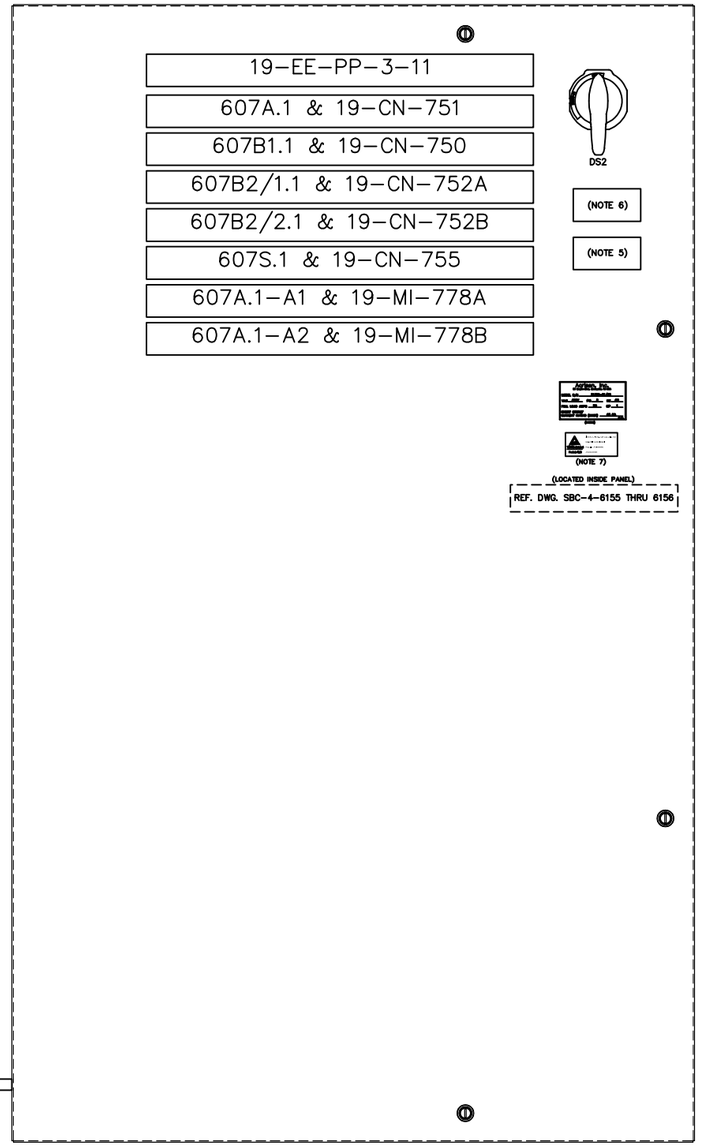
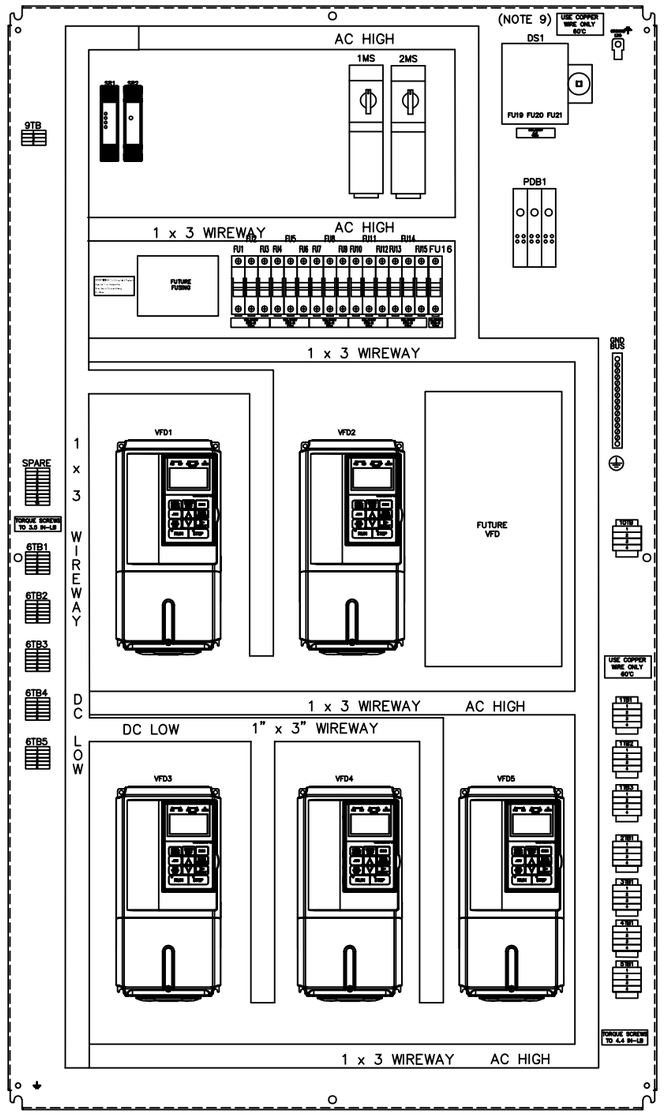
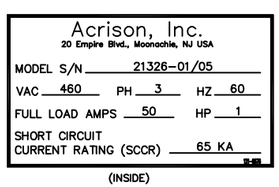




NEMA 4/12 ENCLOSURE
60 X 36 X 10
[1524 X 914 X 254]



(INSIDE)

NOTES:

1. FOR WIRING DIAGRAMS SEE DWG. NO. SBC-4-6152 THROUGH 6154.
2. FOR BASIC INTERCONNECTIONS SEE DWG. NO. SBC-4-6155 THROUGH 6156.
3. DIMENSIONS IN BRACKETS ARE MILLIMETERS (mm) AND ARE FOR REFERENCE ONLY.
4. MANUFACTURING CODE: 21326-01/05E2
5. LABEL: ARC FLASH HAZARD
6. LABEL: DISCONNECT POWER BEFORE OPENING
7. PANEL IS TUV LABELED TO UL508A.
8. BOND DOOR TO ENCLOSURE TO PANEL GROUND BAR.
9. MAIN 480V POWER SOURCE FROM LVMCC PER DRAWING SBC-4-6152.
9. PANEL HEAT LOSS: 357W
10. PANEL WEIGHT: APPROX. 263LBS

LTR	REVISIONS	DWN	DATE
C	ADDED TAGS, GROUND POST	FM	7/20/22
B	VFD'S WERE PF525, PANEL WAS 48 X 36	FM	3/10/22
A	ADDED SPARE TB'S, LABELS	CM	8/26/21

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Acrison®
Acrison, Inc., 20 Empire Blvd., Moonachie, NJ 07074

SBC-2000 (5) G7'S & (2) MS
NEMA 4 PANEL LAYOUT
DESMET BALLESTRA S/N 21326-01/05

SCALE	DWN	DATE	CKD	DATE	DWG. NO.	REV.
1/4"=1"	CM	6/3/21	RG	6/3/21	SBC-10-1744	C

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460V FUSED DISCONNECT DS1

460 VAC, 60 HZ, 3PH
50 AMPS
(PROVIDED BY OWNER)

L1 8 AWG → FU19 30A AJT → PDB1 L1 1T1 → to 127,152; 2T1 → to 203,227; 3T1 → to 251; 4T1 → to 303,314

L2 8 AWG → FU20 30A AJT → PDB1 L2 1T2 → to 128,153; 2T2 → to 204,228; 3T2 → to 252; 4T2 → to 303,314

L3 8 AWG → FU21 30A AJT → PDB1 L3 1T3 → to 129,154; 2T3 → to 205; 3T3 → to 253; 4T3 → to 229,303,314

G → GND LUG

115V UPS SUPPY
REF. DWG. SBC-4-6155
WIRING BY OTHERS

1 10TB 74 → FU16 (AMP) FNQ-R TYPE

2 10TB 1

EMERGENCY STOP
PB1
1 2 4 BLU → S11
3 BLU → S12
3 4 6 BLU → S21
5 (NOTE 7) 9TB BLU → S22
S14
S34

SR1 SAFETY RELAY
A1
A2
13 14 23 24 33 34 41 42

PHOENIX ACR PHNX 2901422

135,160,177

2 → to 176

to 177

S/N 21326-01

from 102 L1 → FU1 10A → 7

from 104 L2 → FU2 10A → 8

from 106 L3 → FU3 10A → 9

GRN/YEL

VFD1
YASKAWA
G7

PE L1 L2 L3

AC ANALOG COMMON → SN → 10

A2 ANALOG INPUT 4-20mA → S1

AM ANALOG OUTPUT 4-20mA → S2

E GND → S12 EMERGENCY STOP → 14 SR1 13 NO SAFETY RELAY; 11

SP

SC +24VDC

MODBUS RS-485
S- R- 12 W/BLU
S+ R+ 13 BLU

PE T1 T2 T3 (NOTE 2)

14
1 4 2 5 3 6
6TB1

SCALE (MODBUS)

15 16 17

4 1 2 3
1TB1

TO FEEDER MOTOR
21326-01
460V/3PH/60HZ
1 HP @ 1.55 FLA
607A.1 & 19-CN-751

S/N 21326-02

from 102 L1 → FU4 10A → 18

from 104 L2 → FU5 10A → 19

from 106 L3 → FU6 10A → 20

GRN/YEL

VFD2
YASKAWA
G7

PE L1 L2 L3

AC ANALOG COMMON → SN → 21

A2 ANALOG INPUT 4-20mA → S1

AM ANALOG OUTPUT 4-20mA → S2

E GND → S12 EMERGENCY STOP → 24 SR1 23 NO SAFETY RELAY; 22

SP

SC +24VDC

MODBUS RS-485
S- R- 23 W/BLU
S+ R+ 24 BLU

PE T1 T2 T3 (NOTE 2)

25
1 4 2 5 3 6
6TB2

SCALE (MODBUS)

26 27 28

4 1 2 3
2TB1

TO FEEDER MOTOR
21326-02
460V/3PH/60HZ
1 HP @ 1.55 FLA
607B1.1 & 19-CN-750

from 122

2 34 169 SR1 33 SAFETY RELAY 29

from 122 1

SR2 SAFETY RELAY EXPANSION
A1 A2
13 14 23 24 33 34 43 44 51 52 61 62

211,234,259,327

NOTES:
1. ALPHA TYPE 2461 (22 AWG 2 CONDUCTOR SHIELDED) OR EQUIVALENT.
2. BELDEN 9841 (24 AWG SHIELDED TWISTED PAIR) OR EQUAL.
3. ALL BOLD WIRING IS 14 AWG, ALL OTHER WIRING IS 18 AWG, UNLESS OTHERWISE NOTED.
4. FOR OTHER WIRING DIAGRAMS SEE DWG. NO. SBC-4-6152 THRU 6154.
5. FOR BASIC INTERCONNECTIONS SEE DWG. NO. SBC-4-6155 THRU 6156.
6. FOR PANEL LAYOUT SEE DWG. NO. SBC-10-1744.
7. DASHED WIRING BY CUSTOMER.

LTR	REVISIONS	DWN	DATE
B	VFD'D WERE PF525	FM	3/11/22
A	ADDED MOTOR TAGS	CM	8/27/21

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SBC-2000 CM (5) W/G7/BD
WIRING DIAGRAM (SHEET 1 OF 3)
DESMET BALLESTRA S/N 21326-01/05

SCALE	DWN	DATE	CKD	DATE	DWG. NO.	REV.
NONE	CM	6/4/21	BM	6/4/21	SBC-4-6152	B

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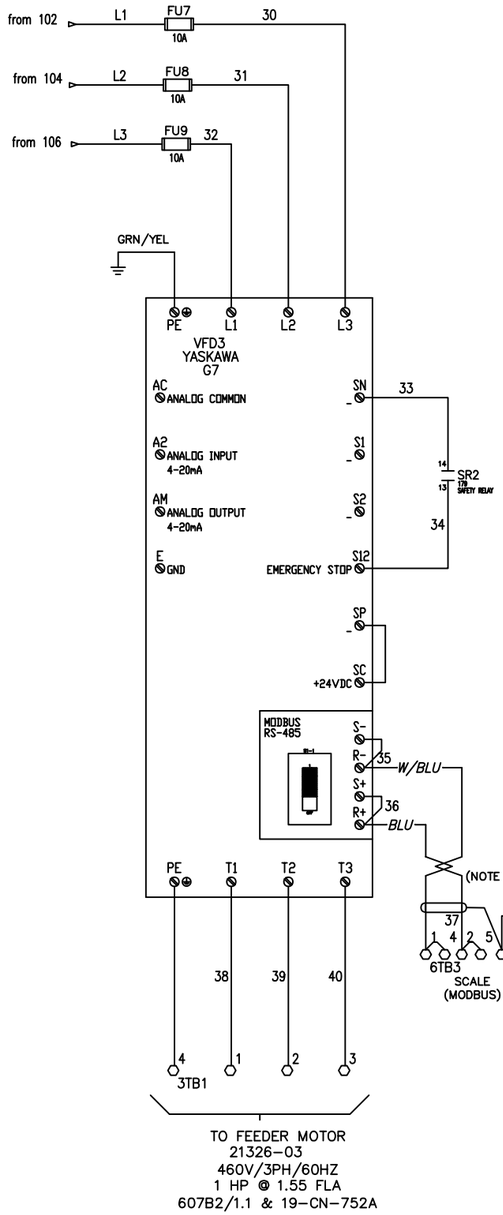
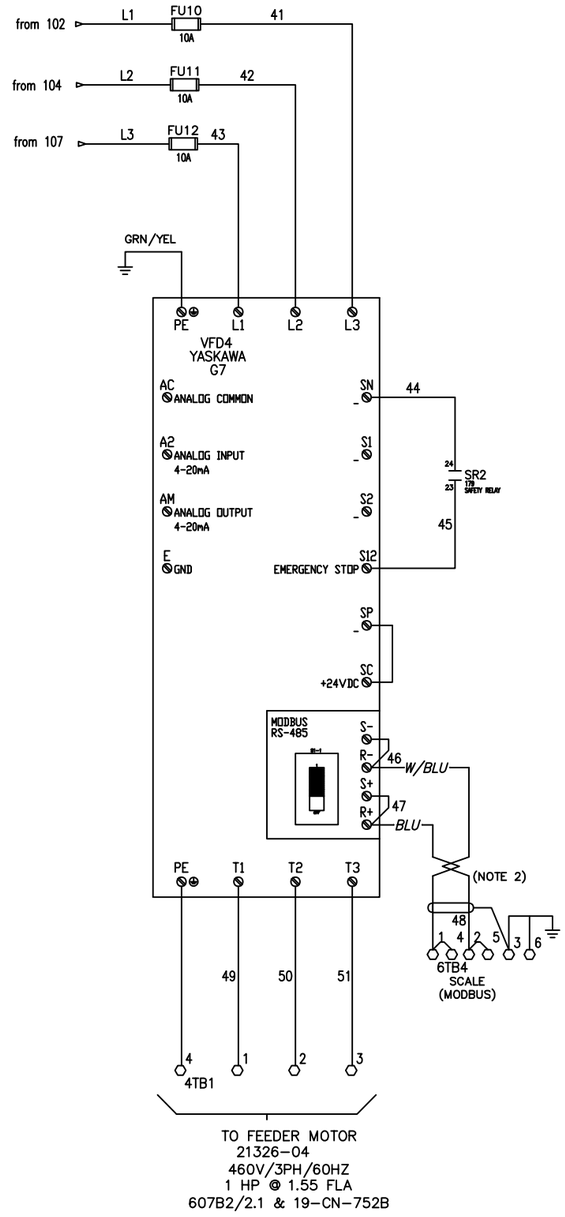
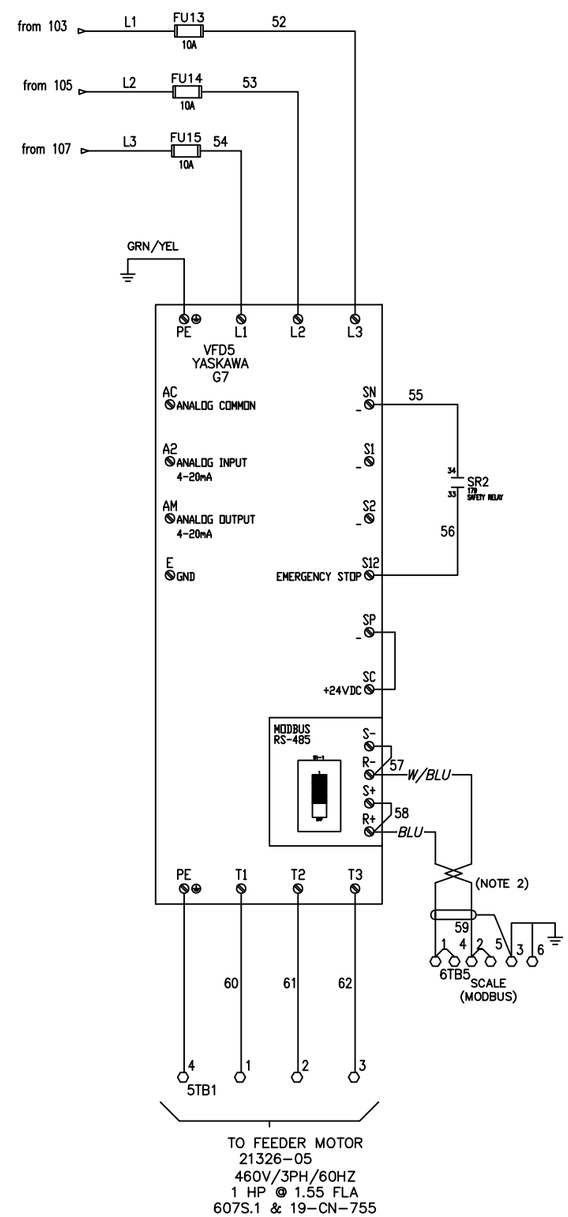
S/N 21326-03



S/N 21326-04



S/N 21326-05



NOTES:

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2. BELDEN 9841 (24 AWG SHIELDED TWISTED PAIR) OR EQUAL.
3. ALL BOLD WIRING IS 14 AWG, ALL OTHER WIRING IS 18 AWG, UNLESS OTHERWISE NOTED.
4. FOR OTHER WIRING DIAGRAMS SEE DWG. NO. SBC-4-6152 THRU 6154.
5. FOR BASIC INTERCONNECTIONS SEE DWG. NO. SBC-4-6155 THRU 6156.
6. FOR ENCLOSURE AND PANEL LAYOUT SEE DWG. NO. SBC-10-1744.

LTR	REVISIONS	DWN	DATE
B	VFD'S WERE PF525	FM	3/11/22
A	ADDED MOTOR TAGS	CM	8/27/21

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SBC-2000 CM (5) W/G7/MS
WIRING DIAGRAM (SHEET 2 OF 3)
DESMET BALLESTRA S/N 21326-01/05

SCALE	DWN	DATE	CHD	DATE	DWG. NO.	REV.
NONE	CM	6/4/21	B.M.	6/4/21	SBC-4-6153	B

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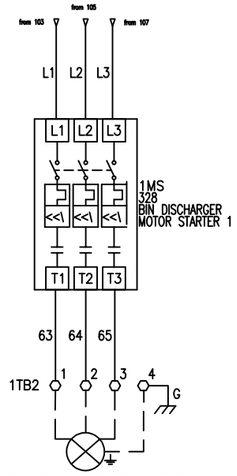
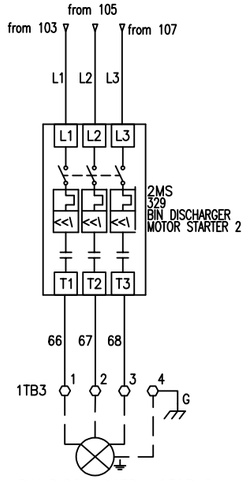
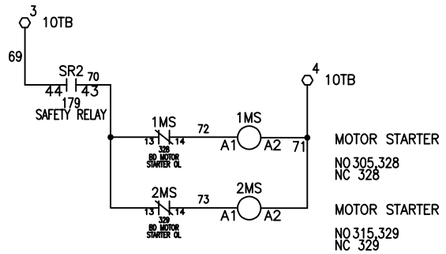


BIN DISCHARGER MOTOR 1
460V/3Ø/60Hz
1/3 HP/0.65 FLA
S/N 21326-01
607A.1-A1 & 19-MI-778A



BIN DISCHARGER MOTOR 2
460V/3Ø/60Hz
1/3 HP/0.65 FLA
S/N 21326-01
607A.1-A2 & 19-MI-778B



S/N 21326-01

NOTES:
1. ALL **BOLD** WIRING IS 14 AWG,
2. ALL WIRING IS 18 AWG, UNLESS OTHERWISE NOTED.
3. FOR OTHER WIRING DIAGRAMS SEE DWG. NO. SBC-4-6152 THRU 6154.
4. FOR BASIC INTERCONNECTIONS SEE DWG. NO. SBC-4-6155 THRU 6156.
5. FOR PANEL LAYOUT SEE DWG. NO. SBC-10-1744.

LTR	REVISIONS	DWN	DATE
B	10TB WAS 7TB1	FM	3/11/22
A	ADDED MOTOR LABELS, TB'S	CM	8/27/21

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SBC-2000 CM (5) W/G7's & MS
WIRING DIAGRAM (SHEET 3 OF 3)
DESMET BALLESTRA
S/N 21326-01/05

SCALE	DWN	DATE	CKD	DATE	DWG. NO.	REV.
NONE	CM	6/4/21	BM	6/4/21	SBC-4-6154	B

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