

PHASE - WIRE 3P4W FREQUENCY 60 Hertz SYSTEM CURRENT RATING: 400 SHORT CIRCUIT RATING: 30000 WIREWAY WIREWAY В MAIN BUS AMPS: 600 28 0.00ABC 6 FDRCB 70A Stationary С GROUND AMPS: 300A SG ABD 6 FDRCB 70A Stationary ACD D  $\infty$ NEUTRAL: Space 50% Rating 99 ABE 6 FDRCB 125A Stationary Ε BUS BRACING: 09 65000 ABF 6 FDRCB 200A 6 Stationary AAF MAINCB 400A Stationary ACF BUS MATERIAL / PLATING TYPE: Space COPPER/TIN (STD) 54 G 0 ENCLOSURE: NEMA 1G AAH FVNR 10 HP9 Stationary ABH FVNR 3 HP 9 Stationary 90 ACH MOUNTING TYPE: Space 4. Front Only 0 WIRE CLASS: I-BD AAJ FVNR 10 HP 9 Stationary ABJ FVNR 5 HP 9 Stationary ACJ CONTROL VOLTAGE: Space 120 VERTICAL MINIMUM BUS CURRENT RATING: 24 300 ABL FVNR 10 HP9 Stationary ACL L Space STANDARD: ∞ . ACM 6 FDRCB 70A Stationary **UL** Listed М 2. NUMBER OF SECTIONS ACN 6 FDRCB 70A Stationary ABN FVNR 10 HP 9 Stationary AAN SPD 9 72 Stationary 0 WIREWAY WIREWAY WIREWAY Section 1 Section 2 Section 3 AB AC AA 1 1/2 [38.1] CHANNEL SILL 600A 600A 300A 20 20 20 SECTION WIDTH [508] [508] [508] 60 SPLIT WIDTH (#)\* ON NEXT PAGE [1524] \*(#) FROM PREVIOUS PAGE

PROJECT NAME : ACETI-OXIGENO AGUADULCE

OVERALL EQUIPMENT RATING SYSTEM VOLTAGE: 208V

CUSTOMER: ELECTRICIDAD CASTELLANOS, PANAMA W1 Date:10/01/2021 14:27:49



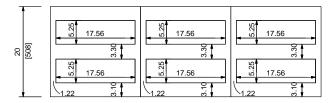
Industrial Solutions by ABB

DRAWING TITLE:	Front View	PRODUCT NAME:
CREATED BY:	Mosquera, Luis	ReliaGe
DATE:	09/30/2021 17:39:52	Motor Contr
REVISION NO.		

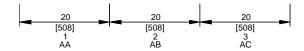
ReliaGear LV MCC Motor Control Center

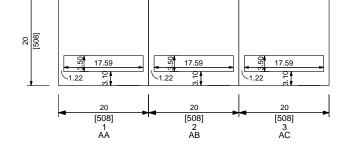
DRAWING NO: ITEM NO: MCC MARKS: QUOTE NO: UX9-00015119 SHEET: 1 of 5

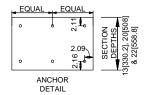




TOP VIEW







**BOTTOM VIEW** 

PROJECT NAME : ACETI-OXIGENO AGUADULCE

CUSTOMER: ELECTRICIDAD CASTELLANOS, PANAMA W1 Date:10/01/2021 14:27:49



Industrial Solutions

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by	A	BE
by	A	BE

DRAWING TITLE:	Conduit View
CREATED BY:	Mosquera, Luis
DATE:	09/30/2021 17:39:52
DEVISION NO	

PRODUCT NAME:

ReliaGear LV MCC

Motor Control Center

DRAWING NO:	
ITEM NO:	•
MARKS:	MCC
QUOTE NO:	UX9-00015119
SHEET:	2 of 5

JNIT LOC	CIRCUIT NAME	WIRE DIAGRAM	FUNCTION	HEIGHT	SIZE	HP, KW, K=KW	FULL LOAD	RPM	SERVICE FACTOR	OVERLOAD HEATER	OVERLOAD RELAY	CIRCUIT BREAKER/	TRIP FUSE/	FUSES BY	TO <sup>-</sup>	TAL LOCK	CPT VA	NDICATING LIGHTS	SWITCH	PUSH BUTTON	NOTES
.00		DIAGRAM				K=KVV	AMPS		PACTOR	HEATER	RELAT	SWITCH	CLIP	ы	NO		VA			BOTTON	
AAF	BLANK NP		MAINCB	36								SGL4T	400A								
	Device furnished with (LI) characterist	tics only Insta	antaneous is adj	justable. St	ationary	Stab.															
AAH	BLANK NP		FVNR	12	2	10HP	27.5			25-50 SSOL - DXJ(Y)	SOLID STATE	SELI	50A		2	1	150	2	1	2	
	Unit is provided with: Run Red LED S								Stop / Start	Non Illuminated Black /	(Red / Black) Sw	itch and Push	Button Pro	vided. Con	trol Pov	ver for	the Uni	t is provided v	ria a Contro	l Power	
AAJ	Transformer. Stationary Stab.Device BLANK NP	turnisnea wi	th (LI) character FVNR	12	nstantar 2	10HP	27.5		1.15	25-50	SOLID STATE	SELI	50A		2	1	150	2	1	2	
	Unit is provided with: Run Red LED S Transformer. Stationary Stab.Device								Stop / Start	SSOL - DXJ(Y) Non Illuminated Black /	(Red / Black) Sw	itch and Push	Button Pro	vided. Con	trol Pov	ver for	the Uni	t is provided v	ria a Contro	l Power	
AAN	BLANK NP	lumisned wi	SPD	24	listantai	10003 13 80	ustable.														
AAIN	BLANK NP		250	24																	
ABC	BLANK NP		FDRCB	6								XT2N125	70A								
	Thermal Magnetic Fixed trip unit with	LI protection	. The load of th	e unit will s	upport c	able range	of #10 -	1/0 AW	G and (1) ca	bles per phase. Station	ary Stab.									- 1	
ABD	BLANK NP		FDRCB	6								XT2N125	70A								
	Thermal Magnetic Fixed trip unit with	LI protection	. The load of th	e unit will s	upport c	able range	of #10 -	1/0 AW	G and (1) ca	bles per phase. Station	ary Stab.										
ABE	BLANK NP		FDRCB	6								XT2N125	125A								
	Thermal Magnetic Adjustable trip unit	with LI prote	ction. The load	of the unit	will supp	ort cable r	ange of	#10 - 1/0	AWG and	1) cables per phase. St	ationary Stab.										
ABF	BLANK NP		FDRCB	6								XT4N250	200A								
	Thermal Magnetic Fixed trip unit with	LI protection			upport c						1										
ABH	BLANK NP Unit is provided with: Run Red LED S	tandard Ligh	FVNR	12	1 dord Lie	3HP	9 / Off / A	1800		6.5-13.5 SSOL - CXG	SOLID STATE		15A	wided Con	2	1	150	2	1	2 L Power	
	Transformer. Stationary Stab.Device	furnished wit	th (LI) character	ristics only	uaru Ligi Instantar	neous is ad	iustable.	uio anu	Stop / Start	Non illuminateu biack /	(Red / Black) Sw	ilon and Fusii	Bullon Fic	Mided. Con	ILIOI FOV	vei ioi	ine on	i is provided v	ia a Coniii	rowei	
ABJ	BLANK NP	Turrioriou III	FVNR	12	1	5HP	14.4	1800	1.15	1327 SSOL - CXH	SOLID STATE	SELI	20A		3	2	150	2	1	2	
	Unit is provided with: Run Red LED S Transformer. Stationary Stab.Device								Stop / Start		(Red / Black) Sw	itch and Push	Button Pro	vided. Con	trol Pov	ver for	the Uni	t is provided v	ria a Contro	l Power	
ABL	BLANK NP		FVNR	12	2	10HP	27.5		1.15	25-50 SSOL - DXJ(Y)	SOLID STATE	SELI	50A		2	1	150	2	1	2	
	Unit is provided with: Run Red LED S Transformer. Stationary Stab.Device							uto and	Stop / Start	Non Illuminated Black /	(Red / Black) Sw	itch and Push	Button Pro	vided. Con	itrol Pov	ver for	the Uni	t is provided v	ria a Contro	l Power	
ABN			FVNR	12	2	10HP	27.5	1800	1.15	25-50 SSOL - DXJ(Y)	SOLID STATE	SELI	50A		2	1	150	2	1	2	
	Unit is provided with: Run Red LED S							uto and	Stop / Start	Non Illuminated Black /	(Red / Black) Sw	itch and Push	Button Pro	vided. Con	trol Pov	ver for	the Uni	t is provided v	ria a Contro	l Power	
	Transformer. Stationary Stab.Device	furnished wit			Instantar	neous is ad	justable.							1							
ACD	BLANK NP		SPACE	12																	
ACF	BLANK NP		SPACE	12																	
, (01							•	•													
ACH	BLANK NP		SPACE	12																	
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	BLANK NP		SPACE	12																	
ACH																					
ACH ACJ ACL	BLANK NP		SPACE	12								XT2N125	70A								
ACH	BLANK NP  BLANK NP	LI protection	SPACE SPACE FDRCB	12	support c	able range	of #10 -	1/0 AW	G and (1) ca	bles per phase. Station	ary Stab.	XT2N125	70A								
ACH ACJ ACL	BLANK NP BLANK NP	LI protection	SPACE SPACE FDRCB	12	upport c	able range	of #10 -	1/0 AW	G and (1) ca	bles per phase. Station	ary Stab.	XT2N125  XT2N125	70A								

PROJECT NAME : ACETI-OXIGENO AGUADULCE

CUSTOMER: ELECTRICIDAD CASTELLANOS, PANAMA W1 Date:10/01/2021 14:27:49



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DRAWING TITLE:	Unit Summary	ı
CREATED BY:	Mosquera, Luis	
	•	
DATE:	09/30/2021 17:39:52	
REVISION NO.		

PRODUCT NAME: ReliaGear LV MCC Motor Control Center

DRAWING NO: ITEM NO: MARKS: MCC QUOTE NO: UX9-00015119 SHEET: 3 of 5

## GENERAL NOTES FOR ENTIRE JOB:

- 1. MCC Enclosure is furnished per Nema Type 1 Gasketed specifications.
- 2. Tin-Plated Stabs are furnished with stab units.
- 3. Hi-Density Pull-Apart Control Terminal Boards will be supplied.
- 4. All unused stab holes in vertical bus will be plugged.
- 5. MTW VW1 wire required for all control wire.
- 6. MTW VW1 wire required for all power wire.
- 7. Standard Stripped wire connections on all power wire.
- 8. Standard stripped wire connections on all control wires.
- 9. Standard power terminal boards will be supplied.
- 10. Communication wiring will NOT be provided from the factory for any devices in the lineup.
- 11. Standard blank doors provided for starter units without any pilot lights, selector switches or push buttons selected.
- 12. MCC Furnished with Black with White Text Unit Nameplates.
- 13. Main, Vertical, Ground and Neutral Bus will be furnished with Double Bolt Joints.
- 14. Each vertical section will be provided with Rear Covers.
- 15. Seismic Rating will NOT be provided with this Lineup.
- 16. MCC Furnished with Type 2 SPD ME 65kA per mode / 130kA per phase, 200KAIC. SPD Furnished with Indicating Lights, Alarm, Form C Contacts, Surge Counter & Disconnect Switch.
- 17. Customer will NOT provide Specifications or Drawings to the Factory.
- 18. MCC Lineup will be provide with 2" Main bus.

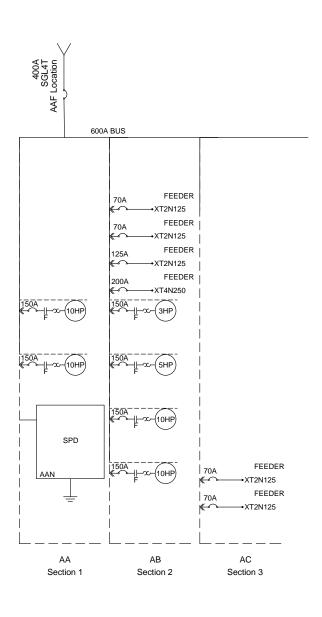
PROJECT NAME : ACETI-OXIGENO AGUADULCE

CUSTOMER: ELECTRICIDAD CASTELLANOS, PANAMA W1 Date:10/01/2021 14:27:49



Industrial \_\_ Solutions by ABB

ReliaGear LV MCC
Motor Control Center



PROJECT NAME : ACETI-OXIGENO AGUADULCE

CUSTOMER: ELECTRICIDAD CASTELLANOS, PANAMA W1 Date:10/01/2021 14:27:49

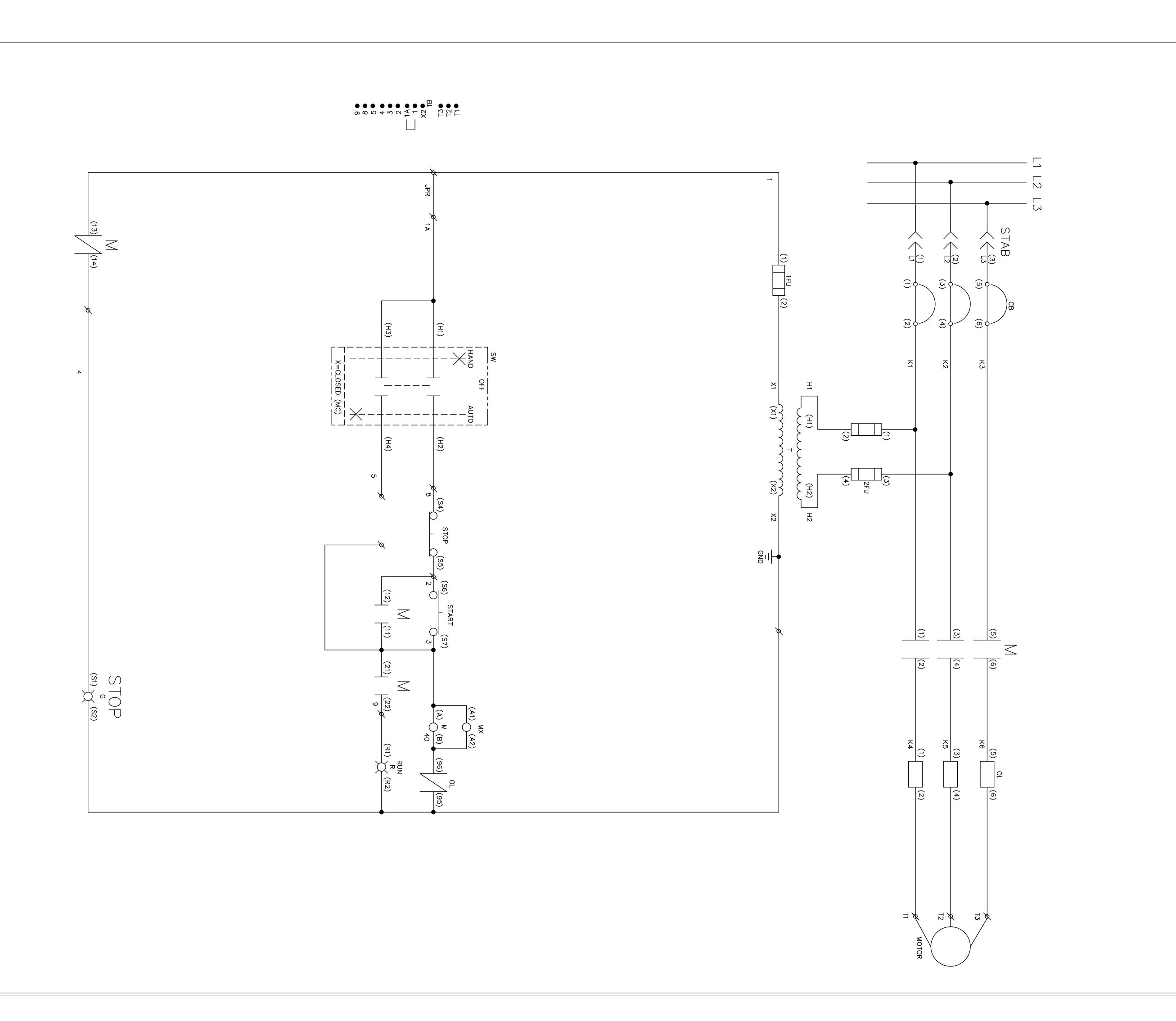


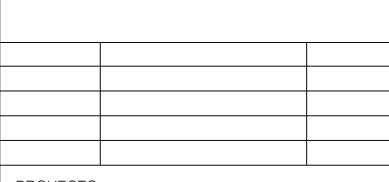
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	DRAWING TITLE:	Line Diagram
	CREATED BY:	Mosquera, Luis
_		
3	DATE:	09/30/2021 17:39:52
	REVISION NO.	

PRODUCT NAME: ReliaGear LV MCC Motor Control Center

DRAWING NO: ITEM NO: MARKS: MCC QUOTE NO: UX9-00015119 SHEET: 5 of 5





PROYECTO:

PLANOS FINALES DE LA PLANTA I AOSA

SWITCHGEAR 4160 V

DESARROLLADOR:



Aceti-Oxigeno, S.A. fabricantes de gases para uso medico e industriales

UBICACIÓN: DISTRITO DE AGUADULCE, CORREGIMIENTO DE AGUADULCE, PROVINCIA DE COCLE, REPUBLICA DE PANAMÁ

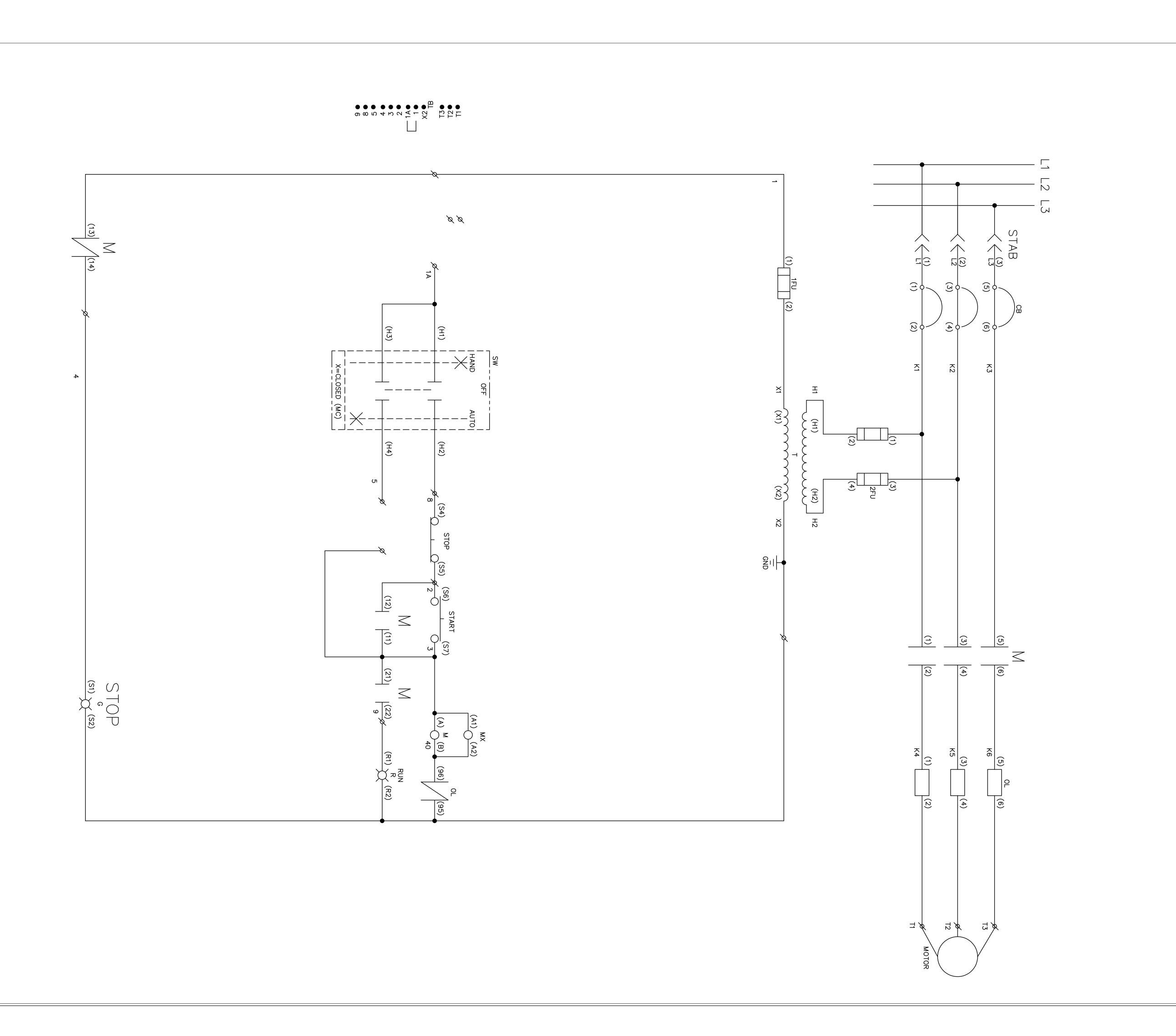
FOLIO REAL: 30179168 CODIGO DE UE	ICACION: 2001
PROPIETARIO	DISEÑO ESTRUCTURAL
XXXXX	XXXXX
DISEÑO DE ARQUITECTURA	DISEÑO ELECTRICO Y SIST. ESPECIALES
XXXXX	ING. CARLOS PEÑA
DIBUJO	DISEÑO DE FONTANERIA
ING. CARLOS PEÑA	XXXXX

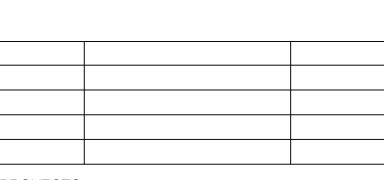
DIRECTOR DE OBRAS Y CONSTRUCCIONES MUNICIPALES

CONTENIDO

NAME PLATE BREAKE

ESCALA	FECHA	LAMINA
INDICADA	MARZO 2022	E-01 E-15





PROYECTO:

PLANOS FINALES DE LA PLANTA I AOSA

SWITCHGEAR 4160 V

DESARROLLADOR:



Aceti-Oxigeno, S.A. fabricantes de gases para uso medico e industriales

UBICACIÓN: DISTRITO DE AGUADULCE, CORREGIMIENTO DE AGUADULCE, PROVINCIA DE COCLE, REPUBLICA DE PANAMÁ

PROPIETARIO	DISEÑO ESTRUCTURAL
XXXXX	XXXXX
DISEÑO DE ARQUITECTURA	DISEÑO ELECTRICO Y SIST. ESPECIALES
XXXXX	ING. CARLOS PEÑA
DIBUJO	DISEÑO DE FONTANERIA
ING. CARLOS PEÑA	XXXXX

DIRECTOR DE OBRAS Y CONSTRUCCIONES MUNICIPALES

CONTENIDO

NAME PLATE BREAKE

ESCALA	FECHA	LAMINA
INDICADA	MARZO 2022	E-01 E-15