASSEMBLY,MODULAR,I/O MOD GLOBAL          |       |
| 39  | 1003-1770    | 1   | PANEL,SUB VSD TOP LS90-110                   |       |
| 40  | 1003-6680    | 1   | PANEL,SUB VSD RIGHT LS90-110                 |       |
| 41  | 1003-7430    | 1   | ENCLOSURE,START LS90/110 VSD                 |       |
| 42  | 1004-0555    | 1   | SUB ASSEMBLY,MODULAR,LS90/110 VSD HARNESSSES |       |
| 43  | 250019-761   | 1   | FUSE, LIMITRON KTK-R 5.00                    |       |
| 44  | 250026-644   | 2   | FUSE,CLASS CC 2.0A 600V TD                   |       |
| 45  | 409796       | 8   | PLATE,TY-RAP MOUNTING                        |       |
| 46  | 825202-130   | 3   | NUT, HEX PLTD 10-24                          |       |
| 47  | 825204-226   | 1   | NUT, HEX PLTD 1/4-20                         |       |
| 48  | 825206-337   | 15  | NUT,HEX PLTD 3/8-16                          |       |
| 49  | 825908-125   | 6   | NUT, HEX METRIC M8 X 1.25                    |       |
| 50  | 829708-100   | 4   | SCREW, HX SER WASH 1/2 X 1"                  |       |
| 51  | 837504-062   | 1   | WASHER, SPRLOCK REG 1/4"                     |       |
| 52  | 837506-094   | 15  | WASHER, SPRLOCK REG 3/8"                     |       |
| 53  | 838206-071   | 15  | WASHER,PL-B REG PLTD 3/8"                    |       |
| 54  | 838406-040   | 1   | WASHER, LOCK EXT TOOTH 3/8"                  |       |
| 55  | 838808-200   | 6   | WASHER, SPRLOCK METRIC M8                    |       |
| 56  | 843200-023   | 36  | WRAP, TIE NYLON TY23                         |       |
| 57  | 848700-038   | 1   | WRAP, SPIRAL WIRE 3/8" (FT)                  | FEET  |
| 58  | 849215-025   | 2   | LUG, SCRULUG KPA-25 4-1/0                    |       |
| 59  | 849215-028   | 1   | LUG, SCRULUG KPA-28 1/0-4/0                  |       |
| 60  | 850215-016   | 1   | WIRE, MTW/AWM 16GA GRN/YEL STR               |       |
| 61  | 882708-200   | 6   | WASHER, METRIC FLT THIN 8 X 20               |       |

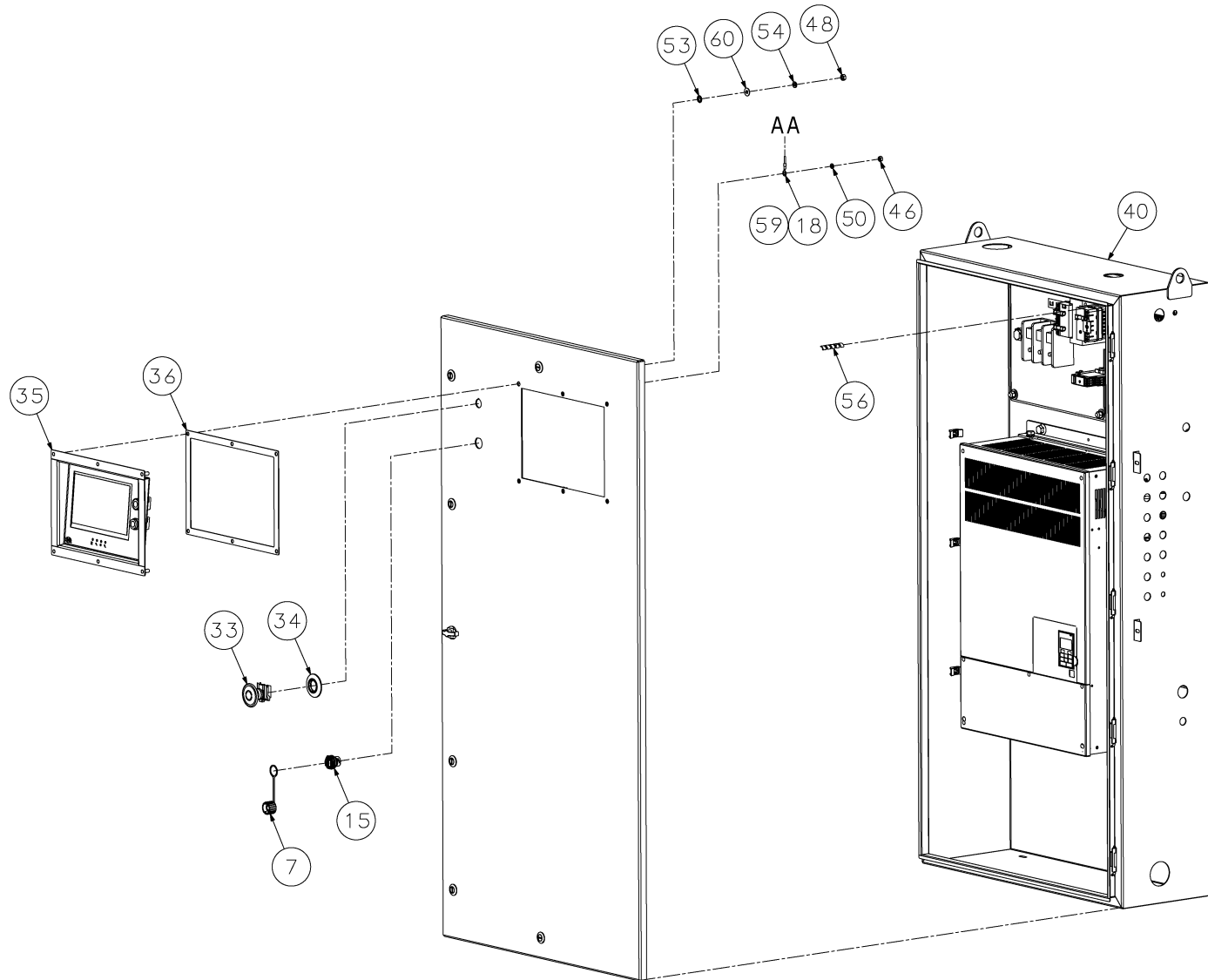
**Drawing notes**

|   |                                                                     |
|---|---------------------------------------------------------------------|
| 1 | MARK/TAG COMPONENT/CONTAINER WITH SULLAIR PART NUMBER AND REVISION. |
| 2 | MANUFACTURER: SULLAIR                                               |

**1.41 Control starter (VSD—150 hp, 460V)**

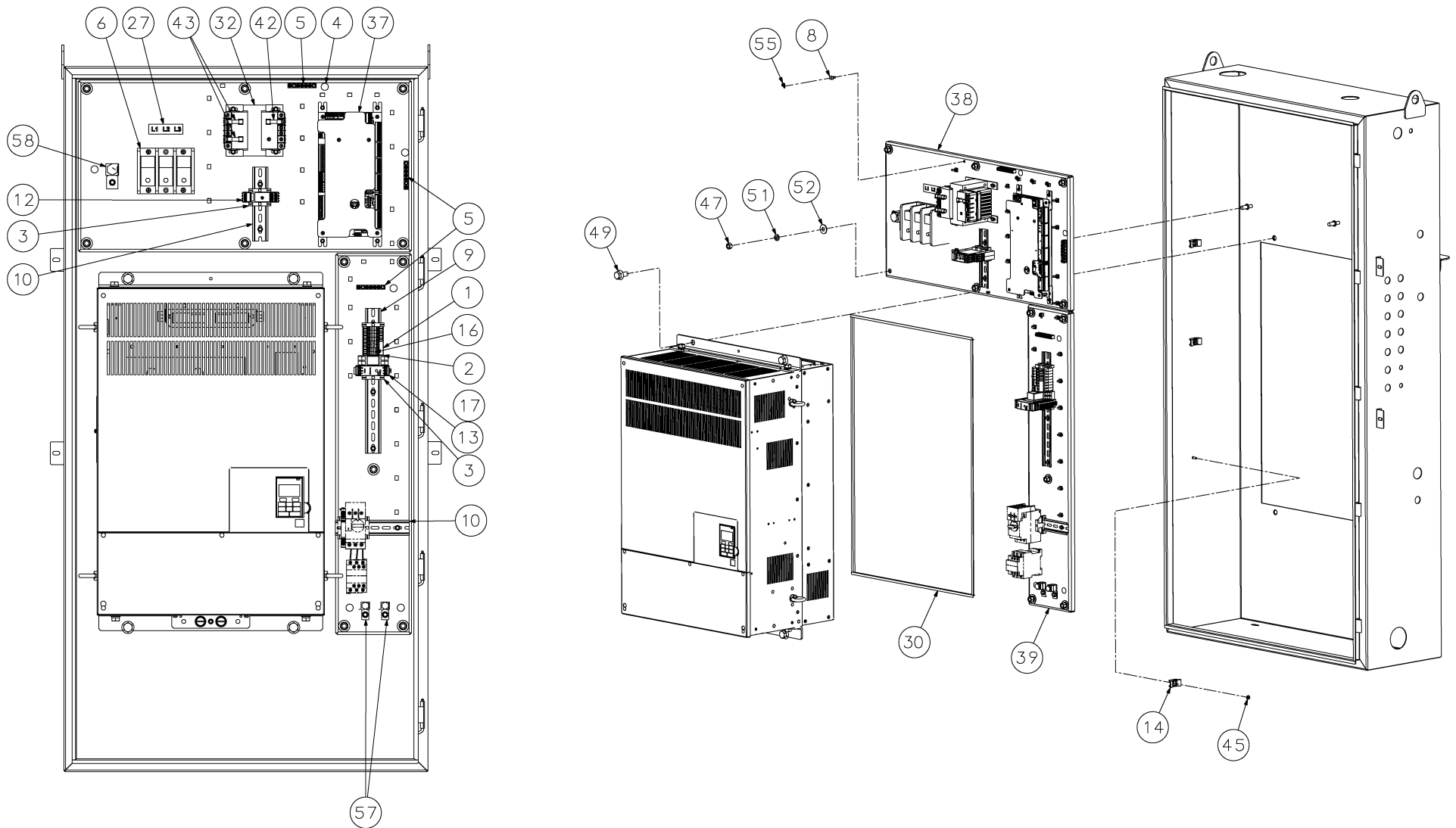
| Key | Part number                                                                                                      | Qty | Description | Notes |
|-----|------------------------------------------------------------------------------------------------------------------|-----|-------------|-------|
| 3   | ALL CRITICAL COMPONENTS TO BE UL AND CSA LISTED/RECOGNIZED.                                                      |     |             |       |
| 4   | PANEL ASSEMBLY SHALL MEET UL 508A.                                                                               |     |             |       |
| 5   | WIRE TO/FROM ALL SUPPLIED COMPONENTS PER WIRING DIAGRAM 1003-9614.                                               |     |             |       |
| 6   | ENCLOSURE TO BE NEMA 12/UL TYPE 1 AFTER ASSEMBLY AT SULLAIR.                                                     |     |             |       |
| 7   | ALL COMPONENTS SHALL BE LABELED WITH COMPONENT NAMES FROM WIRING DIAGRAM.                                        |     |             |       |
| 8   | REFERENCE DETAIL B FOR GASKET PLACEMENT ON VSD.                                                                  |     |             |       |
| 9   | FOR AA CONNECTION POINTS, CONNECT THE GROUND WIRE TO THE DOOR STUD AND TO THE GROUNDING BAR ABOVE THE I/O BOARD. |     |             |       |
| 10  | FOR BB CONNECTION POINTS, CONNECT USB DOOR PORT TO THE STS DISPLAY.                                              |     |             |       |
| A1  | STS 2.0 HARNESS                                                                                                  |     |             |       |
| A2  | USB CABLE                                                                                                        |     |             |       |
| A3  | E-STOP JUMPER                                                                                                    |     |             |       |
| A4  | POWER HARNESS                                                                                                    |     |             |       |
| A5  | VSD HARNESS                                                                                                      |     |             |       |
| A6  | TRANSFORMER HARNESS                                                                                              |     |             |       |
| A7  | PHASE MONITOR HARNESS                                                                                            |     |             |       |
| A8  | REMOTE START HARNESS                                                                                             |     |             |       |

## 1.42 Control starter (VSD—150 hp, 575V)



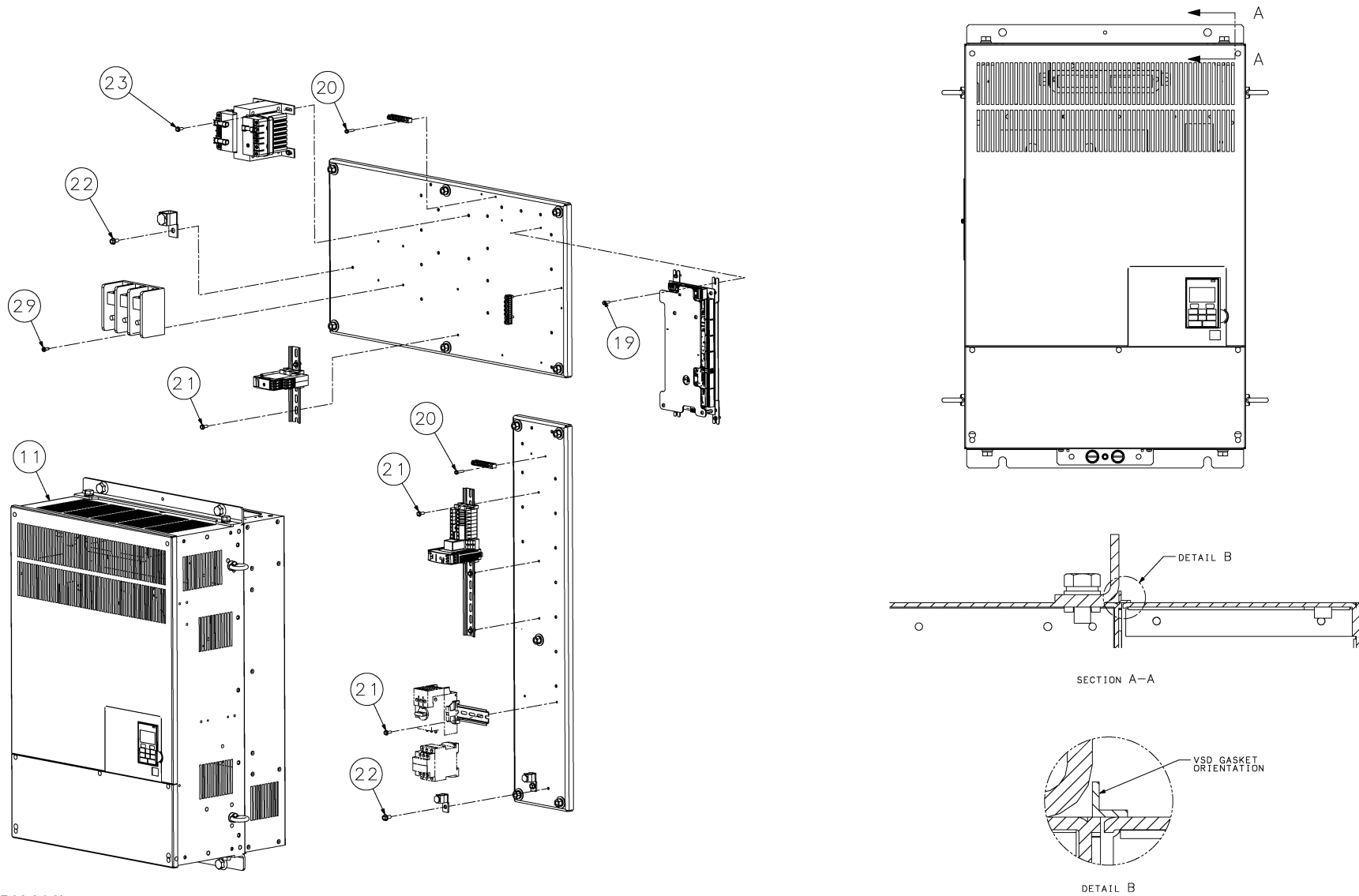
1002-9251 R02 (sh1)

1.42 Control starter (VSD—150 hp, 575V)



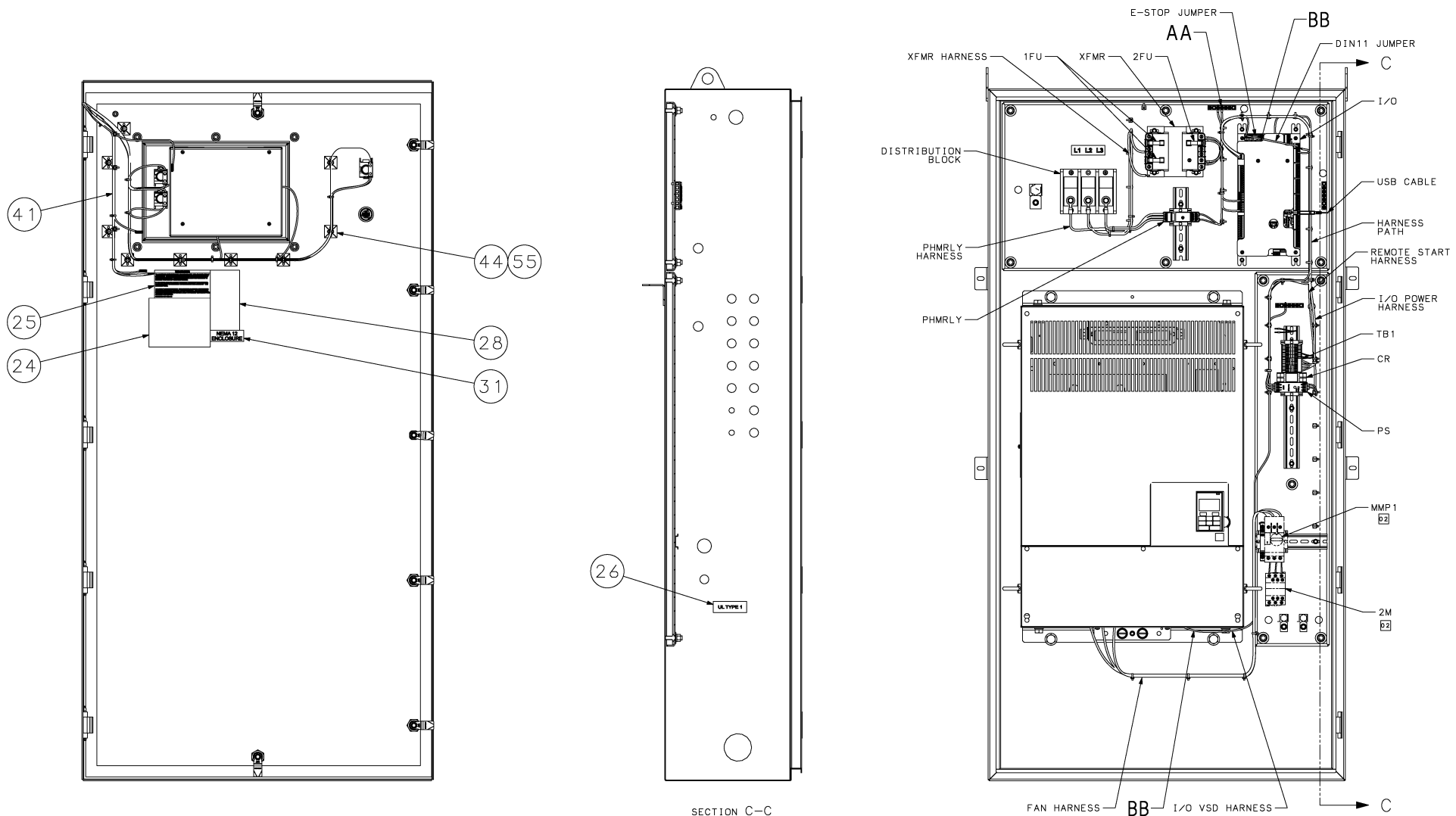
1002-9251 R02 (sh2)

1.42 Control starter (VSD—150 hp, 575V)



1002-9251 R02 (sh3)

1.42 Control starter (VSD—150 hp, 575V)



1002-9251 R02 (sh4)

**1.42 Control starter (VSD—150 hp, 575V)**

| Key | Part number  | Qty | Description                                  | Notes |
|-----|--------------|-----|----------------------------------------------|-------|
| 1   | 02250057-241 | 8   | BLOCK, TERMINAL 45A 600V IEC                 |       |
| 2   | 02250057-244 | 1   | BLOCK, TERM END PLATE RK610 CH               |       |
| 3   | 02250057-245 | 4   | BLOCK, TERM END STOP C383 CH                 |       |
| 4   | 02250075-045 | 6   | DECAL, PROTECTIVE EARTH GROUND               |       |
| 5   | 02250101-721 | 3   | BAR, GROUNDING 5 POINT                       |       |
| 6   | 02250145-194 | 1   | BLOCK, POWER DISTRIBUTION 600V               |       |
| 7   | 02250207-732 | 1   | CAP, ETHERNET PORT NEMA6                     |       |
| 8   | 02250214-985 | 29  | CLIP, CABLE TIE PUSH BARB                    |       |
| 9   | 02250218-324 | 1   | RAIL, DIN RAIL 12.75IN                       |       |
| 10  | 02250218-671 | 2   | RAIL, DIN RAIL 6.5IN                         |       |
| 11  | 02250222-664 | 1   | DRIVE, VSD 575V 192A IP00                    |       |
| 12  | 02250225-305 | 1   | RELAY, OVERLOAD & UND VOLT PM                |       |
| 13  | 02250225-306 | 1   | SUPPLY, POWER 24VAC/DC PULS                  |       |
| 14  | 02250228-105 | 3   | CLIP, TIE HOLDER                             |       |
| 15  | 02250232-525 | 1   | RECEIVER, USB                                |       |
| 16  | 02250241-382 | 2   | LINK, JUMPER 8MM 2 POS                       |       |
| 17  | 02250241-383 | 1   | MARKER, TAG, BLANK 8MM                       |       |
| 18  | 02250241-424 | 1   | TERMINAL, RING 5/16 X 14-16 AWG              |       |
| 19  | 02250244-437 | 4   | SCREW, TR-TT HEX #8-32 X 1/2"                |       |
| 20  | 02250244-438 | 6   | SCREW, TR-TT HEX #8-32 X 3/4"                |       |
| 21  | 02250244-439 | 7   | SCREW, TR-TT HEX #10-32 X 1/2"               |       |
| 22  | 02250244-441 | 3   | SCREW, TR-TT HEX 1/4-20 X 1/2"               |       |
| 23  | 02250244-444 | 4   | SCREW, TR-TT HEX #10-24 X 1/2"               |       |
| 24  | 02250246-522 | 1   | DECAL, EATON OVLD RLY SETTINGS               |       |
| 25  | 02250246-544 | 1   | DECAL, WARNING CIRCUIT PROTECT               |       |
| 26  | 02250246-668 | 1   | DECAL, TYPE 1 ENCLOSURE                      |       |
| 27  | 02250246-669 | 1   | DECAL, FIELD WIRING INPUT                    |       |
| 28  | 02250246-671 | 1   | DECAL, FIELD INSTRUCTIONS                    |       |
| 29  | 02250247-582 | 4   | SCREW, TR-TT PAN 10-24 X 1/2"                |       |
| 30  | 02250248-491 | 9   | SEAL, 1/8 THK X 1/2 WD EPDM                  | FEET  |
| 31  | 02250250-557 | 1   | DECAL, NEMA 12 ENCLOSURE                     |       |
| 32  | 02250261-689 | 1   | TRANSFORMER, 350VA UNIV VOLT HPS             |       |
| 33  | 02250266-609 | 1   | SWITCH ASSEMBLY, E-STOP SCH                  |       |
| 34  | 02250266-727 | 1   | DECAL, ESTOP YL RING 60MM SCH                |       |
| 35  | 02250266-756 | 1   | SUB ASSEMBLY, MODULAR, GLOBAL CONTROLLER 10" |       |

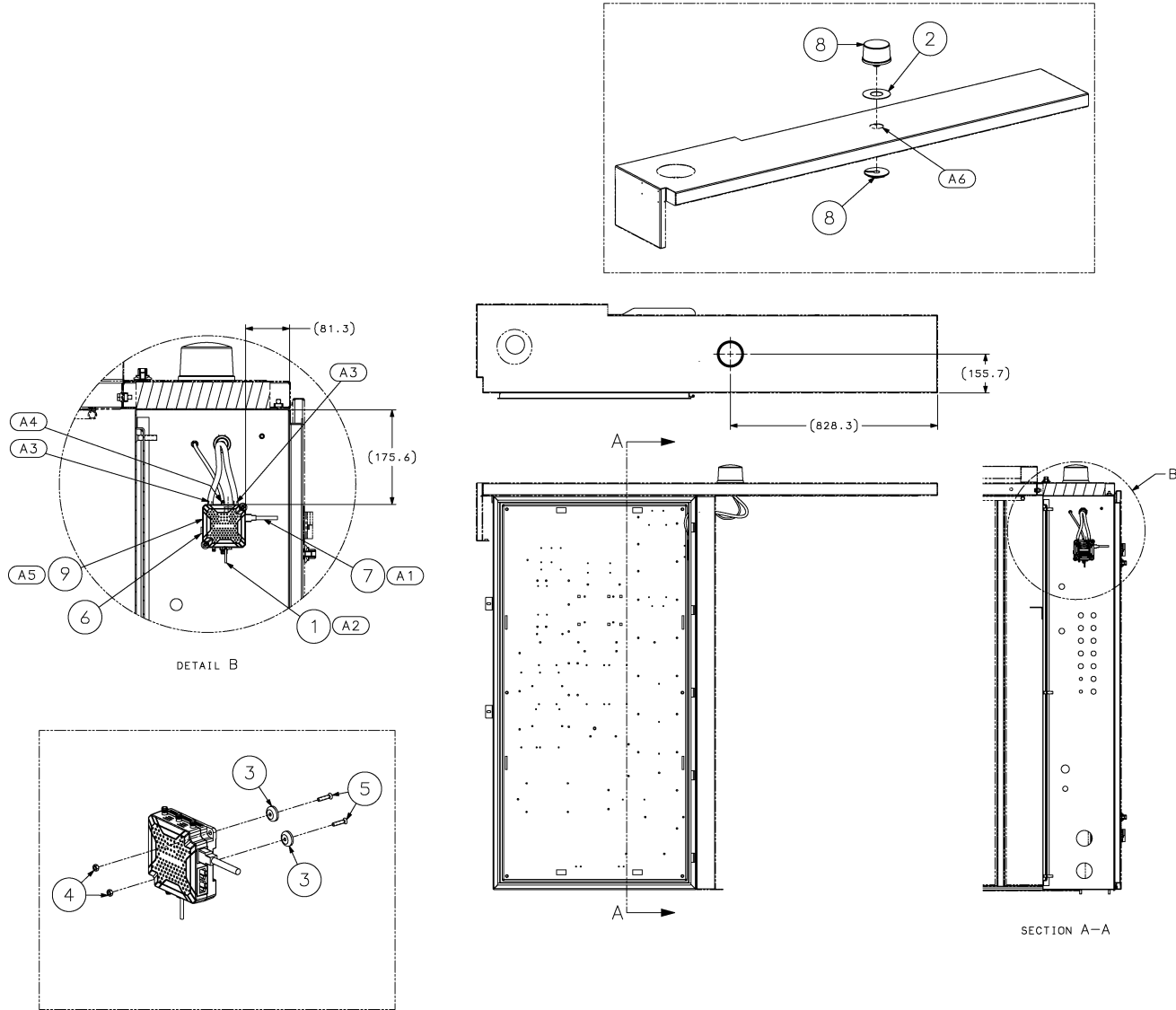
**1.42 Control starter (VSD—150 hp, 575V)**

| Key | Part number  | Qty | Description                                 | Notes |
|-----|--------------|-----|---------------------------------------------|-------|
| 36  | 02250269-819 | 1   | GASKET,GC HMI BEZEL 10"                     |       |
| 37  | 1000-1223    | 1   | SUB ASSEMBLY,MODULAR,I/O MOD GLOBAL         |       |
| 38  | 1003-1770    | 1   | PANEL,SUB VSD TOP LS90-110                  |       |
| 39  | 1003-6680    | 1   | PANEL,SUB VSD RIGHT LS90-110                |       |
| 40  | 1003-7430    | 1   | ENCLOSURE,START LS90/110 VSD                |       |
| 41  | 1004-0555    | 1   | SUB ASSEMBLY,MODULAR,LS90/110 VSD HARNESSES |       |
| 42  | 250019-761   | 1   | FUSE, LIMITRON KTK-R 5.00                   |       |
| 43  | 250026-644   | 2   | FUSE,CLASS CC 2.0A 600V TD                  |       |
| 44  | 409796       | 9   | PLATE,TY-RAP MOUNTING                       |       |
| 45  | 825202-130   | 3   | NUT, HEX PLTD 10-24                         |       |
| 46  | 825204-226   | 1   | NUT, HEX PLTD 1/4-20                        |       |
| 47  | 825206-337   | 11  | NUT,HEX PLTD 3/8-16                         |       |
| 48  | 825908-125   | 6   | NUT, HEX METRIC M8 X 1.25                   |       |
| 49  | 829708-100   | 4   | SCREW, HX SER WASH 1/2 X 1"                 |       |
| 50  | 837504-062   | 1   | WASHER, SPRLOCK REG 1/4"                    |       |
| 51  | 837506-094   | 11  | WASHER, SPRLOCK REG 3/8"                    |       |
| 52  | 838206-071   | 11  | WASHER,PL-B REG PLTD 3/8"                   |       |
| 53  | 838406-040   | 1   | WASHER, LOCK EXT TOOTH 3/8"                 |       |
| 54  | 838808-200   | 6   | WASHER, SPRLOCK METRIC M8                   |       |
| 55  | 843200-023   | 38  | WRAP, TIE NYLON TY23                        |       |
| 56  | 848700-038   | 1   | WRAP, SPIRAL WIRE 3/8" (FT)                 | FEET  |
| 57  | 849215-025   | 2   | LUG, SCRULUG KPA-25 4-1/0                   |       |
| 58  | 849215-028   | 1   | LUG, SCRULUG KPA-28 1/0-4/0                 |       |
| 59  | 850215-016   | 3   | WIRE, MTW/AWM 16GA GRN/YEL STR              | FEET  |
| 60  | 882708-200   | 6   | WASHER, METRIC FLT THIN 8 X 20              |       |

**Drawing notes**

|   |                                                                                                                  |
|---|------------------------------------------------------------------------------------------------------------------|
| 1 | MARK/TAG COMPONENT/CONTAINER WITH SULLAIR PART NUMBER AND REVISION.                                              |
| 2 | MANUFACTURER: SULLAIR                                                                                            |
| 3 | ALL CRITICAL COMPONENTS TO BE UL AND CSA LISTED/RECOGNIZED.                                                      |
| 4 | PANEL ASSEMBLY SHALL MEET UL 508A.                                                                               |
| 5 | WIRE TO/FROM ALL SUPPLIED COMPONENTS PER WIRING DIAGRAM 1003-9614.                                               |
| 6 | ENCLOSURE TO BE NEMA 12/UL TYPE 1 AFTER ASSEMBLY AT SULLAIR.                                                     |
| 7 | ALL COMPONENTS SHALL BE LABELED WITH COMPONENT NAMES FROM WIRING DIAGRAM.                                        |
| 8 | FOR AA CONNECTION POINTS, CONNECT THE GROUND WIRE TO THE DOOR STUD AND TO THE GROUNDING BAR ABOVE THE I/O BOARD. |
| 9 | FOR BB CONNECTION POINTS, CONNECT USB DOOR PORT TO THE STS DISPLAY.                                              |

1.43 Communications, AirLinx 2.0 Enclosure



1006-7026 R00

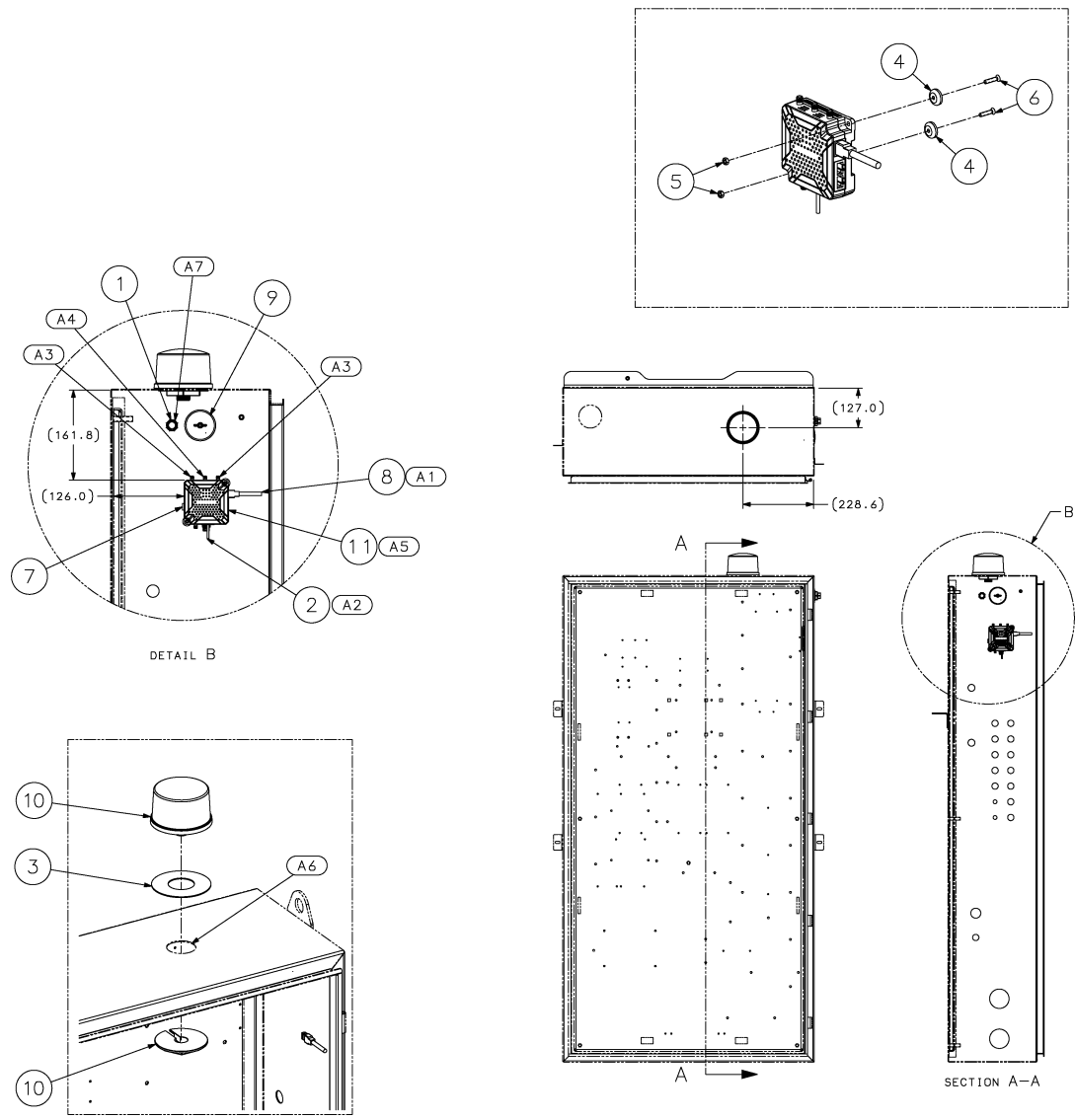
**1.43 Communications, AirLinx 2.0 Enclosure**

| Key | Part number | Qty | Description                     | Notes |
|-----|-------------|-----|---------------------------------|-------|
| 1   | 1000-4664   | 1   | HARNESS,HIT IOT MODEM PWR 3M    |       |
| 2   | 1001-0517   | 1   | GASKET,ANTENNA                  |       |
| 3   | 1001-0518   | 2   | MOUNT,MAGNET                    |       |
| 4   | 1001-0685   | 2   | NUT,HEX METRIC M3.5 X 0.6       |       |
| 5   | 1001-0688   | 2   | SCREW,REC CSUNK FLTHD M3.5X16   |       |
| 6   | 1001-0703   | 1   | CARD,SIM AIRLINX HIES           |       |
| 7   | 1004-7216   | 1   | HARNESS,HIT IOT MODEM-GC 1775MM |       |
| 8   | CP-ANT24    | 1   | TRANSMITTER,REP_LS160           |       |
| 9   | CPTRANS-MGW | 1   | MODEM,AIRLINX HIES              |       |

**Drawing notes**

|    |                                                               |
|----|---------------------------------------------------------------|
| A1 | MODEM POWER TO 24VDC                                          |
| A2 | MODEM SERIAL 8-PIN CONNECTOR TO BUI BOARD                     |
| A3 | ANTENNA TO MODEM (2X) LTE                                     |
| A4 | ANTENNA TO MODEM (1X) GPS                                     |
| A5 | MODEM MOUNTED ON INSIDE WALL OF STARTER BOX                   |
| A6 | PUNCH A 1.97" (50MM) DIAMETER THRU HOLE AT THE LOCATION SHOWN |

1.44 Communications, AirLinx 2.0 Open



1006-7027 R00

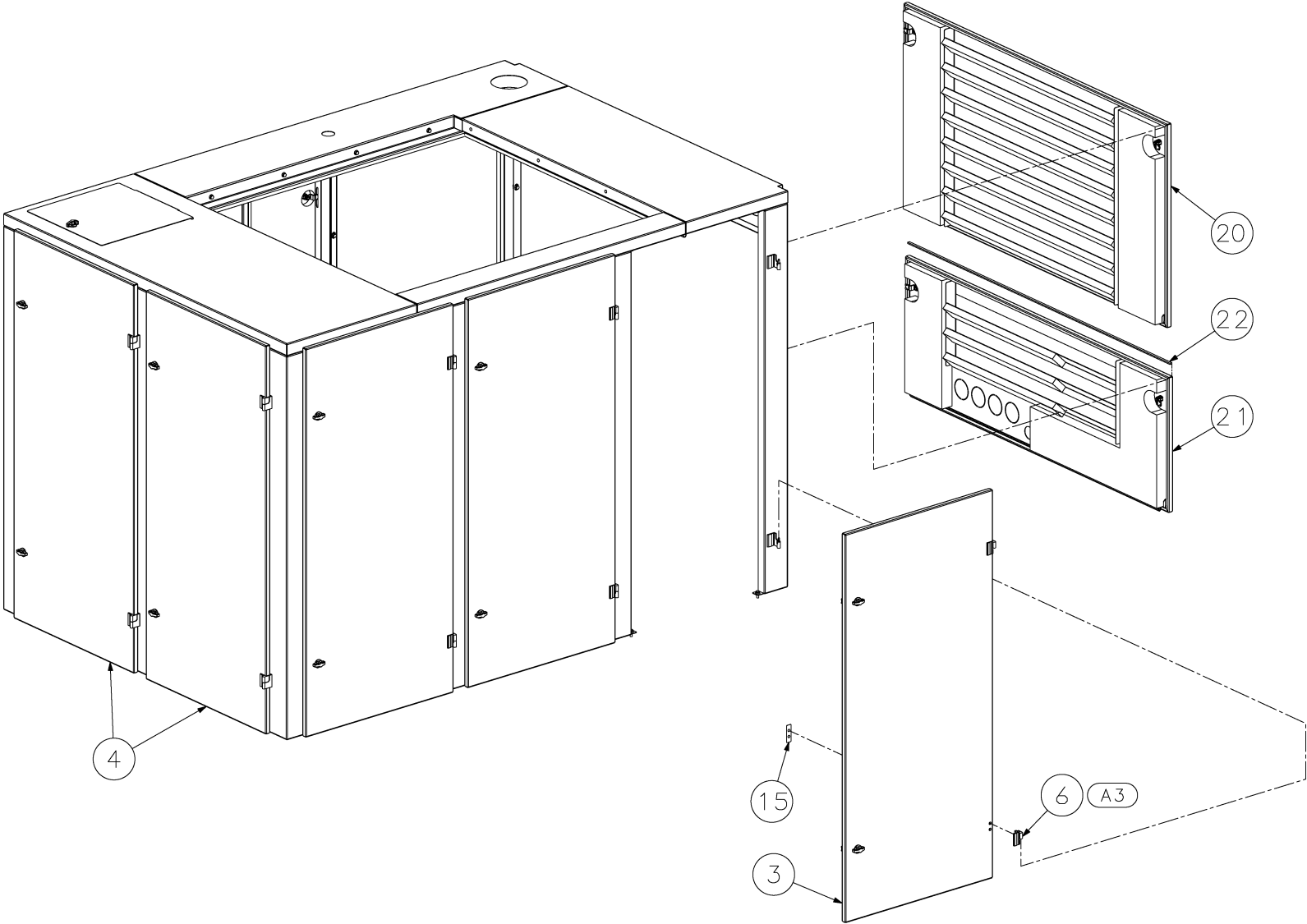
**1.44 Communications, AirLinx 2.0 Open**

| Key | Part number  | Qty | Description                     | Notes |
|-----|--------------|-----|---------------------------------|-------|
| 1   | 02250216-341 | 1   | PLUG,CLICK BLK 20MM             |       |
| 2   | 1000-4664    | 1   | HARNESS,HIT IOT MODEM PWR 3M    |       |
| 3   | 1001-0517    | 1   | GASKET,ANTENNA                  |       |
| 4   | 1001-0518    | 2   | MOUNT,MAGNET                    |       |
| 5   | 1001-0685    | 2   | NUT,HEX METRIC M3.5 X 0.6       |       |
| 6   | 1001-0688    | 2   | SCREW,REC CSUNK FLTHD M3.5X16   |       |
| 7   | 1001-0703    | 1   | CARD,SIM AIRLINX HIES           |       |
| 8   | 1004-7216    | 1   | HARNESS,HIT IOT MODEM-GC 1775MM |       |
| 9   | 409918-005   | 1   | PLUG,HOLE N4 1-1/4" COND        |       |
| 10  | CP-ANT24     | 1   | TRANSMITTER,LS90/110            |       |
| 11  | CPTRANS-MGW  | 1   | MODEM,AIRLINX HIES              |       |

**Drawing notes**

|    |                                                                                              |
|----|----------------------------------------------------------------------------------------------|
| A1 | MODEM POWER TO 24VDC                                                                         |
| A2 | MODEM SERIAL 8-PIN CONNECTOR TO BUI BOARD                                                    |
| A3 | ANTENNA TO MODEM (2X) LTE                                                                    |
| A4 | ANTENNA TO MODEM (1X) GPS                                                                    |
| A5 | MODEM MOUNTED ON INSIDE WALL OF STARTER BOX                                                  |
| A6 | PUNCH A 1.97" (50MM) DIAMETER THRU HOLE AT THE LOCATION SHOWN                                |
| A7 | OPEN EXISTING THRU HOLE TO 20 MM                                                             |
| 1  | UNUSED CORD GRIPS SUPPLIED ON ANTENNA WIRING TO BE TIED TOGETHER WITH EXCESS ANTENNA WIRING. |

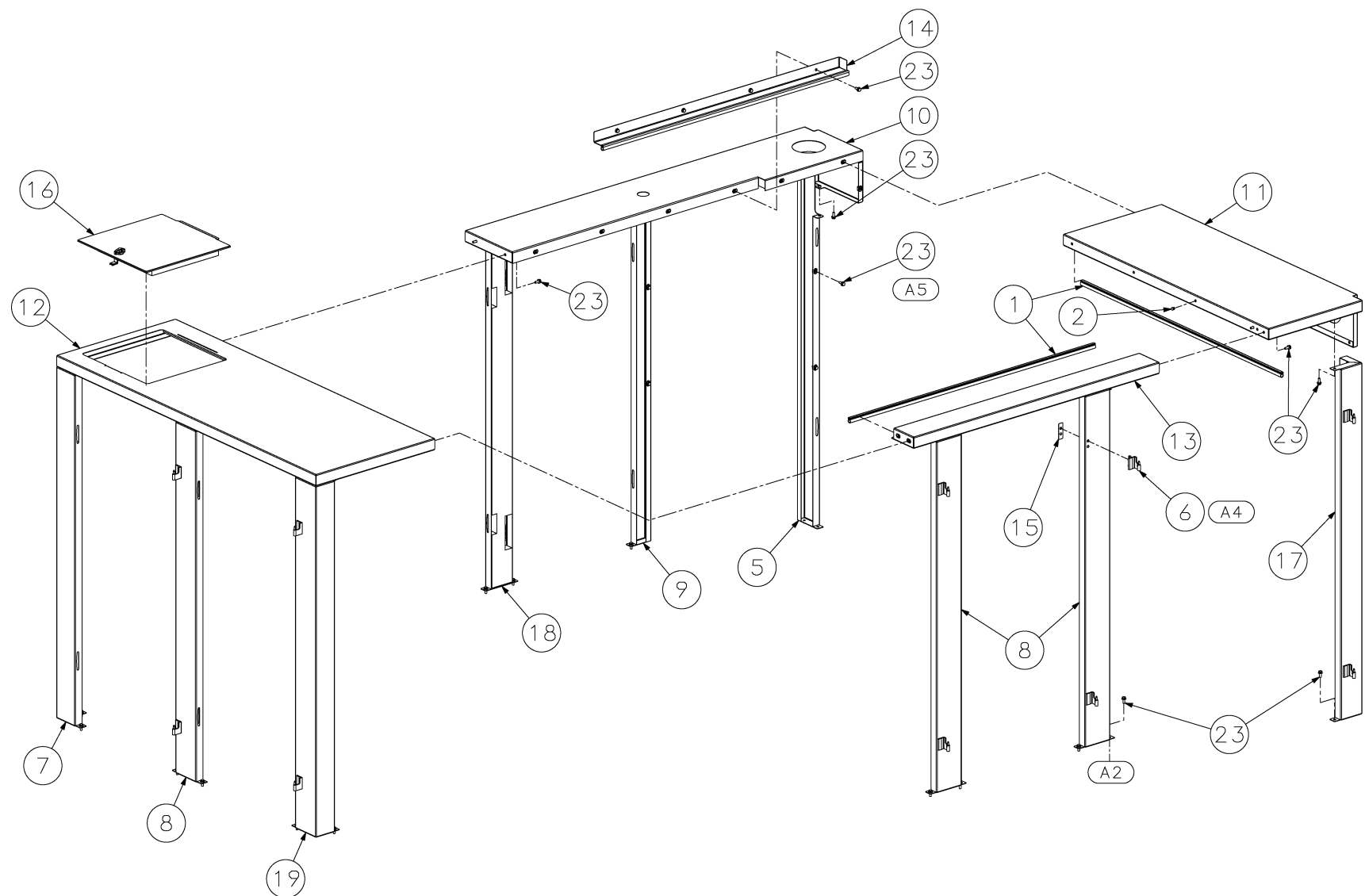
1.45 Enclosure, air-cooled



02250223-645 R05 (sh1)



1.45 Enclosure, air-cooled



02250223-645 R05 (sh2)

**1.45 Enclosure, air-cooled**

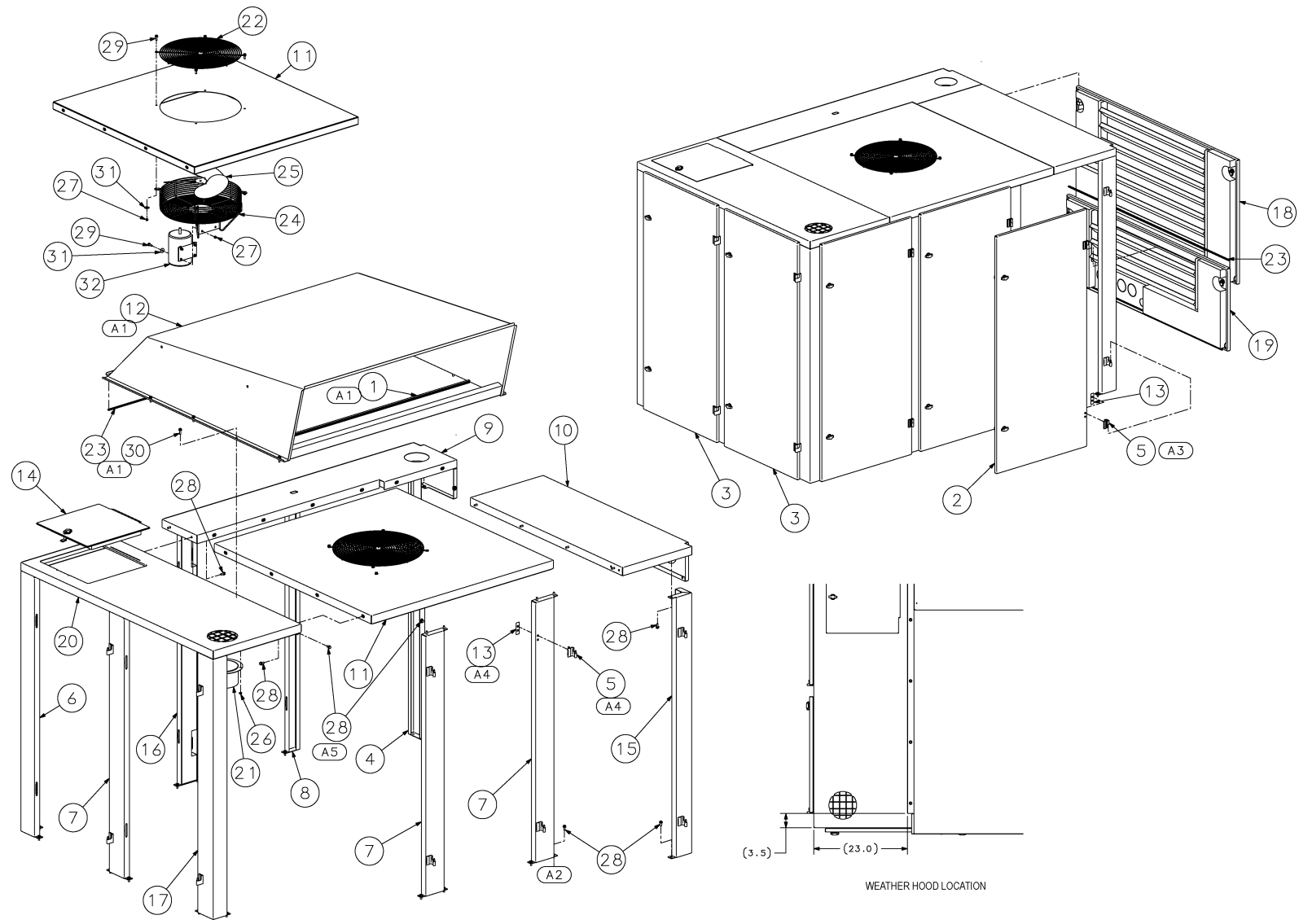
| Key | Part number  | Qty | Description                       | Notes |
|-----|--------------|-----|-----------------------------------|-------|
| 1   | 02250165-862 | 18  | TRIM, CLIP ON                     | FEET  |
| 2   | 02250183-790 | 6   | PLUG,HOLE .375 DIA. BLACK         |       |
| 3   | 02250222-466 | 5   | PANEL,DOOR 200HP GRN              |       |
| 4   | 02250222-467 | 2   | PANEL,DOOR 200HP BLK              |       |
| 5   | 02250222-470 | 1   | SUPPORT,ENCL CNTR CORNER 200HP    |       |
| 6   | 02250222-977 | 14  | HINGE,LIFT OFF 200HP              |       |
| 7   | 02250223-649 | 1   | SUPPORT,ENCL CORN SUMP END 150HP  |       |
| 8   | 02250223-709 | 3   | SUPPORT,ENCL POST 150HP           |       |
| 9   | 02250223-714 | 1   | SUPPORT,ENCL POST RH CNTR 150HP   |       |
| 10  | 02250223-743 | 1   | PANEL,ENCL ROOF CNTR SIDE         |       |
| 11  | 02250223-745 | 1   | PANEL,ENCL ROOF UNIT END 150HP    |       |
| 12  | 02250223-746 | 1   | PANEL,ENCL ROOF CNTR END          |       |
| 13  | 02250223-748 | 1   | PANEL,ENCL ROOF UNIT SIDE 150HP   |       |
| 14  | 02250223-806 | 1   | ANGLE,ENCL ROOF-CLR 150HP         |       |
| 15  | 02250223-815 | 28  | SHIM,HINGE SUPT .5MM              |       |
| 16  | 02250225-451 | 1   | PANEL,CVR SEP ACCESS 150HP        |       |
| 17  | 02250225-523 | 1   | SUPPORT,ENCL CORNER MTR END 150HP |       |
| 18  | 02250225-524 | 1   | SUPPORT,ENCL POST SUMP SIDE 150HP |       |
| 19  | 02250225-525 | 1   | SUPPORT,ENCL CORN UNIT END 150HP  |       |
| 20  | 02250226-738 | 1   | PANEL,ENCL END LVR UP             |       |
| 21  | 02250226-747 | 1   | PANEL,ENCL MTR END LVR 150HP      |       |
| 22  | 250022-436   | 5   | WEATHERSTRIP,3/16" X 3/8" (FT)    | FEET  |
| 23  | 829705-075   | 49  | SCREW, HX SER WASH 5/16 X 3/4"    |       |

**Drawing notes**

|    |                                                                          |
|----|--------------------------------------------------------------------------|
| A2 | TO FRAME WELD-NUTS, TYP                                                  |
| A3 | DOOR HALF OF HINGE, INSTALL WITH BACKER SHIM (AS REQUIRED) AND PIN       |
| A4 | STATIONARY HALF OF HINGE, INSTALL WITH BACKER (AS REQUIRED) SHIM AND PIN |
| A5 | FOUR SCREWS TO HOLD STARTER BOX                                          |

Notes:

1.46 Enclosure, water-cooled



02250226-535 R03



**1.46 Enclosure, water-cooled**

| Key | Part number  | Qty  | Description                       | Notes |
|-----|--------------|------|-----------------------------------|-------|
| 1   | 02250158-314 | 5FT  | GASKET, SPONGE-RUBBER BLACK       |       |
| 2   | 02250222-466 | 5    | PANEL,DOOR 200HP GRN              |       |
| 3   | 02250222-467 | 2    | PANEL,DOOR 200HP BLK              |       |
| 4   | 02250222-470 | 1    | SUPPORT,ENCL CNTR CORNER 200HP    |       |
| 5   | 02250222-977 | 14   | HINGE,LIFT OFF 200HP              |       |
| 6   | 02250223-649 | 1    | SUPPORT,ENCL CORN SUMP END 150HP  |       |
| 7   | 02250223-709 | 3    | SUPPORT,ENCL POST 150HP           |       |
| 8   | 02250223-714 | 1    | SUPPORT,ENCL POST RH CNTR 150HP   |       |
| 9   | 02250223-743 | 1    | PANEL,ENCL ROOF CNTR SIDE 150HP   |       |
| 10  | 02250223-745 | 1    | PANEL,ENCL ROOF UNIT END 150HP    |       |
| 11  | 02250223-752 | 1    | PANEL,ENCL ROOF WTROC 150HP       |       |
| 12  | 02250223-813 | 1    | DUCT,WEATHER HOOD 150HP           |       |
| 13  | 02250223-815 | 28   | SHIM,HINGE SUPT .5MM              |       |
| 14  | 02250225-451 | 1    | PANEL,CVR SEP ACCESS 150HP        |       |
| 15  | 02250225-523 | 1    | SUPPORT,ENCL CORNER MTR END 150HP |       |
| 16  | 02250225-524 | 1    | SUPPORT,ENCL POST SUMP SIDE 150HP |       |
| 17  | 02250225-525 | 1    | SUPPORT,ENCL CORN UNIT END 150HP  |       |
| 18  | 02250226-738 | 1    | PANEL,ENCL END LVR UP 150HP       |       |
| 19  | 02250226-747 | 1    | PANEL,ENCL MTR END LVR 150HP      |       |
| 20  | 02250231-483 | 1    | PANEL,ENCL ROOF CNTR END 150HP    |       |
| 21  | 02250231-716 | 1    | TUBE,ENCL ROOF 150HP              |       |
| 22  | 241137       | 1    | GUARD, FAN 20"DIA                 |       |
| 23  | 250022-436   | 10FT | WEATHERSTRIP,3/16 X 3/8 FT        |       |
| 24  | 410179       | 1    | GUARD,FAN 20" DIA 48 FRAME MTR    |       |
| 25  | 410358       | 1    | FAN,18" VENT 1/2" BORE 3 BLADE    |       |
| 26  | 825304-236   | 3    | NUT, HEX FLGD PLTD 1/4-20         |       |
| 27  | 825505-166   | 8    | NUT, HEX LOCKING PLTD 5/16-18     |       |
| 28  | 829705-075   | 52   | SCREW, HX SER WASH 5/16 X 3/4"    |       |
| 29  | 829705-100   | 8    | SCREW, HX SER WASH 5/16 X 1"      |       |
| 30  | 834505-100   | 8    | SCREW, SELF DRILL 5/16 X 1"       |       |
| 31  | 838305-071   | 8    | WASHER, PL-B WIDE PLTD 5/16"      |       |
| 32  | -VARIOUS     | 1    | MOTOR, .25HP 208-230/460          |       |

**Drawing notes**

|    |                                                                            |
|----|----------------------------------------------------------------------------|
| A1 | OPTIONAL WEATHER HOOD PARTS. (DRILL PILOT HOLES FOR SCREWS AS/IF REQUIRED) |
| A2 | TO FRAME WELD-NUTS. TYP.                                                   |

1.46 Enclosure, water-cooled

| Key | Part number                                                               | Qty | Description | Notes |
|-----|---------------------------------------------------------------------------|-----|-------------|-------|
| A3  | DOOR HALF OF HINGE, INSTALL WITH BACKER SHIM (AS REQUIRED) AND PIN.       |     |             |       |
| A4  | STATIONARY HALF OF HINGE, INSTALL WITH BACKER SHIM (AS REQUIRED) AND PIN. |     |             |       |
| A5  | FOUR SCREWS FOR STARTER BOX ATTACHMENT.                                   |     |             |       |

Notes:

Technical drawings of the SULLAIR LS110V compressor, showing various views and dimensions:

- Top View:** Shows the compressor from above. Dimensions include 15.11, 3.00, 2X 2.00, 15.00, 14.00, 10.00, and 18.00. Callouts include 10, 11, 15, 17, 13, 14, AB, 7, 6, A7, 21, 9, and 18.
- Front View:** Shows the compressor from the front. Dimensions include 50.00, 43.00, 30.00, 16.00, and 4.00. Callouts include 22, 14, A10, 1, 20, A9, 24, A1, 2, A1, 8, A1, 19, 17, A1, 16, A4, 12, A1, and 1.
- Side View:** Shows the compressor from the side. Dimensions include 15.11, 3.00, 2X 2.00, 15.00, 14.00, 10.00, and 18.00. Callouts include 10, 11, 15, 17, 13, 14, AB, 7, 6, A7, 21, 9, and 18.
- Section E-E:** A cross-section view of the compressor.
- Section B-B:** A cross-section view of the compressor.
- Section C-C:** A cross-section view of the compressor.
- Section A-A:** A cross-section view of the compressor.
- Detail D:** A detailed view of a specific component.



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## 1.47 Decal locations, air-cooled

| Key | Part number  | Spanish P/N  | Qty | Description                        | Notes |
|-----|--------------|--------------|-----|------------------------------------|-------|
| 1   | 02250075-540 |              | 1   | DECAL,PE DESIGNATION               |       |
| 2   | 02250127-896 | 02250236-574 | 1   | DECAL,PACKAGE AMPS LABEL           |       |
| 3   | 02250146-385 |              | 1   | DECAL,PARALLEL WYE MOTOR CONN.     | *     |
| 4   | 02250164-823 |              | 1   | DECAL,WRN N12 ELEC ENCL PROTC      | *     |
| 5   | 02250171-797 |              | 1   | DECAL, DO NOT BREATH COMP AIR      |       |
| 6   | 02250172-271 |              | 1   | DECAL, WARNING HOT SURFACES        |       |
| 7   | 02250186-326 |              | 2   | DECAL,WARNING SEVER (FAN)          |       |
| 8   | 02250209-435 |              | 1   | LABEL,UL ENCL CONT PNL W/BC        |       |
| 9   | 02250229-397 |              | 1   | DECAL,"SULLAIR" BLACK OPEN         |       |
| 10  | 02250229-398 |              | 1   | DECAL, WARNING REMOTELY CONTROLLED |       |
| 11  | 02250229-399 |              | 2   | DECAL, WARNING ELECTRICAL SHOCK    |       |
| 12  | 02250231-628 |              | 1   | NAMEPLATE,SULLAIR QUALITY TAG      |       |
| 13  | 02250236-294 |              | 1   | DECAL,"HITACHI" O/F 2" BLACK       |       |
| 14  | 02250256-553 |              | 1   | DECAL,WARNING CANCER AND REPRO     |       |
| 15  | 1000-3041    |              | 1   | DECAL,AIRLINX WHITE LETTERS        |       |
| 16  | 1001-2694    |              | 1   | DECAL,10A COLD WEATHER PKG         |       |
| 17  | 1004-5248    | 1004-5676    | 2   | DECAL,QR CODE LS90-110             |       |
| 18  | 49685        | 02250055-342 | 1   | SIGN, WARNING-COMP OIL FIL CAP     |       |
| 19  | 49852        | 02250055-341 | 1   | DECAL,WARNING GROUND FAULT         |       |
| 20  | FLUID        |              | 1   | DECAL,FLUID                        |       |
| 21  | MODEL        |              | 1   | DECAL,MODEL                        |       |
| 22  | SULLAIR      |              | 2   | DECAL,SULLAIR                      |       |
| 23  | VOLTAGE      |              | 1   | DECAL,VOLTAGE                      |       |
| 24  | VSD WIRE     |              | 1   | DECAL,VSD WIRE SIZE                | *     |

## Drawing notes

|     |                                                                                  |
|-----|----------------------------------------------------------------------------------|
| A1  | LOCATE APPROXIMATELY AS SHOWN                                                    |
| A2  | DECAL TO BE CENTERED HORIZONTALLY ON STARTER DOOR FOR ENCLOSED MACHINES ONLY     |
| A3  | DECAL TO BE CENTERED HORIZONTALLY AND VERTICALLY BELOW THE ACCESS PANEL AS SHOWN |
| A4  | ATTACH DECAL ON STARTER DOOR LOCATION APPROXIMATELY AS SHOWN                     |
| A5  | DECAL TO BE PLACED AT THIS LOCATION FOR ONLY OPEN MACHINES                       |
| A6  | TO BE CENTERED WITH THE ABOVE TEXT                                               |
| A7  | TO BE CENTERED WITH THE ABOVE DECAL                                              |
| A8  | LESS CANOPY UNITS ONLY                                                           |
| A9  | FLUID DECAL TO BE CENTERED ON CAP                                                |
| A10 | CENTERED UNDER NAMEPLATE                                                         |

## 1.47 Decal locations, air-cooled

### Decals, fluid

| Part number  | Description                  |
|--------------|------------------------------|
| 02250069-389 | DECAL, FLUID SULLUBE         |
| 02250197-394 | DECAL, PRISTINEFG FOOD GRADE |

### Decals, model

| Part number  | Description   |
|--------------|---------------|
| 02250228-618 | DECAL, LS90   |
| 02250229-497 | DECAL, LS90S  |
| 02250229-498 | DECAL, LS90V  |
| 02250228-619 | DECAL, LS110  |
| 02250229-500 | DECAL, LS110S |
| 02250229-501 | DECAL, LS110V |

### Decals, Hitachi logo

| Part number  | Description                  |
|--------------|------------------------------|
| 02250236-294 | DECAL,"HITACHI" O/F 2" BLACK |

### Decals, Sullair logo

| Part number  | Description                |
|--------------|----------------------------|
| 02250227-155 | DECAL,"SULLAIR" BLACK ENCL |
| 02250229-397 | DECAL,"SULLAIR" BLACK OPEN |

### Decals, voltage

| Part number  | Description                    |
|--------------|--------------------------------|
| 02250069-399 | DECAL,V 460/3/60 INTERNATIONAL |
| 02250069-400 | DECAL,V 575/3/60 INTERNATIONAL |
| 02250069-405 | DECAL,V 400/3/50 INTERNATIONAL |

1.47 Decal locations, air-cooled

Decals, VSD wiring

| Part number  | Description                  |
|--------------|------------------------------|
| 02250230-931 | DECAL,VSD WIRE SIZE 400V     |
| 02250207-677 | DECAL,VSD WIRE SIZE 460V     |
| 02250212-205 | DECAL,VSD WIRE SIZE 575V YAS |

[illegible]

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## 1.48 Decal locations, water-cooled

| Key | Part number  | Spanish P/N  | Qty | Description                     | Notes |
|-----|--------------|--------------|-----|---------------------------------|-------|
| 1   | 02250075-540 |              | 1   | DECAL, PE DESIGNATION           |       |
| 2   | 02250127-896 | 02250236-574 | 1   | DECAL, PACKAGE AMPS LABEL       |       |
| 3   | 02250146-385 |              | 1   | DECAL, PARALLEL WYE MOTOR CONN. | *     |
| 4   | 02250164-823 |              | 1   | DECAL, WRN N12 ELEC ENCL PROTC  | *     |
| 5   | 02250171-797 |              | 1   | DECAL, DO NOT BREATH COMP AIR   |       |
| 6   | 02250172-271 |              | 1   | DECAL, WARNING HOT SURFACES     |       |
| 7   | 02250186-326 |              | 1   | DECAL, WARNING SEVER (FAN)      |       |
| 8   | 02250209-435 |              | 1   | LABEL, UL ENCL CONT PNL W/BC    |       |
| 9   | 02250229-398 |              | 1   | DECAL, WRNG REMOTELY CONTROLLED |       |
| 10  | 02250229-399 |              | 2   | DECAL, WRNG ELECTRICAL SHOCK    |       |
| 11  | 02250229-954 |              | 1   | DECAL, WATER IN/WATER OUT       |       |
| 12  | 02250231-628 |              | 1   | NAMEPLATE, SULLAIR QUALITY TAG  |       |
| 13  | 02250236-294 |              | 2   | DECAL, "HITACHI" O/F 2" BLACK   |       |
| 14  | 02250256-553 |              | 2   | DECAL, WARNING CANCER AND REPRO |       |
| 15  | 49685        | 02250055-342 | 1   | DECAL, WARNING-COMP OIL FIL CAP |       |
| 16  | 49852        | 02250055-341 | 1   | DECAL, WARNING GROUND FAULT     |       |
| 17  | 1000-3041    |              | 1   | DECAL, AIRLINX WHITE LETTERS    |       |
| 18  | 1001-2694    |              | 1   | DECAL, 10A COLD WEATHER PKG     |       |
| 19  | 1004-5248    | 1004-5676    | 2   | DECAL, QR CODE LS90-110         |       |
| 20  | FLUID        |              | 1   | DECAL, FLUID                    |       |
| 21  | MODEL        |              | 1   | DECAL, MODEL                    |       |
| 22  | SULLAIR      |              | 2   | DECAL, SULLAIR                  |       |
| 23  | VOLTAGE      |              | 1   | DECAL, VOLTAGE                  |       |
| 24  | VSD WIRE     |              | 1   | DECAL, VSD WIRE SIZE            | *     |

## Drawing notes

|    |                                                                       |
|----|-----------------------------------------------------------------------|
| A1 | LOCATE APPROXIMATELY AS SHOWN                                         |
| A2 | MODEL DECAL TO BE CENTERED ON STARTER DOOR FOR ENCLOSED MACHINES ONLY |
| A3 | ATTACH DECAL ON STARTER DOOR LOCATION APPROXIMATELY AS SHOWN          |
| A4 | DECAL TO BE PLACED AT THIS LOCATION FOR ONLY OPEN MACHINES            |
| A5 | TO BE CENTERED WITH THE ABOVE TEXT                                    |
| A6 | TO BE CENTERED WITH THE ABOVE DECAL                                   |
| A7 | LESS CANOPY UNITS ONLY                                                |
| A8 | FLUID DECAL TO BE CENTERED ON CAP                                     |
| A9 | CENTERED UNDER NAMEPLATE                                              |

## 1.48 Decal locations, water-cooled

### Decals, fluid

| Part number  | Description                  |
|--------------|------------------------------|
| 02250069-389 | DECAL, FLUID SULLUBE         |
| 02250197-394 | DECAL, PRISTINEFG FOOD GRADE |

### Decals, model

| Part number  | Description   |
|--------------|---------------|
| 02250228-618 | DECAL, LS90   |
| 02250229-497 | DECAL, LS90S  |
| 02250229-498 | DECAL, LS90V  |
| 02250228-619 | DECAL, LS110  |
| 02250229-500 | DECAL, LS110S |
| 02250229-501 | DECAL, LS110V |

### Decals, Hitachi logo

| Part number  | Description                  |
|--------------|------------------------------|
| 02250236-294 | DECAL,"HITACHI" O/F 2" BLACK |

### Decals, Sullair logo

| Part number  | Description                |
|--------------|----------------------------|
| 02250227-155 | DECAL,"SULLAIR" BLACK ENCL |
| 02250229-397 | DECAL,"SULLAIR" BLACK OPEN |

### Decals, voltage

| Part number  | Description                    |
|--------------|--------------------------------|
| 02250069-399 | DECAL,V 460/3/60 INTERNATIONAL |
| 02250069-400 | DECAL,V 575/3/60 INTERNATIONAL |
| 02250069-405 | DECAL,V 400/3/50 INTERNATIONAL |

1.48 Decal locations, water-cooled

Decals, VSD wiring

| Part number  | Description                  |
|--------------|------------------------------|
| 02250230-931 | DECAL,VSD WIRE SIZE 400V     |
| 02250207-677 | DECAL,VSD WIRE SIZE 460V     |
| 02250212-205 | DECAL,VSD WIRE SIZE 575V YAS |

Notes:





## **Hitachi Global Air Power US, LLC**

1 Sullair Way  
Michigan City, IN 46360 USA  
[www.sullair.com](http://www.sullair.com)  
1-800-SULLAIR (USA only)  
1-219-879-5451 (non-USA)

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