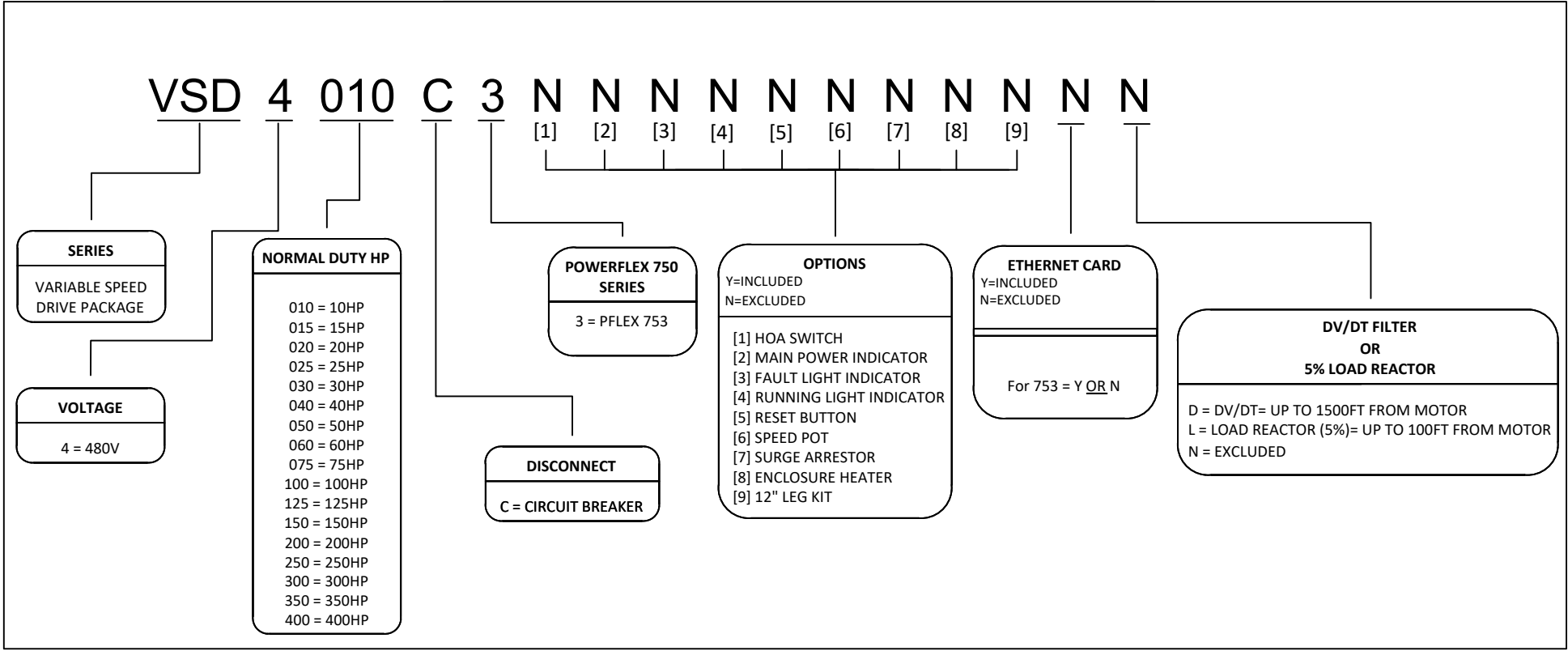


THE REYNOLDS COMPANY

# VARIABLE SPEED DRIVE PANEL

ADDRESS: 12900 SENLAC DR. FARMERS BRANCH,TX.

## PANEL BUILD PART NUMBER EXPLANATION



| CONTACT SHEET                |                                          |                   |              |                        |
|------------------------------|------------------------------------------|-------------------|--------------|------------------------|
| TITLE                        | COMPANY/REGION                           | NAME              | PHONE        | EMAIL                  |
| AUTOMATION SPECIALIST-DRIVES | TRC - NORTH & WEST, TX                   | DAVID GRISSOM     | 214-560 2621 | dwgrissom@reynco.com   |
| AUTOMATION SPECIALIST        | TRC - NORTH & WEST, TX                   | TIM CASEY         | 903-784-4301 | tcasey@reynco.com      |
| AUTOMATION SPECIALIST        | TRC - GULF COAST(HOUSTON)                | MICHAEL OUELLETTE | 832-520-1522 | maouellette@reynco.com |
| AUTOMATION SPECIALIST        | TRC - GULF COAST(LOUISIANA)              | ROBERT McLIN      | 225-274-2500 | rmclin@reynco.com      |
| AUTOMATION SPECIALIST        | TRC - GULF COAST - BEAUMONT/LAKE CHARLES | JOHN BEGNAUD      | 409-656-4317 | jbegnaud@reynco.com    |

ALL NOTES ON THIS SHEET AND ON THE SUBSEQUENT DRAWINGS SHALL BE STRICTLY ADHERED TO.  
FABRICATION PERSONNEL SHOULD REVIEW AND UNDERSTAND ALL DRAWINGS PRIOR TO ASSEMBLY.  
IF SOMETHING NEEDS CLARIFICATION OR IF YOU DO NOT UNDERSTAND SOMETHING, ASK! ENGINEER JOB OWNER APPROVAL IS REQUIRED FOR ANY DEVIATIONS FROM THE DOCUMENTATION, NO EXCEPTIONS!

MINIMUM CONDUIT SIZE SHOWN ON THE DRAWING, LARGER SIZE MAY BE SUBSTITUTED.  
MINIMUM WIRE SIZE SHOWN ON THE DRAWING, LARGER SIZE MAY BE SUBSTITUTED WITH VERIFICATION OF CONDUIT SIZE.  
ALL COMMON CONTROL POINTS ARE CONNECTED TOGETHER  
TO MAINTAIN THE ENVIRONMENTAL RATING OF THIS ENCLOSURE, INSTALL IN ANY OPENINGS ONLY U.L. LISTED OR RECOGNIZED CONDUIT HUBS OR CONTROL DEVICES WITH THE SAME ENVIRONMENTAL RATING AS THE ENCLOSURE, IN COMPLIANCE WITH THE INSTALLATION INSTRUCTIONS OF THE DEVICE.

| COMMUNICATION CABLES                                                                          |  |
|-----------------------------------------------------------------------------------------------|--|
| ETHERNET CAT 5, ETHERNET CAT 6, ETHERNET CAT 6, ETC.                                          |  |
| SHALL BE RUN A MINIMUM OF 9" FROM ANY LINE VOLTAGE WIRES AND MUST DO SO AT A 90 DEGREE ANGLE. |  |

| PANEL POWER WIRING |                                                               |
|--------------------|---------------------------------------------------------------|
| #8 AWG AND SMALLER | STRANDED COPPER, MTW TYPE 600V, UL LISTED, 90 DEGREE C RATED. |
| #6 AWG TO #1 AWG   | XHHW-2, UL LISTED, 600V, 90 DEGREE C RATED.                   |
| 1/0AWG AND LARGER  | RHH/RHW TYPE, UL LISTED, 600V, 90 DEGREE C RATED.             |

| INTERNAL WIRING OF CONTROL CIRCUIT 66.9 |                                                                                  |                                                                                                                                                     |
|-----------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| #10 THHN                                | BLACK                                                                            | ALL UNGROUNDED CONTROL CIRCUIT CONDUCTORS OPERATING AT THE SUPPLY VOLTAGE.                                                                          |
| #16 MTW                                 | RED                                                                              | UNGROUNDED AC CONTROL CIRCUIT OPERATING AT A VOLTAGE LESS THAN THE SUPPLY VOLTAGE.                                                                  |
| #18 MTW                                 | BLUE                                                                             | UNGROUNDED DC CONTROL CIRCUITS                                                                                                                      |
| #16 MTW                                 | YELLOW OR ORANGE                                                                 | UNGROUNDED CONTROL CIRCUITS OR OTHER WIRING, SUCH AS FOR CABINET LIGHTING, THAT REMAIN ENERGIZED WHEN THE MAIN DISCONNECT IS IN THE "OFF" POSITION. |
| #16 MTW                                 | WHITE OR GRAY OR THREE WHITE STRIPES ON OTHER THAN GREEN, BLUE, ORANGE OR YELLOW | GROUND AC CURRENT-CARRYING CONTROL CIRCUIT CONDUCTOR REGARDLESS OF VOLTAGE                                                                          |
| #18 MTW                                 | WHITE WITH BLUE STRIPE                                                           | GROUND DC CURRENT-CARRYING CONTROL CIRCUIT CONDUCTOR.                                                                                               |
| #16 MTW                                 | WHITE WITH YELLOW STRIPE OR WHITE WITH ORANGE STRIPE                             | GROUND AC CONTROL CIRCUIT CURRENT-CARRYING CONDUCTOR THAT REMAINS ENERGIZED WHEN MAIN DISCONNECT SWITCH IS IN THE "OFF" POSITION.                   |

| FIELD WIRE TERMINALS                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------|
| COPPER CONDUCTORS ONLY WITH TEMPERATURE RATING OF NO LESS THAN 75 DEG C<br>MOTOR OVERLOADS - SEE OVERLOAD LABEL FOR TORQUE RATINGS |

| TERMINAL BLOCK COLOR |                            |
|----------------------|----------------------------|
| BLUE                 | 24VDC AND ANALOG SIGNALS   |
| GREY                 | 120VAC AND DIGITAL SIGNALS |
| GREEN/YELLOW         | GROUNDING                  |

| POWER WIRE COLOR CHART                     |                  |        |        |
|--------------------------------------------|------------------|--------|--------|
| LINE                                       | PHASE TAPE COLOR |        |        |
|                                            | 208-240 VAC      | 480VAC | 600VAC |
| L1 (A1)                                    | BLACK (NO TAPE)  | BROWN  | BROWN  |
| L2 (A2)                                    | RED              | ORANGE | ORANGE |
| L3 (A3)                                    | BLUE             | YELLOW | YELLOW |
| *ALL POWER WILL BE PHASE TAPED AT THE END. |                  |        |        |

SPECIAL MECHANICAL INSTRUCTIONS:

SPECIAL ELECTRICAL INSTRUCTIONS:

PROJECT NOTES:

PANEL SHOP - PRINT INITIAL VERIFYING THAT YOU HAVE REVIEWED AND UNDERSTAND THE REQUIREMENTS OF ALL THE DRAWINGS AND NOTES INCLUDED IN THIS PACKAGE

POWER WIRING \_\_\_\_\_

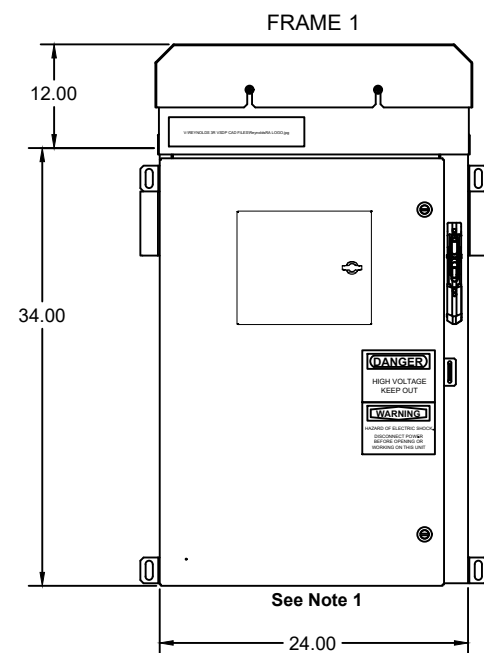
CONTROL WIRING \_\_\_\_\_

QUALITY CONTROL \_\_\_\_\_

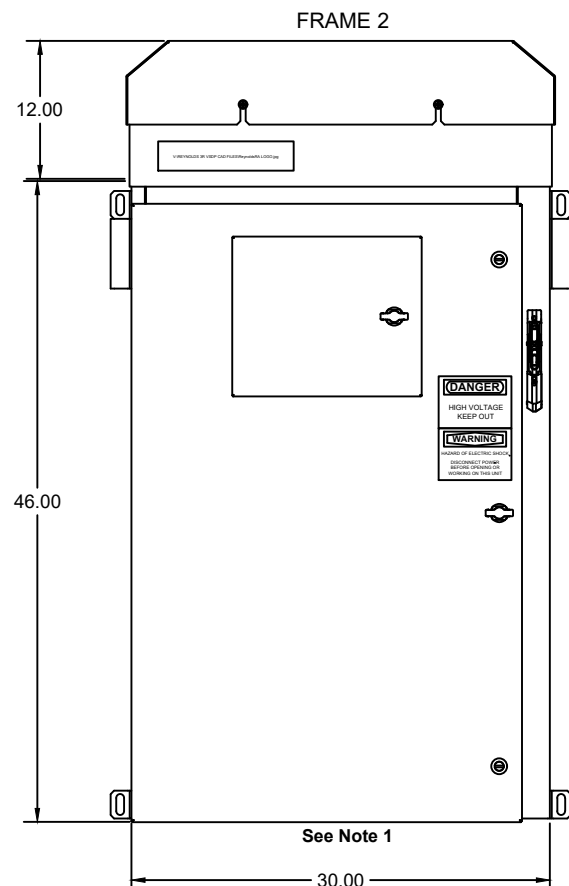
| ELECTRICAL SCHEMATIC SYMBOL LEGEND |                                                                                |      |
|------------------------------------|--------------------------------------------------------------------------------|------|
| PLAN SYMBOL                        | DESCRIPTION                                                                    | CODE |
|                                    | WIRE                                                                           |      |
|                                    | WIRE CONNECTION POINT                                                          |      |
|                                    | WIRE CROSSOVER                                                                 |      |
|                                    | FIELD WIRING<br>(WIRED BY OTHERS)                                              |      |
|                                    | GROUND                                                                         | GND  |
|                                    | MAIN CIRCUIT BREAKER<br>DISCONNECT                                             |      |
|                                    | DISTRIBUTION BLOCK                                                             |      |
|                                    | FUSE<br>X = AMP RATING                                                         | FU   |
|                                    | CIRCUIT BREAKER                                                                | CB   |
|                                    | CONTACTOR/<br>CONTROL RELAY COIL                                               | CR   |
|                                    | NORMALLY OPEN CONTACT                                                          | NO   |
|                                    | NORMALLY CLOSED<br>CONTACT                                                     | NC   |
|                                    | TERMINAL CONNECTION                                                            | TB   |
|                                    | FLOAT SWITCH                                                                   | FLT  |
|                                    | PRESSURE SWITCH                                                                | PS   |
|                                    | TEMPERATURE SWITCH                                                             | TS   |
|                                    | PUSH BUTTON                                                                    | PB   |
|                                    | SELECTOR SWITCH                                                                | SS   |
|                                    | PILOT LIGHT<br>R = COLOR (A=AMBER,<br>B=BLUE, G=GREEN,R=RED)                   | LT   |
|                                    | PILOT LIGHT - PUSH TO<br>TEST<br>R = COLOR (A=AMBER,<br>B=BLUE, G=GREEN,R=RED) |      |
|                                    | X = REVISION NUMBER                                                            |      |

480V 3P 60Hz  
VSD PANEL  
ELECTRICAL DRAWING LIST

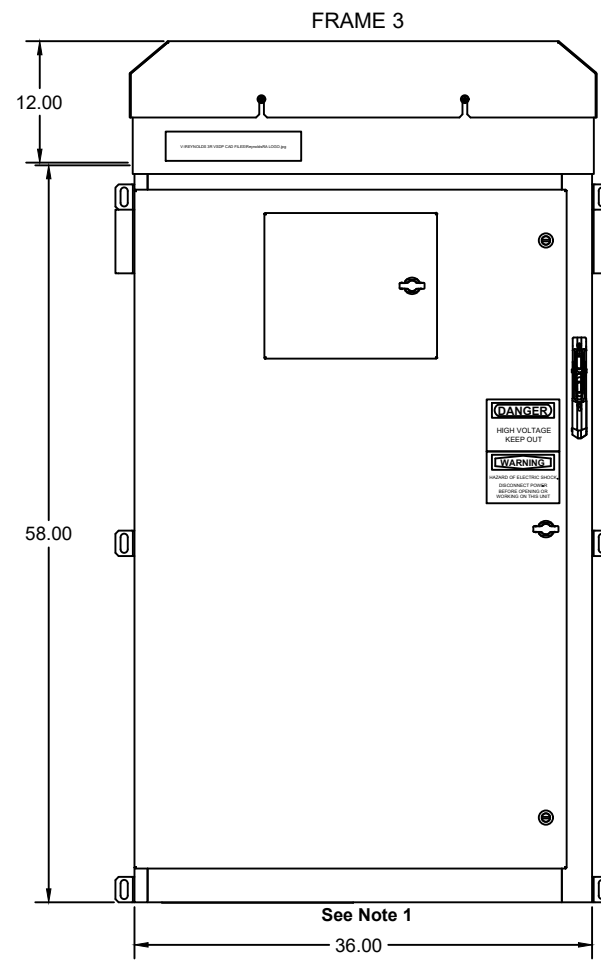
| NO.    | DRAWING DESCRIPTION                 | DWG. TYPE  | REV. |
|--------|-------------------------------------|------------|------|
| E-1000 | ELECTRICAL LEGEND                   | LEGEND     | G    |
| E-1001 | ELECTRICAL DRAWING LIST             | DWG LIST   | G    |
| E-1002 | ENCLOSURE FRAME SIZE                | FRAME SIZE | G    |
| E-1003 | ONE-LINE DIAGRAM                    | ONE-LINE   | G    |
| E-1004 | 480VAC THREE LINE DIAGRAM           | THREE-LINE | G    |
| E-1005 | FRONT VIEW & GENERAL ARRANGEMENT    | LAYOUT     | G    |
| E-1006 | 120VAC ELECTRICAL CONTROL SCHEMATIC | SCHEMATIC  | G    |
| E-1007 | VFD ELECTRICAL CONTROL SCHEMATIC    | SCHEMATIC  | G    |
| E-1008 | DRIVE ENABLE CIRCUITRY              | SCHEMATIC  | G    |



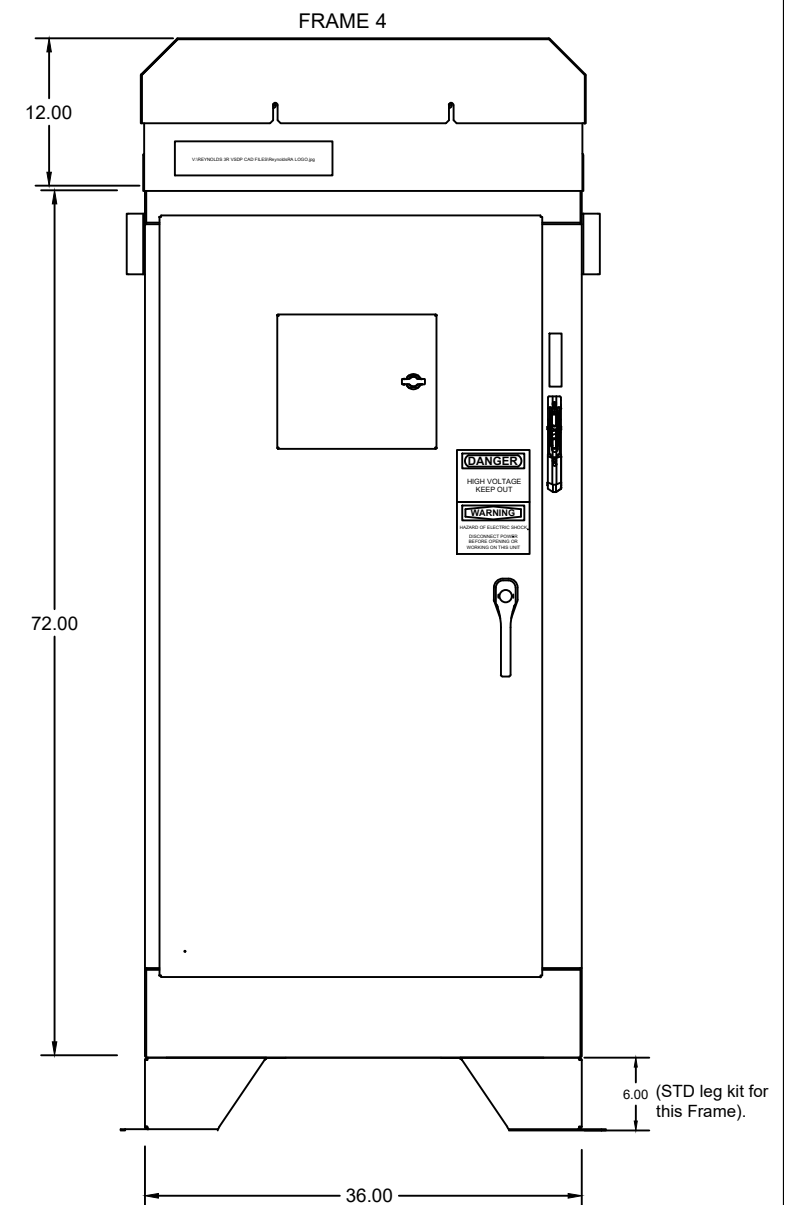
34X24X16"  
12" INCH TALL FAN HOOD  
10-30 HP  
 ENCL. BACKPLATE: 31.1" x 21.1"



46X30X16"  
12" INCH TALL FAN HOOD  
40-75 HP  
 ENCL. BACKPLATE: 26" x 42"



58X36X18"  
12" INCH TALL FAN HOOD  
100-200 HP  
 ENCL. BACKPLATE: 52" x 33"



72X36X24"  
12" INCH TALL FAN HOOD  
250-400 HP  
 ENCL. BACKPLATE: 60" x 30"

**NOTES**

1. OPTIONAL FLOOR STAND LEG KIT (12.00" HEIGHT) FOR FRAME 1-3.
2. PANEL DESIGN REQUIREMENT. VERIFY ENCLOSURE SELECTION..
  - 200W OPTION HEATER FOR ENCLOSURE PANEL 34x24x16 OR 46x30x16.
  - 400W OPTION HEATER FOR ENCLOSURE PANEL 58x36x18 OR 72x36x24.

MISC WIRE DETAILS

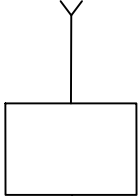
| Wire Size | Min. Bend Radius |
|-----------|------------------|
| 12 AWG    | 1.5"             |
| 10 AWG    | 1.5"             |
| 8 AWG     | 1.5"             |
| 6 AWG     | 1.5"             |
| 4 AWG     | 2.0"             |
| 3 AWG     | 3.0"             |
| 1 AWG     | 4.5"             |
| 1 / 0 AWG | 5.5"             |
| 2 / 0 AWG | 6.0"             |
| 3 / 0 AWG | 6.5"             |
| 4 / 0 AWG | 7.5"             |
| 262 KCMIL | 8.0"             |

| Main Ground Wire Size |               |
|-----------------------|---------------|
| HP                    | Main GND Wire |
| 10                    | 12 AWG        |
| 15                    | 10 AWG        |
| 20                    | 10 AWG        |
| 25                    | 10 AWG        |
| 30                    | 10 AWG        |
| 40                    | 8 AWG         |
| 50                    | 8 AWG         |
| 60                    | 8 AWG         |
| 75                    | 6 AWG         |
| 100                   | 6 AWG         |
| 125                   | 6 AWG         |
| 150                   | 4 AWG         |
| 200                   | 3 AWG         |
| 250                   | 3 AWG         |
| 300                   | 1 AWG         |
| 350                   | 1 AWG         |
| 400                   | 1 AWG         |

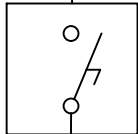
| CB-DSC |     |                    |               |
|--------|-----|--------------------|---------------|
| HP     | A   | AB Circuit Breaker | Lugs          |
| 10     | 20  | 140G-G3C3-C20      | 140G-G-TLC13  |
| 15     | 30  | 140G-G3C3-C30      | 140G-G-TLC13  |
| 20     | 40  | 140G-G3C3-C40      | 140G-G-TLC13  |
| 25     | 45  | 140G-G3C3-C45      | 140G-G-TLC13  |
| 30     | 60  | 140G-G3C3-C60      | 140G-G-TLC13  |
| 40     | 70  | 140G-G3C3-C70      | 140G-G-TLC13  |
| 50     | 90  | 140G-G3C3-D90      | 140G-G-TLC13  |
| 60     | 100 | 140G-G3C3-D10      | 140G-G-TLC13  |
| 75     | 125 | 140G-G3C3-D12      | 140G-J-TLC13  |
| 100    | 175 | 140G-J3F3-D17      | 140G-J-TLA1A3 |
| 125    | 200 | 140G-J3F3-D20      | 140G-J-TLA1A3 |
| 150    | 250 | 140G-J3F3-D25      | 140G-J-TLA1A3 |
| 200    | 400 | 140G-K3F3-D40      | 140G-K-TLA13  |
| 250    | 400 | 140G-K3F3-D40      | 140G-K-TLA23  |
| 300    | 600 | 140G-M5F3-D60      | 140G-M-TLA23  |
| 350    | 415 | 140G-M5F3-D80      | 140G-K-TLA13  |
| 400    | 477 | 140G-M5F3-D80      | 140G-K-TLA13  |

| SURGE ARRESTER |            |
|----------------|------------|
| HP             | TYPE       |
| 10-400HP       | DS74US480D |

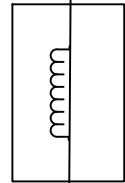
480VAC, 60HZ  
3 PHASE



SA  
SURGE ARRESTOR  
- SEE TABLE.



CB-DSC  
MAIN CIRCUIT BKR.  
DISCONNECT - SEE TABLE.  
480VAC 60HZ

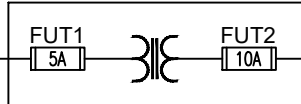


LRX-V  
3% LINE REACTOR  
FLA - SEE TABLE  
480VAC 60HZ



VFD  
MODEL: SEE TABLE  
HP: SEE TABLE  
FLA: SEE TABLE  
480VAC 60HZ

XFM  
750VA,480VAC:120VAC 60HZ



120VAC

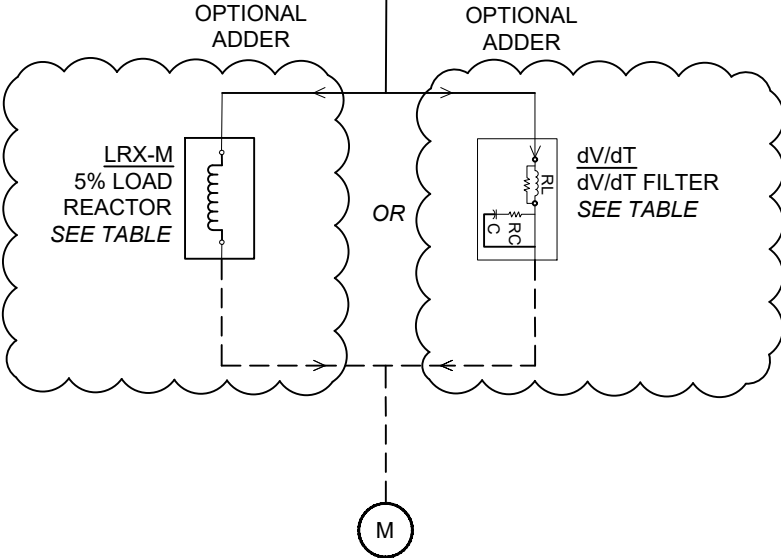
CONTROL POWER  
VIA TB [1R]

| CB --> LINE REACTOR --> VFD --> LOAD REACTOR OR dV/dT |                 |                     |
|-------------------------------------------------------|-----------------|---------------------|
| HP                                                    | Power Conductor | NO. Of Cables/Phase |
| 10                                                    | 12 AWG          | 1C / PHASE          |
| 15                                                    | 10 AWG          | 1C / PHASE          |
| 20                                                    | 8 AWG           | 1C / PHASE          |
| 25                                                    | 8 AWG           | 1C / PHASE          |
| 30                                                    | 6 AWG           | 1C / PHASE          |
| 40                                                    | 4 AWG           | 1C / PHASE          |
| 50                                                    | 3 AWG           | 1C / PHASE          |
| 60                                                    | 3 AWG           | 1C / PHASE          |
| 75                                                    | 1 AWG           | 1C / PHASE          |
| 100                                                   | 2 / 0 AWG       | 1C / PHASE          |
| 125                                                   | 3 / 0 AWG       | 1C / PHASE          |
| 150                                                   | 4 / 0 AWG       | 1C / PHASE          |
| 200                                                   | 262 KCMIL       | 1C / PHASE          |
| 250                                                   | 3 / 0 AWG       | 2C / PHASE          |
| 300                                                   | 4 / 0 AWG       | 2C / PHASE          |
| 350                                                   | 4/0 AWG         | 2C / PHASE          |
| 400                                                   | 262 KCMIL       | 2C / PHASE          |

| VFD |     |                    |                       |                       |
|-----|-----|--------------------|-----------------------|-----------------------|
| HP  | FLA | PowerFlex 753      | Line Lugs (Per Phase) | Load Lugs (Per Phase) |
| 10  | 14  | 20F11ND014JA0NNNNN | Use DRIVE TB          | Use DRIVE TB          |
| 15  | 21  | 20F11ND022JA0NNNNN | Use DRIVE TB          | Use DRIVE TB          |
| 20  | 27  | 20F11ND027JA0NNNNN | Use DRIVE TB          | Use DRIVE TB          |
| 25  | 34  | 20F11ND034JA0NNNNN | Use DRIVE TB          | Use DRIVE TB          |
| 30  | 40  | 20F11ND040JA0NNNNN | Use DRIVE TB          | Use DRIVE TB          |
| 40  | 52  | 20F11ND052JA0NNNNN | Use DRIVE TB          | Use DRIVE TB          |
| 50  | 65  | 20F11ND065JA0NNNNN | Use DRIVE TB          | Use DRIVE TB          |
| 60  | 77  | 20F11ND077JA0NNNNN | Use DRIVE TB          | Use DRIVE TB          |
| 75  | 96  | 20F11ND096JA0NNNNN | Use DRIVE TB          | Use DRIVE TB          |
| 100 | 124 | 20F1AND125JN0NNNNN | (1) CSWS-3/0-38       | (1) CSWS-3/0-38       |
| 125 | 156 | 20F1AND156JN0NNNNN | (1) CSWS-4/0-38       | (1) CSWS-4/0-38       |
| 150 | 180 | 20F1AND186JN0NNNNN | (1) CSWS-250-38       | (1) CSWS-250-38       |
| 200 | 240 | 20F1AND248JN0NNNNN | (1) CSWS-350-38       | (1) CSWS-350-38       |
| 250 | 302 | 20F1AND302JN0NNNNN | (2) CSWS-4/0-38       | (2) CSWS-4/0-38       |
| 300 | 361 | 20F1AND361JN0NNNNN | (2) CSWS-250-38       | (2) CSWS-250-38       |
| 350 | 415 | 20F1AND415JN0NNNNN | (2) CSWS-250-38       | (2) CSWS-250-38       |
| 400 | 477 | 20F1AND477JN0NNNNN | (2) CSWS-350-38       | (2) CSWS-350-38       |

OPTIONAL ADDER - LOAD REACTOR  
Load side Lugs Provided By Others. See  
table for Recommended Lugs

|     |     | Line Reactor      | Load Reactor      |                            |                            |                 |                     |
|-----|-----|-------------------|-------------------|----------------------------|----------------------------|-----------------|---------------------|
| HP  | FLA | 3% Reactor. LRX-V | 5% Reactor. LRX-M | Line Side Lugs (Per Phase) | Load Side Lugs (Per Phase) | Power Conductor | NO. Of Cables/Phase |
| 10  | 14  | CRX0014AC         | CRX0014BC         | Use RX TB                  | Use RX TB                  | 12 AWG          | 1C / PHASE          |
| 15  | 21  | CRX0021AC         | CRX0021BC         | Use RX TB                  | Use RX TB                  | 10 AWG          | 1C / PHASE          |
| 20  | 27  | CRX0027BC         | CRX0027CC         | Use RX TB                  | Use RX TB                  | 8 AWG           | 1C / PHASE          |
| 25  | 34  | CRX0034AC         | CRX0034BC         | Use RX TB                  | Use RX TB                  | 8 AWG           | 1C / PHASE          |
| 30  | 40  | CRX0040AC         | CRX0040BC         | Use RX TB                  | Use RX TB                  | 6 AWG           | 1C / PHASE          |
| 40  | 52  | CRX0052BC         | CRX0052DC         | Use RX TB                  | Use RX TB                  | 4 AWG           | 1C / PHASE          |
| 50  | 65  | CRX0065AC         | CRX0065BC         | (1) ADR11                  | (1) ADR11                  | 3 AWG           | 1C / PHASE          |
| 60  | 77  | CRX0077AC         | CRX0077DC         | (1) ADR11                  | (1) ADR11                  | 3 AWG           | 1C / PHASE          |
| 75  | 96  | CRX0096AC         | CRX0096BC         | (1) ADR11                  | (1) ADR11                  | 1 AWG           | 1C / PHASE          |
| 100 | 124 | CRX0124AC         | CRX0124BC         | (1) CSWS-3/0-38            | (1) CSWS-3/0-38            | 2 / 0 AWG       | 1C / PHASE          |
| 125 | 156 | CRX0156AC         | CRX0156BC         | (1) CSWS-4/0-38            | (1) CSWS-4/0-38            | 3 / 0 AWG       | 1C / PHASE          |
| 150 | 180 | CRX0180AC         | CRX0180BC         | (1) CSWS-250-38            | (1) CSWS-250-38            | 4 / 0 AWG       | 1C / PHASE          |
| 200 | 240 | CRX0240AC         | CRX0240BC         | (1) CSWS-350-38            | (1) CSWS-350-38            | 262 KCMIL       | 1C / PHASE          |
| 250 | 302 | CRX0302AC         | CRX0302BC         | (1) ADR25-21               | (1) ADR25-21               | 3 / 0 AWG       | 2C / PHASE          |
| 300 | 361 | CRX0361AC         | CRX0361BC         | (1) ADR25-21               | (1) ADR25-21               | 4 / 0 AWG       | 2C / PHASE          |
| 350 | 415 | CRX0414AC         | CRX0414BC         | (1) ADR25-21               | (1) ADR25-21               | 4/0 AWG         | 2C / PHASE          |
| 400 | 477 | CRX0477AC         | CRX0477BC         | (2) CSWS-350-38            | (2) CSWS-350-38            | 262 KCMIL       | 2C / PHASE          |



OPTIONAL ADDER  
dV/dT- Filter: Load side Lugs Provided By Others. See table for Recommended Lugs

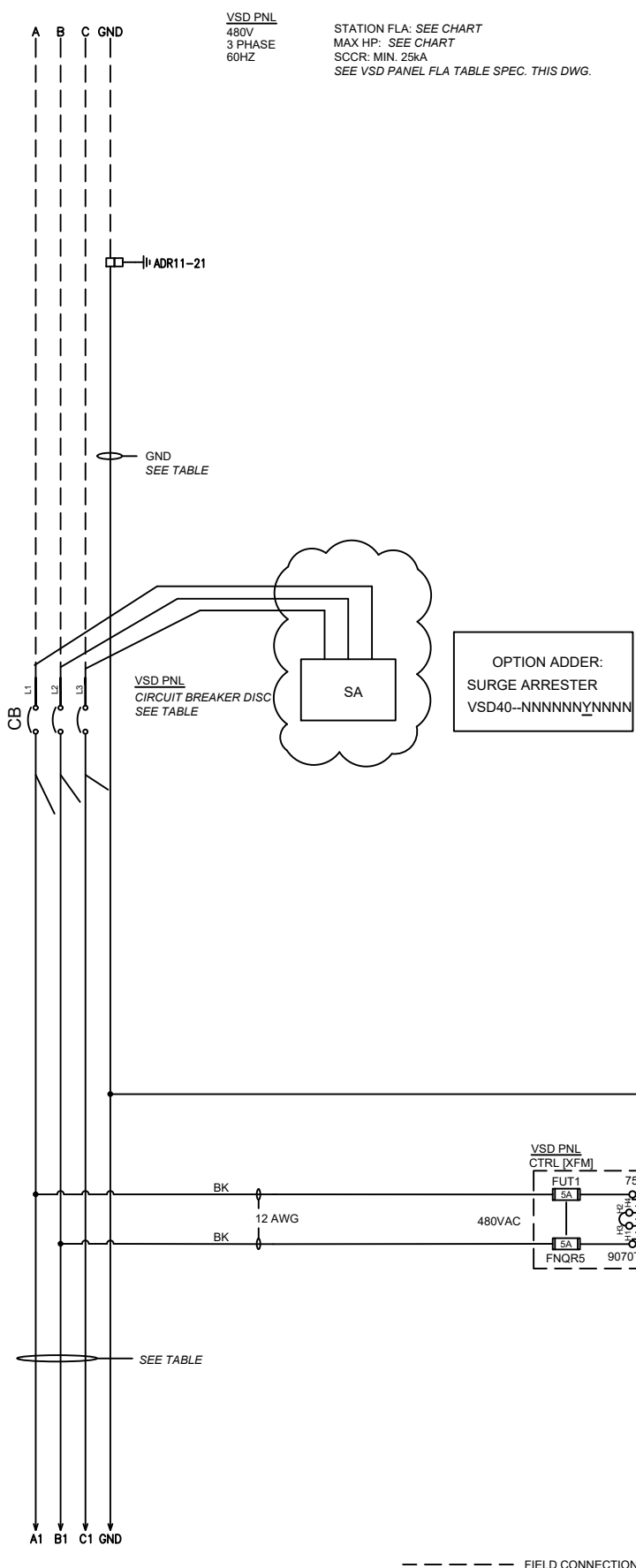
| dV/dT - Filter |     |           |                            |                       |                 |                     |
|----------------|-----|-----------|----------------------------|-----------------------|-----------------|---------------------|
| HP             | FLA | dV/dT     | Line Side Lugs (Per Phase) | Load Side (Per Phase) | Power Conductor | NO. Of Cables/Phase |
| 10             | 14  | V1K16A00  | Use RX Lug                 | Use RX Lug            | 12 AWG          | 1C / PHASE          |
| 15             | 21  | V1K21A00  | Use RX Lug                 | Use RX Lug            | 10 AWG          | 1C / PHASE          |
| 20             | 27  | V1K27A00  | Use RX Lug                 | Use RX Lug            | 8 AWG           | 1C / PHASE          |
| 25             | 34  | V1K35A00  | Use RX Lug                 | Use RX Lug            | 8 AWG           | 1C / PHASE          |
| 30             | 40  | V1K45A00  | Use RX Lug                 | Use RX Lug            | 6 AWG           | 1C / PHASE          |
| 40             | 52  | V1K55A00  | Use RX Lug                 | Use RX Lug            | 4 AWG           | 1C / PHASE          |
| 50             | 65  | V1K80A00  | Use RX Lug                 | Use RX Lug            | 3 AWG           | 1C / PHASE          |
| 60             | 77  | V1K80A00  | Use RX Lug                 | Use RX Lug            | 3 AWG           | 1C / PHASE          |
| 75             | 96  | V1K110A00 | Use RX Lug                 | Use RX Lug            | 1 AWG           | 1C / PHASE          |
| 100            | 124 | V1K130A00 | Use RX Lug                 | Use RX Lug            | 2 / 0 AWG       | 1C / PHASE          |
| 125            | 156 | V1K160A00 | Use RX Lug                 | Use RX Lug            | 3 / 0 AWG       | 1C / PHASE          |
| 150            | 180 | V1K200A00 | CSWS-250-38                | CSWS-250-38           | 4 / 0 AWG       | 1C / PHASE          |
| 200            | 240 | V1K250A00 | CSWS-350-38                | CSWS-350-38           | 262 KCMIL       | 1C / PHASE          |
| 250            | 302 | V1K305A00 | Use RX Lug                 | Use RX Lug            | 3 / 0 AWG       | 2C / PHASE          |
| 300            | 361 | V1K362A00 | Use RX Lug                 | Use RX Lug            | 4 / 0 AWG       | 2C / PHASE          |
| 350            | 415 | V1K420A00 | Use RX Lug                 | Use RX Lug            | 4/0 AWG         | 2C / PHASE          |
| 400            | 477 | V1K480A00 | Use RX Lug                 | Use RX Lug            | 262 KCMIL       | 2C / PHASE          |

MOTOR  
480VAC 60HZ 3P

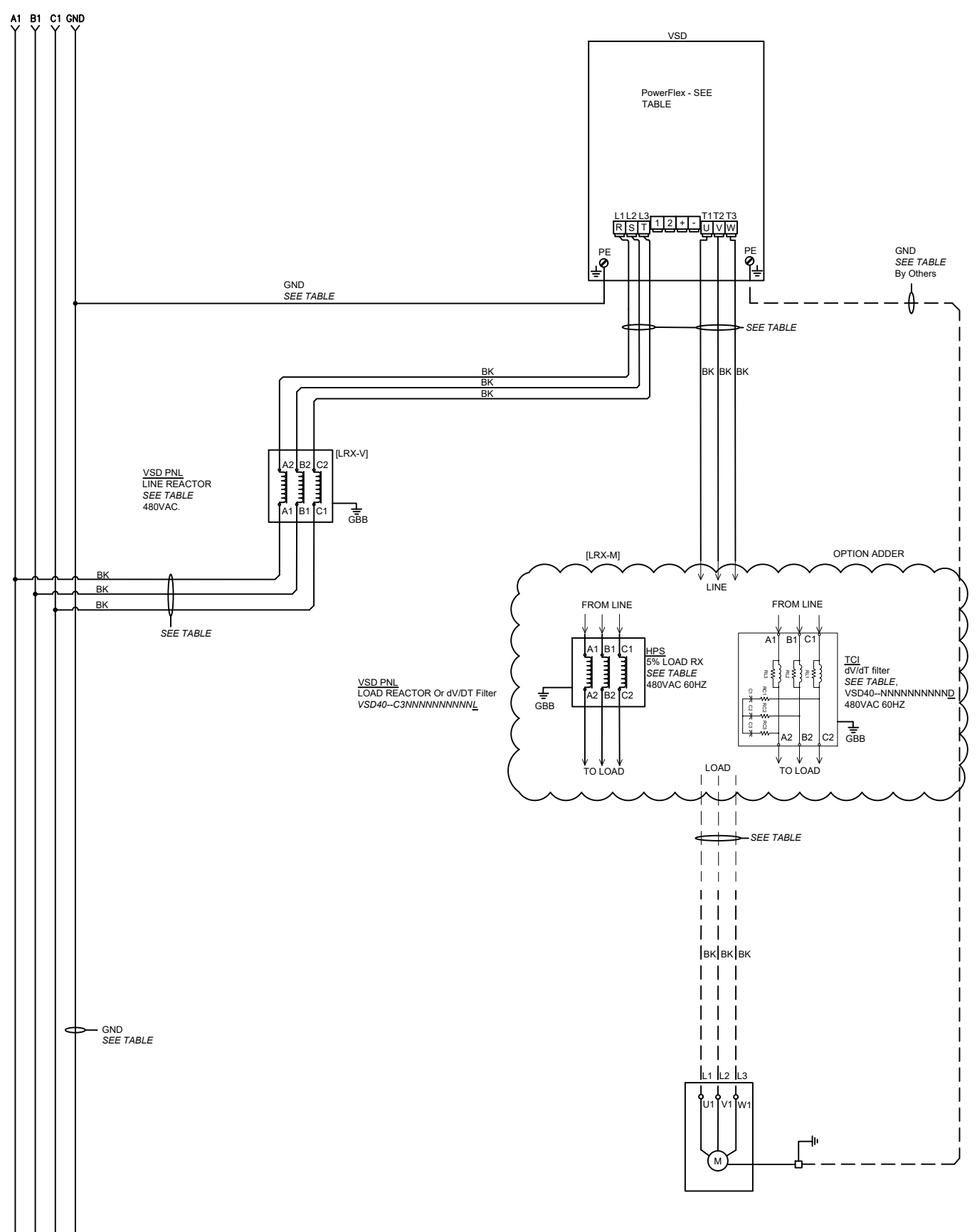
FIELD CONNECTION BY OTHERS - - - - -

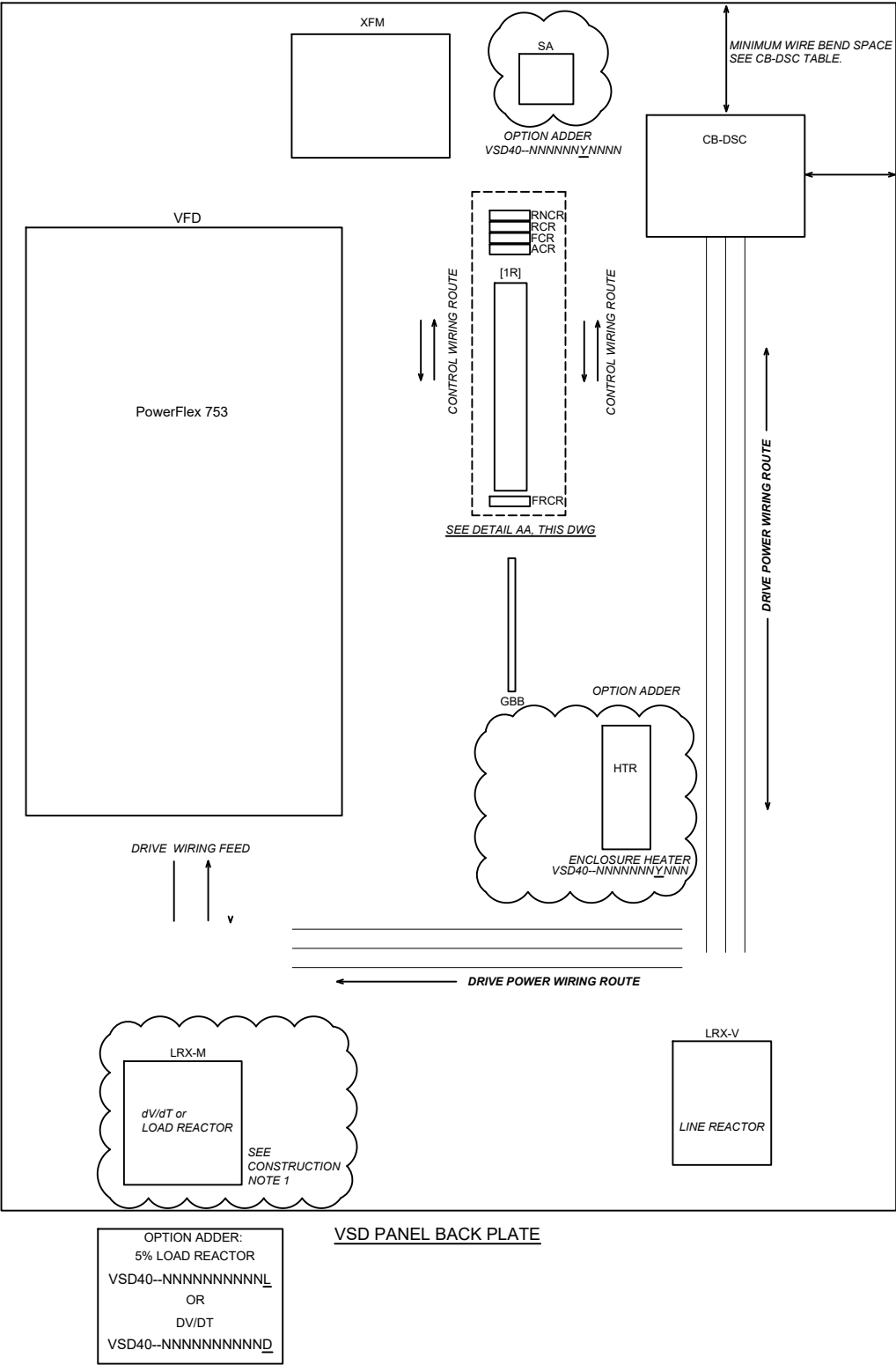
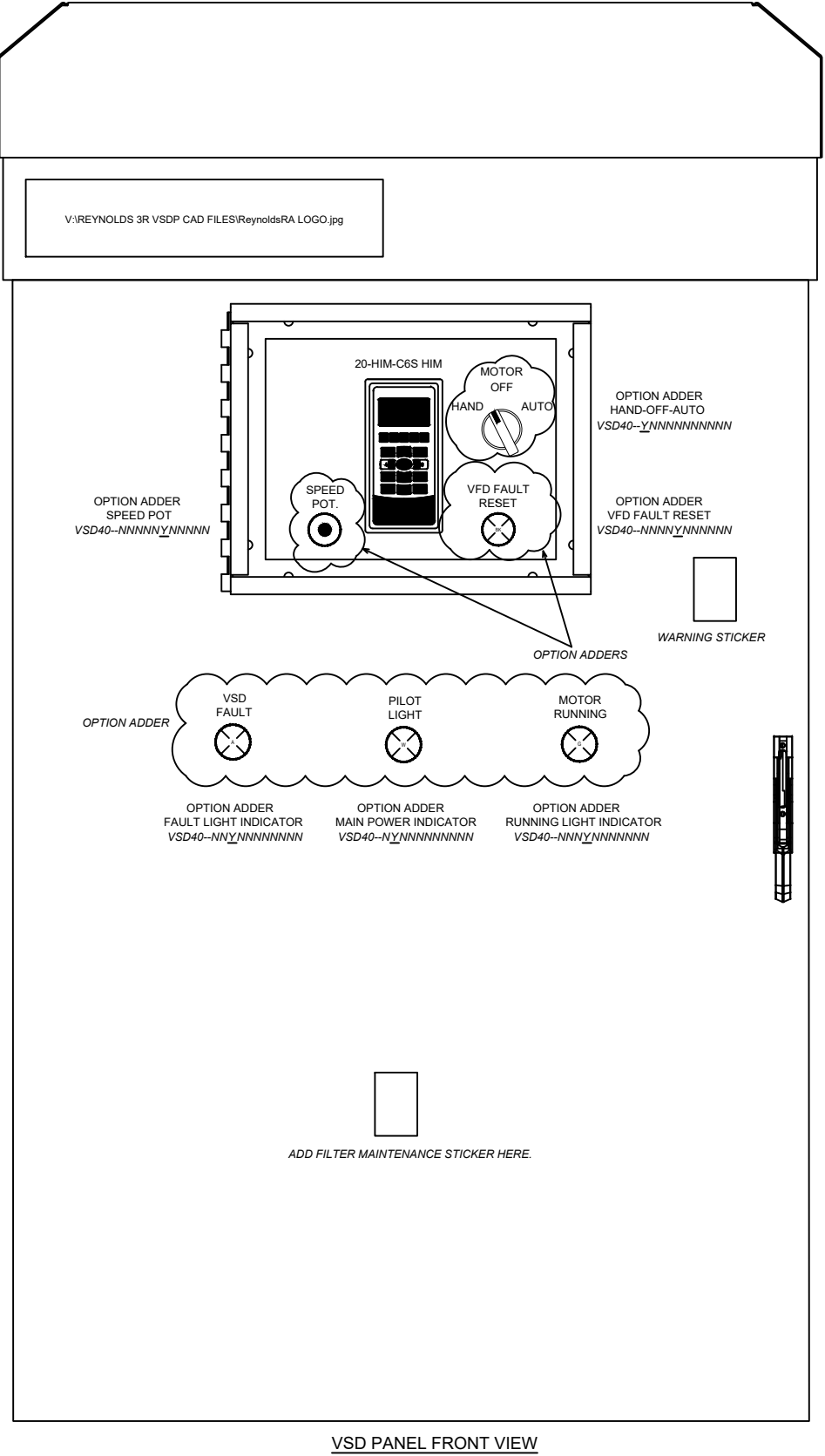
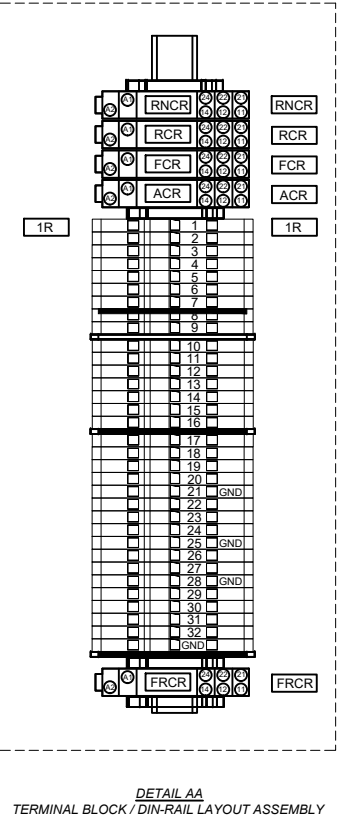
3P 480VAC VFD PANEL  
ONE-LINE DIAGRAM

DWG. E-1003  
REV.G



| VFD PANEL FLA CHART |     |         |             |
|---------------------|-----|---------|-------------|
| HP                  | FLA | CTL XFM | STATION FLA |
| 10                  | 14  | 1.6     | 15.6        |
| 15                  | 21  | 1.6     | 22.6        |
| 20                  | 27  | 1.6     | 28.6        |
| 25                  | 34  | 1.6     | 35.6        |
| 30                  | 40  | 1.6     | 41.6        |
| 40                  | 52  | 1.6     | 53.6        |
| 50                  | 65  | 1.6     | 66.6        |
| 60                  | 77  | 1.6     | 78.6        |
| 75                  | 96  | 1.6     | 97.6        |
| 100                 | 124 | 1.6     | 125.6       |
| 125                 | 156 | 1.6     | 157.6       |
| 150                 | 180 | 1.6     | 181.6       |
| 200                 | 240 | 1.6     | 241.6       |
| 250                 | 302 | 1.6     | 303.6       |
| 300                 | 361 | 1.6     | 362.6       |
| 350                 | 415 | 1.6     | 416.6       |
| 400                 | 477 | 1.6     | 478.6       |

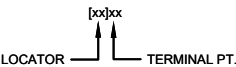




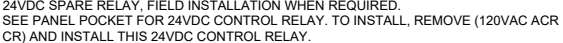
CONSTRUCTION NOTES  
1. MAINTAIN 3" MIN. CLEARANCE ON ALL SIDES TO OTHER EQUIPMENT.

3P 480VAC VFD PANEL  
FRONT VIEW & GENERAL ARRANGEMENT

DWG. E-1005  
REV.G

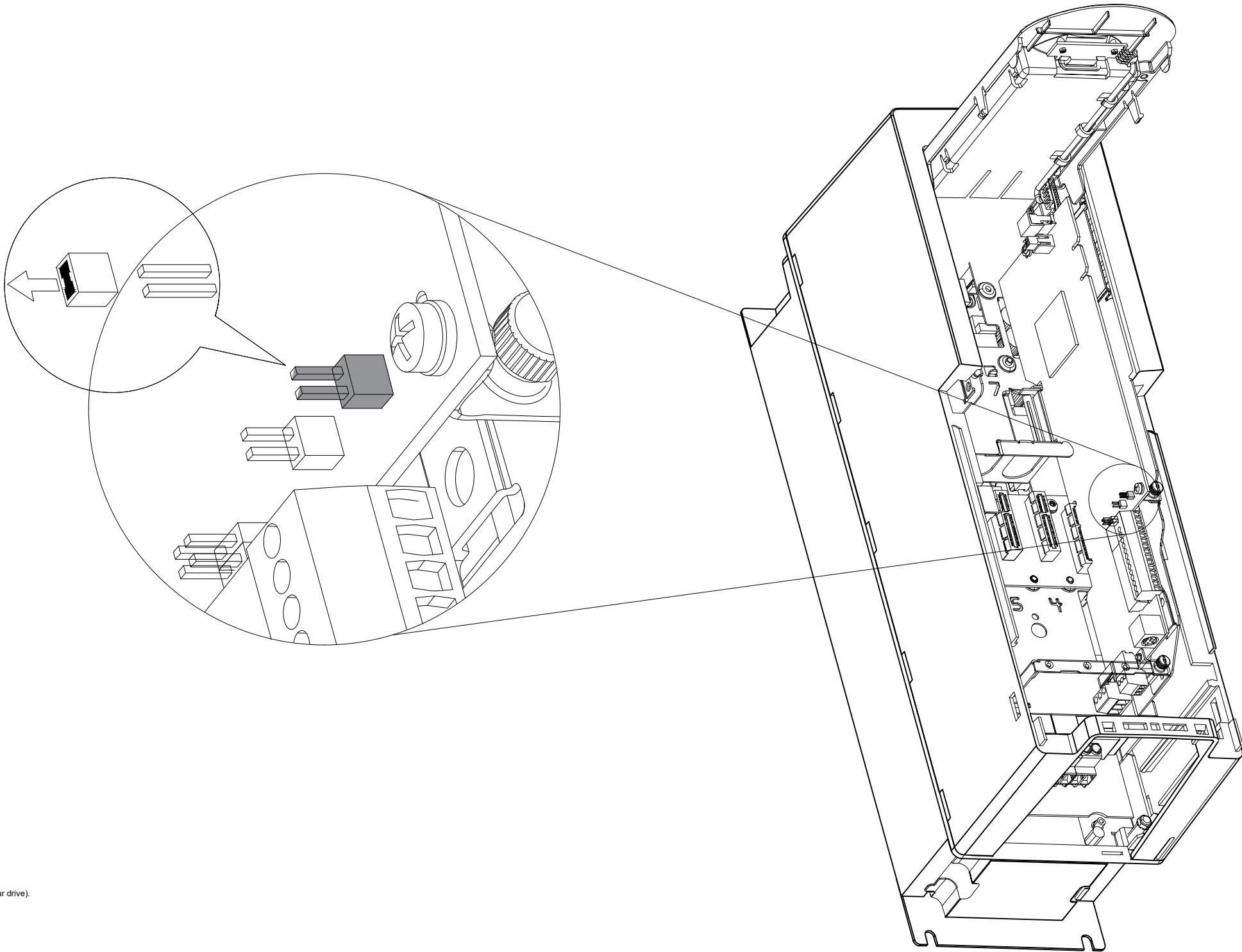


**LENGEND**  
 ACR.....AUTO CTRL RELAY  
 RNCR.....RUNNING CTRL RELAY  
 FCR.....FAULT CTRL RELAY  
 FRCR.....FAULT RESET CTRL RELAY  
 RCR.....RUN CTRL RELAY  
 GBB.....GROUND BUS BAR  
 CR.....CONTROL RELAY COIL





# PowerFlex 753 - ENABLE JUMPER LOCATION



**HARDWARE ENABLE CIRCUITRY.**  
To configure digital input 0 as a dedicated hardware enable, follow these steps.  
1. Access the control pod. See Drive installation manual pg. 234  
2. Locate and remove ENABLE jumper on the Main Control Board (see the figure for your drive).