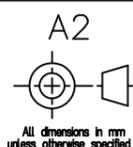


TAGNAME	CATALOG DESCRIPTION	RATING/FUNCTION	MANUFACTURER	CATALOG NUMBER	QUANTITY
A1	PHASE CASSETTE (XXXX/11kV)	0080-0300A/11kV	AUCOM ELECTRONICS	MVX-XXX-V11-C12-E0	1
A1-1/2/3	MVX /LCM FIBRE OPTIC BOOSTER PCB		AUCOM ELECTRONICS	990-10577-00	3
A3	INTERFACE PCB		AUCOM ELECTRONICS	990-15436-00	1
A4	MVX/LCM CONTROLLER MODULE		AUCOM ELECTRONICS	991-09869-00	1
A5	MVX/LCM AUX PS SURGE PROTECTION PCB		AUCOM ELECTRONICS	990-10858-00	1
A6	MVX/LCM POWER SUPPLY ISOLATOR PCB		AUCOM ELECTRONICS	990-10835-00	1
CT1-3	CT 500/1A,5P30,1VA	(11-13)	AUCOM ELECTRONICS	370-16270-00	3
EMS	EMERGENCY STOP ACTUATOR (INCL: 1N/C CONTACT)	MVX E.STOP	LOVATO	LPX ESTOP	1
EMS	EMERGENCY STOP LABEL		LOVATO	LPX AU115	1
EMS1	CONTACT BLOCK (N/O)		LOVATO	LPX C10	1
F1-3	MV PROTECTION FUSE	12kV/160A	ABB	CMF 12kV/160A DIN442mm	3
K1	CONTACTOR - DRAWOUT FUSED (MAIN)	12kV/400A (DC24V)	ABB	VSC/P 12 (24 V)	1
K1	CONTACTOR CABLE LOOM & PLUG	64-PIN	ABB	1VCF599700R0161	1
K1	MV FUSE	12kV/160A	ABB	CMF160	3
K2	CONTACTOR - FIXED (BYPASS)	12kV/400A (DC24V)	ABB	VSC 12 (24 V)	1
K40	RELAY - 4PDT (24VDC)	STACK FAN CONTROL	FINDER	56.349.024.0.074	1
K40	RELAY BASE - 4PDT		FINDER	96.74 SMA	1
T40	TIMER - MULTIFUNCTION	STACK FAN DELAY OFF	FINDER	87.01.0.240.0000	1
Q3	EARTH SWITCH	630A/31.5kA/12kV	TAVRIDA	JN15-12/31.5-275	1
Q3-1	AUXILIARY SWITCH BLOCK	(3NO+2NC)	TAVRIDA	FK10-11-32	1
Q10	MCB 10A/2P	CONTROL SUPPLY	ABB	S202M_C10	1
Q20	MCB 16A/2P	24VDC SUPPLY #1	ABB	S202M_C16	1
Q21	MCB 16A/2P	24VDC SUPPLY #2	ABB	S202M_C16	1
S1	SST/DOL+/DOL SWITCH (5 POLE/3 POSITION, STANDARD OP.)		KRAUS & NAIMER	CA10-NZ0541 *NZ0001-FT2	1
S2	RESET PUSHBUTTON (BLUE,N/C)	MVX RESET	LOVATO	LPC B1196+LPX AU120	1
S2	CONTACT BLOCK (N/C)		LOVATO	LPX C01	1
S2-1	CONTACT BLOCK (N/O)		LOVATO	LPX C10	1
S20	PLUNGER SWITCH	MV DOOR POSITION	CHERRY	GPTC-NH01	1
SMPS	POWER SUPPLY (IN: 85-276VAC/88-375VDC, OUT: 24VDC/20A)		DELTA	DRM-24V480W 1PN	1
TB1	CT TEST BLOCK (3 PHASE)	FOR CT1-3	PHOENIX	PH 5921498 (UTME AUCOM KIT)	1
U1-3	SURGE ARRESTER (MEDIUM VOLTAGE)	17.5kV/10kA	ABB	MWD14	3
U10	SURGE ARRESTER (LOW VOLTAGE)		BETTERMANN	V20-C/1+NPE-FS-385	1
VS	MVX/LCM VOLTAGE SENSOR ASSEMBLY PCB	(V1-V3)	AUCOM ELECTRONICS	990-10262-00	1
X1	TERMINAL-DOUBLE TIER	UPPER LV COMPARTMENT	PHOENIX	QTTCS 1.5	18
X1	TERMINAL-EARTH DOUBLE	UPPER LV COMPARTMENT	PHOENIX	QTTCS 1.5-PE	2
X2	TERMINAL-DOUBLE TIER	UPPER LV COMPARTMENT	PHOENIX	QTTCS 1.5	68
X2	TERMINAL-EARTH DOUBLE	UPPER LV COMPARTMENT	PHOENIX	QTTCS 1.5-PE	3
X3	TERMINAL-DOUBLE TIER	LOWER LV COMPARTMENT	PHOENIX	QTTCS 1.5	9
X3	TERMINAL-EARTH DOUBLE	LOWER LV COMPARTMENT	PHOENIX	QTTCS 1.5-PE	1
X10	TERMINAL-SINGLE	UPPER LV COMPARTMENT	PHOENIX	UK 5 N	4
X10	TERMINAL-EARTH SINGLE	UPPER LV COMPARTMENT	PHOENIX	USLKG 5	1

NOTES:
 1. THERE IS ONE 11kV MVX SOFTSTARTER PANEL SUPPLIED FOR THIS PROJECT.

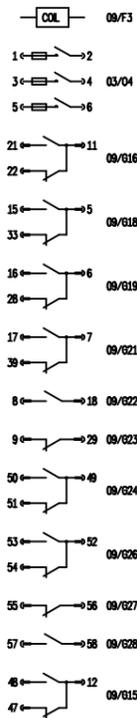
DRAWING NO:	TITLE_1	TITLE_2	REVISION
770-15242-001	MVX SOFTSTARTER PANEL	MATERIAL LIST & DRAWING INDEX	000
770-15242-002	MVX SOFTSTARTER PANEL	CROSS REFERENCE LISTS	000
770-15242-003	MVX SOFTSTARTER PANEL	SCHEMATIC DIAGRAM - MV POWER	000
770-15242-004	MVX SOFTSTARTER PANEL	SCHEMATIC DIAGRAM - CURRENT & VOLTAGE SENSING	000
770-15242-005	MVX SOFTSTARTER PANEL	SCHEMATIC DIAGRAM - PHASE CASSETTE CONTROL	000
770-15242-006	MVX SOFTSTARTER PANEL	SCHEMATIC DIAGRAM - INTERFACE PCB I/O	000
770-15242-007	MVX SOFTSTARTER PANEL	SCHEMATIC DIAGRAM - MVX CONTROLLER	000
770-15242-008	MVX SOFTSTARTER PANEL	SCHEMATIC DIAGRAM - LV POWER SUPPLIES	000
770-15242-009	MVX SOFTSTARTER PANEL	SCHEMATIC DIAGRAM - MAIN CONTACTOR CONTROL	000
770-15242-010	MVX SOFTSTARTER PANEL	SCHEMATIC DIAGRAM - BYPASS CONTACTOR CONTROL	000
770-15242-011	MVX SOFTSTARTER PANEL	MVX CABLE BLOCK DIAGRAM	000
770-15242-012	MVX SOFTSTARTER PANEL	MVX FIBRE OPTIC CONNECTION DETAILS	000
770-15242-013	MVX SOFTSTARTER PANEL	LV TERMINAL RAIL DETAILS: X1 & X10	000
770-15242-014	MVX SOFTSTARTER PANEL	LV TERMINAL RAIL DETAILS: X2 (1)	000
770-15242-015	MVX SOFTSTARTER PANEL	LV TERMINAL RAIL DETAILS: X2 (2)	000
770-15242-016	MVX SOFTSTARTER PANEL	LV TERMINAL RAIL DETAILS: X3 & TB1	000

PANEL DESIGNATION: MVXXX-V11-WC-FC-X-X-E-L-X

 <p>PO BOX 80208 CHRISTCHURCH NEW ZEALAND</p> <p>TEL: [+64] 3 3388280 WEB: www.aucom.com</p>	 <p>All dimensions in mm unless otherwise specified</p>	REFERENCES:	This drawing and the intellectual property contained herein is covered by international copyright. Use of it in whole, part or adaption in any manner or form, constitutes a violation of copyright; any infringement may result in claims for damages or prosecution against the unauthorised user. AuCom Electronics Limited 2010.	OOG	26/07/17	UPDATED FAN CONTROL CIRCUITS	DATE:	04/06/13	CUSTOMER: AUCOM MOTOR CONTROL SYSTEMS		
				OOF	15/02/17	REPLACED "S1" AND "SMPS"	DESIGNED BY:	E.D.	PROJECT: MVX SOFTSTARTER PANEL MATERIAL LIST & DRAWING INDEX		
				OOE	23/06/16	REPLACED "SMPS" AND ADDED "Q20 & Q21"	CHECKED BY:	B.V.	FILE NAME: 770-15242-001	REV:00G	SCALE:NTS
				REV:	DATE:	REVISION NOTE:	APPROVED BY:	B.D.	SO: -	SHT01 of 16	

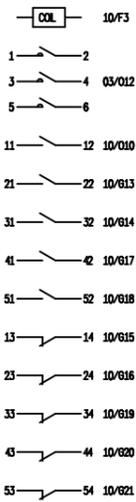
MAIN CONTACTOR
(WITHDRAWABLE/FUSED)

TAG : K1



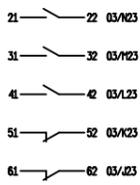
BYPASS CONTACTOR
(FIXED)

TAG : K2



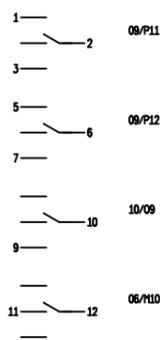
EARTH SWITCH AUXILIARIES

TAG : Q3-1



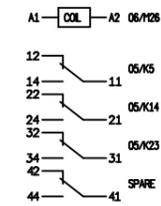
SST/DOL+/DOL
SELECTOR SWITCH

TAG : S1



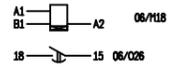
STACK FAN
CONTROL RELAY

TAG : K40

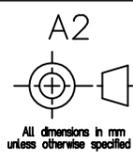


STACK FAN DELAY-OFF
MULTIFUNCTION TIMER

TAG : T40



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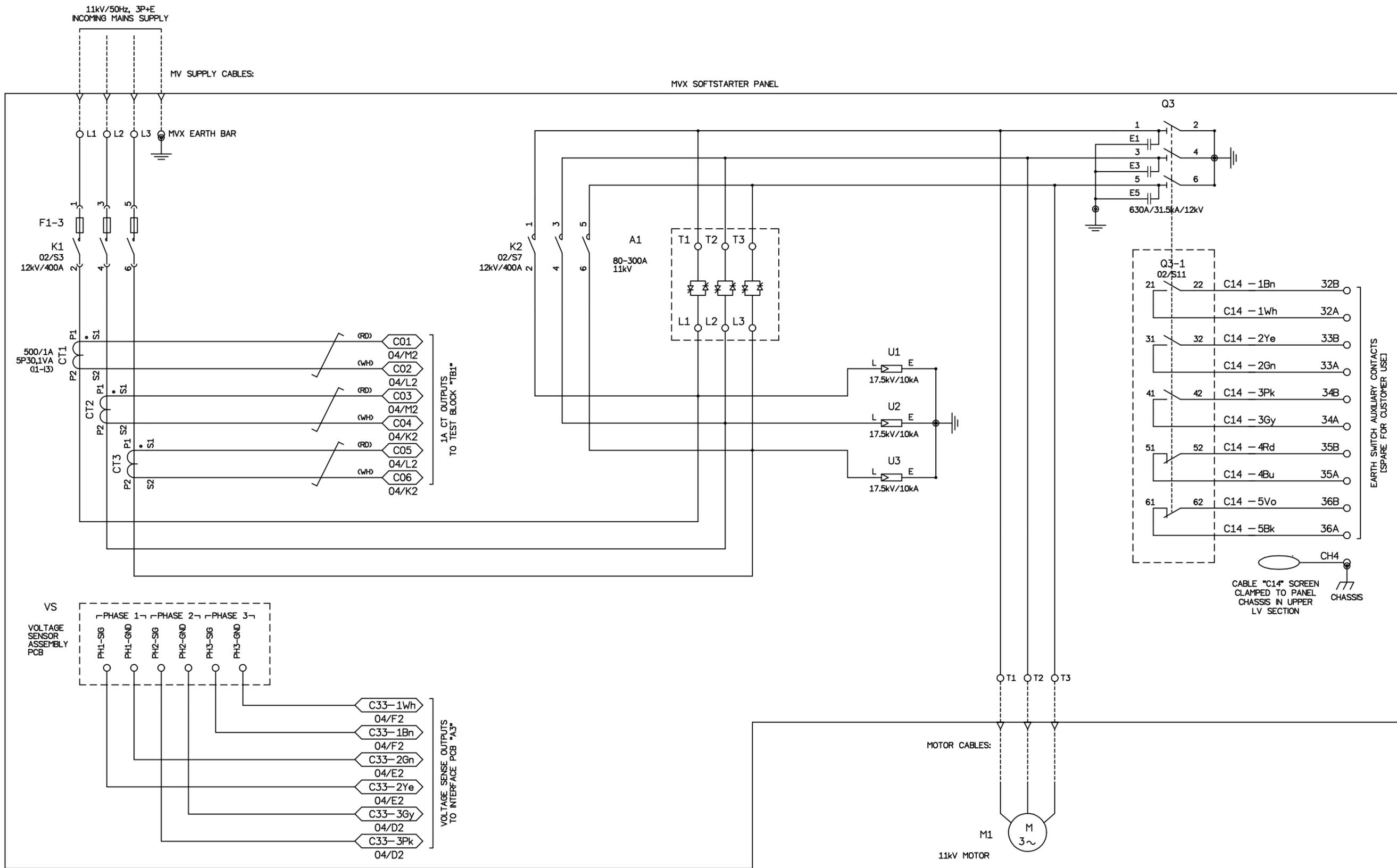
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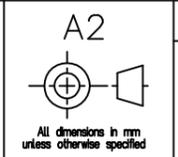
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OOF	15/02/17	REPLACED "S1" AND "SMPS"	DESIGNED BY:	E.D.
OOE	23/06/16	REPLACED "SMPS" AND ADDED "Q20 & Q21"	CHECKED BY:	B.V.
REV:	DATE:	REVISION NOTE:	APPROVED BY:	B.D.

CUSTOMER:	AUCOM MOTOR CONTROL SYSTEMS
PROJECT:	MXV SOFTSTARTER PANEL CROSS REFERENCE LISTS
FILE NAME:	770-15242-002
SO:	-

REV:00G	SCALE:NTS
SHT02 of 16	



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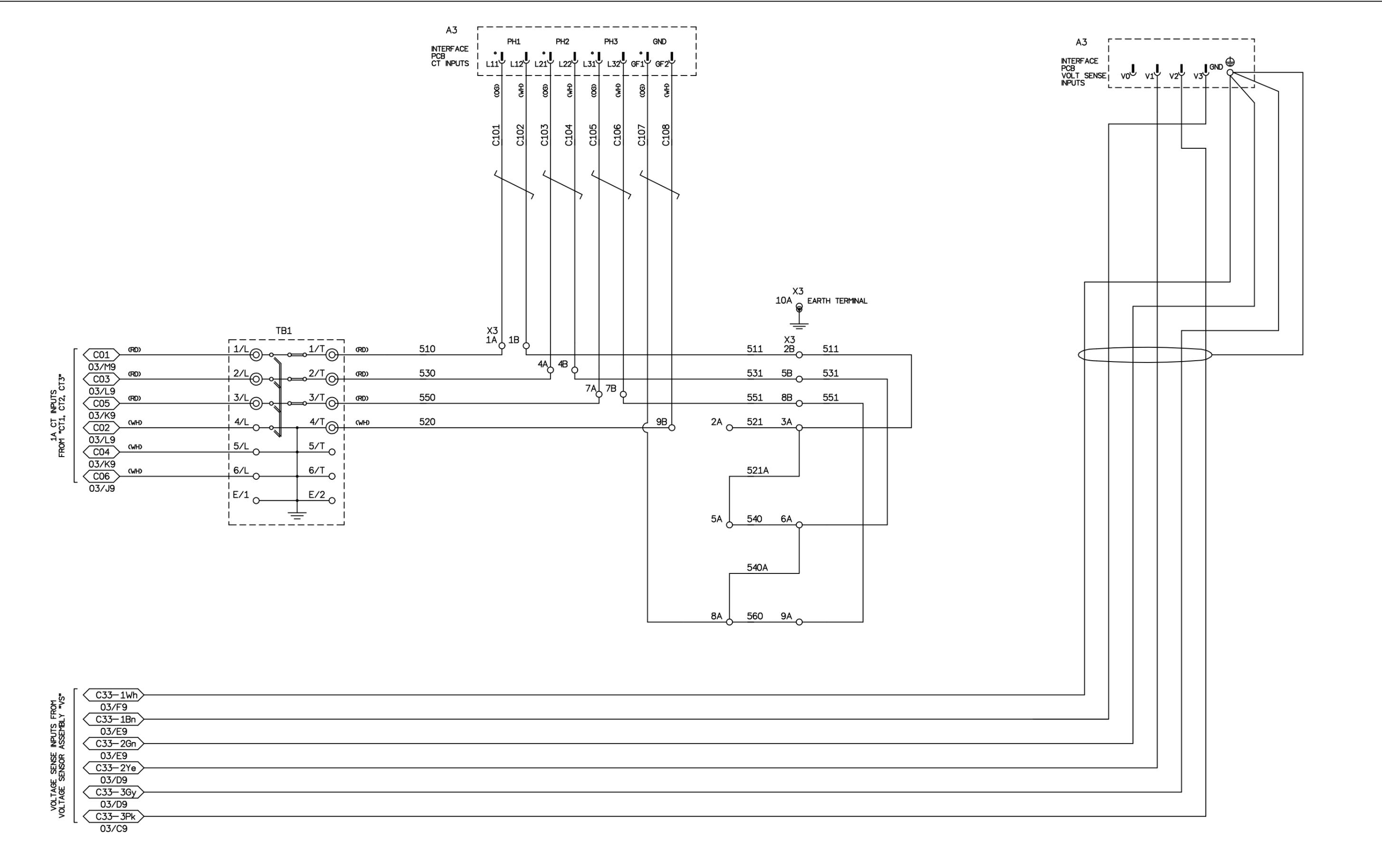


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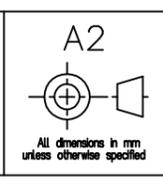
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OOF	15/02/17	REPLACED "S1" AND "SMPS"	DESIGNED BY:	E.D.
OOE	23/06/16	REPLACED "SMPS" AND ADDED "Q20 & Q21"	CHECKED BY:	B.V.
REV:	DATE:	REVISION NOTE:	APPROVED BY:	B.D.

CUSTOMER: AUCOM MOTOR CONTROL SYSTEMS	
PROJECT: MVX SOFTSTARTER PANEL	
SCHEMATIC DIAGRAM - MV POWER	
FILE NAME: 770-15242-003	REV:00G
SO: -	SHT03 of 16
SCALE:NTS	



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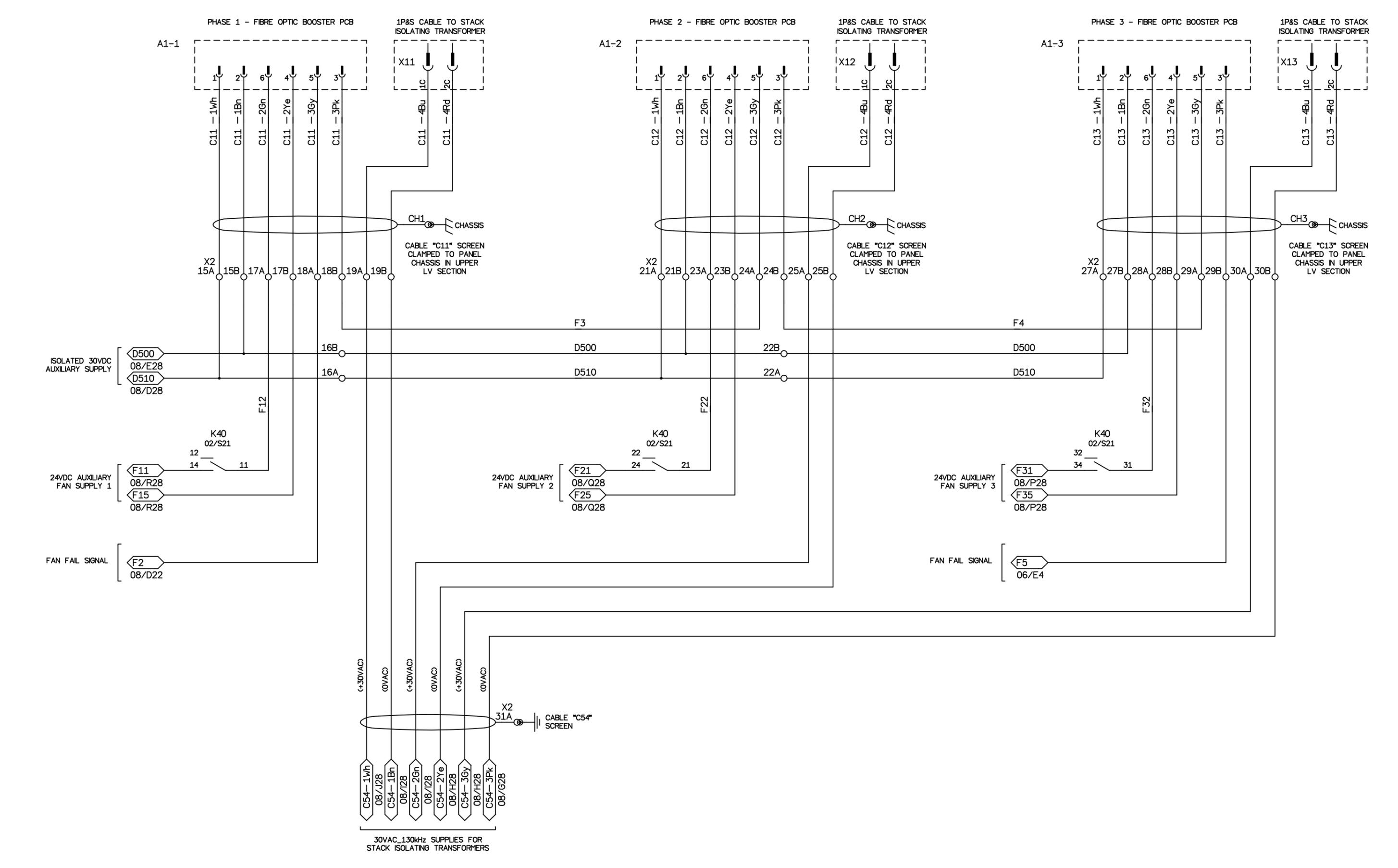
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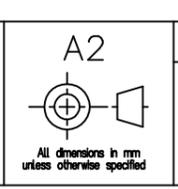
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OOF	15/02/17	REPLACED "S1" AND "SMPS"	DESIGNED BY:	E.D.
OOE	23/06/16	REPLACED "SMPS" AND ADDED "Q20 & Q21"	CHECKED BY:	B.V.
REV:	DATE:	REVISION NOTE:	APPROVED BY:	B.D.

CUSTOMER: AUCOM MOTOR CONTROL SYSTEMS		
PROJECT: MVX SOFTSTARTER PANEL		
SCHEMATIC DIAGRAM - CURRENT & VOLTAGE SENSING		
FILE NAME: 770-15242-004	REV: OOG	SCALE: NTS
SO: -	SHT04 of 16	



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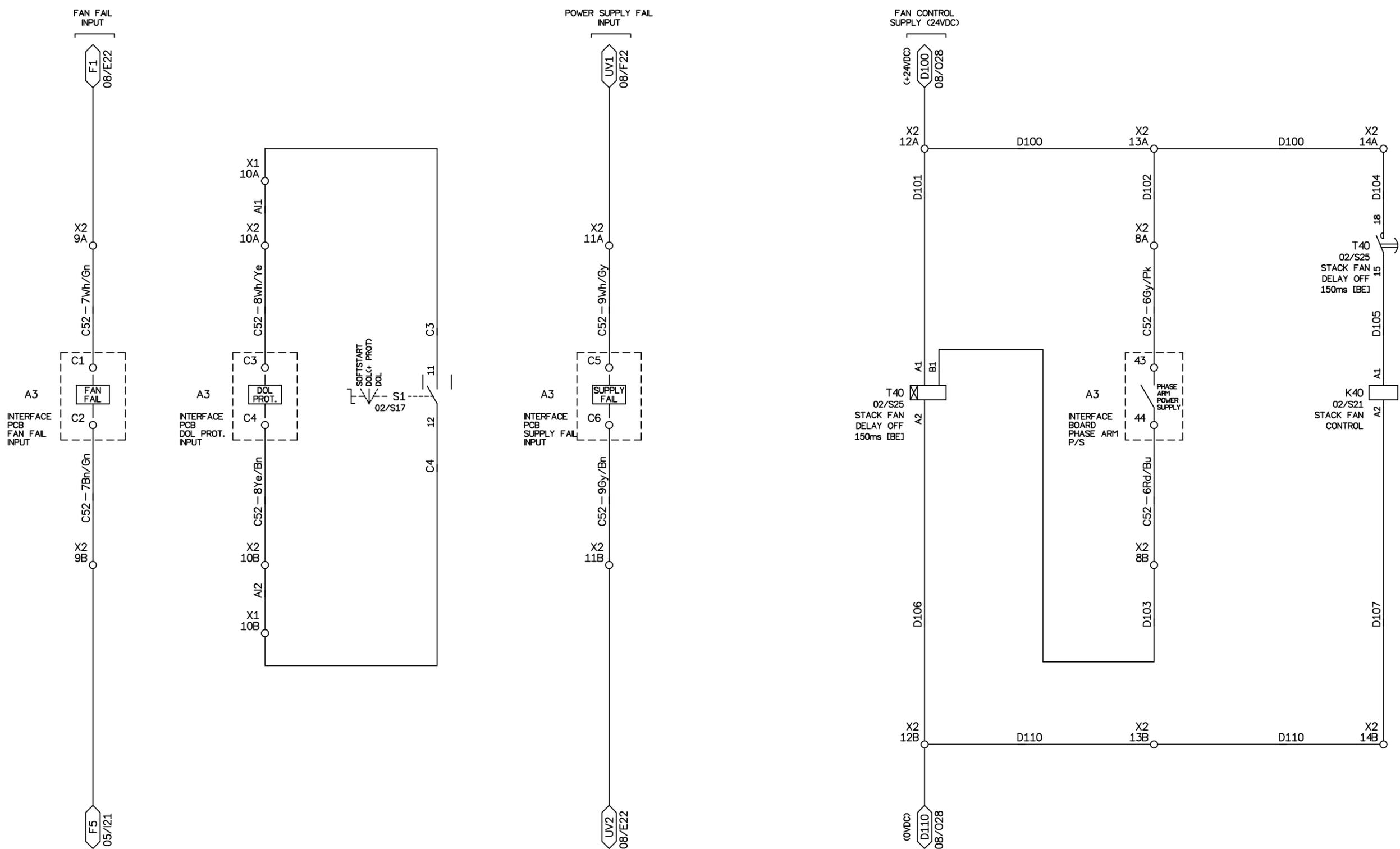
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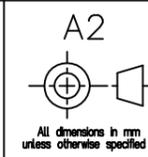
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OOG	26/07/17	UPDATED FAN CONTROL CIRCUITS	DATE:	04/06/13
OOF	15/02/17	REPLACED "S1" AND "SMPS"	DESIGNED BY:	E.D.
OOE	23/06/16	REPLACED "SMPS" AND ADDED "Q20 & Q21"	CHECKED BY:	B.V.
REV:	DATE:	REVISION NOTE:	APPROVED BY:	B.D.

CUSTOMER: AUCOM MOTOR CONTROL SYSTEMS	
PROJECT: MVX SOFTSTARTER PANEL SCHEMATIC DIAGRAM - PHASE CASSETTE CONTROL	
FILE NAME: 770-15242-005	REV:00G SCALENTS
SO: -	SHT05 of 16



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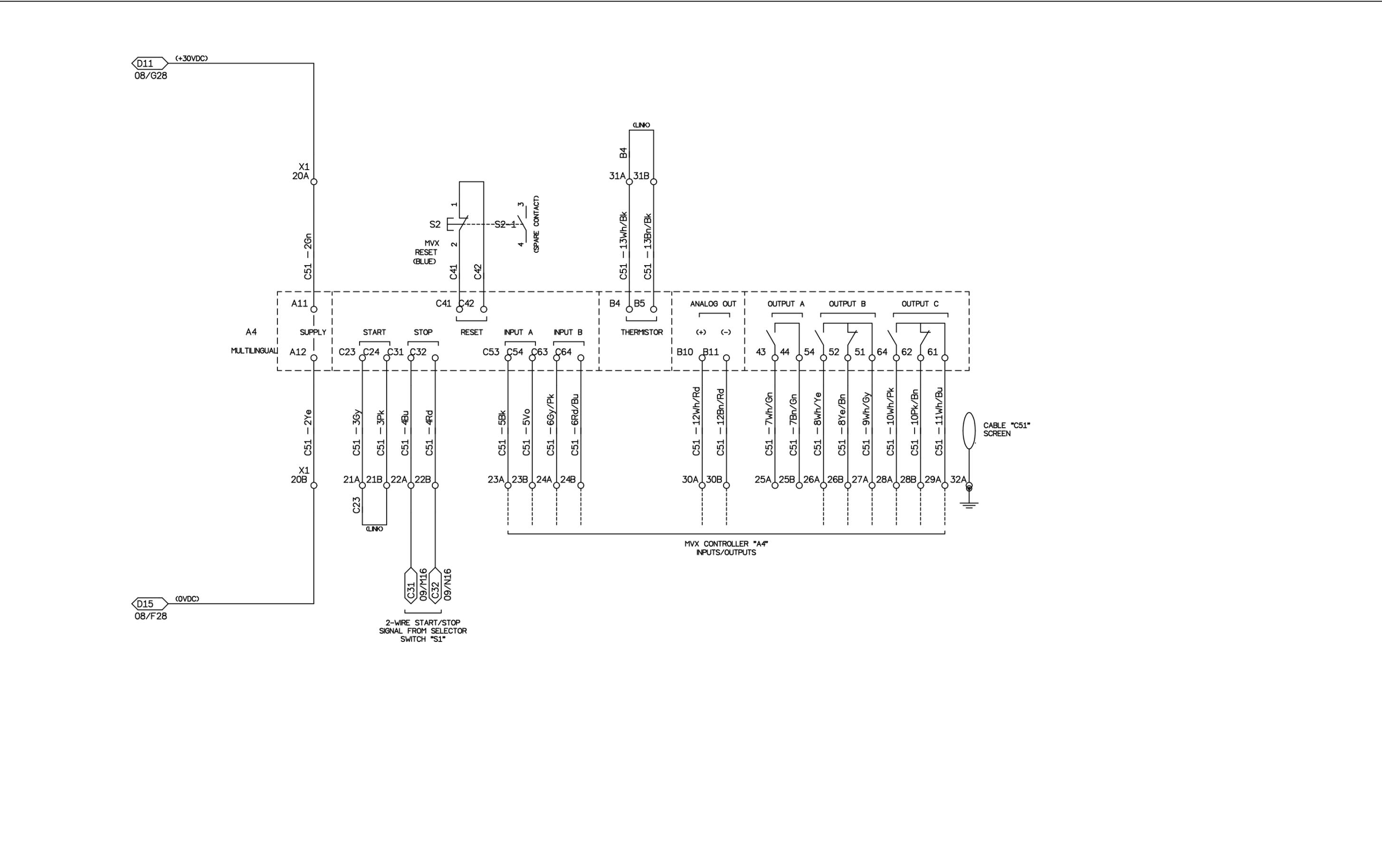
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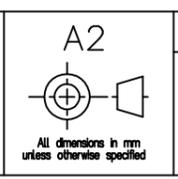
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OOF	15/02/17	REPLACED "S1" AND "SMPS"	DESIGNED BY:	E.D.
OOE	23/06/16	REPLACED "SMPS" AND ADDED "Q20 & Q21"	CHECKED BY:	B.V.
REV:	DATE:	REVISION NOTE:	APPROVED BY:	B.D.

CUSTOMER: AUCOM MOTOR CONTROL SYSTEMS
PROJECT: MVX SOFTSTARTER PANEL
SCHEMATIC DIAGRAM - INTERFACE PCB I/O

FILE NAME: 770-15242-006	REV: OOG	SCALE: NTS
SO: -	SHT06 of 16	



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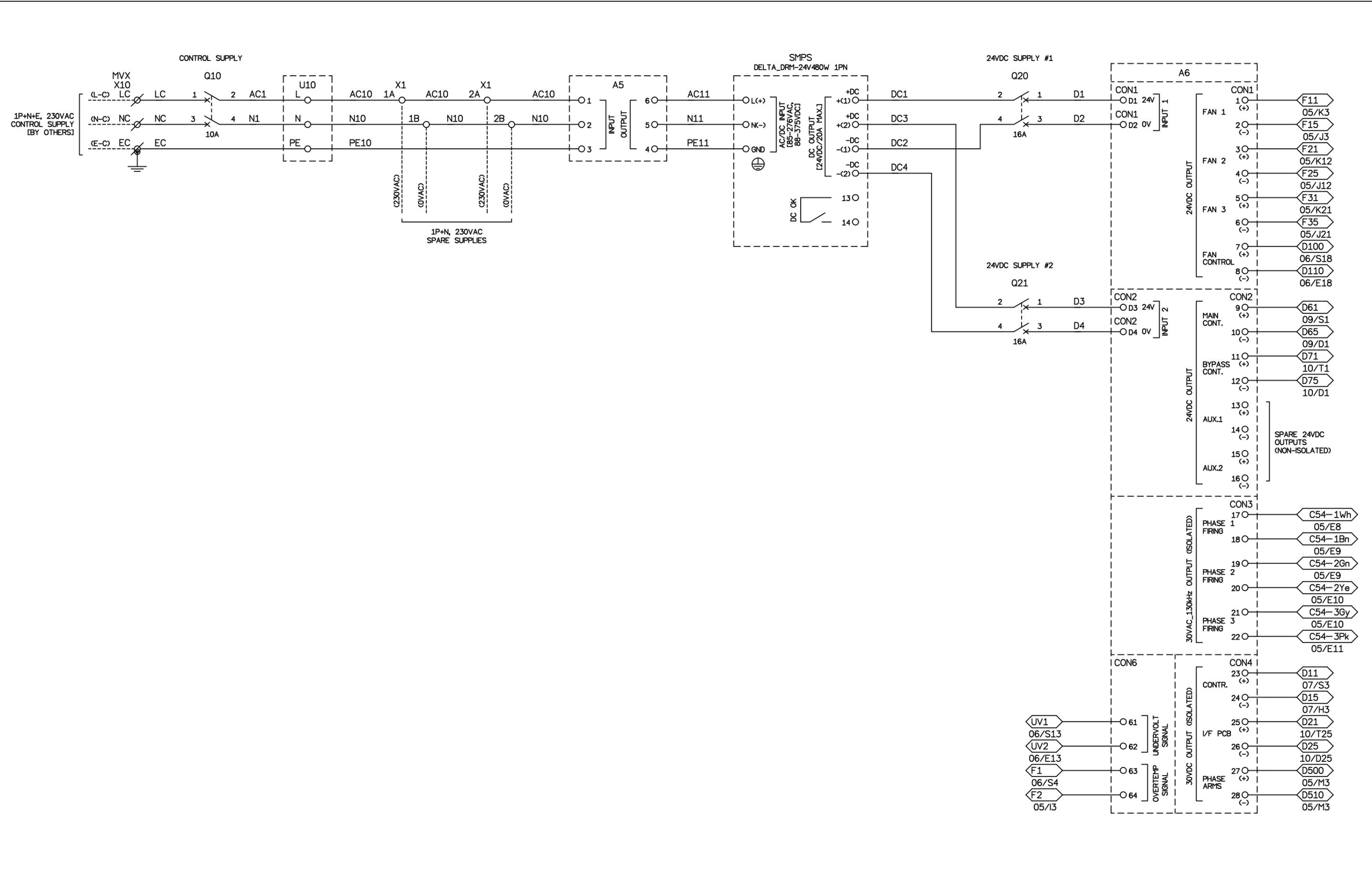
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OOG	26/07/17	UPDATED FAN CONTROL CIRCUITS	DATE:	04/06/13
OOF	15/02/17	REPLACED "S1" AND "SMPS"	DESIGNED BY:	E.D.
OOE	23/06/16	REPLACED "SMPS" AND ADDED "Q20 & Q21"	CHECKED BY:	B.V.
REV:	DATE:	REVISION NOTE:	APPROVED BY:	B.D.

CUSTOMER:	AUCOM MOTOR CONTROL SYSTEMS
PROJECT:	MVX SOFTSTARTER PANEL
FILE NAME:	770-15242-007
SO:	-

SCHEMATIC DIAGRAM - MVX CONTROLLER	REV:00G	SCALE:NTS
SHT07 of 16		



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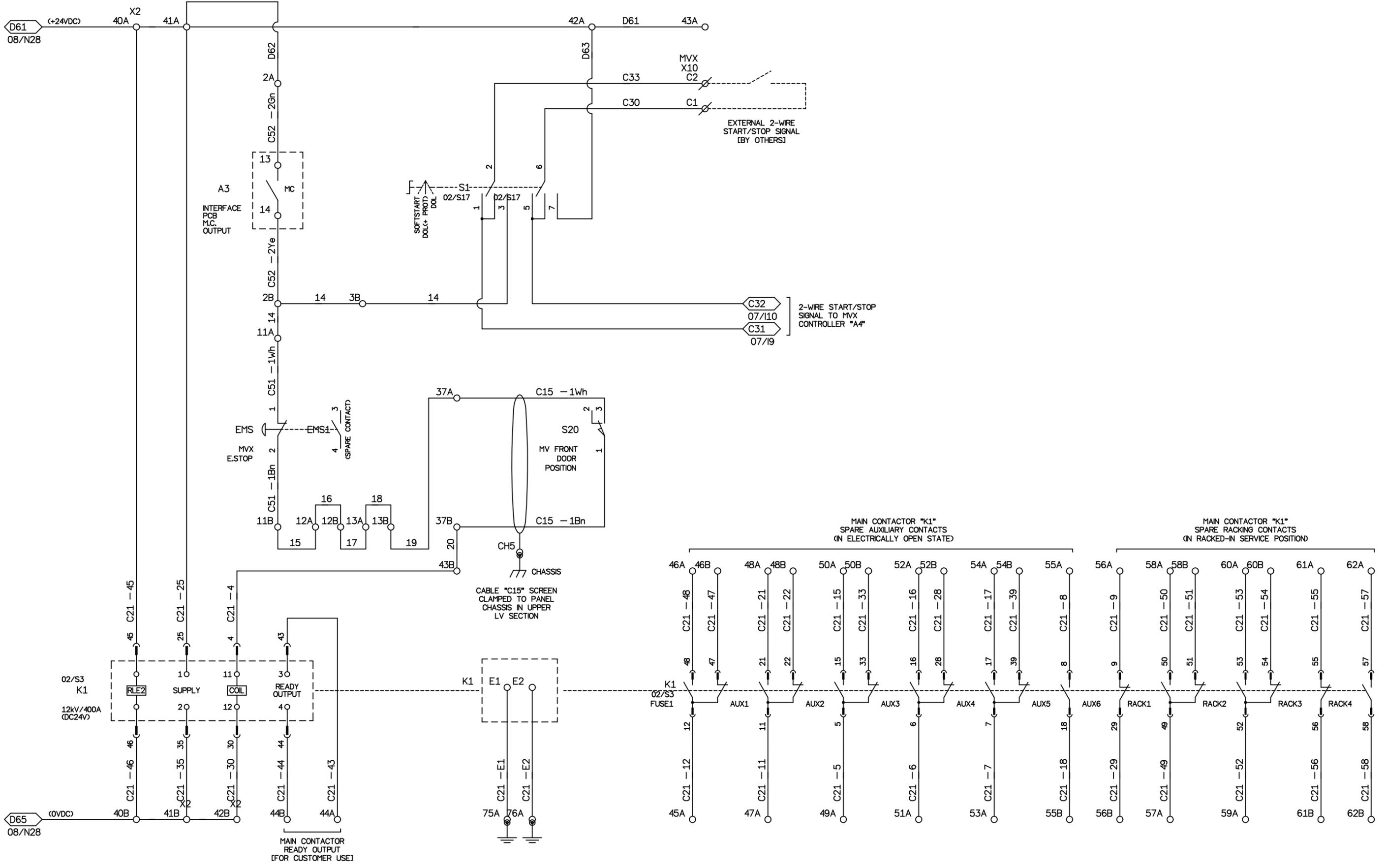
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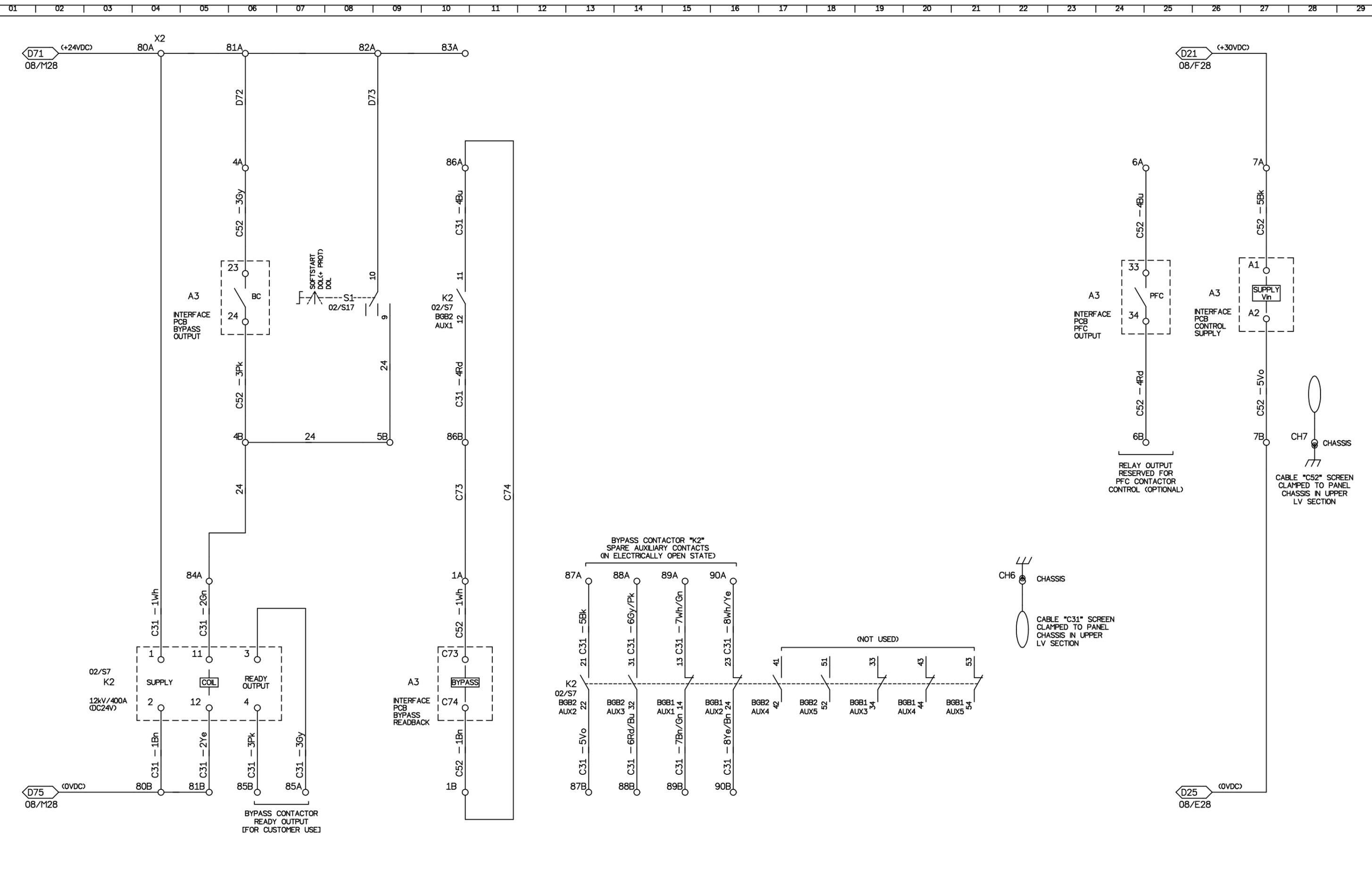
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OOG	26/07/17	UPDATED FAN CONTROL CIRCUITS	DATE:	04/06/13
OOF	15/02/17	REPLACED "S1" AND "SMPS"	DESIGNED BY:	E.D.
OOE	23/06/16	REPLACED "SMPS" AND ADDED "Q20 & Q21"	CHECKED BY:	B.V.
REV:	DATE:	REVISION NOTE:	APPROVED BY:	B.D.

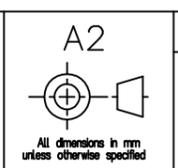
CUSTOMER: AUCOM MOTOR CONTROL SYSTEMS
PROJECT: MVX SOFTSTARTER PANEL SCHEMATIC DIAGRAM - LV POWER SUPPLIES
FILE NAME: 770-15242-008
SO: -

REV:00G	SCALE:NTS
SHT08 of 16	





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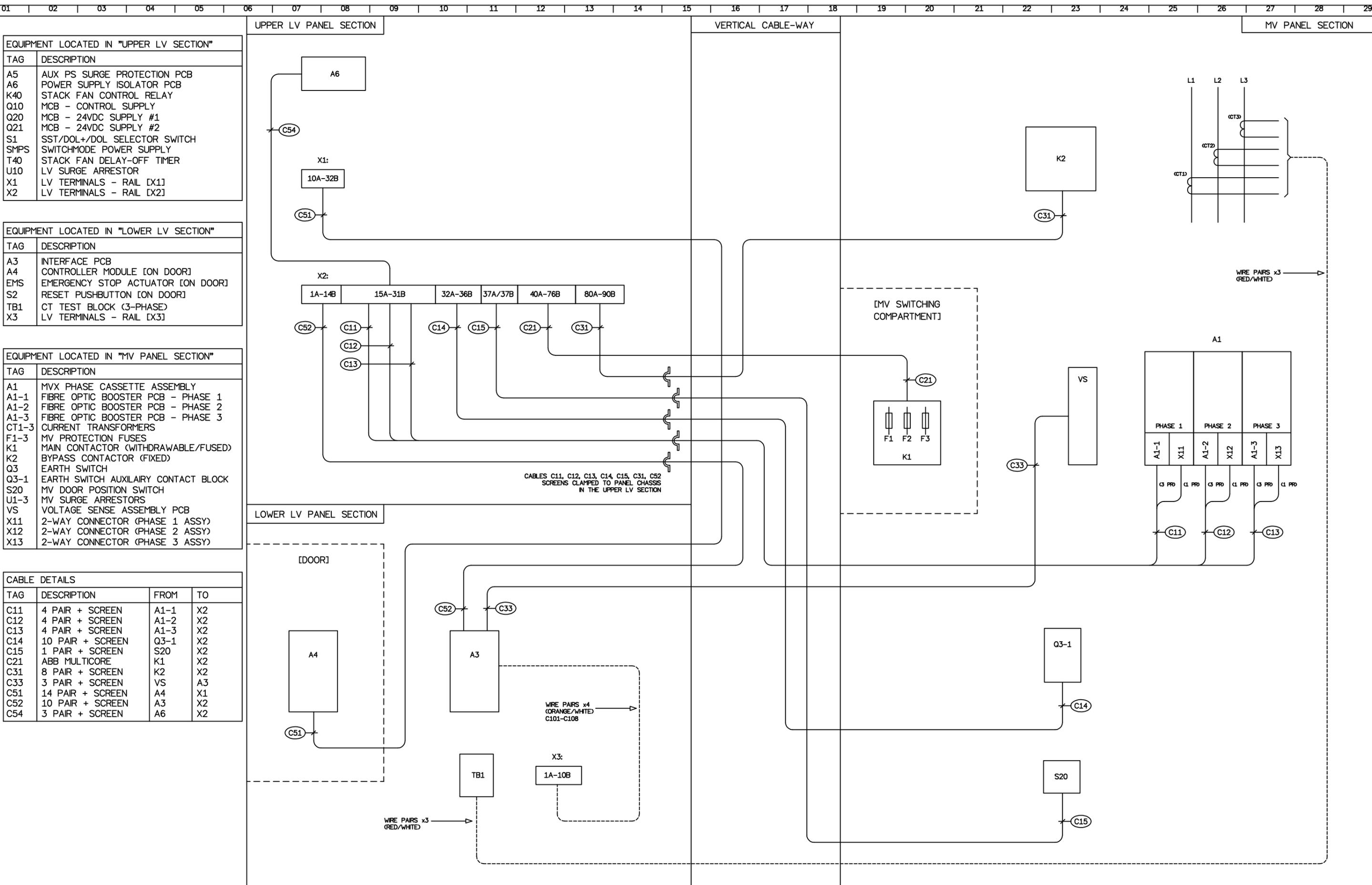
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OOG	26/07/17	UPDATED FAN CONTROL CIRCUITS	DATE:	04/06/16
OOF	15/02/17	REPLACED "S1" AND "SMPS"	DESIGNED BY:	E.D.
OOE	23/06/16	REPLACED "SMPS" AND ADDED "Q20 & Q21"	CHECKED BY:	B.V.
REV:	DATE:	REVISION NOTE:	APPROVED BY:	B.D.

CUSTOMER:	AUCOM MOTOR CONTROL SYSTEMS
PROJECT:	MXV SOFTSTARTER PANEL SCHEMATIC DIAGRAM - BYPASS CONTACTOR CONTROL
FILE NAME:	770-15242-010
SO:	-

REV:00G	SCALE:NTS
SHT:10 of 16	



EQUIPMENT LOCATED IN "UPPER LV SECTION"	
TAG	DESCRIPTION
A5	AUX PS SURGE PROTECTION PCB
A6	POWER SUPPLY ISOLATOR PCB
K40	STACK FAN CONTROL RELAY
Q10	MCB - CONTROL SUPPLY
Q20	MCB - 24VDC SUPPLY #1
Q21	MCB - 24VDC SUPPLY #2
S1	SST/DOL+/DOL SELECTOR SWITCH
SMPS	SWITCHMODE POWER SUPPLY
T40	STACK FAN DELAY-OFF TIMER
U10	LV SURGE ARRESTOR
X1	LV TERMINALS - RAIL [X1]
X2	LV TERMINALS - RAIL [X2]

EQUIPMENT LOCATED IN "LOWER LV SECTION"	
TAG	DESCRIPTION
A3	INTERFACE PCB
A4	CONTROLLER MODULE [ON DOOR]
EMS	EMERGENCY STOP ACTUATOR [ON DOOR]
S2	RESET PUSHBUTTON [ON DOOR]
TB1	CT TEST BLOCK (3-PHASE)
X3	LV TERMINALS - RAIL [X3]

EQUIPMENT LOCATED IN "MV PANEL SECTION"	
TAG	DESCRIPTION
A1	MVX PHASE CASSETTE ASSEMBLY
A1-1	FIBRE OPTIC BOOSTER PCB - PHASE 1
A1-2	FIBRE OPTIC BOOSTER PCB - PHASE 2
A1-3	FIBRE OPTIC BOOSTER PCB - PHASE 3
CT1-3	CURRENT TRANSFORMERS
F1-3	MV PROTECTION FUSES
K1	MAIN CONTACTOR (WITHDRAWABLE/FUSED)
K2	BYPASS CONTACTOR (FIXED)
Q3	EARTH SWITCH
Q3-1	EARTH SWITCH AUXILIARY CONTACT BLOCK
S20	MV DOOR POSITION SWITCH
U1-3	MV SURGE ARRESTORS
VS	VOLTAGE SENSE ASSEMBLY PCB
X11	2-WAY CONNECTOR (PHASE 1 ASSY)
X12	2-WAY CONNECTOR (PHASE 2 ASSY)
X13	2-WAY CONNECTOR (PHASE 3 ASSY)

CABLE DETAILS			
TAG	DESCRIPTION	FROM	TO
C11	4 PAIR + SCREEN	A1-1	X2
C12	4 PAIR + SCREEN	A1-2	X2
C13	4 PAIR + SCREEN	A1-3	X2
C14	10 PAIR + SCREEN	Q3-1	X2
C15	1 PAIR + SCREEN	S20	X2
C21	ABB MULTICORE	K1	X2
C31	8 PAIR + SCREEN	K2	X2
C33	3 PAIR + SCREEN	VS	A3
C51	14 PAIR + SCREEN	A4	X1
C52	10 PAIR + SCREEN	A3	X2
C54	3 PAIR + SCREEN	A6	X2

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A2

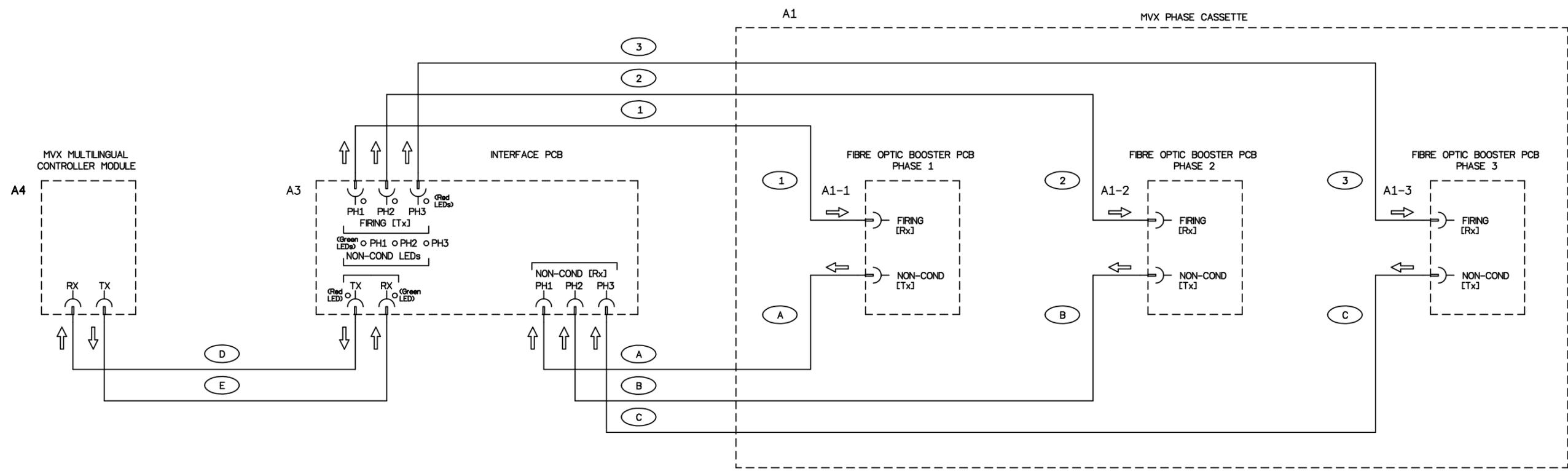
All dimensions in mm unless otherwise specified

REFERENCES:

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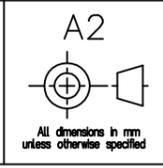
OOG	26/07/17	UPDATED FAN CONTROL CIRCUITS	DATE:	04/06/16
OOF	15/02/17	REPLACED "S1" AND "SMPS"	DESIGNED BY:	E.D.
OOE	23/06/16	REPLACED "SMPS" AND ADDED "Q20 & Q21"	CHECKED BY:	B.V.
REV:	DATE:	REVISION NOTE:	APPROVED BY:	B.D.

CUSTOMER: AUCOM MOTOR CONTROL SYSTEMS	
PROJECT: MVX SOFTSTARTER PANEL MVX CABLE BLOCK DIAGRAM	
FILE NAME: 770-15242-011	REV:00G SCALE:NTS
SO: -	SHT11 of 16



NOTE:
 FIXED FIBRE OPTIC TRANSMIT (Tx) AND RECEIVE (Rx) CONNECTOR SOCKETS ARE MOUNTED ON THE INTERFACE PCB "A3" AND THE THREE FIBRE OPTIC BOOSTER PCBs "A1-1, A1-2, A1-3".
 TRANSMIT (Tx) FIBRE OPTIC SOCKETS ARE LIGHT GREY COLOUR.
 RECEIVE (Rx) FIBRE OPTIC SOCKETS ARE DARK GREY COLOUR.

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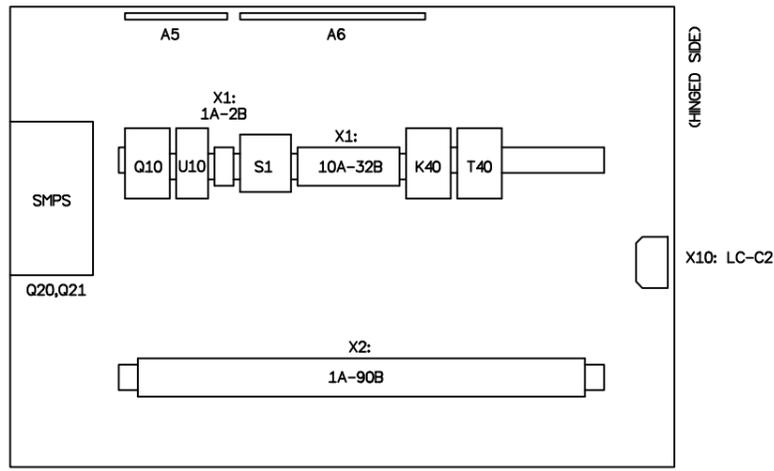
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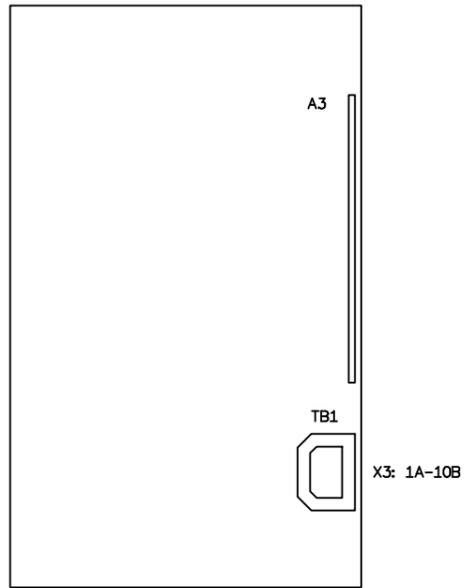
OOG	26/07/17	UPDATED FAN CONTROL CIRCUITS	DATE:	04/06/16
OOF	15/02/17	REPLACED "S1" AND "SMPS"	DESIGNED BY:	E.D.
OOE	23/06/16	REPLACED "SMPS" AND ADDED "Q20 & Q21"	CHECKED BY:	B.V.
REV:	DATE:	REVISION NOTE:	APPROVED BY:	B.D.

CUSTOMER:	AUCOM MOTOR CONTROL SYSTEMS
PROJECT:	MVX SOFTSTARTER PANEL MVX FIBRE OPTIC CONNECTION DETAILS
FILE NAME:	770-15242-012
SO:	-

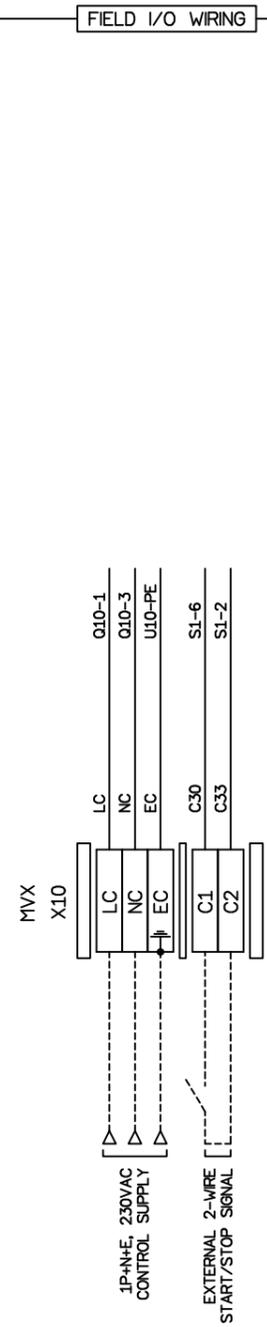
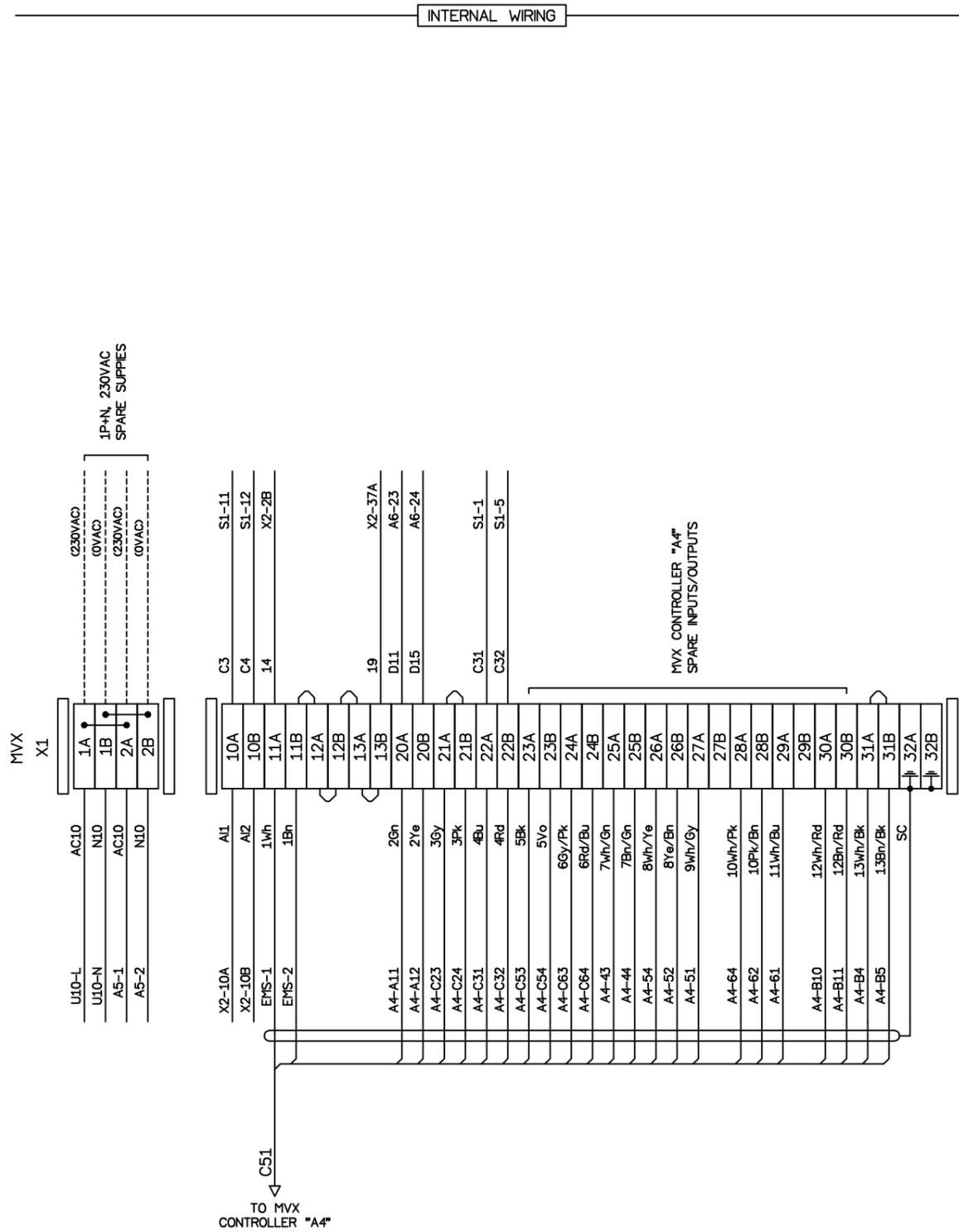
REV:00G	SCALE:NTS
SHT12 of 16	

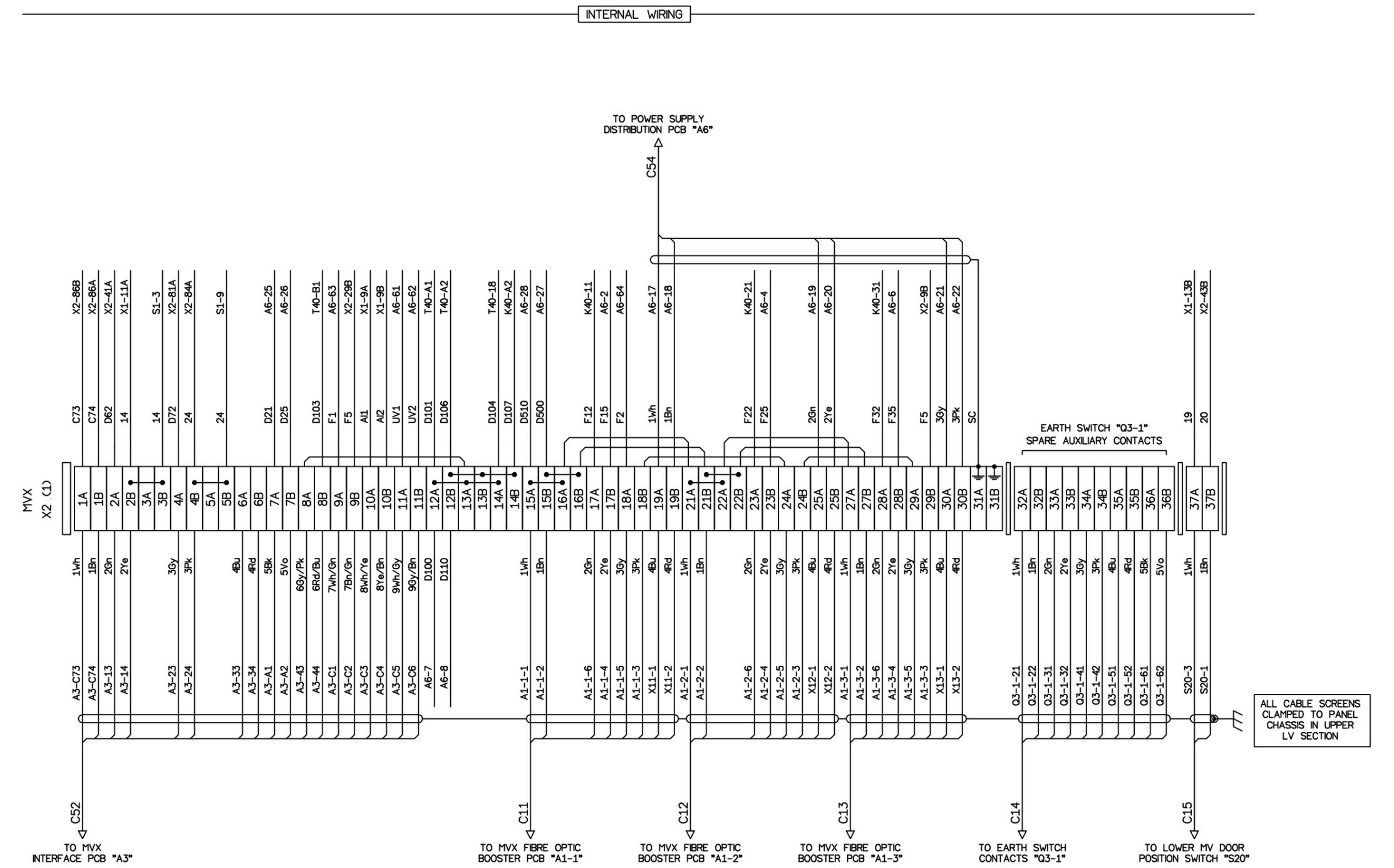


MVX UPPER "LV" COMPARTMENT
(VIEW WITH LV DOOR OPEN)



MVX LOWER "LV" COMPARTMENT
(VIEW WITH LV DOOR OPEN)





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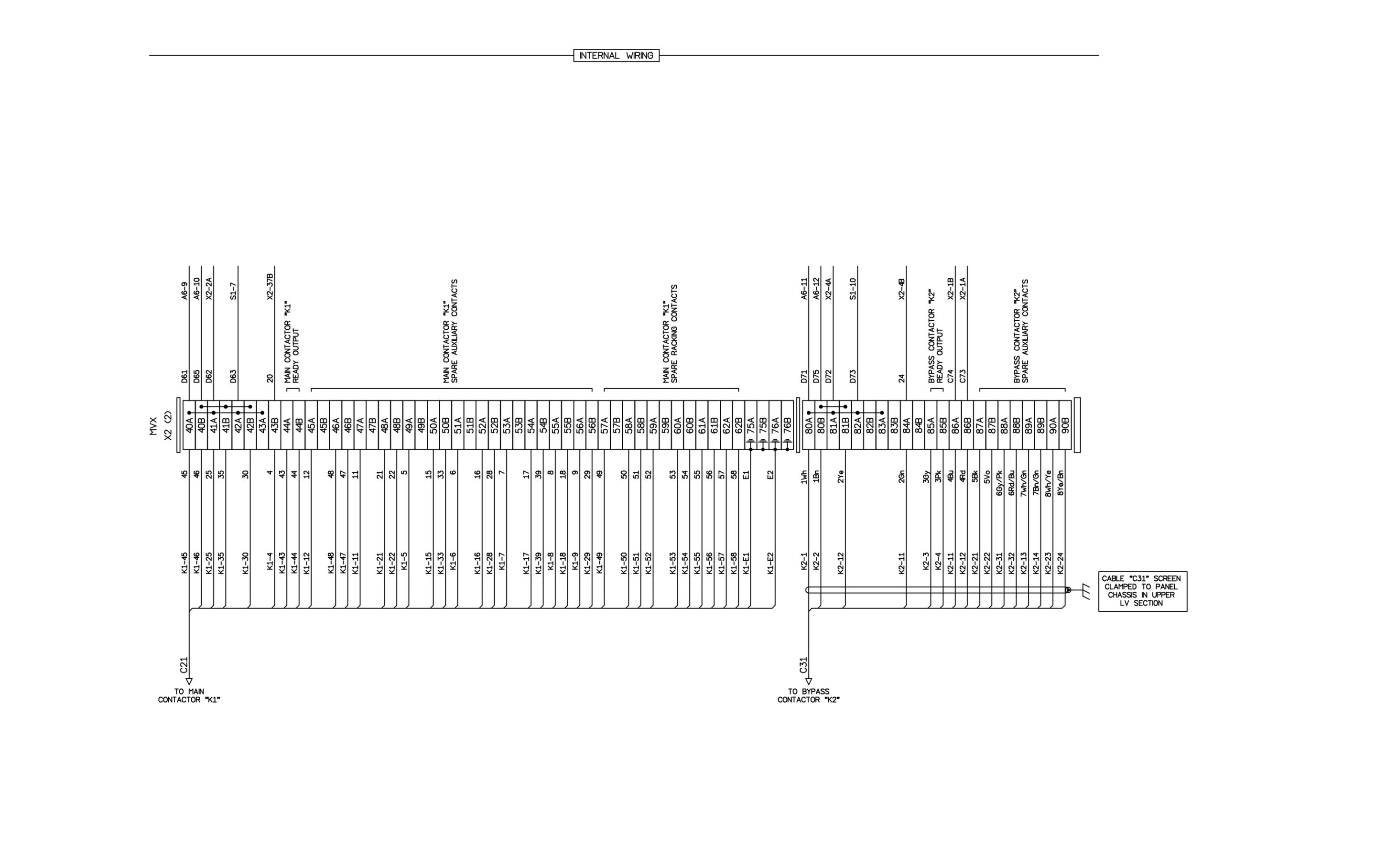
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OOG	26/07/17	UPDATED FAN CONTROL CIRCUITS	DATE:	04/06/16
OOF	15/02/17	REPLACED "S1" AND "SMPS"	DESIGNED BY:	E.D.
OOE	23/06/16	REPLACED "SMPS" AND ADDED "Q20 & Q21"	CHECKED BY:	B.V.
REV:	DATE:	REVISION NOTE:	APPROVED BY:	B.D.

CUSTOMER: AUCOM MOTOR CONTROL SYSTEMS
PROJECT: MVX SOFTSTARTER PANEL
LV TERMINAL RAIL DETAILS: X2 (1)

FILE NAME:	770-15242-014	REV:	00G	SCALE:	NTS
SO:	-	SHT:	14 of 16		



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OOG	26/07/17	UPDATED FAN CONTROL CIRCUITS	DATE:	04/06/16
OOF	15/02/17	REPLACED "S1" AND "SMPS"	DESIGNED BY:	E.D.
OOE	23/06/16	REPLACED "SMPS" AND ADDED "Q20 & Q21"	CHECKED BY:	B.V.
REV:	DATE:	REVISION NOTE:	APPROVED BY:	B.D.

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CUSTOMER: AUCOM MOTOR CONTROL SYSTEMS		
PROJECT: MVX SOFTSTARTER PANEL		
LV TERMINAL RAIL DETAILS: X2 (2)		
FILE NAME: 770-15242-015	REV: 00G	SCALE: NTS
SO: -	SHT15 of 16	

