CUSTOMER DATA

DISTRIBUTOR	WESCO CALGARY
CUSTOMER	VERMILION ENERGY
ORDER No	2550-819448
PROJECT TITLE	VERMILION ENERGY MICA 8-33 OIL BATTERY
SWBD TAG:	MCC-941 MAIN B-T-B
LINE ITEM & UNIT:	CMCI002815-001-23

SPECIAL ORDER NOTES

- BUILT TO: CSA STANDARD C22.2 No 31
- CSA FILE LL47168

- PROVIDE SELECTOR AND PILOT LIGHTS FOR (ARMS) MAINTENANCE MODE
- MIN 36" PULL SPACE FROM CABLE ENTRY TO BOTTOM OF LUGS
- ADD 86 LOCKOUT RELAY (7803D)
- INSULATED AND TAPED BUS (BOOTS NOT AVAILABLE)
- FREESTANDING OR SECURED TO WALL, WILL HAVE IBC/CBC CERTIFIED SEISMIC RATING
-ADD GROUND BALL AND COVER TO PHASES A B C N

IMPORTANT: IT IS THE PURCHASERS RESPONSIBILITY TO OBTAIN ANY NECESSARY LOCAL UTILITY AND/OR PROVINCIAL INSPECTION AUTHORITY APPROVAL. WHEN RETURNING APPROVED DRAWINGS THE PURCHASER SHOULD CONFIRM THAT SUCH APPROVAL HAS BEEN OBTAINED OR IS NOT REQUIRED.

SPECIFICATIONS

MAIN BUS RATING:	3200	AMP	480	VOLTS
SYSTEM:	3	PHASE	3	WIRE -
SHORT CCT RATING:	65	KA SYM		
BUS BAR:	TIN PLATED COPPER			
BUS BRACING:	65	KA SYM		
ACCESS REQUIRED FOR SWITCHBOARD INSTALLATION TO BE FROM:	REAR ONLY			
ENCLOSURE TYPE:	CSA TYPE 1			
PAINT FINISH - INTERIOR:	ASA 61 LIGHT GREY			
- EXTERIOR:	ASA 61 LIGHT GREY			
SERVICE ENTRANCE:	NO			
BASE CHANNELS:	YES			
MAIN DEVICE	EATON TYPE MDS-630 DRAWOUT ELECTRIC 100% RATED			
	FRAME	3200AF	RATING PLUG	3000AT
	TRIP UNIT	RMS520MC LSIG WITH ARMS		
FUSE PROVISION	N/A			
GROUND FAULT	PROTECTION	YES		
	SENSING	YES		
MAIN INCOMING	ENTRY LOCATION	BOTTOM, LEFT		
	ENTRY WITH	(8) 500 KCMIL		

EQUINOX Engineering
PO #: 296-00-02-0040
Seq #: 0006 Sub #: 0006
DC Initials: YS Date: 2024-01-09
☐ V1 - Correct & Resubmit
Manufacturing may NOT proceed
☐ V2 - Update & Resubmit
Manufacturing may proceed subject to noted changes being incorporated
☐ V3 - Information only
☐ V4 - Proceed & Submit _____
☒ V5 - Final
☐ V6 - Rejected
Note:
Eng Initials: TM Date: 2024-01-22

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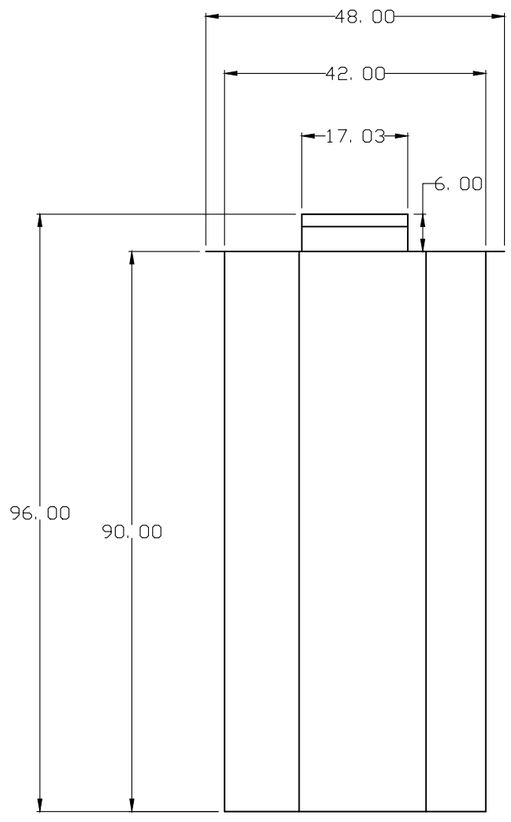
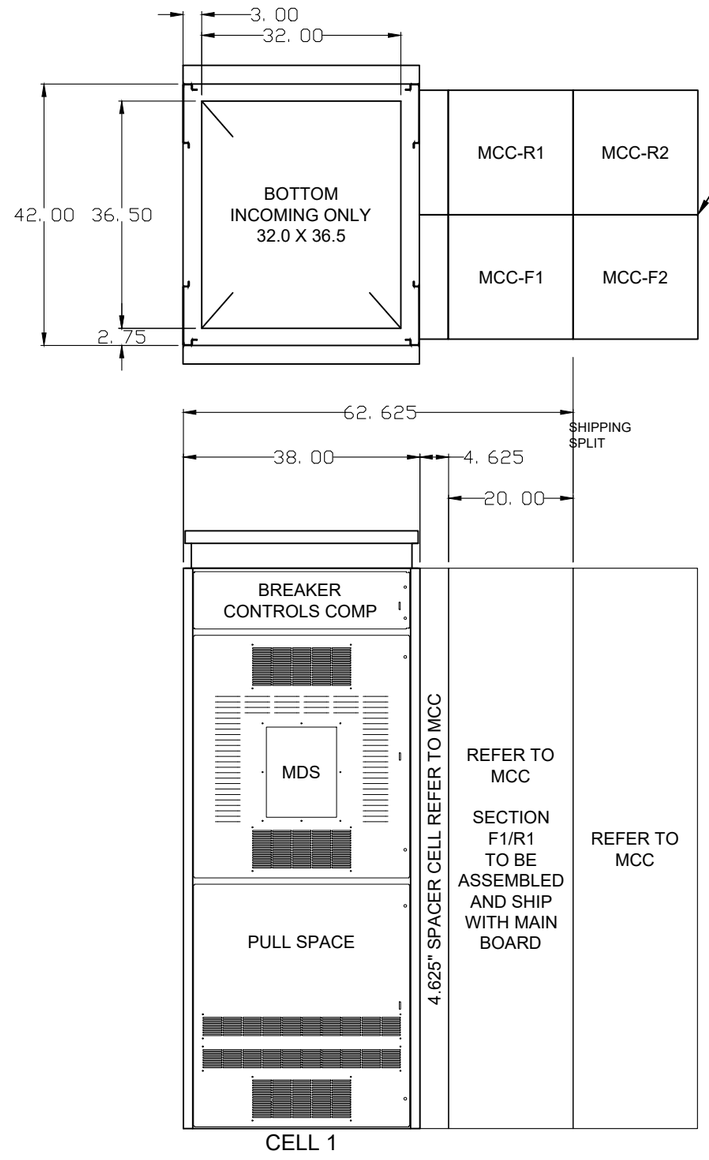
REVISION
AL: 07-19-2023 R01 Added CTs; revised project title
KW: 09-25-2023 R02 Added note indicating to use ground balls on ABCN
KW: 05-JAN-2024 R03 Added ground balls to SLD

DRAFTER DESSINATEUR: A. LUN	DATE: 07-19-2023	EATON CALGARY, SATELLITE	
ENGINEER INGENIEUR	DATE	TITLE/TITRE: POW-R-LINE C SWITCHBOARD VERMILION ENERGY MICA 8-33-081-14W6M OIL BATTERY SPECIFICATION SHEET	
MFG. ENG.	DATE		
PROJECT NO. NO DE PROJET		G.O. / G.C.: CMCI002815	DWG / DESSIN: CMCI002815-001-23
PARTS LIST		TYPE: APPROVAL	PRODUCT CODE / CODE DE PRODUIT: 1400
UNLESS SPECIFIED TOLERANCE PER +/- 0.030		REFERENCE	SCALE / ECHELLE: N.T.S.

B | THIRD ANGLE PROJECTION | REV 03 | PAGE 1 OF 8



LEFT SIDE VIEW



FRONT VIEW

MCC 1600A BACK TO BACK
CENTER ALIGNED
SPLICE KITS SUPPLIED BY LVCA

REFERENCE MCC APPROVAL DRAWINGS FOR
DETAILS ON MCC LAYOUT

DIMENSIONS IN INCHES [METRIC]

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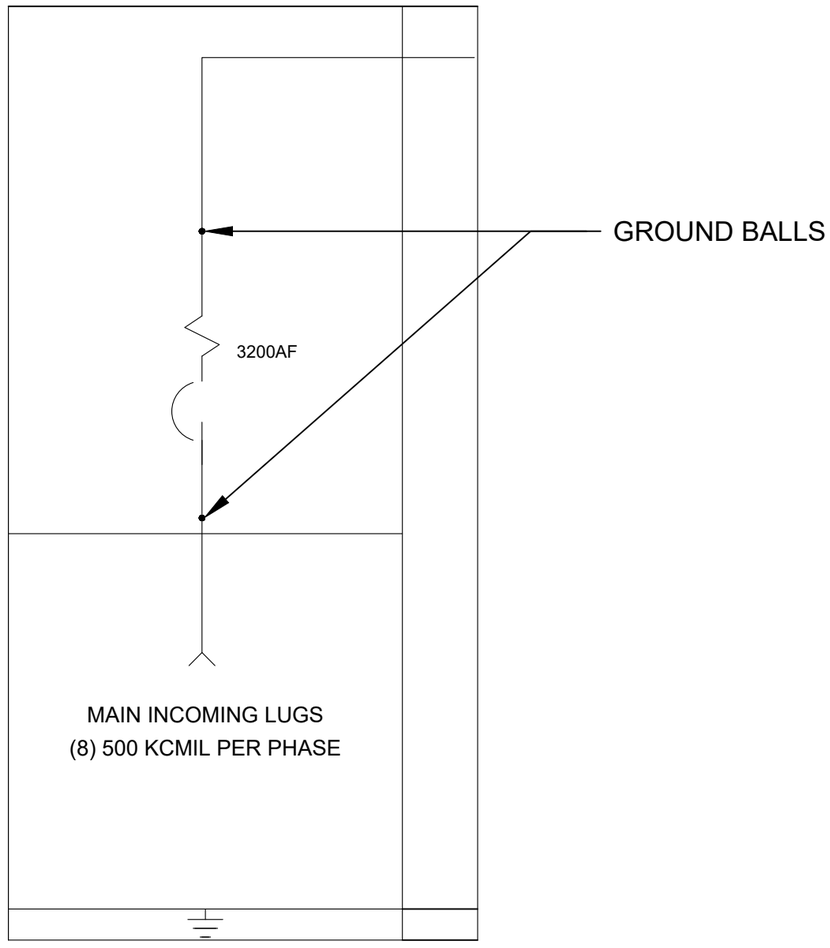
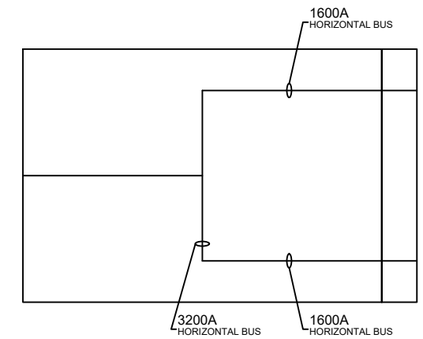
REVISION
SEE PAGE 1

DRAFTER DESSINATEUR: A. LUN	DATE: 07-19-2023	EATON CALGARY, SATELLITE	
ENGINEER INGENIEUR	DATE	TITLE/TITRE: POW-R-LINE C SWITCHBOARD VERMILION ENERGY MICA 8-33-081-14W6M OIL BATTERY ELEVATION DRAWING	
MFG. ENG.	DATE		
PROJECT NO. NO DE PROJET	G.O. / G.C.: CMCI002815	DWG / DESSIN: CMCI002815-001-23	B — THIRD ANGLE PROJECTION
PARTS LIST	TYPE: APPROVAL	PRODUCT CODE / CODE DE PRODUIT: 1400	
UNLESS SPECIFIED TOLERANCE PER: +/- 0.030	REFERENCE	SCALE / ECHELLE: 1 : 25	REV 03 — PAGE 2 OF 8

GROUND BUS: 2.0" x 0.25" CU. (50.8 x 6.3)
BARRE DE MISE A LA TERRE





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REVISION
SEE PAGE 1

DRAFTER DESSINATEUR: A. LUN	DATE: 07-19-2023	EATON CALGARY, SATELLITE	
ENGINEER INGENIEUR	DATE	TITLE/TITRE POW-R-LINE C SWITCHBOARD VERMILION ENERGY MICA 8-33-081-14W6M OIL BATTERY	
MFG. ENG.	DATE		
PROJECT NO. NO DE PROJET		G.O. / G.C.: CMCI002815	DWG / DESSIN: CMCI002815-001-23
PARTS LIST		TYPE: APPROVAL	PRODUCT CODE / CODE DE PRODUIT: 1400
UNLESS SPECIFIED TOLERANCE PER: +/- 0.030		REFERENCE	SCALE / ECHELLE: N.T.S.

B — THIRD ANGLE PROJECTION — REV 03 — PAGE 3 OF 8

MAGNUM BREAKER CATALOG SELECTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
M	D	S	6	3	2	3	W	E	A	-	3	0	C	M	A	N	A	N	4	Y	S	A	N	F	X

Int Rating @480V		Def
6	65	
8	85	
C	100	

Configuration		Def
V	Fixed Vertical	
W	Drawout MDS	

Sensor & Rating Plug					Def
		Def			
01	100		13	1250	
02	200		16	1600	
05	250		20	2000	
03	300		25	2500	
04	400		30	3000	
06	600		32	3200	
08	800				
10	1000				
12	1200				

Breaker Shipping Options & Instructions		Def
A	Fixed Bkr Alone w/Door Kit	
F	Fixed Bkr Alone wo/Door Kit	
A	D/O Bkr Alone wo/Door Kit	
C	D/O Bkr in Cassette (Un-wired)	
P	D/O Bkr in Cassette (Pre-wired)	
S	D/O Bkr in Cassette (Shutters)	
W	D/O Bkr in Cassette (Pre-wired & Shutters)	

Latch Check Switch /Metering			
	Latch Check Sw	1150 Voltage Con	Def
M	None	Upper Terminals	
N	None	Lower Terminals	
L	LCS Wired to SRD	Upper Terminals	
Y	LCS Wired to Ext	Lower Terminals	
C	LCS Wired to SRD	Upper Terminals	
D	LCS Wired to Ext	Lower Terminals	

Operations Counter / Keylock Provisions			
	Counter	Keylock Provisions	Def
N	No Counter	No Lock	
K	No Counter	Kirk Lock	
C	No Counter	Castell Lock	
R	No Counter	Ronis Lock	
A	Counter	No Lock	
T	Counter	Kirk Lock	
L	Counter	Castell Lock	
H	Counter	Ronis Lock	

Continuous Amperes		Def
08	800 ABC	
12	1200 ABC	
16	1600 ABC	
20	2000 ABC	
25	2500 ABC	
30	3000 ABC	
32	3200 ABC	

Motor Operator		Def
NN	Manual Operated	
22	200+ LI	
52	520 LSI	
5G	520 LSIG	
M2	520M LSI	
MT	520M LSI (24/48 Vdc)	
MU	520M LSI (120 Vac)	
MV	520M LSI (240 Vac)	
MQ	520M LSI (125 Vdc)	
MG	520M LSIG	
MH	520M LSIG (24/48 Vdc)	
MM	520M LSIG (120 Vac)	
MN	520M LSIG (240 Vac)	
MX	520M LSIG (125 Vdc)	
ME	520M LSIA (24/48 Vdc)	
MC	520M LSIA (120 Vac)	
MF	520M LSIA (240 Vac)	
MZ	520M LSIA (125 Vdc)	
CT	520MC LSI (24/48 Vdc)	
CU	520MC LSI (120 Vac)	
CV	520MC LSI (240 Vac)	
CQ	520MC LSI (125 Vdc)	
CH	520MC LSIG (24/48 Vdc)	
CM	520MC LSIG (120 Vac)	
CN	520MC LSIG (240 Vac)	
CX	520MC LSIG (125 Vdc)	
CE	520MC LSIA (24/48 Vdc)	
CC	520MC LSIA (120 Vac)	
CF	520MC LSIA (240 Vac)	
CY	520MC LSIA (125 Vdc)	
1A	1150 LSI (24/48 Vdc)	
1C	1150 LSI (120 Vac)	
1E	1150 LSI (240 Vac)	
1Q	1150 LSI (125 Vdc)	
1F	1150 LSIG (24/48 Vdc)	
1G	1150 LSIG (120 Vac)	
1H	1150 LSIG (240 Vac)	
1X	1150 LSIG (125 Vdc)	
1J	1150 LSIA (24/48 Vdc)	
1K	1150 LSIA (120 Vac)	
1M	1150 LSIA (240 Vac)	
1M	1150 LSIA (125 Vdc)	

Padlock Provisions		Def
N	None	
P	Plastic (Block Close & Open)	
H	Plastic (Block Close)	
M	Metal (Block Close & Open)	
C	Metal (Block Close)	
S	Metal Swbd Lock-off (Block CL, Depress OP	

Bell Alarm Sw (OTS) & Trip Indicator			
	OTS 2a/2b	OTS 2a/2b	Def
E	No OTS	No Ind	
N	No OTS	Ind	
Y	OTS	Ind	

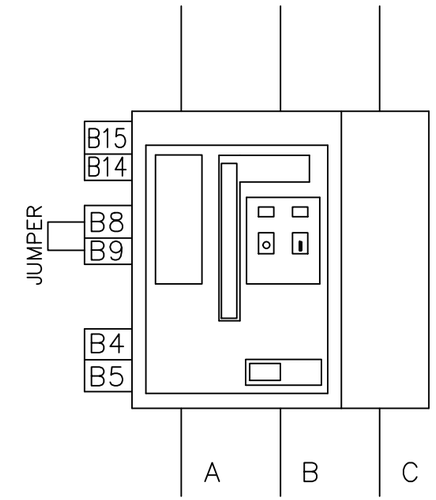
Auxilliary Switch		Def
N	None	
2	2a/2b	
4	4a/4b	
6	6a/6b	

UnderVoltage Release or 2nd Shunt Trip		Def
N	None	
A	UVR (110 - 127 Vac)	
H	UVR (208 - 240 Vac)	
M	UVR (24 Vdc)	
C	UVR (48 Vdc)	
S	UVR (110 - 125 Vdc)	
S	UVR (220 - 250 Vdc)	
S	UVR (480 Vac)	
S	UVR (600 Vac)	
S	2nd ST (110 - 127 Vac/dc)	
S	2nd ST (208 - 240 Vac/dc)	
S	2nd ST (24 Vdc)	
S	2nd ST (48 Vdc)	

Spring Release (SRD)		Def
N	None	
A	110 - 125 Vac/dc	
R	208 - 240 Vac/dc	
C	24 Vdc	
6	48 Vdc	

Motor Operator		Def
M	Manual Operated	
N	110 - 125 Vac	
W	110 - 125 Vdc	
T	220 - 250 Vdc	
P	220 - 240 Vac	
L	24 Vdc	
K	48 Vdc	

Shunt Trip		Def
N	None	
A	110 - 127 Vac/dc	
R	208 - 240 Vac/dc	
C	24 Vdc	
H	48 Vdc	



MAGNUM CASSETTE CATALOG SELECTION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
M	N	3	2	3	U	A	X	N	N	-	N	N	N	C

Continuous Amperes		Def
16	Up to 1600	
20	Up to 2000	
32	2500 to 3200	X
40	4000	
50	5000	

Poles		Def
3	Three Pole	X
4	Four Pole	

Cassette Frame & Rear Terminals		Def
P	Basic Cassette (Without Vertical Bus Stabs)	
C	Basic Cassette with Stabs (With Vertical Bus Stab Kit)	
H	Narrow Frame Cassette (With Horizontal Terminal Pads)	
U	Universal Cassette (With Universal Terminal Pads)	X

Arc Hood		Def
A	Installed	X

Cassette Shipping		Def
N	Cassette Only	X
W	Breaker Shipped in Cassette	

Cassette Wiring		Def
N	Un-Wired	X
W	Cassettes Wired	

Future Use		Def
NNN	All Cassettes	X

Shutters		Def
N	No Shutters	X
S	Shutters Installed	

Door Frame & Gasket Kit		Def
DN	Door Frame & Gasket Kit Included	X
XN	Door Frame & Gasket Kit Not Included	

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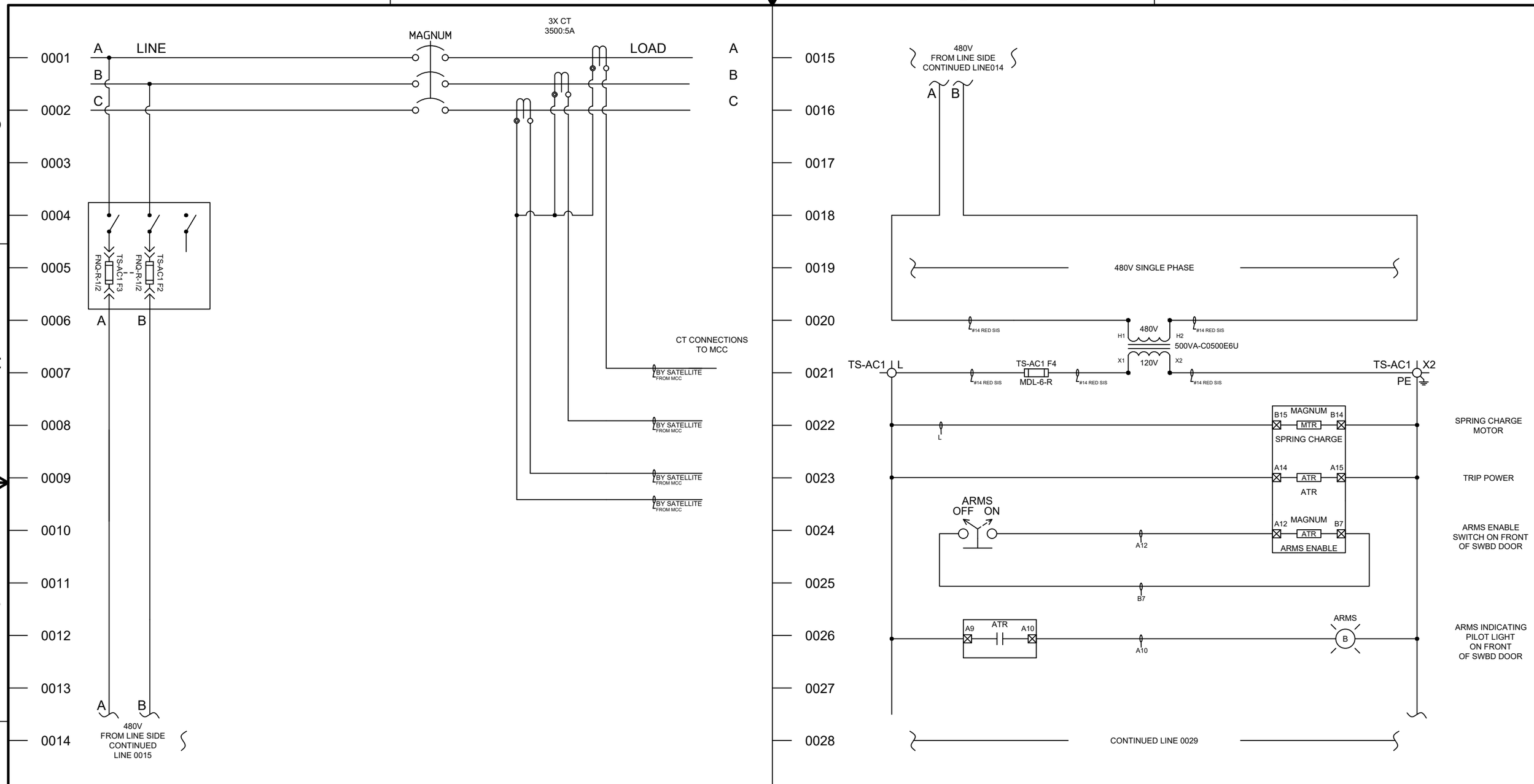
REVISION

SEE PAGE 1

DRAFTER DESSINATEUR: A. LUN	DATE: 07-19-2023	EATON CALGARY, SATELLITE
ENGINEER INGENIEUR	DATE	TITLE/TITRE: POW-R-LINE C SWITCHBOARD VERMILION ENERGY MICA 8-33-081-14W6M OIL BATTERY MAGNUM CATALOG
MFG. ENG.	DATE	
PROJECT NO. NO DE PROJET	G.O. / G.C.: CMCI002815	DWG / DESSIN: CMCI002815-001-23
PARTS LIST	TYPE: APPROVAL	PRODUCT CODE / CODE DE PRODUIT: 1400
UNLESS SPECIFIED TOLERANCE PER +/- 0.030	REFERENCE	SCALE / ECHELLE: N.T.S.

B — THIRD ANGLE PROJECTION — REV 03 — PAGE 4 OF 8



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ENGINEER INGENIEUR	DATE	TITLE/TITRE: POW-R-LINE C SWITCHBOARD VERMILION ENERGY MICA 8-33-081-14W6M OIL BATTERY	
MFG. ENG.	DATE		
PROJECT NO. NO DE PROJET		G.O. / G.C.: CMCI002815	DWG / DESSIN: CMCI002815-001-23
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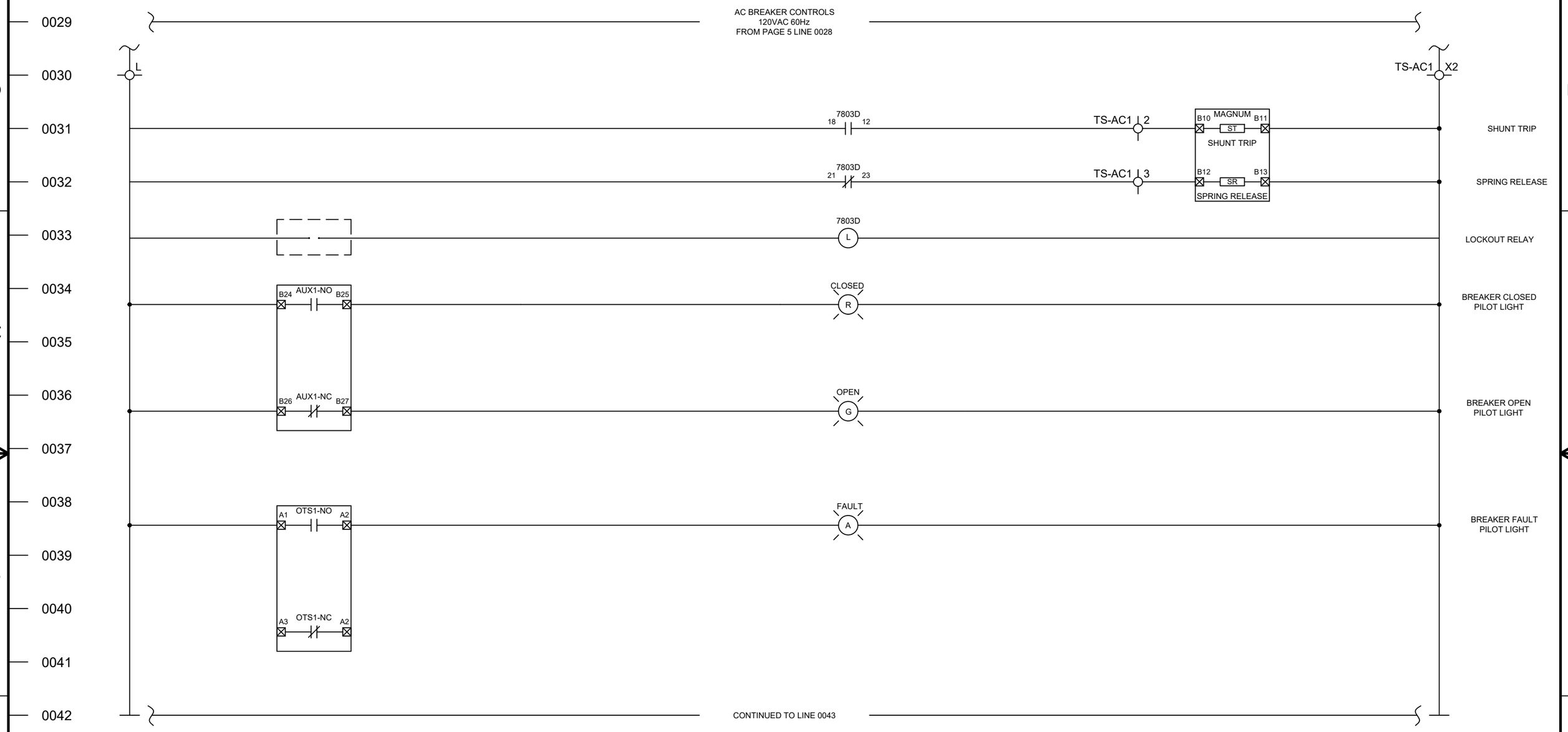
B — THIRD ANGLE PROJECTION — REV 03 — PAGE 5 OF 8



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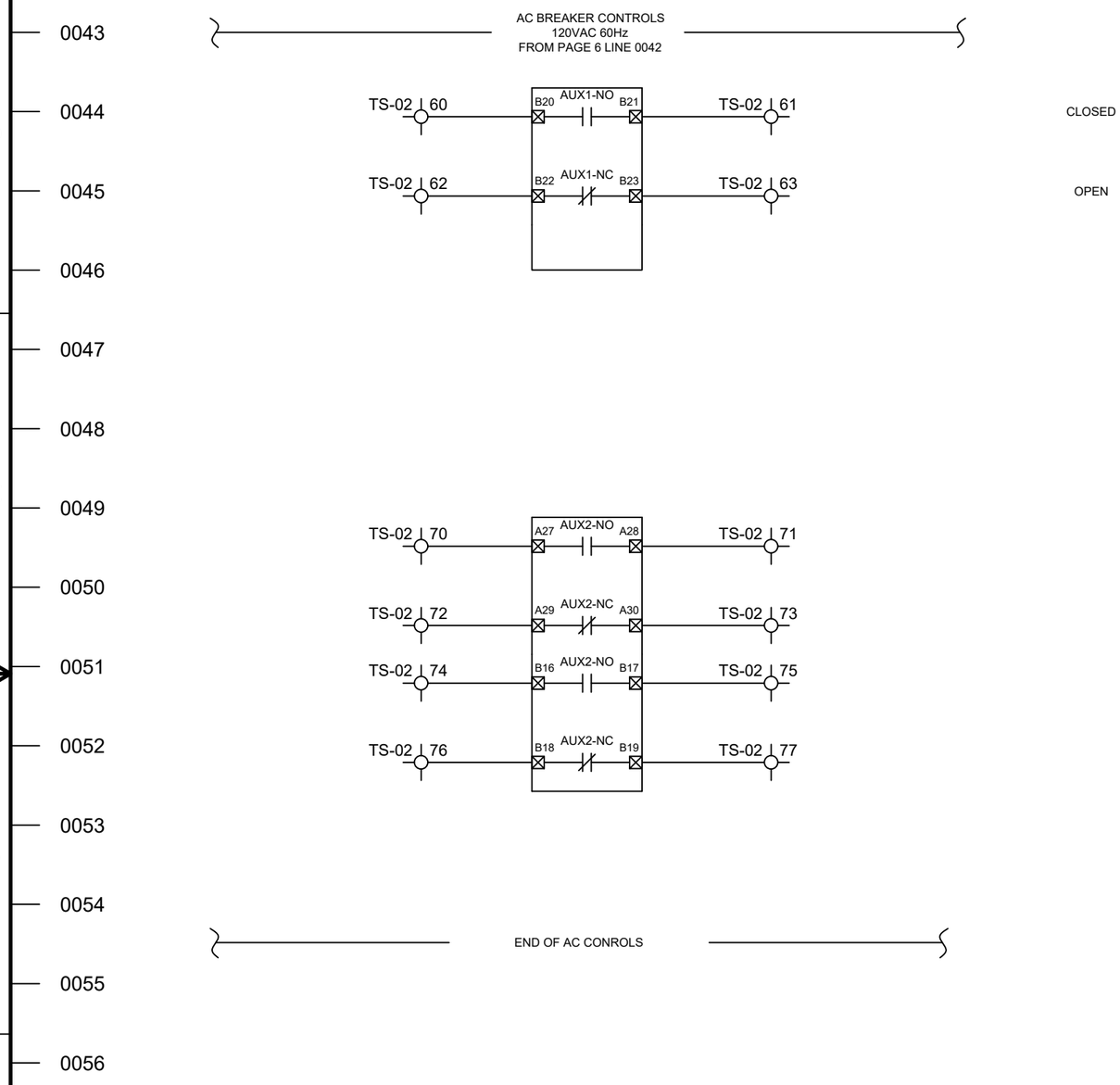
REVISION

SEE PAGE 1

DRAFTER DESSINATEUR: A. LUN	DATE: 07-19-2023	EATON CALGARY, SATELLITE	
ENGINEER INGENIEUR	DATE	TITLE/TITRE: POW-R-LINE C SWITCHBOARD VERMILION ENERGY MICA 8-33-081-14W6M OIL BATTERY	
MFG. ENG.	DATE		
PROJECT NO. NO DE PROJET		G.O. / G.C.: CMCI002815	DWG / DESSIN: CMCI002815-001-23
PARTS LIST		TYPE: APPROVAL	PRODUCT CODE / CODE DE PRODUIT: 1400
UNLESS SPECIFIED TOLERANCE PER: +/- 0.030		REFERENCE	SCALE / ECHELLE: N.T.S.

B — THIRD ANGLE PROJECTION — REV 03 — PAGE 6 OF 8



TERMINAL LAYOUT

BREAKER CONTROL COMPARTMENT LAYOUT

DESC	TERM LABEL	TERM TYPE	JUMPER	CABLE RANGE	DESTINATION
	TS-AC1	WAD 8		N/A LABEL	
	A	WDU 4		#10 - 22	
	B	WDU 4		#10 - 22	
	F2	CHCC2DIU		#6-14	
	F3			#6-14	
	F4	WSI 6/2		#6-20	
	X2	WPE 2.5		#12 - 26	
	X2	WPE 2.5		#12 - 26	
	X2	WPE 2.5		#12 - 26	
	X2	WPE 2.5		#12 - 26	
	X2	WPE 2.5		#12 - 26	
	L	WDU 2.5		#12 - 26	
	L	WDU 2.5		#12 - 26	
	L	WDU 2.5		#12 - 26	
	L	**WDU 2.5**		**#12 - 26**	
	L	**WDU 2.5**		**#12 - 26**	
	L	**WDU 2.5**		**#12 - 26**	
	2	**WDU 2.5**		**#12 - 26**	
	3	**WDU 2.5**		**#12 - 26**	
	TS-02	WAD 8		N/A LABEL	
	60	WDU 2.5		#12 - 26	
	61	WDU 2.5		#12 - 26	
	62	WDU 2.5		#12 - 26	
	63	WDU 2.5		#12 - 26	
	70	WDU 2.5		#12 - 26	
	71	WDU 2.5		#12 - 26	
	72	WDU 2.5		#12 - 26	
	73	WDU 2.5		#12 - 26	
	74	WDU 2.5		#12 - 26	
	75	**WDU 2.5**		**#12 - 26**	

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