

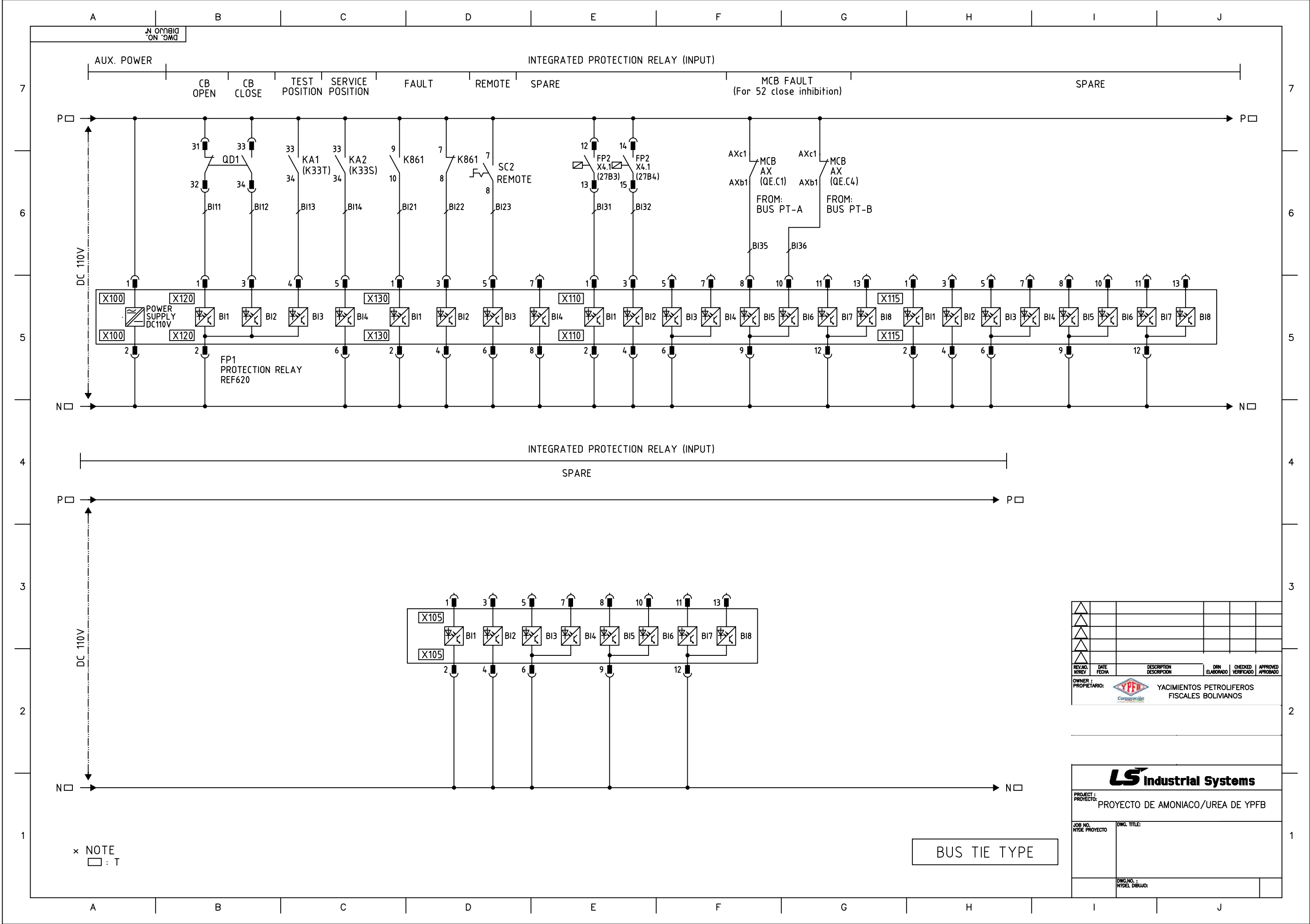


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1									1

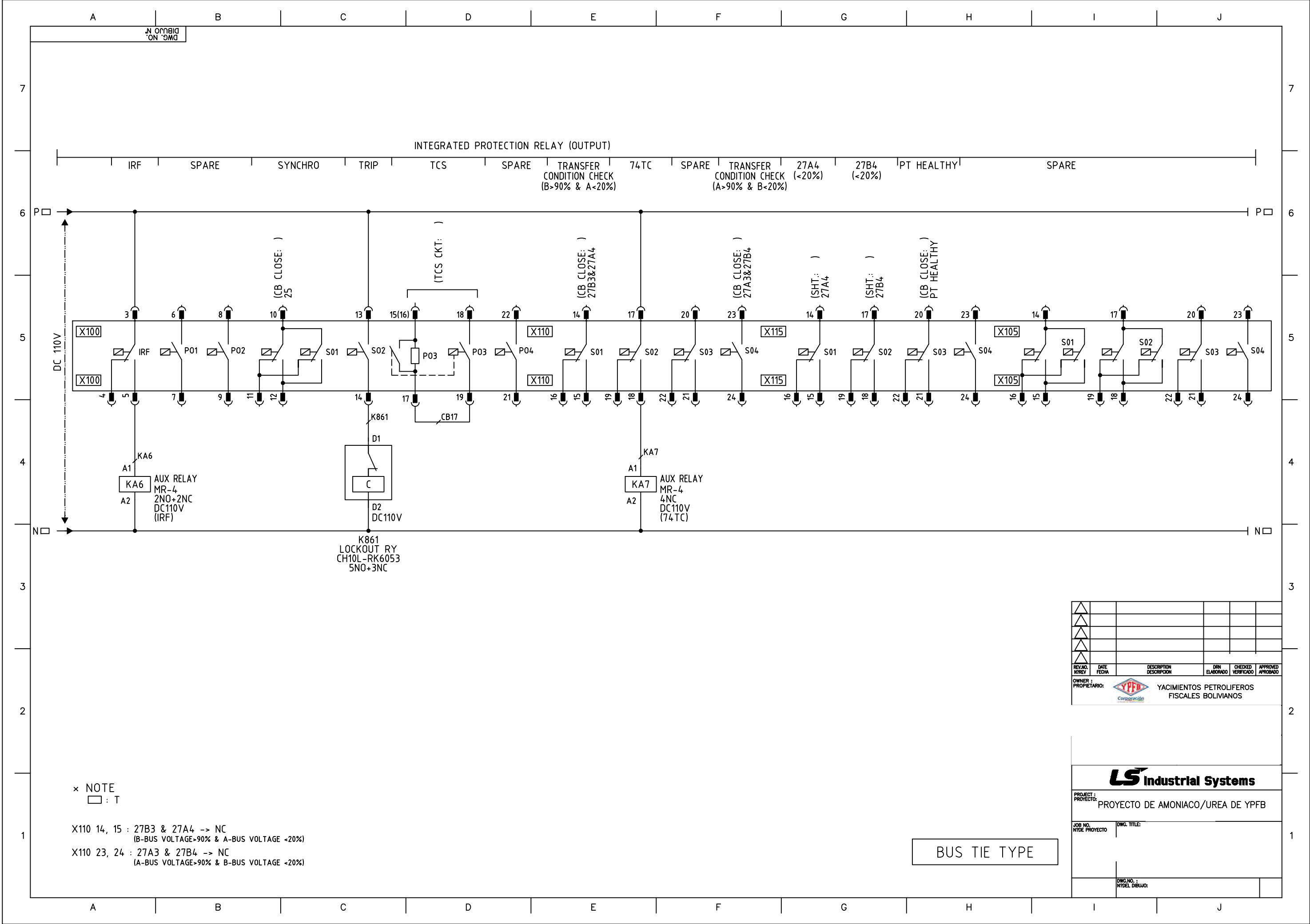
DWG. NO. DIBUJO N°		
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OWNER : PROPIETARIO:		 YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			
					
PROJECT : PROYECTO:					
PROYECTO DE AMONIACO/UREA DE YPFB					
JOB NO. NºDE PROYECTO		DWG. TITLE:			
		DWG.NO. : NºDEL DIBUJO:			



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REV. NO.	DATE	DESCRIPTION	DIN	CHECKED	APPROVED
WREV	FECHA	DESCRIPCION	ELABORADO	VERIFICADO	APROBADO
OWNER :		YPF YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			
PROPIETARIO:		Corporación			

<b>LS Industrial Systems</b>	
PROJECT : PROYECTO:	
PROYECTO DE AMONIAO/UREA DE YPFB	
JOB NO. NÚMERO PROYECTO	DWG. TITLE:
DWG. NO. : NÚMERO DIBUJO:	



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REV. NO.	DATE	DESCRIPTION	DIN	CHECKED	APPROVED
WREV	FECHA	DESCRIPCION	ELABORADO	VERIFICADO	APROBADO
OWNER :		YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			
PROPIETARIO:		Corporación			

**LS Industrial Systems**

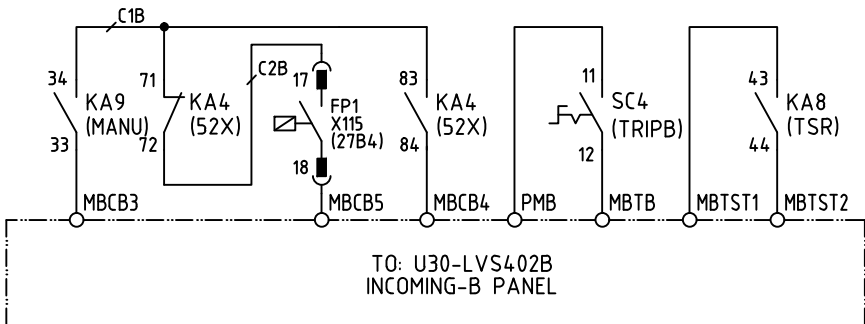
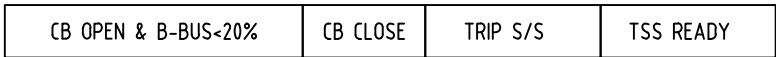
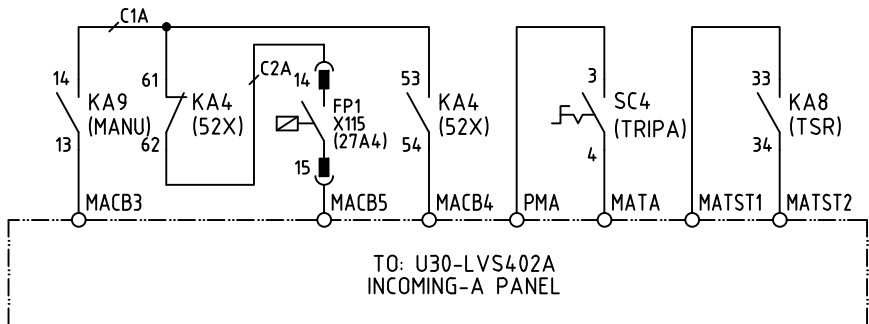
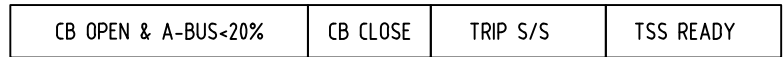
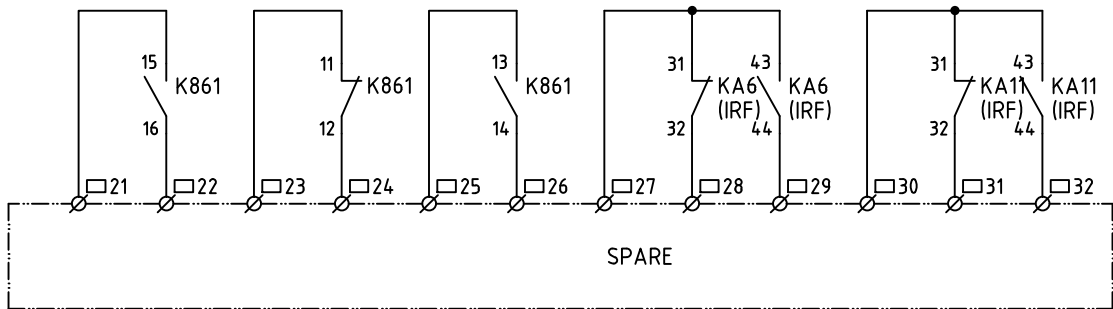
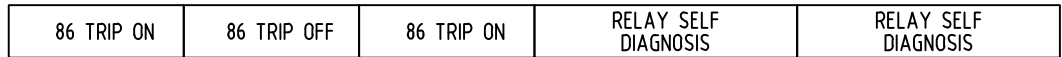
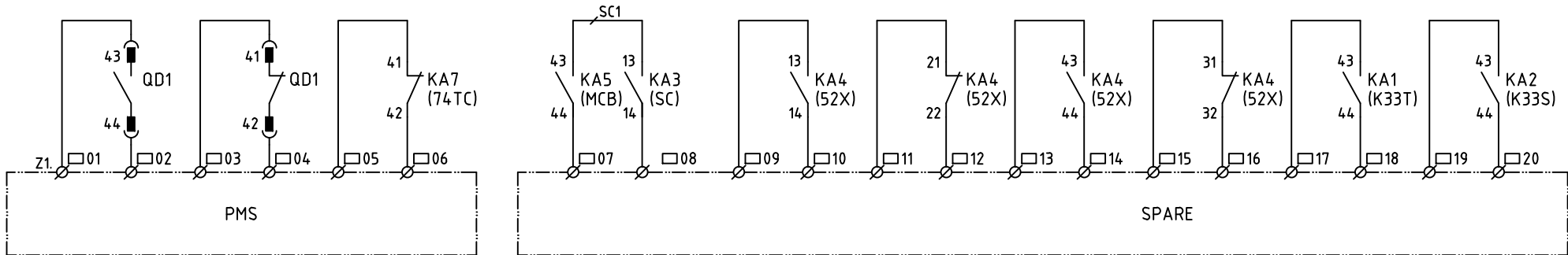
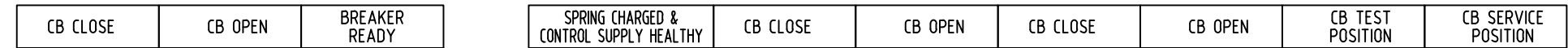
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PROYECTO: PROYECTO DE AMONIACO/UREA DE YPFB

JOB NO.  
NÚMERO PROYECTO

DWG. TITLE:

DWG. NO. :  
NÚMERO DIBUJO:

DWG. NO. 0304



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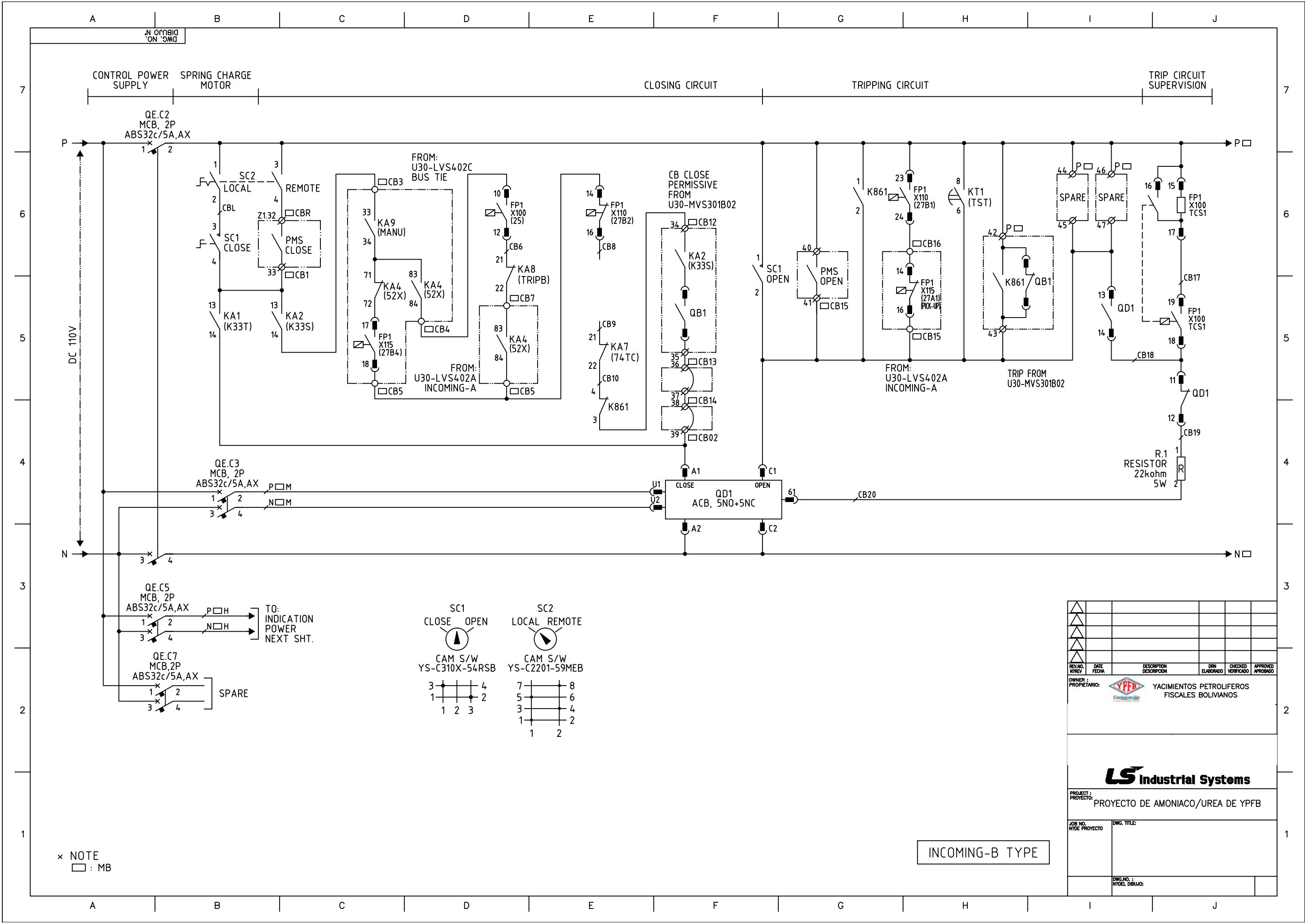
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OWNER : PROPIETARIO:  YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS

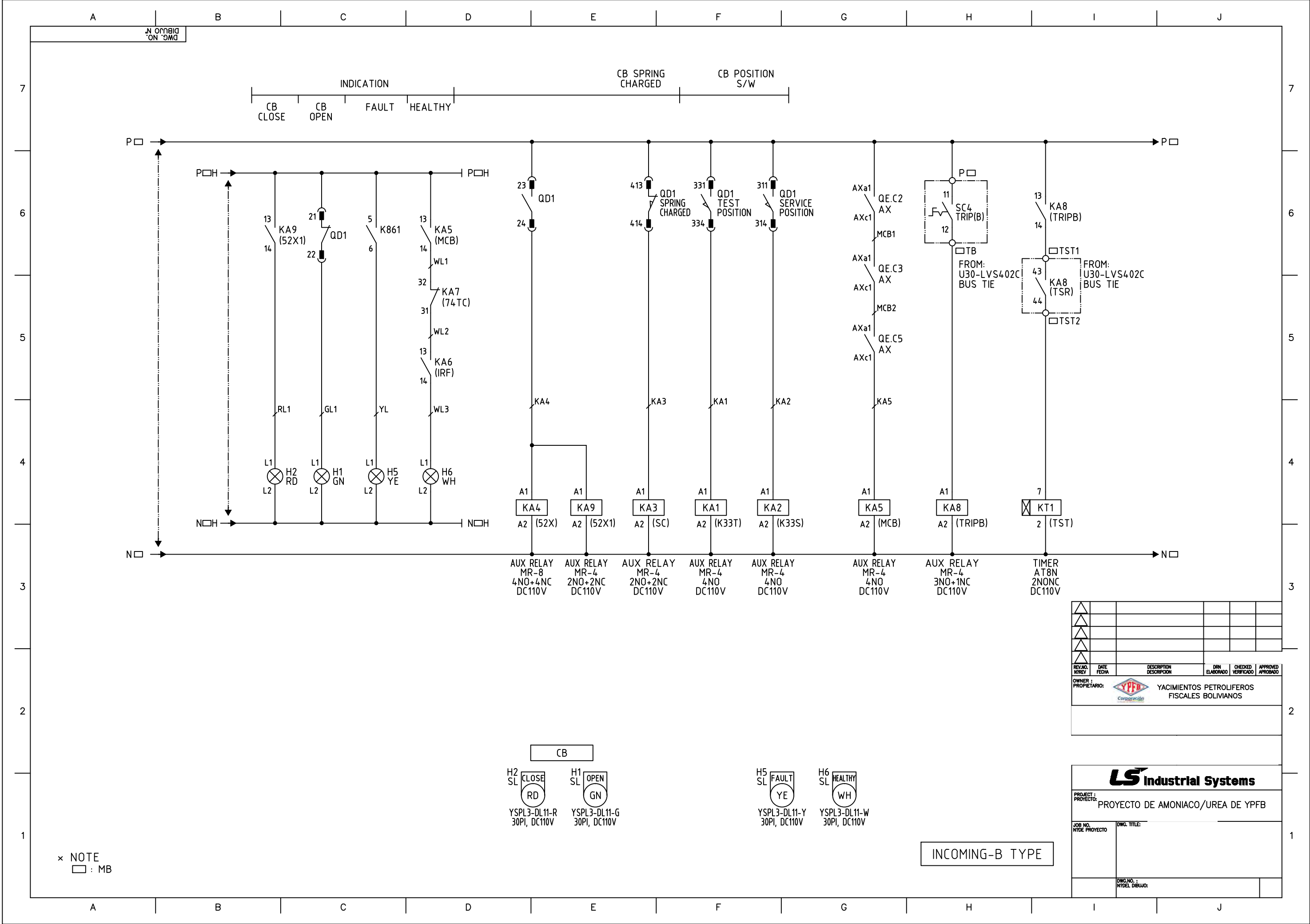
**LS** Industrial Systems

PROJECT : PROYECTO:	PROYECTO DE AMONIAO/UREA DE YPFB				
	Nº DEL CONTRATO: DLG 0304				
JOB NO. Nº DE PROYECTO	DWG. TITLE:				
	DWG. NO. : Nº DEL DIBUJO:				





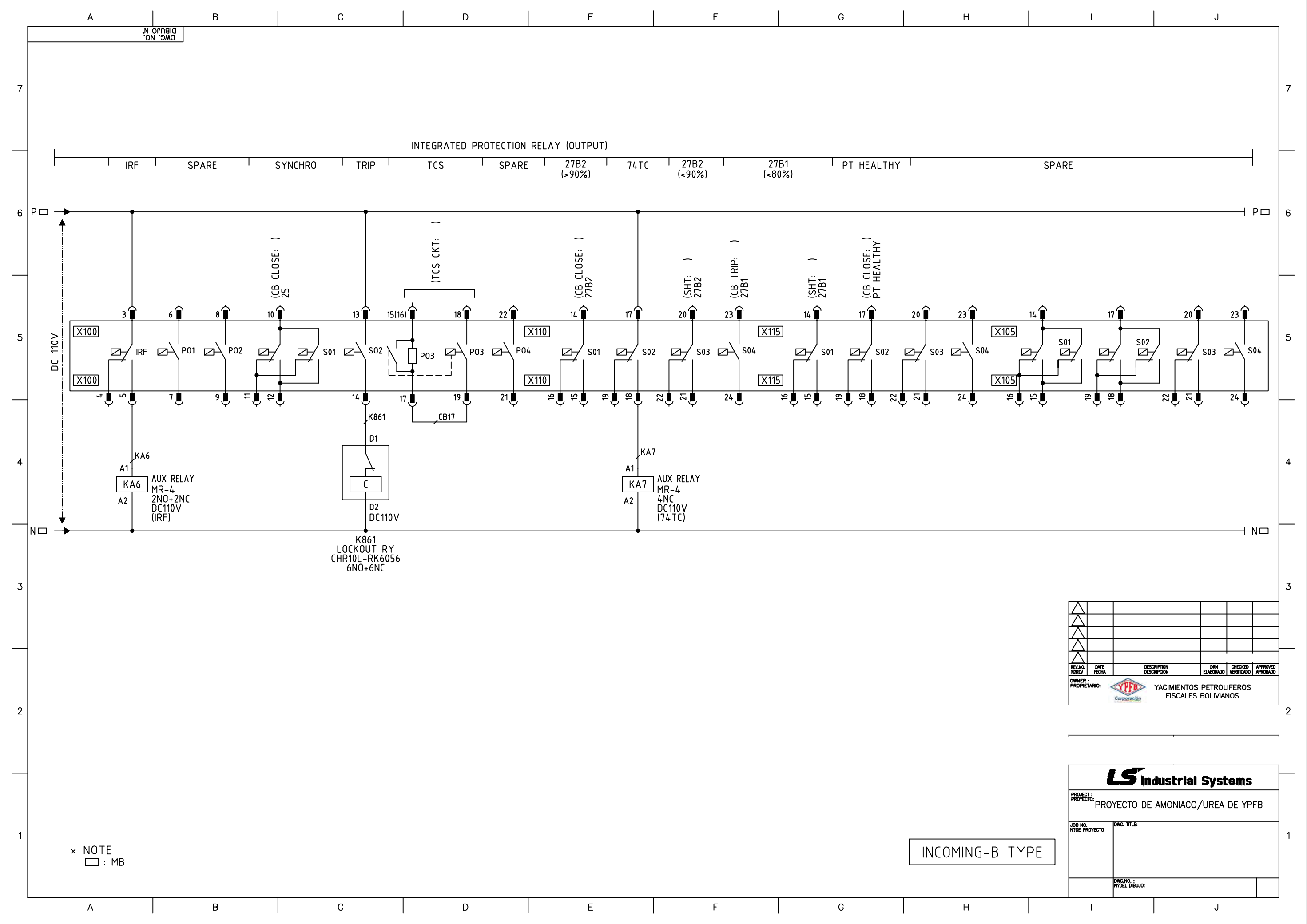
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3	2010/01/01	YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			
4	2010/01/01	YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			
5	2010/01/01	YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			
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9	2010/01/01	YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			
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REV. NO.	DATE	DESCRIPTION	DIN	CHECKED	APPROVED
1	2024	PROYECTO DE AMONIACO/UREA DE YPFB	ELABORADO	VERIFICADO	APROBADO

OWNER : PROPIETARIO: YPFB YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS	
PROJECT : PROYECTO: PROYECTO DE AMONIACO/UREA DE YPFB	
JOB NO. NÚMERO PROYECTO	DWG. TITLE:
DWG. NO. : NÚMERO DIBUJO:	





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REV. NO.	DATE	DESCRIPTION	DIN	CHECKED	APPROVED
01	2024-01-15	PROYECTO DE AMONIACO/UREA DE YPFB	ELABORADO	VERIFICADO	APROBADO

**LS Industrial Systems**

PROJECT :  
PROYECTO: PROYECTO DE AMONIACO/UREA DE YPFB

JOB NO.  
NÚMERO PROYECTO

DWG. TITLE:

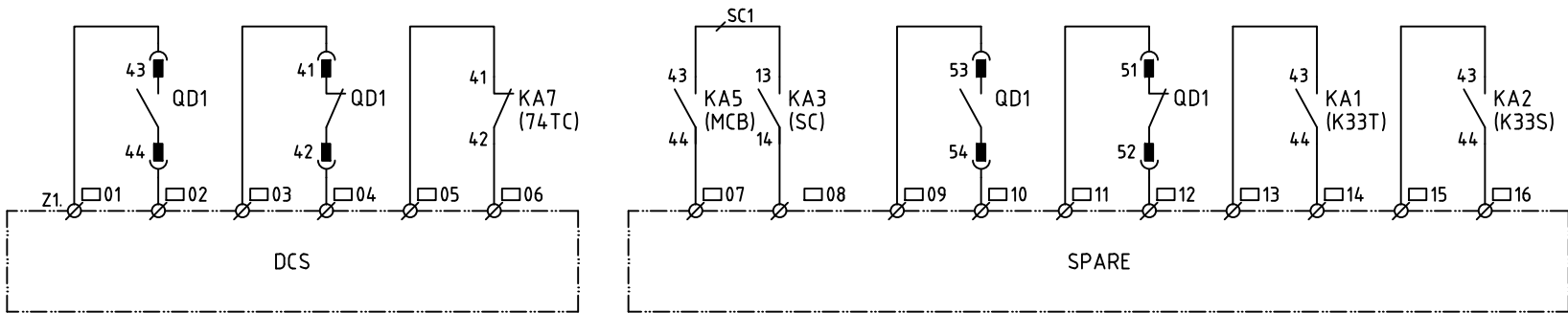
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NÚMERO DIBUJO:

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DWG. NO. 94MD  
ON 94MD

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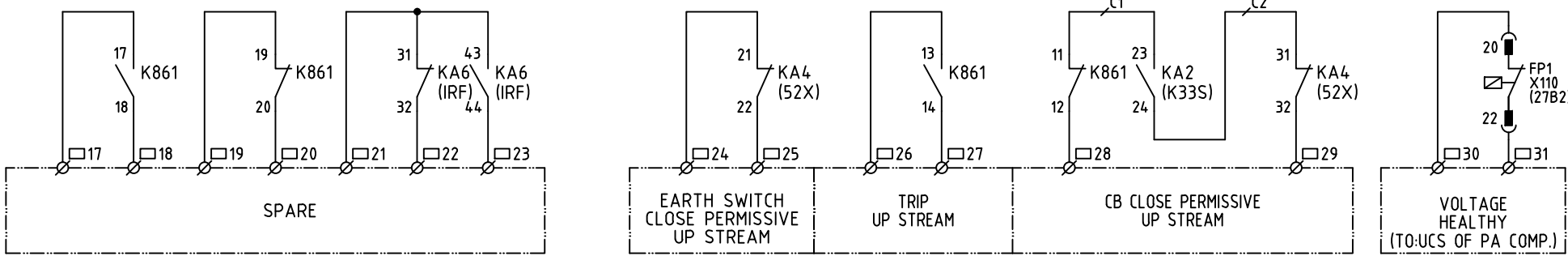
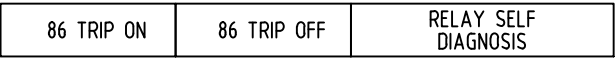


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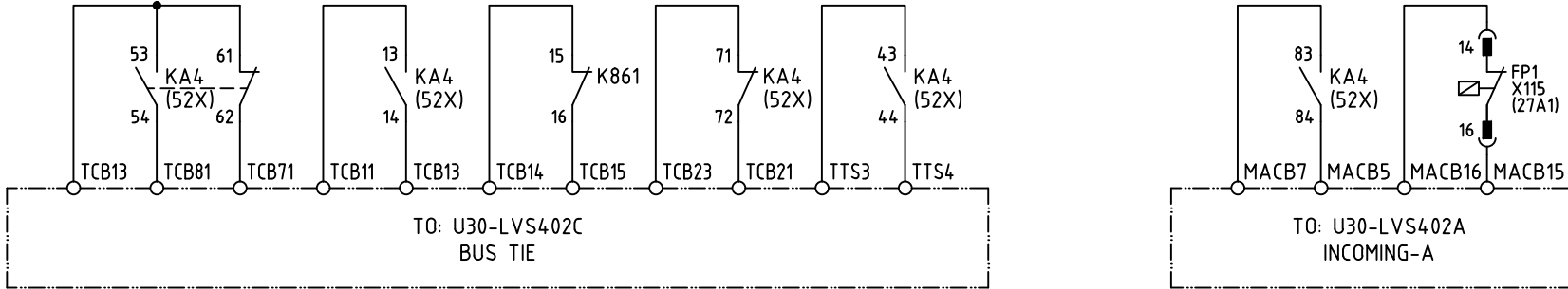
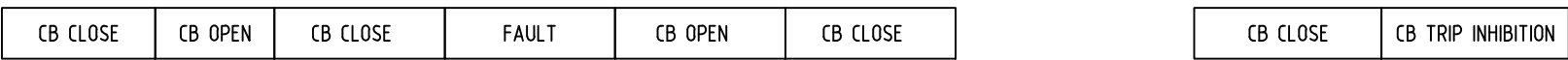


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REV. NO.	DATE	DESCRIPTION	DIN	CHECKED	APPROVED
WREV	FECHA	DESCRIPCION	ELABORADO	VERIFICADO	APROBADO
OWNER : PROPIETARIO:		YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			
PROJECT : PROYECTO:		PROYECTO DE AMONIACO/UREA DE YPFB			
JOB NO. NÚMERO PROYECTO		DWG. TITLE:			
		DWG. NO. : NÚMERO DIBUJO:			

**LS Industrial Systems**



DWG. NO. PDU-PEL-C-VDM-60801-GD003  
DIBUJO N°

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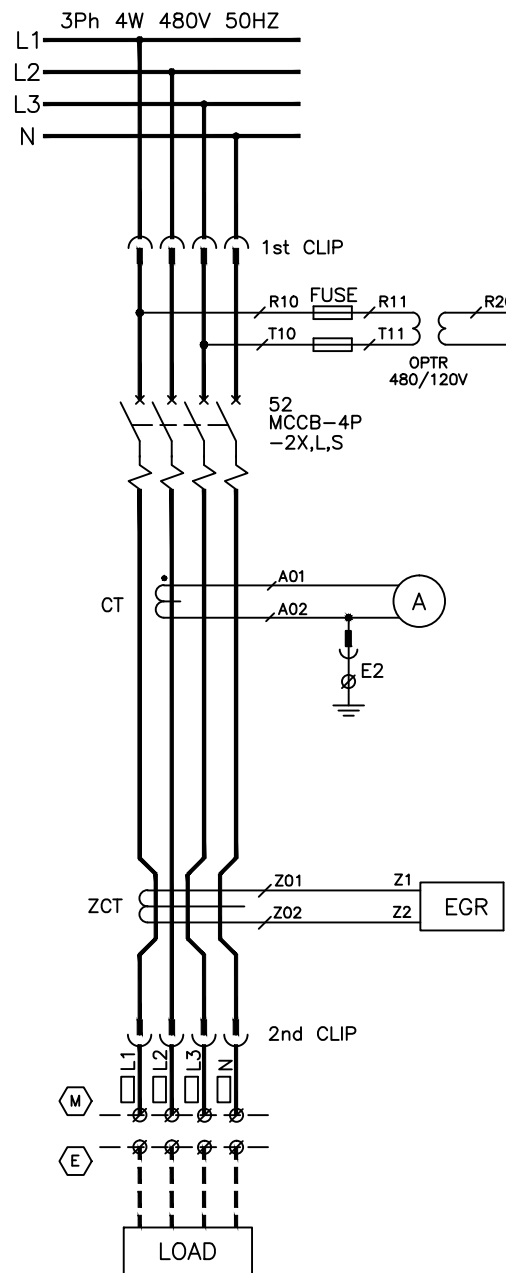
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1



#### LOCATION DESCRIPTION

- (M) MOTOR CONTROL CENTER  
(E) MOTOR  
(R) REMOTE

\* Accessory of MCCB

- X : Auxiliary Switch (52AX)  
-L : Alarm Switch (52AL)  
-S : Shunt Trip Device (52SHT)

MCCB	ON	OFF	TRIP
52AX	AXc1 AXb1	AXc1 AXb1	
52AL	ALc1 ALb1	ALc1 ALb1	

FROM: CONTROL TR  
AC 120V

LC  
NC

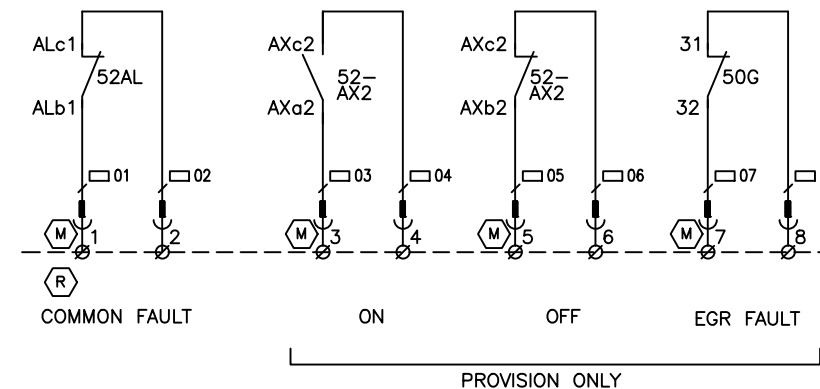
4th CLIP

TX

13 43  
14 44

21 22  
31 32

TX			50G		
	A1-A2	D4		A1-A2	G4
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b	21-22	C6	b	21-22	
b	31-32	C6	b	31-32	G3
a	43-44	C6	a	43-44	
MR-4(2a+2b)			MR-4(2a+2b)		



3-CLIP	
LINE NO.	CLIP NO.
01	1
02	2
03	3
04	4
05	5
06	6
07	7
08	8
	9
	10
	11
	12
	13
	14
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	20
	21
	22
E2	23
E1	24

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03.SEP.15	FINAL				
REV. NO.	DATE	DESCRIPTION	DIN ELABORADO	CHECKED VERIFICADO	APPROVED APROBADO
N° REV	FECHA				
OWNER : YPFB YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS					
PROPIETARIO:					

PROJECT : PROYECTO DE AMONIACO/UREA DE YPFB	
JOB NO. DWG. TITLE:	
N° DE PROYECTO	
TYPICAL SCHEMATIC DIAGRAM FOR 480V MCC TYPE: 48LF2E	
REVISION REV.F	DWG. NO. : PAU-PEL-C-VDM-60801-GD003
N° DEL DIBUJO:	SHT NO. 101

FILE No.0174C-48LF2E

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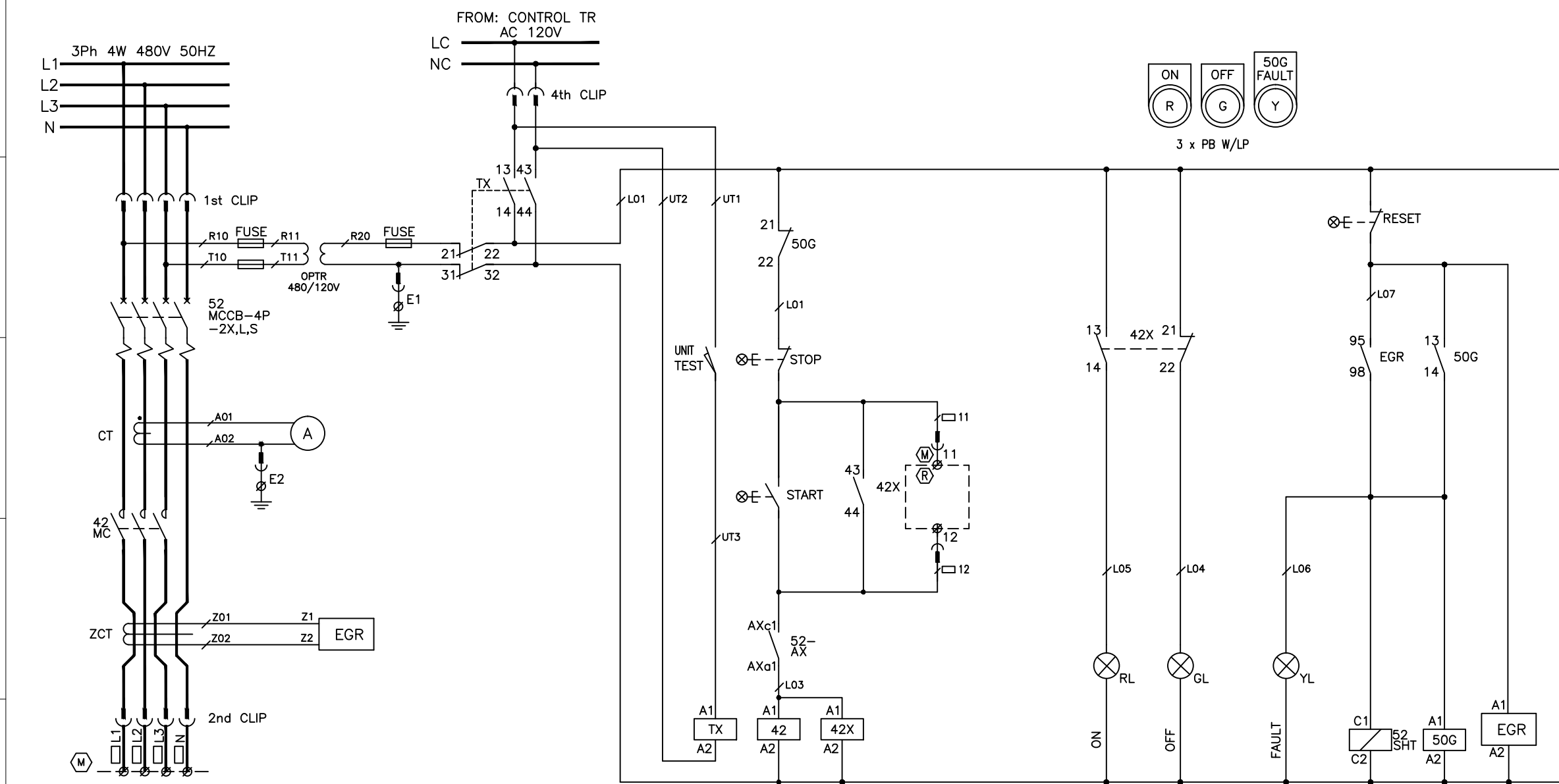
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DWG. NO. PAU-PEL-C-VDM-60801-GD003  
DIBUJO N°



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03	3
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11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
E2	23
E1	24

LOCATION DESCRIPTION  
(M) MOTOR CONTROL CENTER  
(E) MOTOR  
(R) REMOTE

\* Accessory of MCCB  
-X : Auxiliary Switch (52AX)  
-L : Alarm Switch (52AL)  
-S : Shunt Trip Device (52SHT)

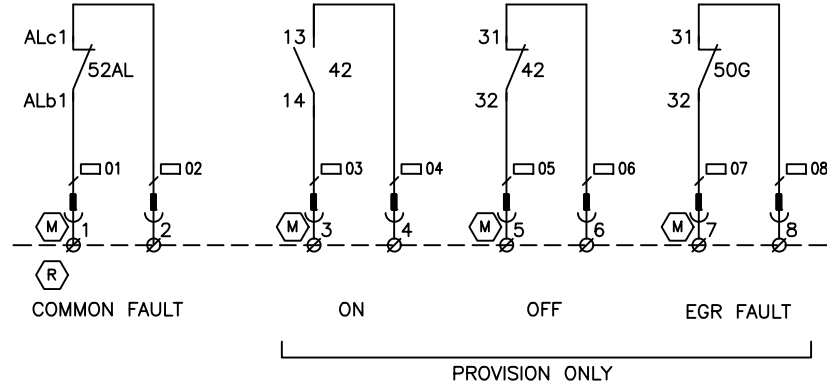
MCCB	ON	OFF	TRIP
52AX	AXc1 AXb1	AXc1 AXb1	
52AL	ALc1 ALb1	ALc1 ALb1	

TX			
A1-A2	D4		
a 13-14	C6		
b 21-22	C6		
b 31-32	C6		
a 43-44	C6		
MR-4(2a+2b)			

42			
A1-A2	E4		
a 13-14	G3		
b 21-22	G3		
b 31-32	G3		
a 43-44			
MC-			

42X			
A1-A2	E4		
a 13-14	G6		
b 21-22	G6		
b 31-32			
a 43-44	E5		
MR-4(2a+2b)			

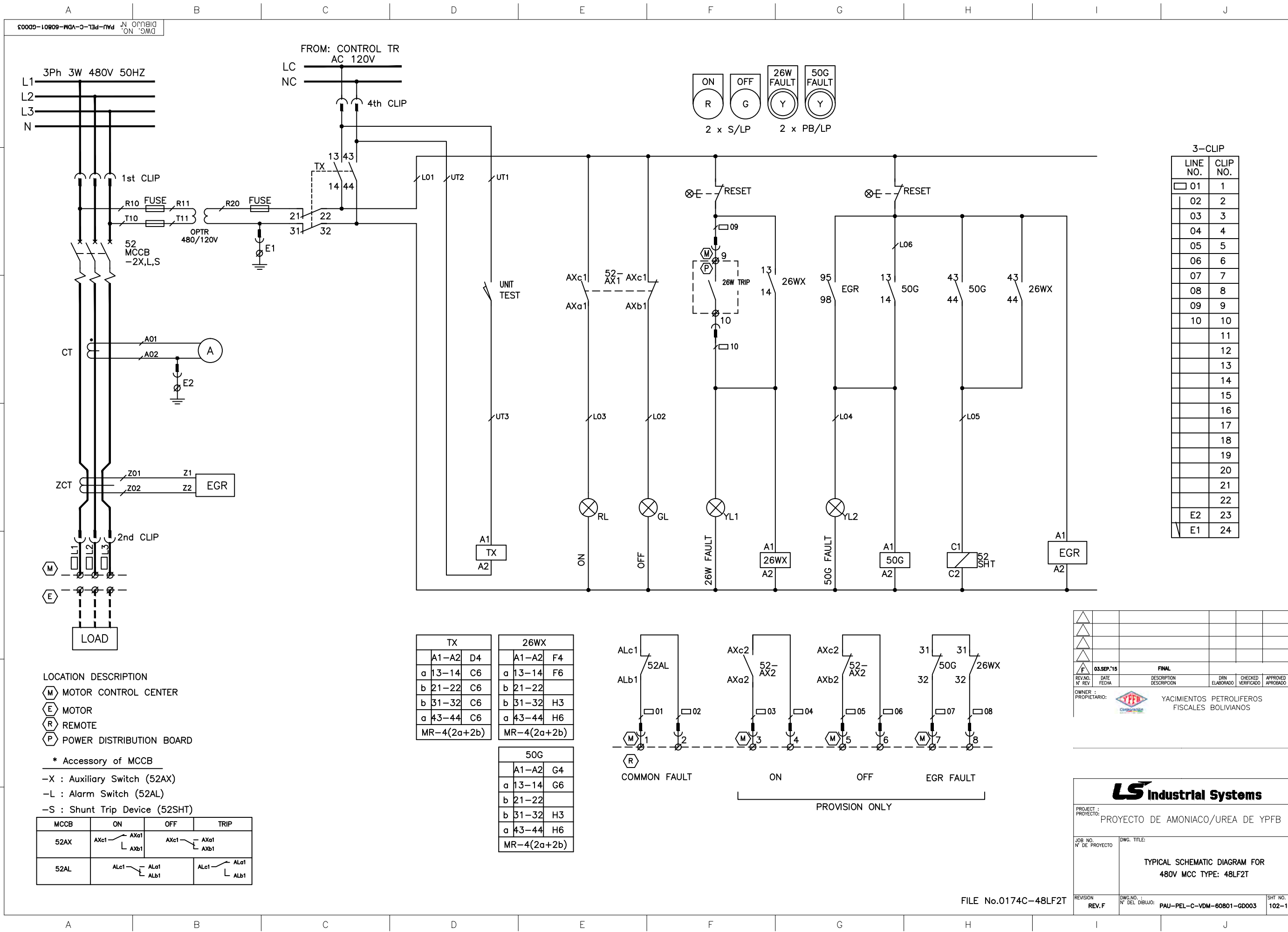
50G			
A1-A2	H4		
a 13-14	H6		
b 21-22	E4		
b 31-32	H3		
a 43-44			
MR-4(2a+2b)			



REV. NO.	DATE	DESCRIPTION	DRN	CHECKED	APPROVED
03.SEP.'15		FINAL			
REV. N°	FECHA	DESCRIPCION	ELABORADO	VERIFICADO	APROBADO
OWNER : YPFB		YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			

PROJECT : PROYECTO DE AMONACO/UREA DE YPFB					
JOB NO. N° DE PROYECTO		DWG. TITLE: TYPICAL SCHEMATIC DIAGRAM FOR 480V MCC TYPE: 48LF2N			
REVISION REV. F	DWG. NO. : PAU-PEL-C-VDM-60801-GD003	SHT NO. 102			





3-CLIP	
LINE NO.	CLIP NO.
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07	7
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12	
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14	
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17	
18	
19	
20	
21	
22	
E2	23
E1	24

LOCATION DESCRIPTION

- (M) MOTOR CONTROL CENTER
- (E) MOTOR
- (R) REMOTE
- (P) POWER DISTRIBUTION BOARD

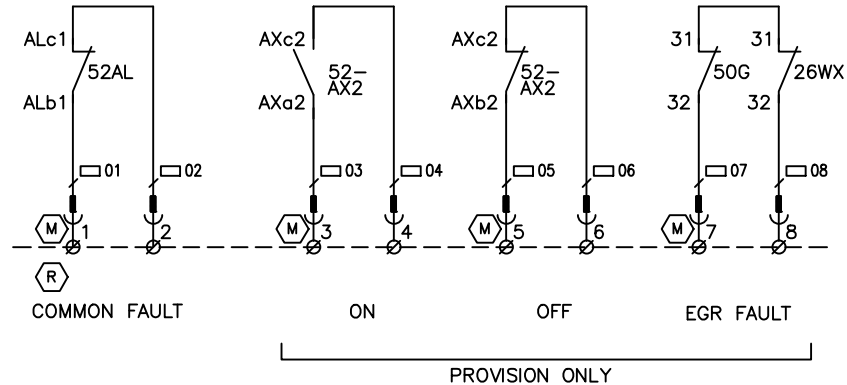
\* Accessory of MCCB

- X : Auxiliary Switch (52AX)
- L : Alarm Switch (52AL)
- S : Shunt Trip Device (52SHT)

MCCB	ON	OFF	TRIP
52AX	AXc1 AXb1	AXc1 AXb1	
52AL	ALc1 ALb1	ALc1 ALb1	

TX			
A1-A2	D4		
a 13-14	C6		
b 21-22	C6		
b 31-32	C6		
a 43-44	C6		
MR-4(2a+2b)			

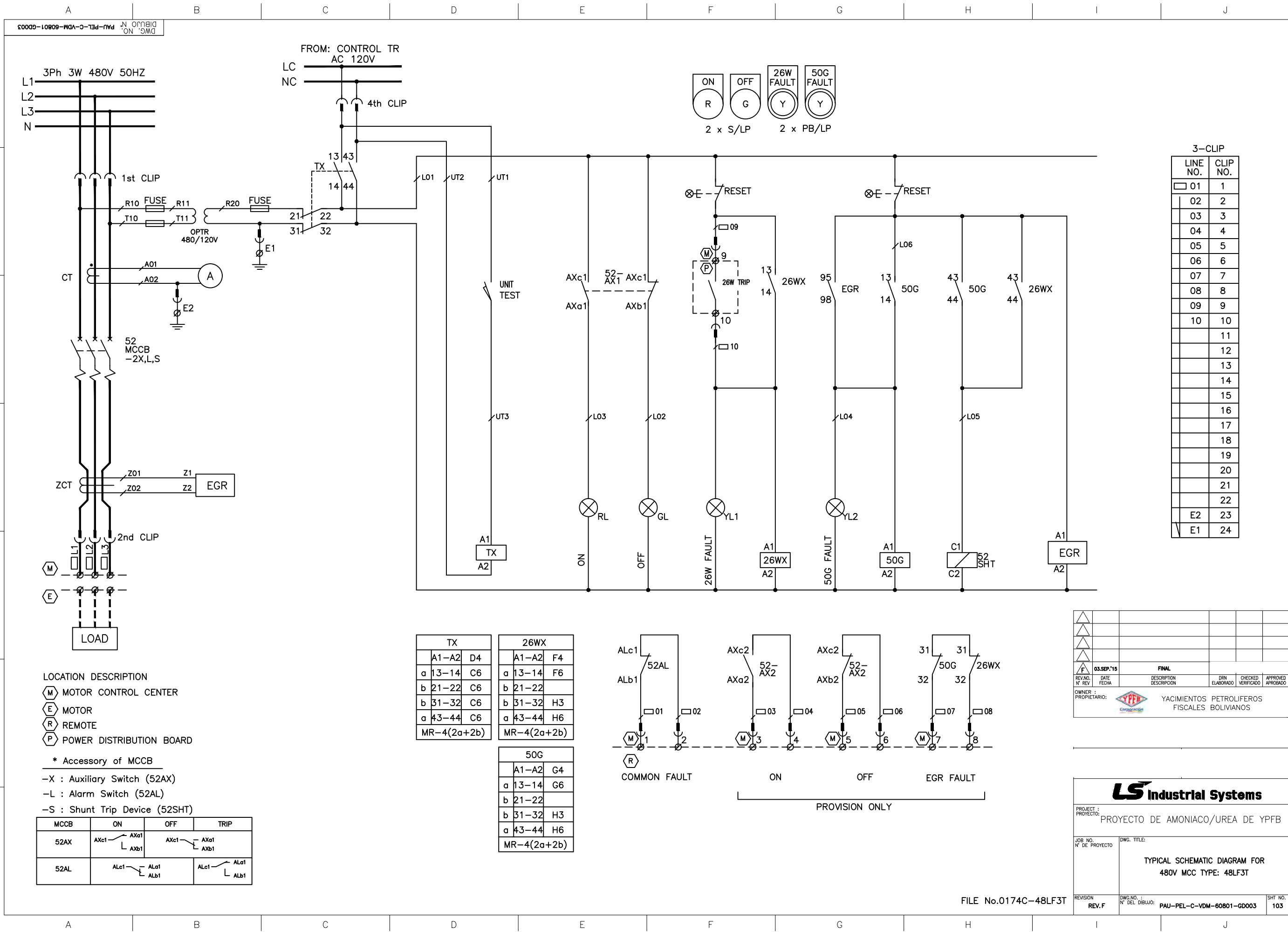
26WX			
A1-A2	F4		
a 13-14	F6		
b 21-22			
b 31-32	H3		
a 43-44	H6		
MR-4(2a+2b)			



REV. NO.	DATE	DESCRIPTION	ELABORADO	CHECKED	APPROVED
03.SEP.'15		FINAL			
OWNER :	PROPIETARIO :	YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			

LS Industrial Systems					
PROJECT : PROYECTO DE AMONIACO/UREA DE YPFB					
JOB NO. N° DE PROYECTO		DWG. TITLE: TYPICAL SCHEMATIC DIAGRAM FOR 480V MCC TYPE: 48LF2T			
REVISION REV.F		DWG. NO. : PAU-PEL-C-VDM-60801-GD003		SHT NO. 102-1	

FILE No.0174C-48LF2T



LOCATION DESCRIPTION

(M) MOTOR CONTROL CENTER

(E) MOTOR

(R) REMOTE

(P) POWER DISTRIBUTION BOARD

\* Accessory of MCCB

-X : Auxiliary Switch (52AX)

-L : Alarm Switch (52AL)

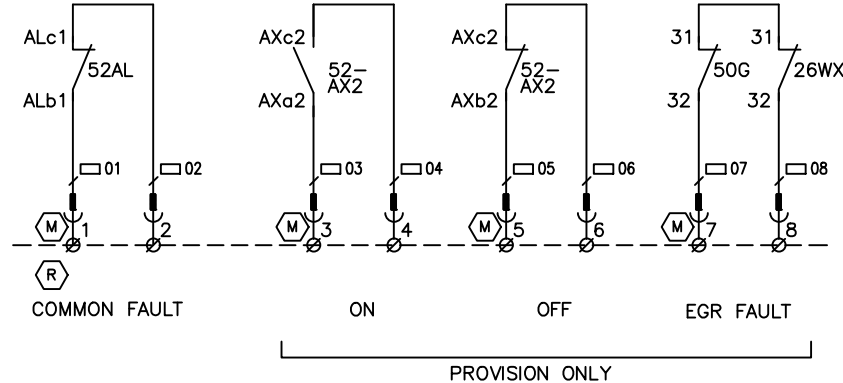
-S : Shunt Trip Device (52SHT)

MCCB	ON	OFF	TRIP
52AX	AXc1 AXb1	AXc1 AXb1	
52AL	ALc1 ALb1		ALc1 ALb1

TX			
A1-A2	D4		
a 13-14	C6		
b 21-22	C6		
b 31-32	C6		
a 43-44	C6		
MR-4(2a+2b)			

26WX			
A1-A2	F4		
a 13-14	F6		
b 21-22			
b 31-32	H3		
a 43-44	H6		
MR-4(2a+2b)			

50G			
A1-A2	G4		
a 13-14	G6		
b 21-22			
b 31-32	H3		
a 43-44	H6		
MR-4(2a+2b)			

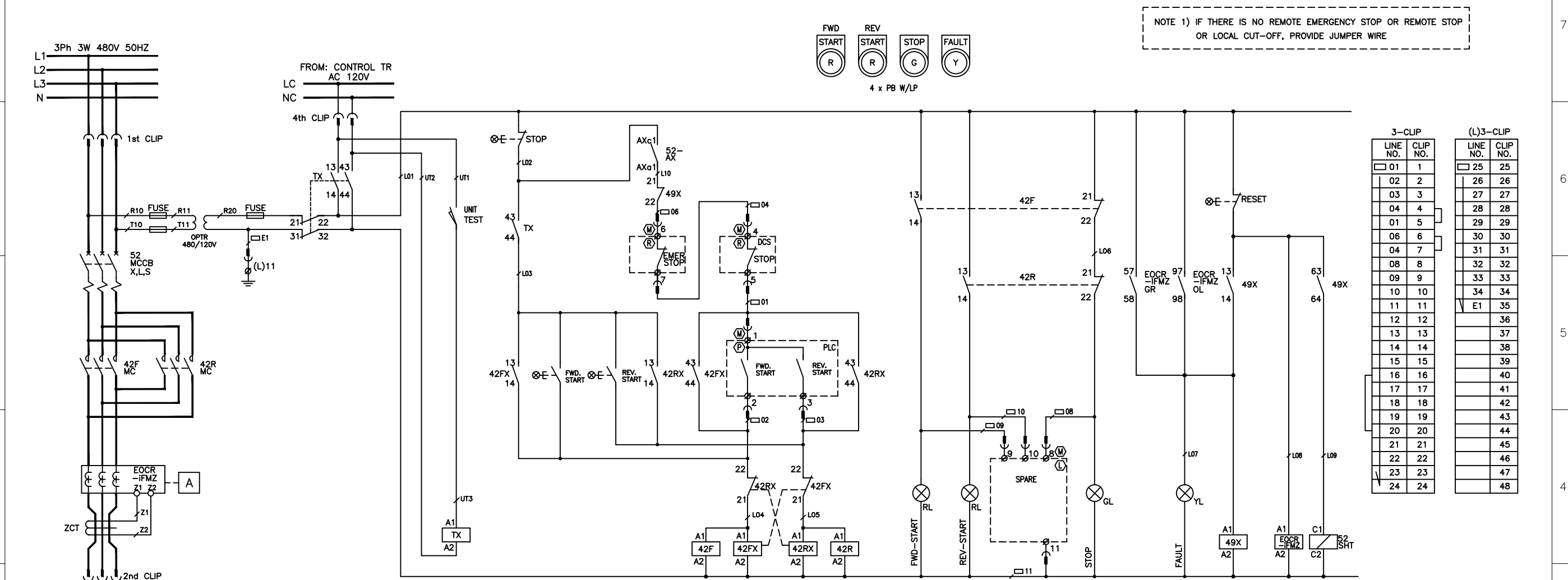


3-CLIP	
LINE NO.	CLIP NO.
01	1
02	2
03	3
04	4
05	5
06	6
07	7
08	8
09	9
10	10
	11
	12
	13
	14
	15
	16
	17
	18
	19
	20
	21
	22
E2	23
E1	24

REV. NO.	DATE	DESCRIPTION	BY	CHECKED	APPROVED
03.SEP.15		FINAL			
OWNER :	PROPIETARIO :	YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			

PROJECT : PROYECTO DE AMONIACO/UREA DE YPFB					
TYPICAL SCHEMATIC DIAGRAM FOR 480V MCC TYPE: 48LF3T					
REVISION	DWG. NO. :	SHT. NO.			
REV. F	Nº DEL DIBUJO: PAU-PEL-C-VDM-60801-GD003	103			

DWG. NO. PAU-PEL-C-VDM-60801-GD003  
DIBUJO N°



- LOCATION DESCRIPTION
- (M) MOTOR CONTROL CENTER
  - (L) LCS
  - (P) PLC
  - (R) REMOTE PANEL(ESD/DCS/LCP)

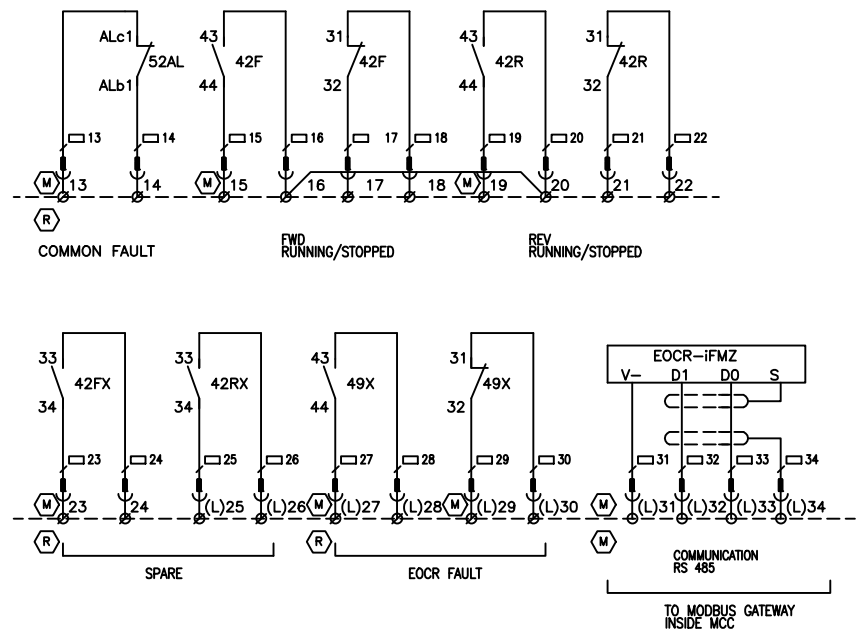
\* Accessory of MCCB

-X : Auxiliary Switch (52AX)  
-L : Alarm Switch (52AL)  
-S : Shunt Trip Device (52SHT)

MCCB	ON	OFF	TRIP
52AX	AXa1 AXb1	AXa1 AXb1	AXa1 AXb1
52AL	ALa1 ALb1	ALa1 ALb1	ALa1 ALb1

TX	42FX	42RX
A1-A2 D4	A1-A2 C4	A1-A2 C4
a 13-14 C6	a 13-14 D5	a 13-14 D5
b 21-22 C6	b 21-22 C4	b 21-22 C4
b 31-32 C6	a 33-34 E6	a 33-34 E6
a 43-44 C6	a 43-44 E6	a 43-44 F6
MR-4(2a+2b)	MR-4(3a+1b)	MR-4(3a+1b)

42F	42R	49X
A1-A2 E4	A1-A2 E4	A1-A2 H4
a 13-14 F6	a 13-14 G5	a 13-14 H5
b 21-22 H6	b 21-22 H5	b 21-22 C6
b 31-32 G3	b 31-32 G3	b 31-32 C6
a 43-44 F3	a 43-44 G3	a 43-44 E2
MC-	MC-	b 51-52
		a 53-64 I6
		MR-6(3a+3b)



3-CLIP		(L)3-CLIP	
LINE NO.	CLIP NO.	LINE NO.	CLIP NO.
01	1	25	25
02	2	26	26
03	3	27	27
04	4	28	28
01	5	29	29
06	6	30	30
04	7	31	31
08	8	32	32
09	9	33	33
10	10	34	34
11	11	E1	35
12	12		36
13	13		37
14	14		38
15	15		39
16	16		40
17	17		41
18	18		42
19	19		43
20	20		44
21	21		45
22	22		46
23	23		47
24	24		48

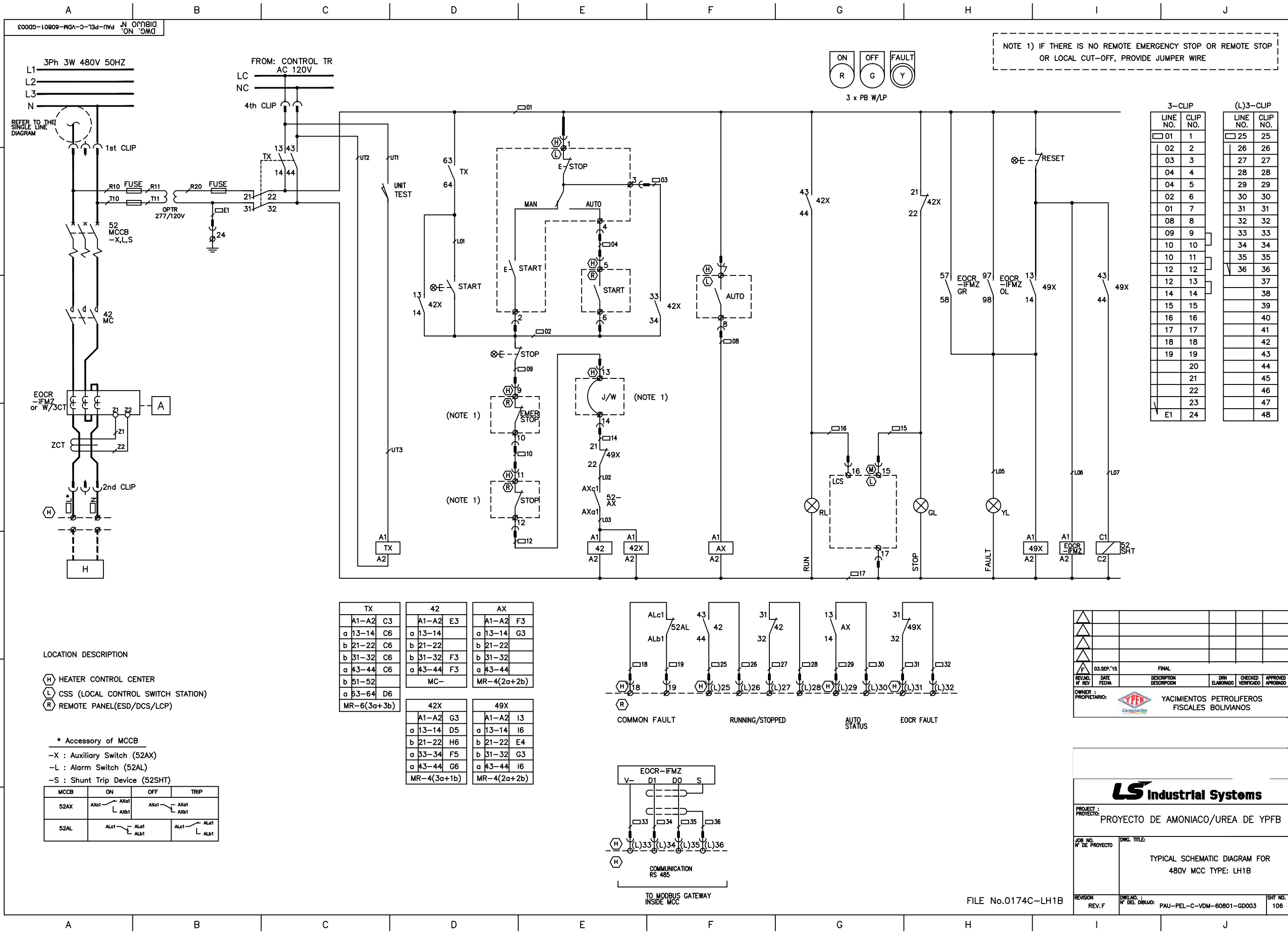
REV. NO.	DATE	DESCRIPTION	ELABORADO	CHECKED	APPROVED
03.SEP.'15		FINAL			

OWNER : YPFB  
PROPIETARIO: YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS

PROJECT : PROYECTO DE AMONIACO/UREA DE YPFB	
JOB NO. N° DE PROYECTO	DWG. TITLE: TYPICAL SCHEMATIC DIAGRAM FOR 480V MCC TYPE: FRM
REVISION REV.F	DWG. NO. : PAU-PEL-C-VDM-60801-GD003
	SHT NO. 104

FILE No.0174C-FRM





NOTE 1) IF THERE IS NO REMOTE EMERGENCY STOP OR REMOTE STOP OR LOCAL CUT-OFF, PROVIDE JUMPER WIRE

3-CLIP		(L)3-CLIP	
LINE NO.	CLIP NO.	LINE NO.	CLIP NO.
01	1	25	25
02	2	26	26
03	3	27	27
04	4	28	28
04	5	29	29
02	6	30	30
01	7	31	31
08	8	32	32
09	9	33	33
10	10	34	34
10	11	35	35
12	12	36	36
12	13	37	37
14	14	38	38
15	15	39	39
16	16	40	40
17	17	41	41
18	18	42	42
19	19	43	43
20	20	44	44
21	21	45	45
22	22	46	46
23	23	47	47
E1	24	48	48

LOCATION DESCRIPTION

(H) HEATER CONTROL CENTER  
(L) CSS (LOCAL CONTROL SWITCH STATION)  
(R) REMOTE PANEL(ESD/DCS/LCP)

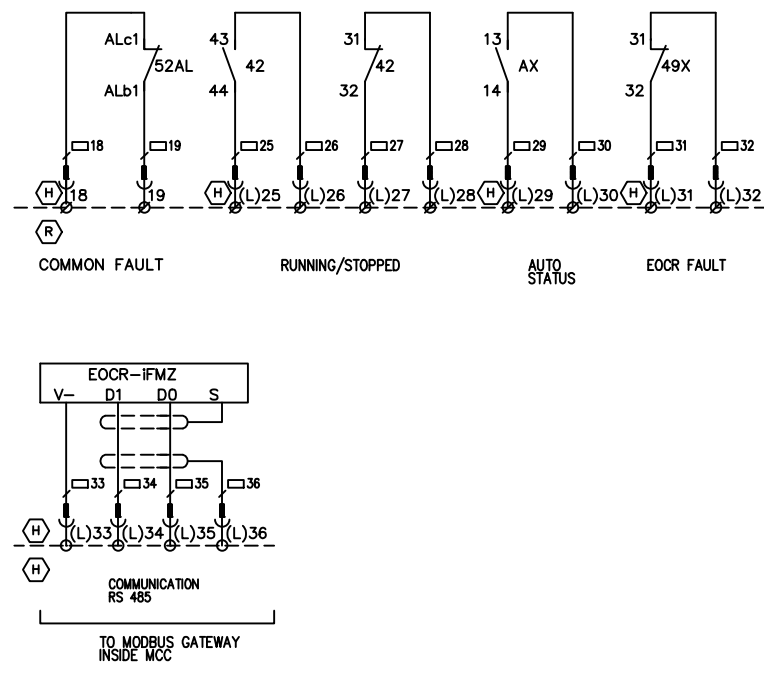
\* Accessory of MCCB

-X : Auxiliary Switch (52AX)  
-L : Alarm Switch (52AL)  
-S : Shunt Trip Device (52SHT)

MCCB	ON	OFF	TRIP
52AX	AXa1 AXb1	AXa1 AXb1	AXa1 AXb1
52AL	ALa1 ALb1	ALa1 ALb1	ALa1 ALb1

TX	42	AX
A1-A2 C3	A1-A2 E3	A1-A2 F3
a 13-14 C6	a 13-14	a 13-14 G3
b 21-22 C6	b 21-22	b 21-22
b 31-32 C6	b 31-32 F3	b 31-32
a 43-44 C6	a 43-44 F3	a 43-44
b 51-52	MC-	MR-4(2a+2b)
a 53-64 D6		
MR-6(3a+3b)		

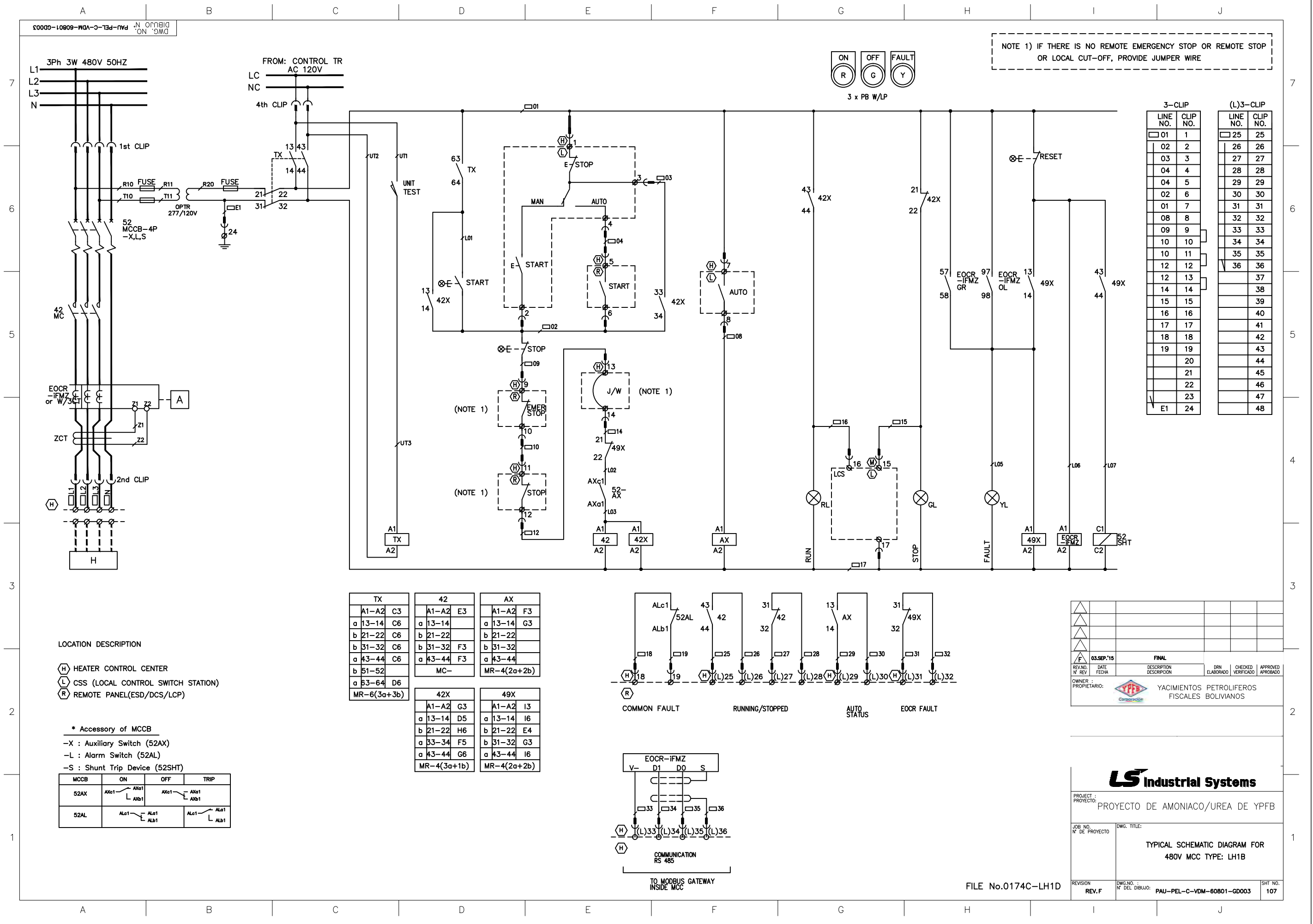
42X	49X
A1-A2 G3	A1-A2 I3
a 13-14 D5	a 13-14 I6
b 21-22 H6	b 21-22 E4
a 33-34 F5	b 31-32 G3
a 43-44 G6	a 43-44 I6
MR-4(3a+1b)	MR-4(2a+2b)



03.SEP.'15	FINAL				
REV. NO.	DATE	DESCRIPTION	DRN	CHECKED	APPROVED
1	03.SEP.'15	FINAL	ELABORADO	VERIFICADO	APROBADO
OWNER : YPF			YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS		

PROJECT : PROYECTO DE AMONIACO/UREA DE YPFB	
JOB NO. N° DE PROYECTO	DWG. TITLE: TYPICAL SCHEMATIC DIAGRAM FOR 480V MCC TYPE: LH1B
REVISION REV. F	DWG. NO. : PAU-PEL-C-VDM-60801-GD003
	SHT NO. 106

FILE No.0174C-LH1B





DWG. NO. PAU-PEL-C-VDM-60801-GD003

3Ph 3W 480V 50HZ  
L1  
L2  
L3  
N

REFER TO THE  
SINGLE LINE  
DIAGRAM

1st CLIP

R10 FUSE  
T10  
R11 FUSE  
T11  
R20 FUSE  
E1  
OPTR 277/120V  
52 MCCB  
-X,L,S

42 MC

EOCR -IFMZ  
or W/3CT

ZCT

2nd CLIP

H

FROM: CONTROL TR  
AC 120V

LC  
NC

4th CLIP

TX  
13 43  
14 44

21 22  
31 32

UNIT TEST

UT2  
UT1

START

STOP

EMER STOP

STOP

LOCAL CUT-OFF

FROM: HEATER

AXc1  
AXa1

52-AX

AXc1  
AXa1

52-AX

AXc1  
AXa1

52-AX

AXc1  
AXa1

52-AX

AXc1  
AXa1

52-AX

AXc1  
AXa1

52-AX

AXc1  
AXa1

52-AX

AXc1  
AXa1

52-AX

AXc1  
AXa1

52-AX

AXc1  
AXa1

52-AX

AXc1  
AXa1

52-AX

AXc1  
AXa1

52-AX

AXc1  
AXa1

52-AX

AXc1  
AXa1

52-AX

AXc1  
AXa1

52-AX

AXc1  
AXa1

52-AX

AXc1  
AXa1

52-AX

AXc1  
AXa1

52-AX

AXc1  
AXa1

52-AX

AXc1  
AXa1

52-AX

AXc1  
AXa1

52-AX

AXc1  
AXa1

52-AX

ON  
OFF  
FAULT

3 x PB W/LP

NOTE 1) IF THERE IS NO REMOTE EMERGENCY STOP OR REMOTE STOP  
OR LOCAL CUT-OFF, PROVIDE JUMPER WIRE

3-CLIP		(L)3-CLIP	
LINE NO.	CLIP NO.	LINE NO.	CLIP NO.
01	1	25	25
02	2	26	26
03	3	27	27
04	4	28	28
05	5	29	29
06	6	30	30
07	7	31	31
08	8	32	32
09	9	33	33
10	10	34	34
11	11	35	35
12	12	36	36
13	13	37	37
14	14	38	38
15	15	39	39
16	16	40	40
17	17	41	41
18	18	42	42
19	19	43	43
20	20	44	44
21	21	45	45
22	22	46	46
23	23	47	47
E1	24	48	48

LOCATION DESCRIPTION

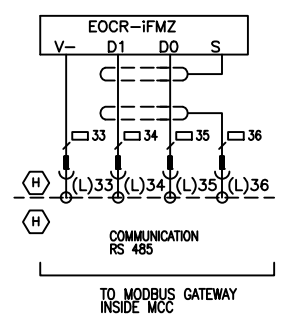
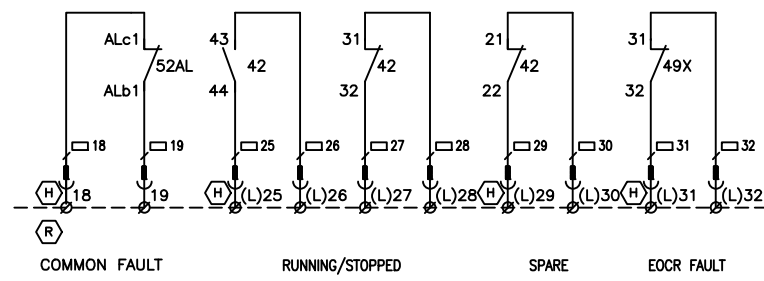
(H) HEATER CONTROL CENTER  
(R) REMOTE PANEL(ESD/DCS/LCP)

\* Accessory of MCCB  
-X : Auxiliary Switch (52AX)  
-L : Alarm Switch (52AL)  
-S : Shunt Trip Device (52SHT)

MCCB	ON	OFF	TRIP
52AX	AXc1 AXa1	AXc1 AXa1	AXc1 AXa1
52AL	ALc1 ALa1	ALc1 ALa1	ALc1 ALa1

TX	42
A1-A2 C3	A1-A2 E3
a 13-14 C6	a 13-14 E3
b 21-22 C6	b 21-22 F6
b 31-32 C6	b 31-32 F3
a 43-44 C6	a 43-44 F3
b 51-52	MC-
a 53-64 D6	
MR-6(3a+3b)	

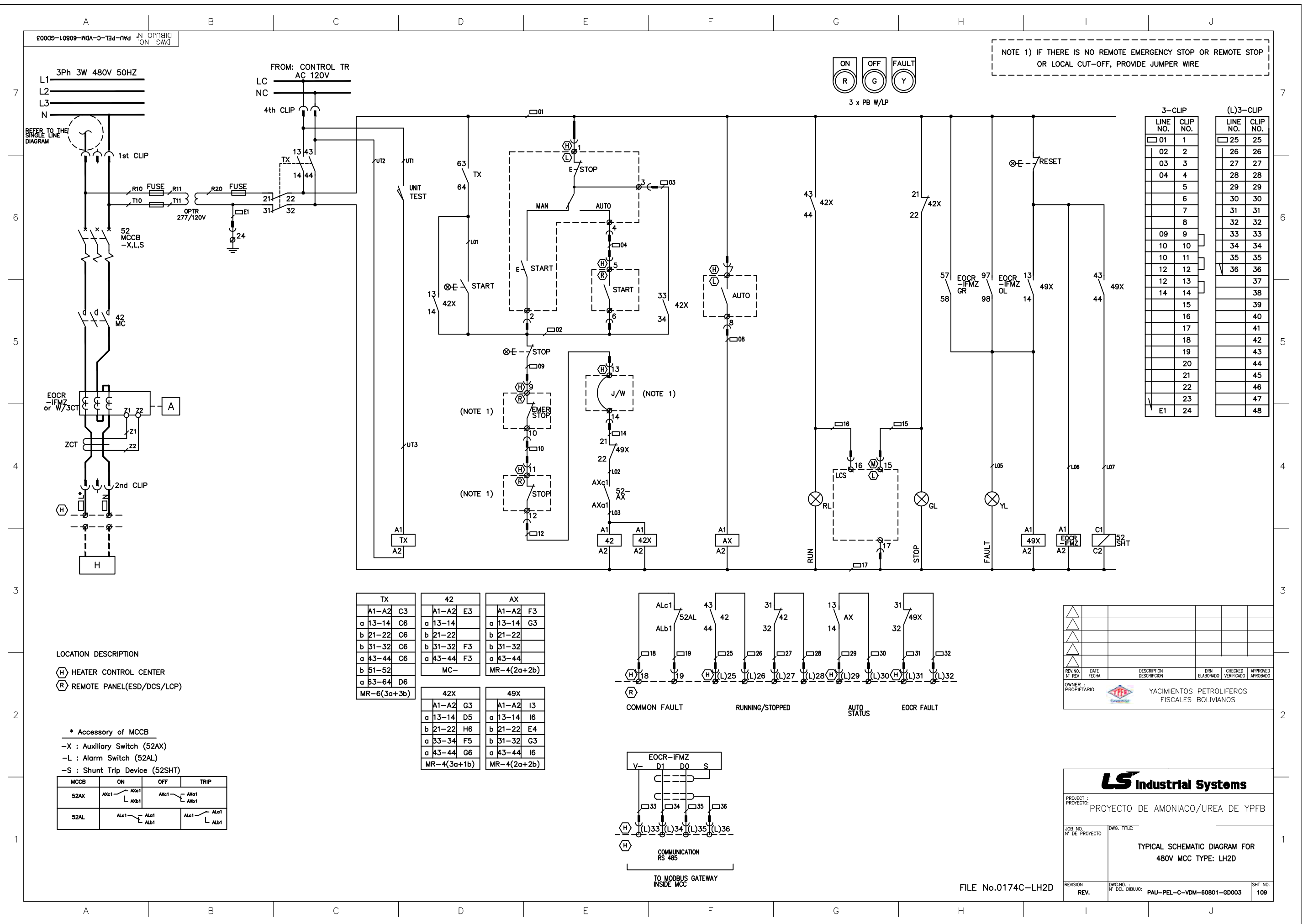
42X	49X
A1-A2 G3	A1-A2 I3
a 13-14 D5	a 13-14 I6
b 21-22 G6	b 21-22 E4
a 33-34 F5	b 31-32 G3
a 43-44 G6	a 43-44 I6
MR-4(3a+1b)	MR-4(2a+2b)



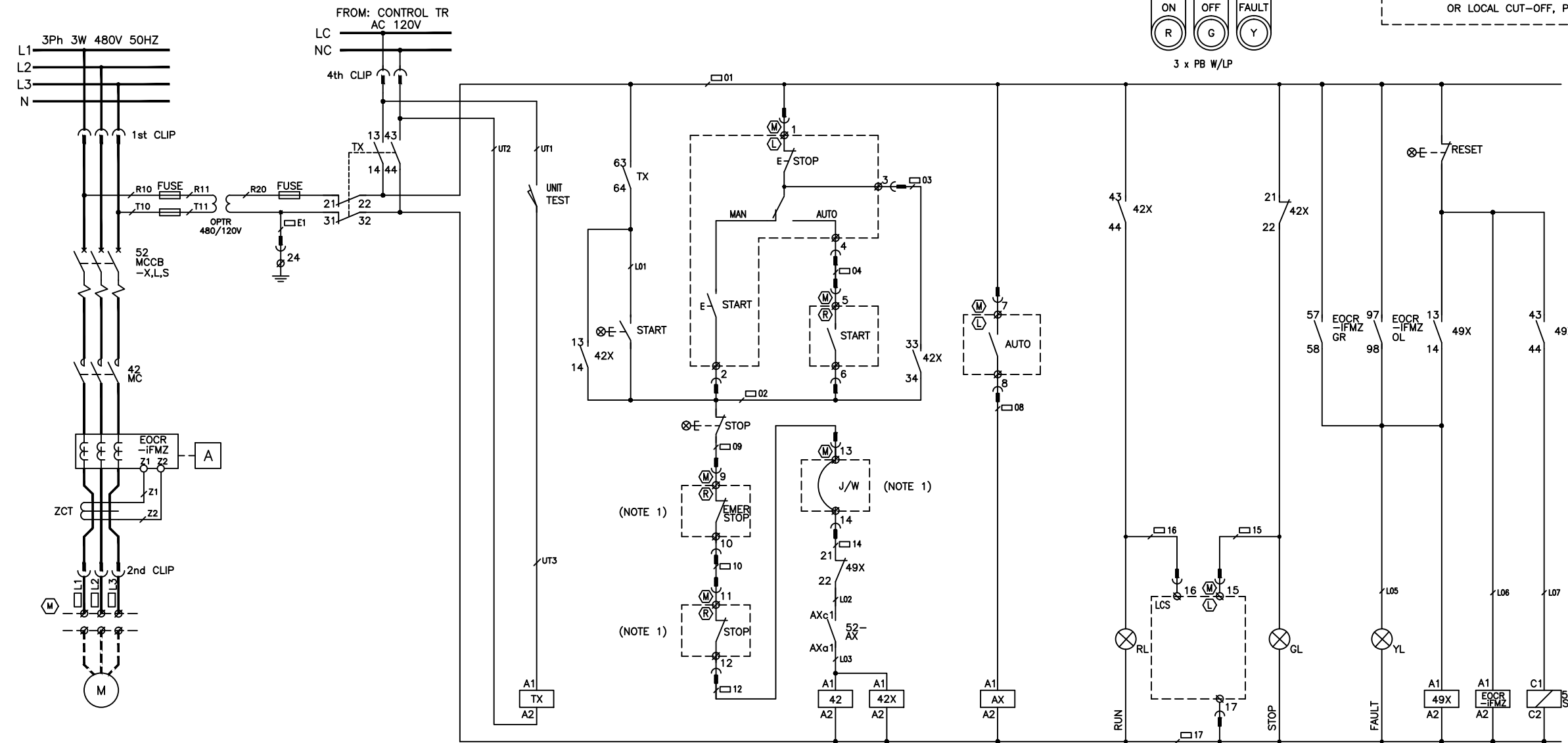
REV. NO.	DATE	DESCRIPTION	DRN	CHECKED	APPROVED
N° REV	FECHA	DESCRIPCION	ELABORADO	VERIFICADO	APROBADO
OWNER :	PROPIETARIO :	YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			

LS Industrial Systems	
PROJECT : PROYECTO:	PROYECTO DE AMONIACO/UREA DE YPFB
JOB NO. N° DE PROYECTO	DWG. TITLE: TYPICAL SCHEMATIC DIAGRAM FOR 480V MCC TYPE: LH2B
REVISION REV. F	DWG. NO. : N° DEL DIBUJO: PAU-PEL-C-VDM-60801-GD003
	SHT NO. 108

FILE No.0174C-LH2B







3-CLIP		(L)3-CLIP	
LINE NO.	CLIP NO.	LINE NO.	CLIP NO.
01	1	25	25
02	2	26	26
03	3	27	27
04	4	28	28
04	5	29	29
02	6	30	30
08	8	32	32
09	9	33	33
10	10	34	34
10	11	35	35
12	12	36	36
12	13		37
14	14		38
15	15		39
16	16		40
17	17		41
18	18		42
19	19		43
	20		44
	21		45
	22		46
	23		47
E1	24		48

LOCATION DESCRIPTION

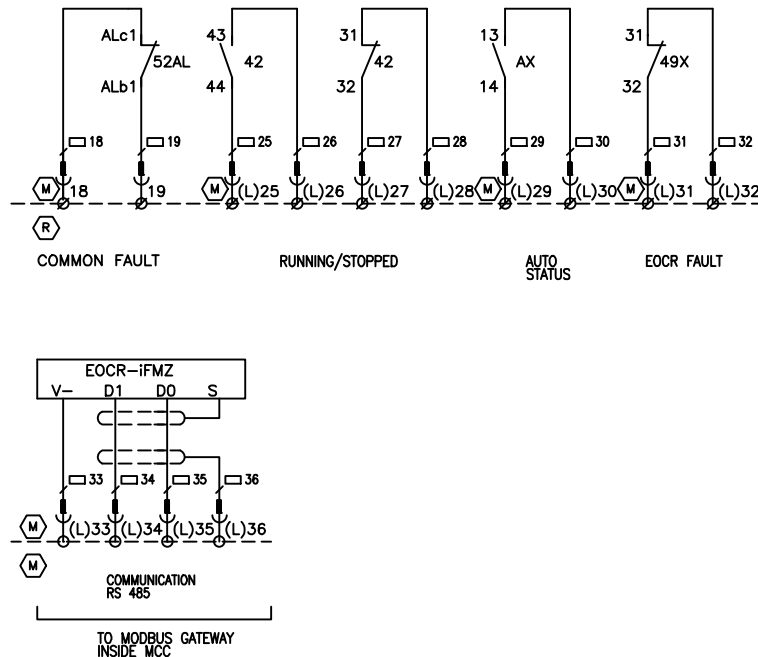
- M MCC
- L LCS
- R REMOTE PANEL(ESD/DCS/LCP)

\* Accessory of MCCB  
-X : Auxiliary Switch (52AX)  
-L : Alarm Switch (52AL)  
-S : Shunt Trip Device (52SHT)

MCCB	ON	OFF	TRIP
52AX	AXa1 AXb1	AXa1 AXb1	
52AL	ALa1 ALb1	ALa1 ALb1	

TX	42	AX
A1-A2 C3	A1-A2 E3	A1-A2 F3
a 13-14 C6	a 13-14	a 13-14 G3
b 21-22 C6	b 21-22	b 21-22
b 31-32 C6	b 31-32 F3	b 31-32
a 43-44 C6	a 43-44 F3	a 43-44
b 51-52		
a 53-64 D6	MC-	MR-4(2a+2b)
MR-6(3a+3b)		

42X	49X
A1-A2 G3	A1-A2 I3
a 13-14 D5	a 13-14 I6
b 21-22 H6	b 21-22 E4
a 33-34 F5	b 31-32 G3
a 43-44 G6	a 43-44 I6
MR-4(3a+1b)	MR-4(2a+2b)



REV. NO.	DATE	DESCRIPTION	ELABORADO	CHECKED	APPROBADO
03.SEP.'15		FINAL			
OWNER : PROPIETARIO:	YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS				

LS Industrial Systems

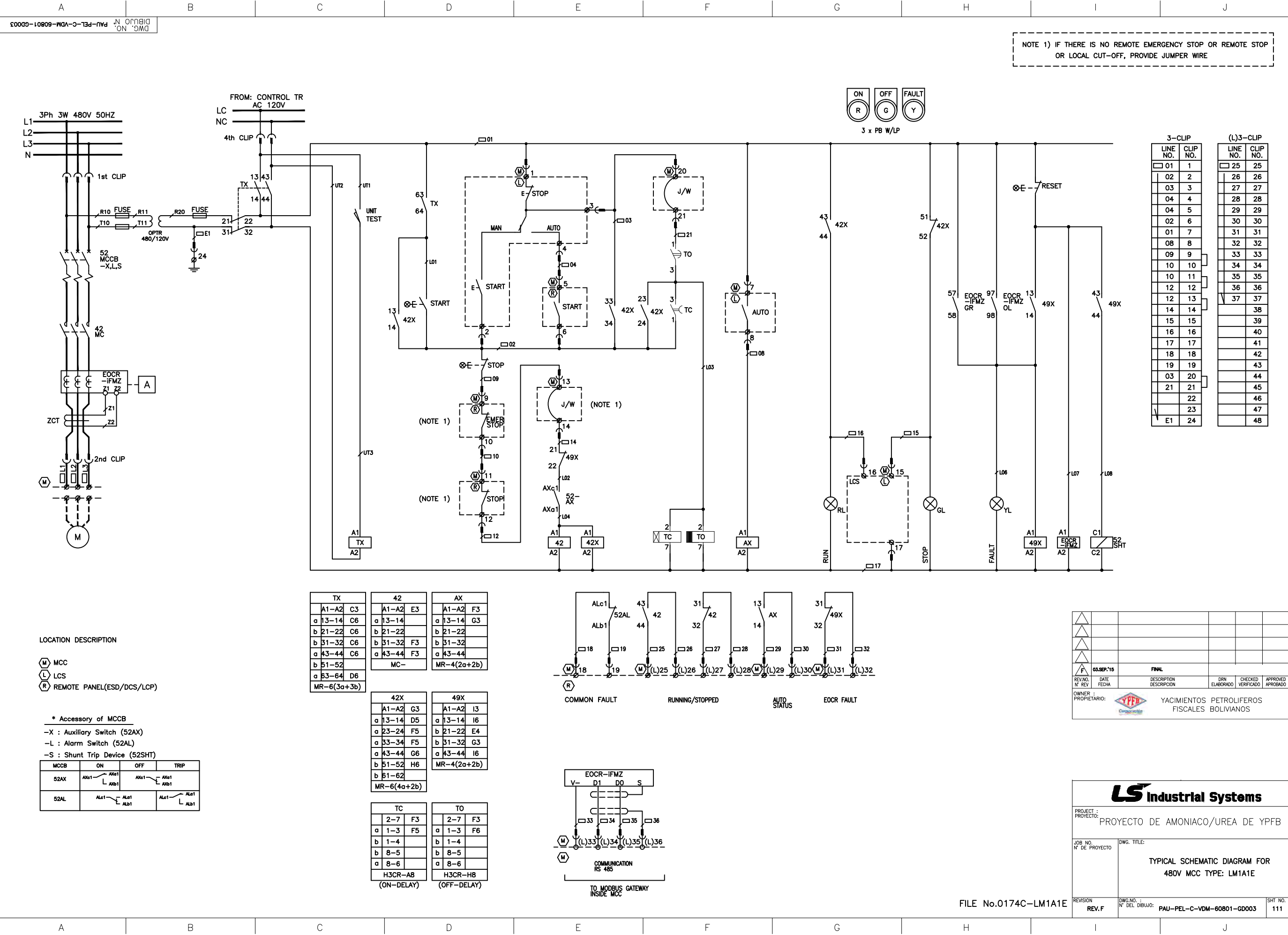
PROJECT :  
PROYECTO: PROYECTO DE AMONIACO/UREA DE YPFB

JOB NO. :  
N° DE PROYECTO: DWG. TITLE:

TYPICAL SCHEMATIC DIAGRAM FOR  
480V MCC TYPE: LM1A1

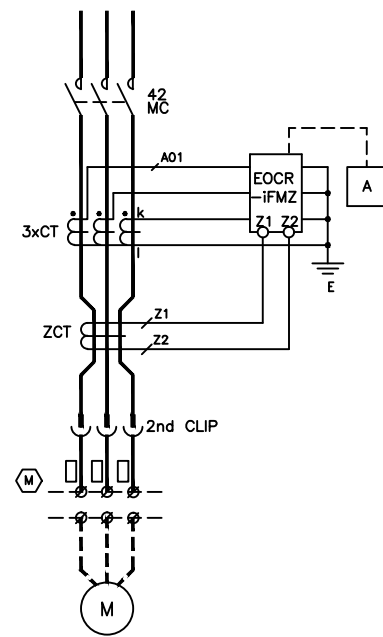
FILE No.0174C-LM1A1

REVISION :  
REV. F DWG. NO. :  
N° DEL DIBUJO: PAU-PEL-C-VDM-60801-GD003 SHT. NO. 110



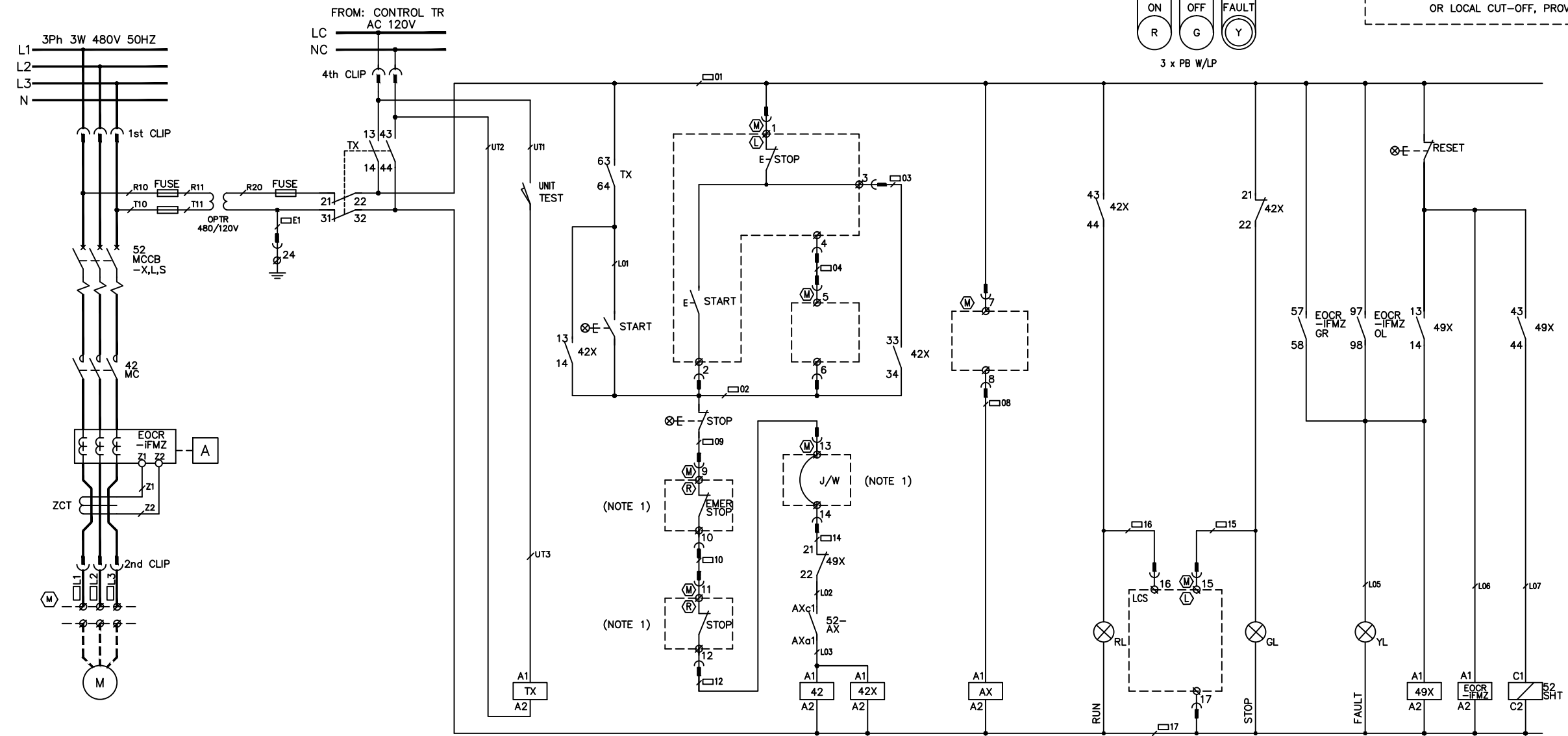
REV. NO.	DATE	DESCRIPTION	BY	CHECKED	APPROVED
03 SEP 15		FINAL			
OWNER : PROPRIETARIO :	YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS				

PROJECT : PROYECTO DE AMONIACO/UREA DE YPFB		
JOB NO. N° DE PROYECTO		
DWG. TITLE: TYPICAL SCHEMATIC DIAGRAM FOR 480V MCC TYPE: LM1A1E		
REVISION REV. F	DWG. NO. : PAU-PEL-C-VDM-60801-GD003	SHT. NO. 111



TYPICAL SCHEMATIC DIAGRAM FOR  
480V MCC TYPE: LM1A2

PAU-PEL-C-VDM-60801-GD003



3-CLIP		(L)3-CLIP	
LINE NO.	CLIP NO.	LINE NO.	CLIP NO.
01	1	25	25
02	2	26	26
03	3	27	27
04	4	28	28
04	5	29	29
02	6	30	30
01	7	31	31
08	8	32	32
09	9	33	33
10	10	34	34
10	11	35	35
12	12	36	36
12	13		37
14	14		38
15	15		39
16	16		40
17	17		41
18	18		42
19	19		43
	20		44
	21		45
	22		46
	23		47
E1	24		48

LOCATION DESCRIPTION

- (M) MCC
- (L) LCS
- (R) REMOTE PANEL(ESD/DCS/LCP)

\* Accessory of MCCB

-X : Auxiliary Switch (52AX)

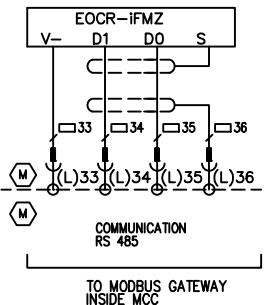
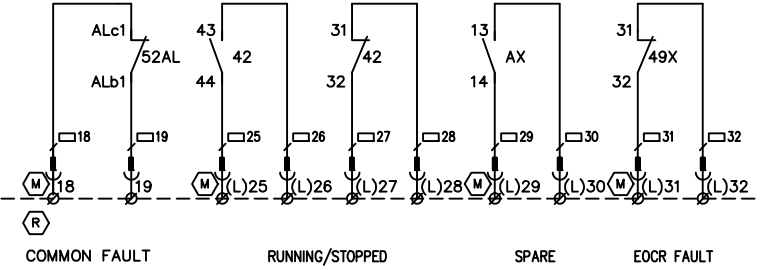
-L : Alarm Switch (52AL)

-S : Shunt Trip Device (52SHT)

MCCB	ON	OFF	TRIP
52AX	AXc1 AXb1	AXc1 AXb1	
52AL	ALc1 ALb1	ALc1 ALb1	

TX		42		AX	
A1-A2	C3	A1-A2	E3	A1-A2	F3
a 13-14	C6	a 13-14		a 13-14	G3
b 21-22	C6	b 21-22		b 21-22	
b 31-32	C6	b 31-32	F3	b 31-32	
a 43-44	C6	a 43-44	F3	a 43-44	
b 51-52					
a 53-64	D6				
MR-6(3a+3b)		MC-		MR-4(2a+2b)	

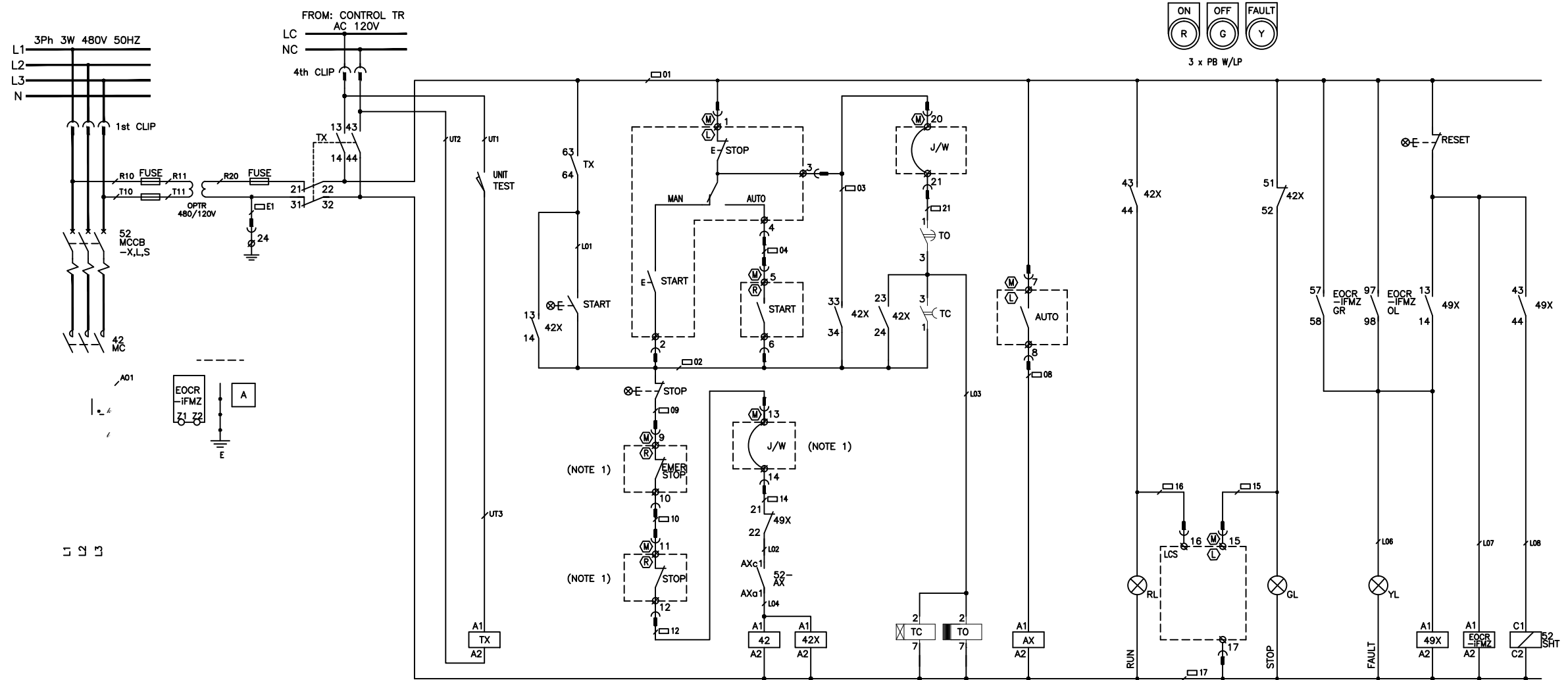
42X		49X	
A1-A2	G3	A1-A2	I3
a 13-14	D5	a 13-14	I6
b 21-22	H6	b 21-22	E4
a 33-34	F5	b 31-32	G3
a 43-44	G6	a 43-44	I6
MR-4(3a+1b)		MR-4(2a+2b)	



REV. NO.	DATE	DESCRIPTION	ELABORADO	CHECKED	APPROVED
03.SEP.'15		FINAL			
OWNER : YPFB			YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS		

PROJECT : PROYECTO DE AMONIACO/UREA DE YPFB		TYPICAL SCHEMATIC DIAGRAM FOR 480V MCC TYPE: LM1B1	
JOB NO. N° DE PROYECTO	DWG. TITLE:	REVISION REV.F	SHT NO. 114
DWG. NO. : PAU-PEL-C-VDM-60801-GD003		FILE No.0174C-LM1B1	

NOTE 1) IF THERE IS NO REMOTE EMERGENCY STOP OR REMOTE STOP OR LOCAL CUT-OFF, PROVIDE JUMPER WIRE



3-CLIP		(L)3-CLIP	
LINE NO.	CLIP NO.	LINE NO.	CLIP NO.
01	1	25	25
02	2	26	26
03	3	27	27
04	4	28	28
04	5	29	29
02	6	30	30
01	7	31	31
08	8	32	32
09	9	33	33
10	10	34	34
10	11	35	35
12	12	36	36
12	13	37	37
14	14	38	38
15	15	39	39
16	16	40	40
17	17	41	41
18	18	42	42
19	19	43	43
03	20	44	44
21	21	45	45
	22	46	46
	23	47	47
E1	24	48	48

LOCATION DESCRIPTION

- (M) MCC
- (L) LCS
- (R) REMOTE PANEL(ESD/DCS/LCP)

\* Accessory of MCCB

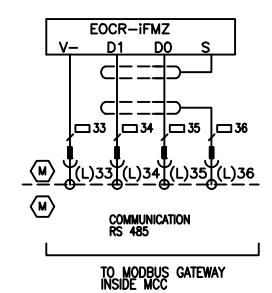
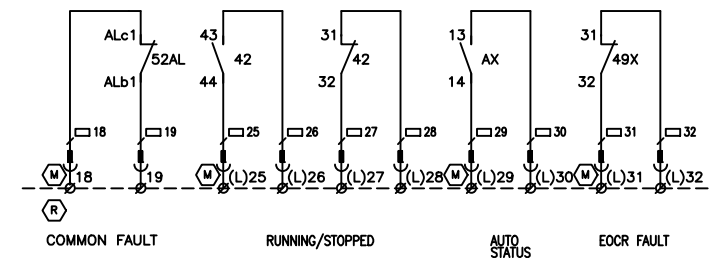
- X : Auxiliary Switch (52AX)
- L : Alarm Switch (52AL)
- S : Shunt Trip Device (52SHT)

MCCB	ON	OFF	TRIP
52AX	AXa1 L AXb1	AXa1 L AXb1	AXa1 L AXb1
52AL	ALa1 L ALb1	ALa1 L ALb1	ALa1 L ALb1

TX	42	AX
A1-A2 C3	A1-A2 E3	A1-A2 F3
a 13-14 C6	a 13-14	a 13-14 G3
b 21-22 C6	b 21-22	b 21-22
b 31-32 C6	b 31-32 F3	b 31-32
a 43-44 C6	a 43-44 F3	a 43-44
b 51-52	MC-	MR-4(2a+2b)
a 63-64 D6		
MR-6(3a+3b)		

42X	49X
A1-A2 G3	A1-A2 I3
a 13-14 D5	a 13-14 I6
a 23-24 F5	b 21-22 E4
a 33-34 F5	b 31-32 G3
a 43-44 G6	a 43-44 I6
b 51-52 H6	MR-4(2a+2b)
b 61-62	
MR-6(4a+2b)	

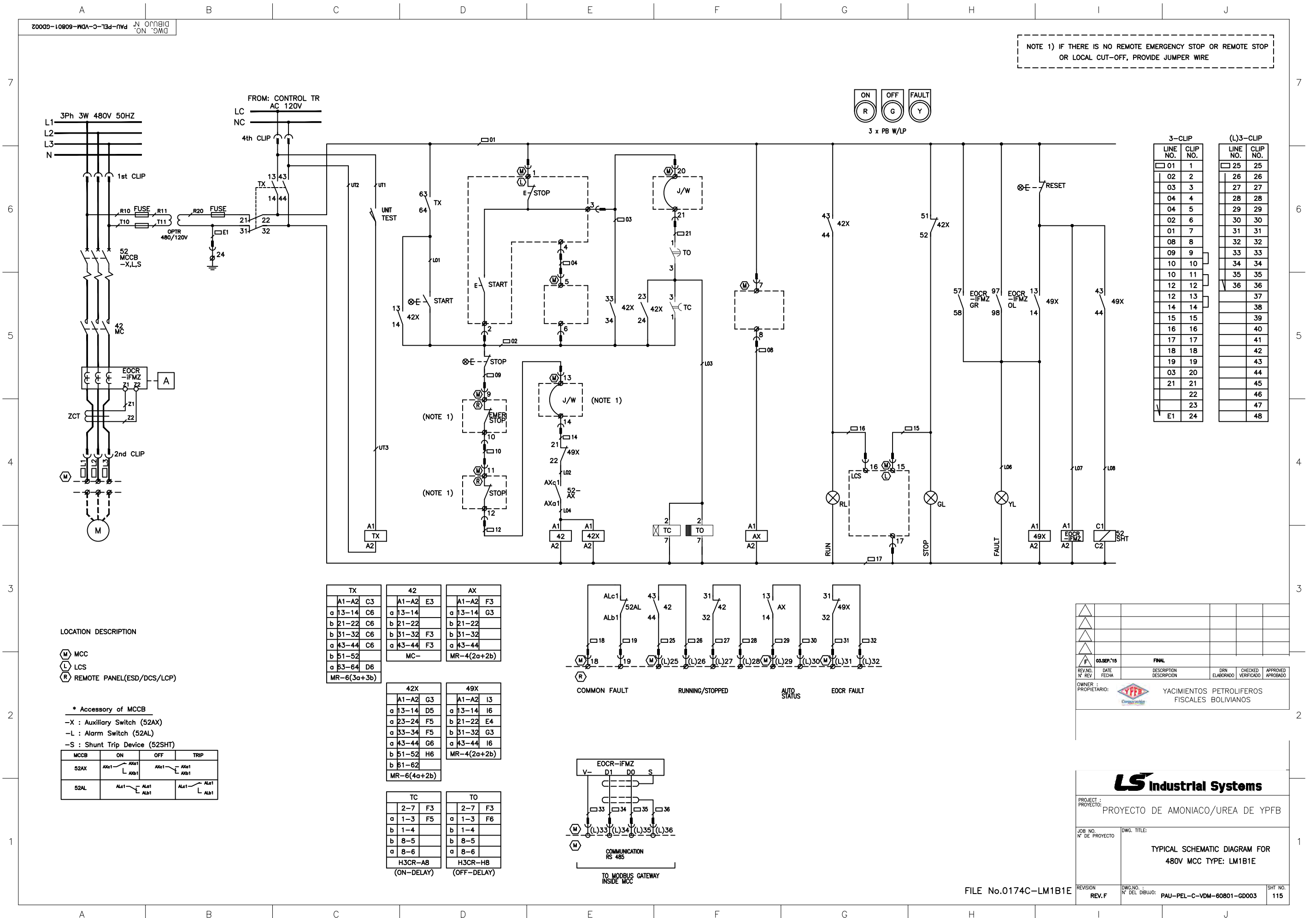
TC	TO
2-7 F3	2-7 F3
a 1-3 F5	a 1-3 F6
b 1-4	b 1-4
b 8-5	b 8-5
a 8-6	a 8-6
H3CR-A8	H3CR-H8
(ON-DELAY)	(OFF-DELAY)

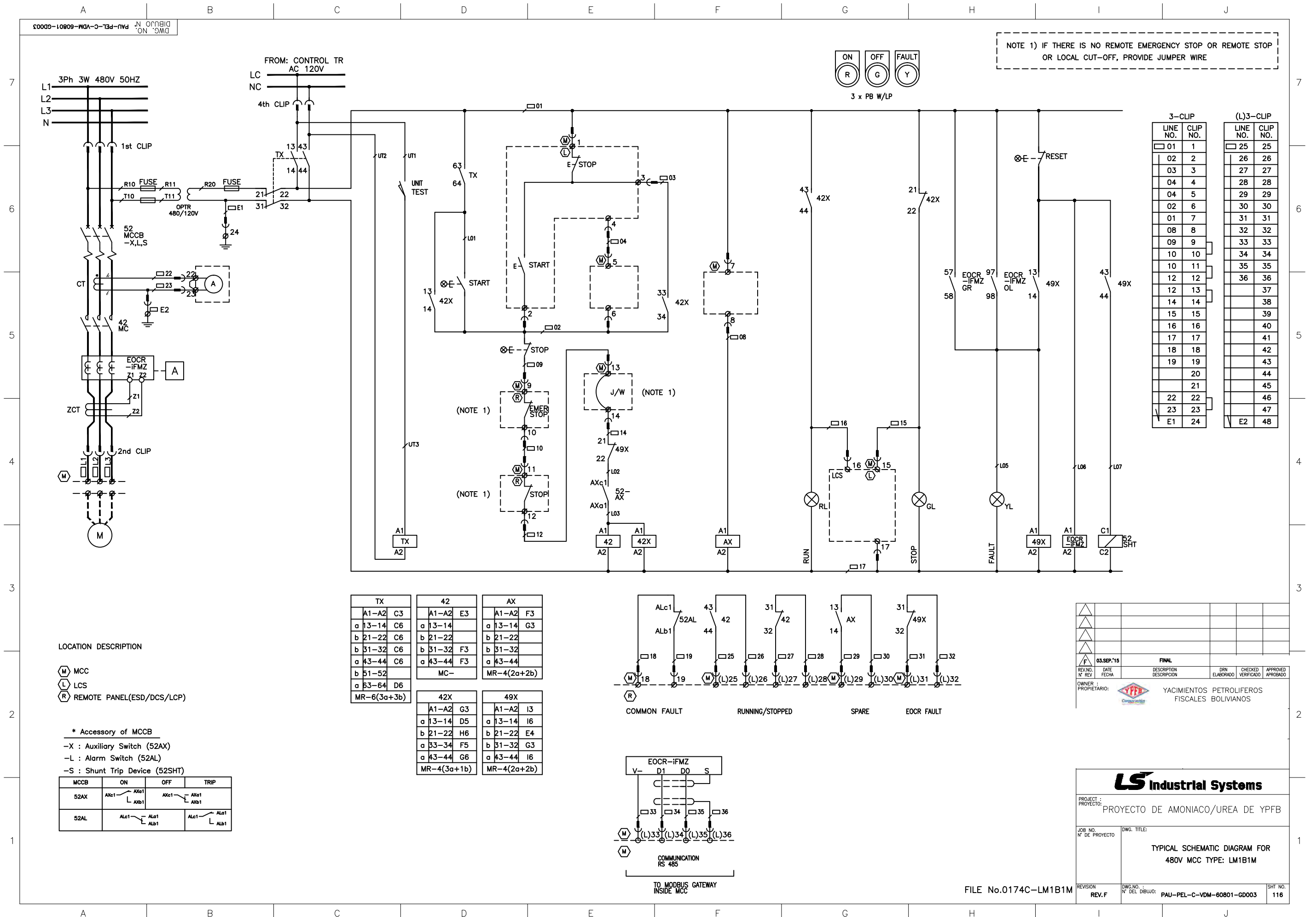


F 03.SEP.'15 FINAL



TYPICAL SCHEMATIC DIAGRAM FOR 480V MCC TYPE: LM1A2E





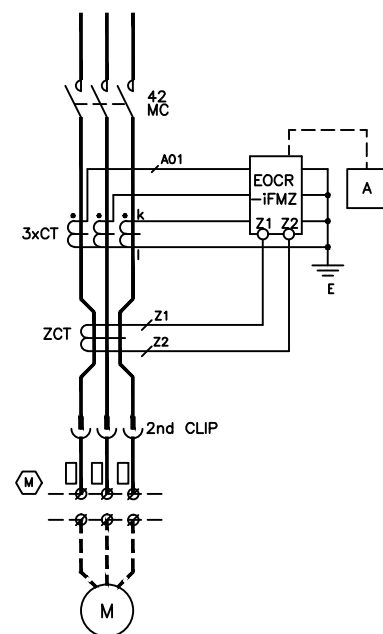


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TYPICAL SCHEMATIC DIAGRAM FOR  
480V MCC TYPE: LM1B1T

FILE No.0174C-LM1B1T





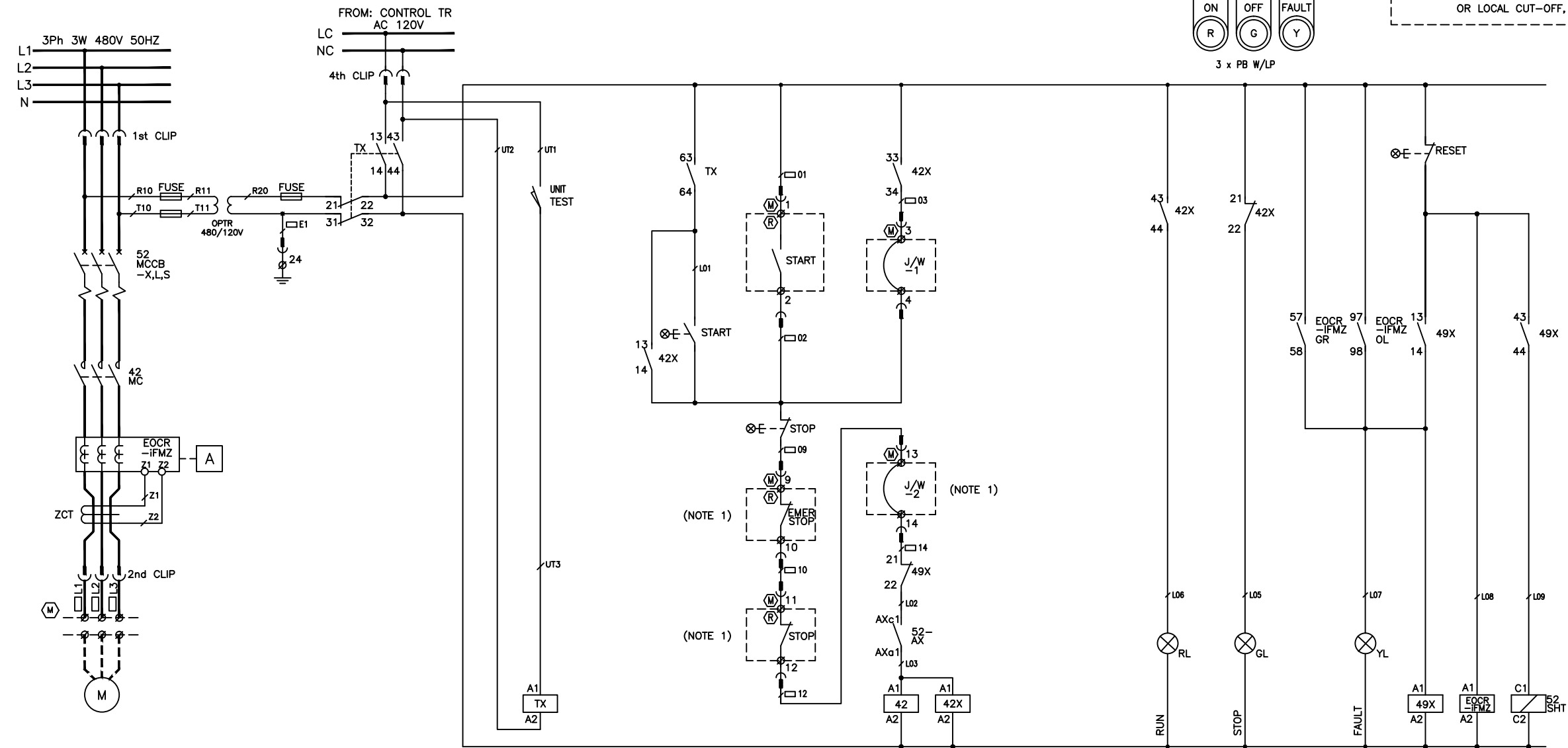
TYPICAL SCHEMATIC DIAGRAM FOR  
480V MCC TYPE: LM1B2

FILE No.0174C-LM1B2

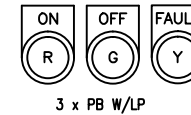


TYPICAL SCHEMATIC DIAGRAM FOR  
480V MCC TYPE: LM1B2E

FILE No.0174C-LM1B2E



NOTE 1) IF THERE IS NO REMOTE EMERGENCY STOP OR REMOTE STOP OR LOCAL CUT-OFF, PROVIDE JUMPER WIRE



3-CLIP		(L)3-CLIP	
LINE NO.	CLIP NO.	LINE NO.	CLIP NO.
01	1	25	25
02	2	26	26
03	3	27	27
04	4	28	28
05	5	29	29
06	6	30	30
07	7	31	31
08	8	32	32
09	9	33	33
10	10	34	34
11	11	35	35
12	12	36	36
13	13	37	37
14	14	38	38
15	15	39	39
16	16	40	40
17	17	41	41
18	18	42	42
19	19	43	43
20	20	44	44
21	21	45	45
22	22	46	46
23	23	47	47
E1	24	48	48

LOCATION DESCRIPTION

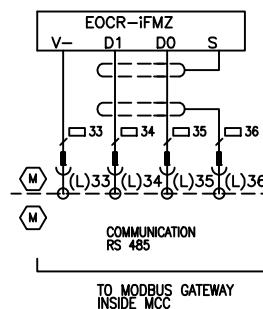
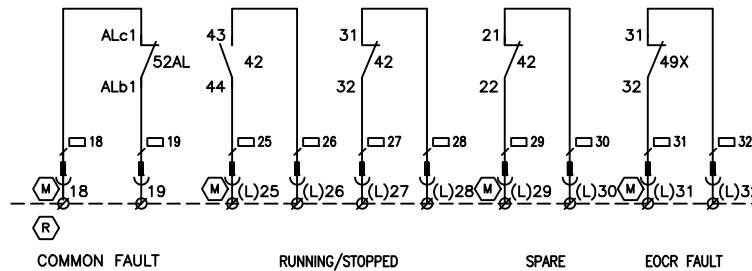
- M MCC
- L LCS
- R REMOTE PANEL(ESD/DCS/UCP)

\* Accessory of MCCB  
-X : Auxiliary Switch (52AX)  
-L : Alarm Switch (52AL)  
-S : Shunt Trip Device (52SHT)

MCCB	ON	OFF	TRIP
52AX	AXa1 AXb1	AXa1 AXb1	
52AL	ALa1 ALb1	ALa1 ALb1	

TX		42	
A1-A2	C3	A1-A2	E3
a 13-14	C6	a 13-14	I6
b 21-22	C6	b 21-22	F6
b 31-32	C6	b 31-32	F3
a 43-44	C6	a 43-44	F3
b 51-52			MC-
a 53-64	D6		
MR-6(3a+3b)			

42X		49X	
A1-A2	G3	A1-A2	I3
a 13-14	D5	a 13-14	I6
b 21-22	H6	b 21-22	E4
a 33-34	F5	b 31-32	G3
a 43-44	G6	a 43-44	I6
MR-4(3a+1b)		MR-4(2a+2b)	



REV. NO.	DATE	DESCRIPTION	ELABORADO	CHECKED	APPROVED
03.SEP.'15		FINAL			
OWNER : YPFB YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS					

LS Industrial Systems			
PROJECT : PROYECTO DE AMONIAO/UREA DE YPFB			
JOB NO. N° DE PROYECTO		DWG. TITLE: TYPICAL SCHEMATIC DIAGRAM FOR 480V MCC TYPE: LM2A1	
REVISION REV. F		DWG. NO. : PAU-PEL-C-VDM-60801-GD003	
		SHT. NO. 120	

FILE No.0174C-LM2A1



DWG. NO. PAU-PEL-C-VDM-60801-GD003  
DIBUJO N°

LOCATION DESCRIPTION

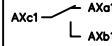
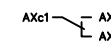
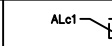

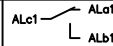
 MOTOR CONTROL CENTER

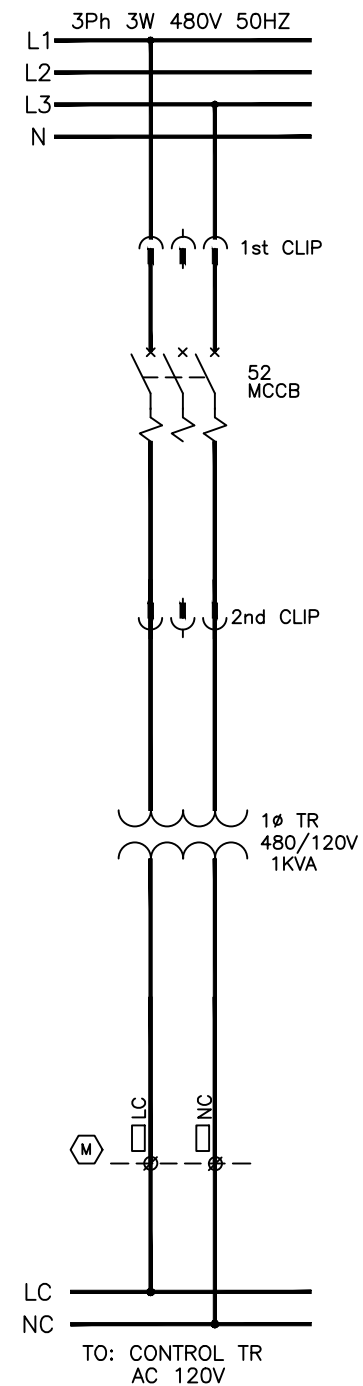
\* Accessory of MCCB

-X : Auxiliary Switch (52AX)







-L : Alarm Switch (52AL)

-S : Shunt Trip Device (52SHT)

MCCB	ON	OFF	TRIP
52AX			
52AL			



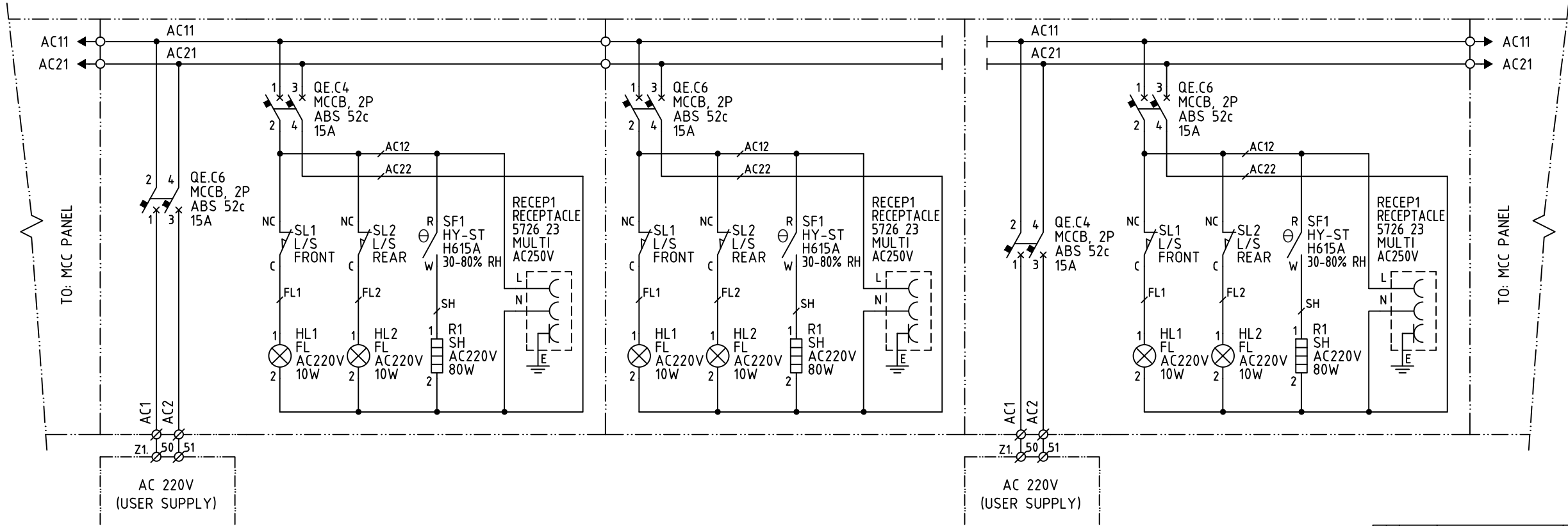
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F	03.SEP.'15	FINAL			
REV.NO. N° REV	DATE FECHA	DESCRIPTION DESCRIPCION	DIN ELABORADO	CHECKED VERIFICADO	APPROVED APROBADO
OWNER : PROPIETARIO :		 YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			
					
PROJECT : PROYECTO :					
PROYECTO DE AMONIACO/UREA DE YPFB					
JOB NO. N° DE PROYECTO		DWG. TITLE:			
		TYPICAL SCHEMATIC DIAGRAM FOR 480V MCC TYPE: TR1			
REVISION	DWG. NO. : N° DEL DIBUJO:		SHT NO.		
REV. F	PAU-PEL-C-VDM-60801-GD003		122		



DWG. NO. 9MD

PANEL NO.	U30-LVS401A	U30-LVS401C	PANEL NO.	U30-LVS401B
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REVISION	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
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OWNER : YPFB YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS

**LS Industrial Systems**

PROJECT : PROYECTO DE AMONIACO / UIRFA DE YPFB

JOB NO. : DWG. TITLE :

DWG. NO. : DWG. TITLE :

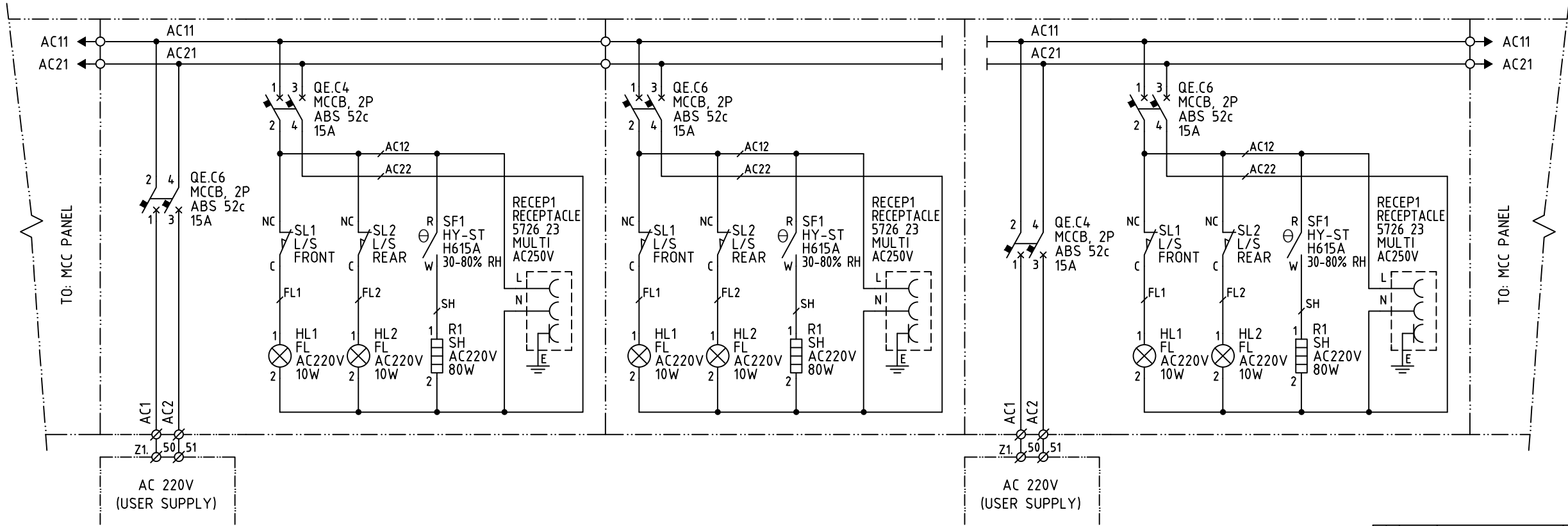






DWG. NO. 9MD

PANEL NO.	U30-LVS402A	U30-LVS402C	PANEL NO.	U30-LVS402B
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OWNER : YPFB YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS

LS Industrial Systems

PROJECT : PROYECTO DE AMONIAO/UREA DE YPFB

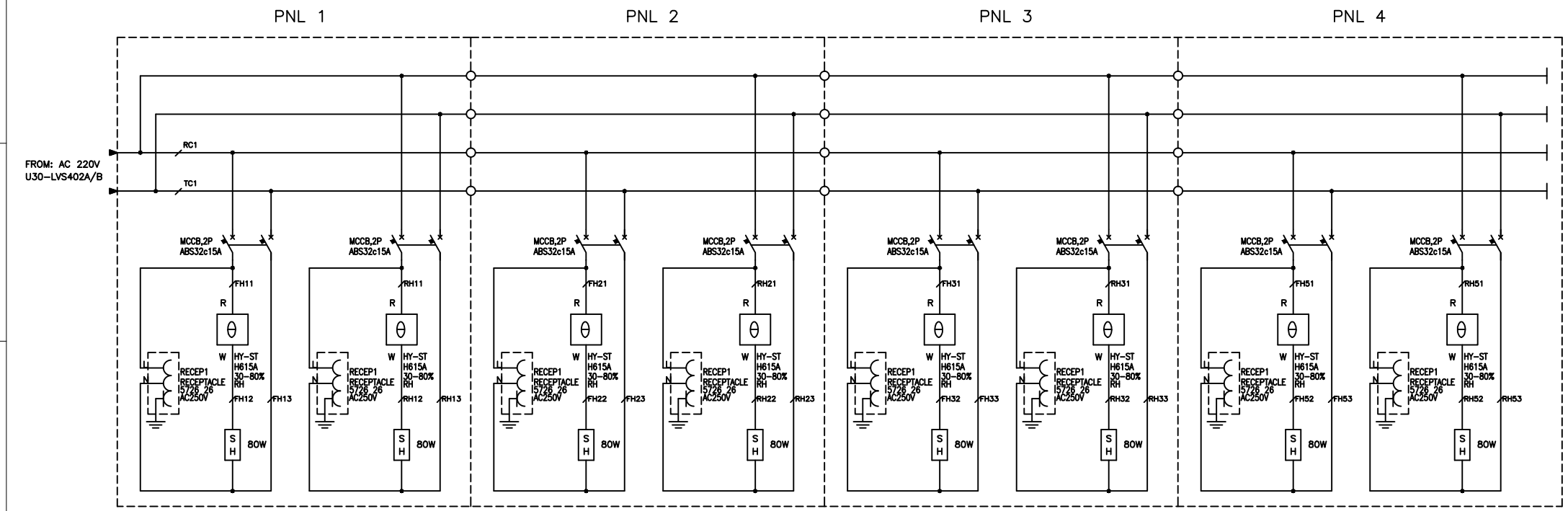
JOB NO. : DWG. TITLE :

DATE : PROJECT :

DWG. NO. : DWG. TITLE :

DATE : PROJECT :

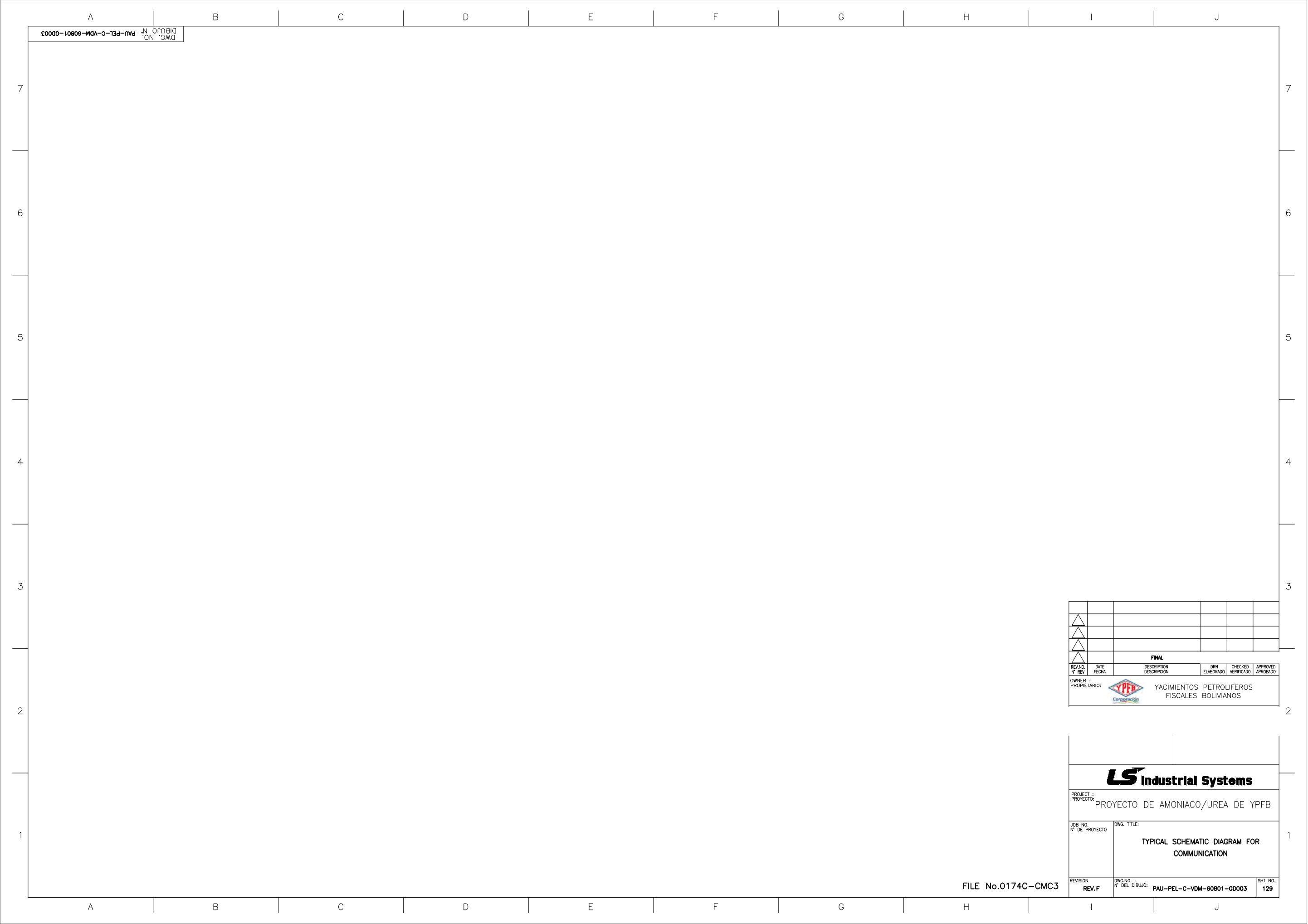
DWG. NO. PAU-PEL-C-VDM-60801-GD003  
DIBUJO N°




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△	03.SEP.'15	FINAL			
REV. NO. N° REV	DATE FECHA	DESCRIPTION DESCRIPCION	DIN ELABORADO	CHECKED VERIFICADO	APPROVED APROBADO
OWNER : PROPIETARIO:			YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS		

<b>LS</b> Industrial Systems		
PROJECT : PROYECTO:		
PROYECTO DE AMONIACO/UREA DE YPFB		
JOB NO. N° DE PROYECTO	DWG. TITLE:	
	TYPICAL SCHEMATIC DIAGRAM FOR SPACE HEATER & RECEPTACLE	
REVISION	DWG. NO. : N° DEL DIBUJO:	SHT. NO.
REV. F	PAU-PEL-C-VDM-60801-GD003	128

FILE No.0174H-SH051



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FINAL					
REV. NO. N° REV.	DATE FECHA	DESCRIPTION DESCRIPCION	DRN ELABORADO	CHECKED VERIFICADO	APPROVED APROBADO
OWNER : PROPIETARIO:		 YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			

	
PROJECT : PROYECTO:	
PROYECTO DE AMONIACO/UREA DE YPFB	
JOB NO. N° DE PROYECTO	DWG. TITLE:
	TYPICAL SCHEMATIC DIAGRAM FOR COMMUNICATION
REVISION	DWG. NO. : N° DEL DIBUJO:
REV. F	PAU-PEL-C-VDM-60801-GD003
	SHT. NO. 129

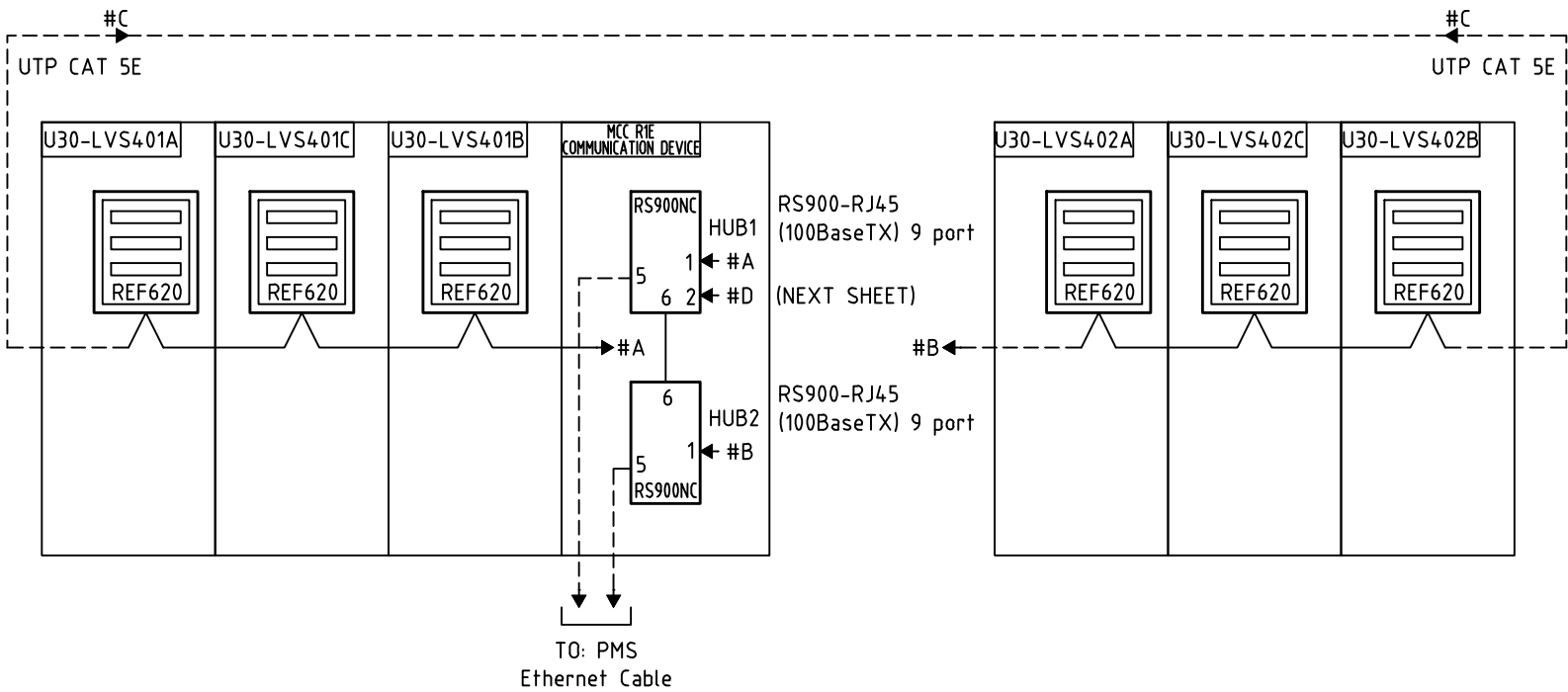
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DWG. NO.  
DIBUJO N° PAU-PEL-C-VDM-60801-GD003

DWG. NO. 9MG

COMMUNICATION PORT CONNECTION DIAGRAM

----- SECL SCOPE  
----- LSIS SCOPE



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REV. NO.	DATE	DESCRIPTION	DIN	CHECKED	APPROVED
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OWNER :		YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			
PROPIETARIO:		Corporación			

LS Industrial Systems

PROJECT :  
PROYECTO: PROYECTO DE AMONIACO/UREA DE YPFB

JOB NO.  
N° DE PROYECTO

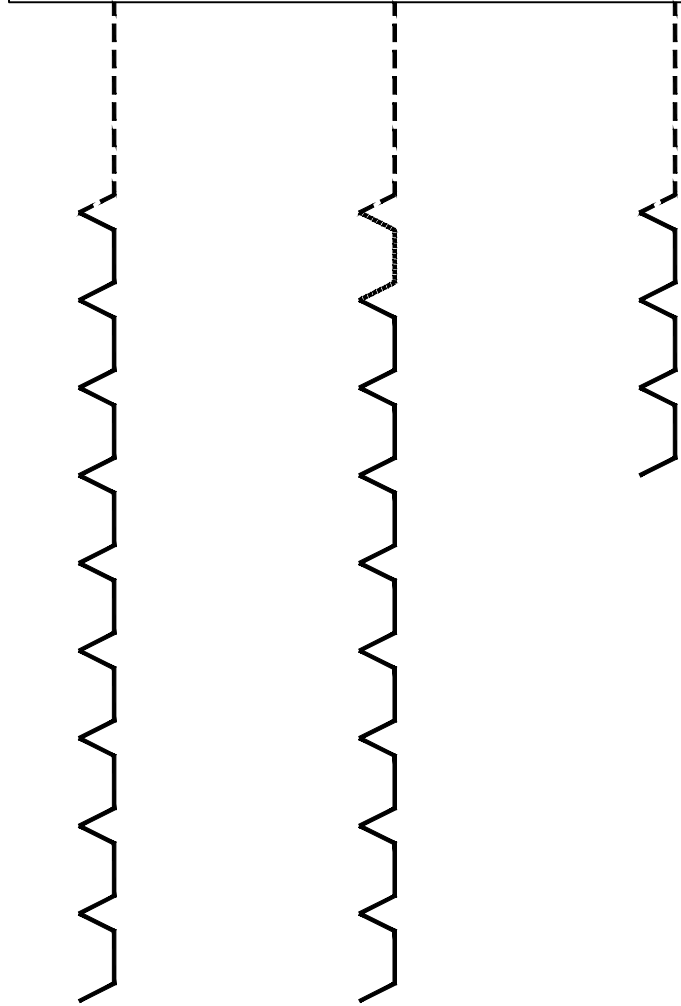
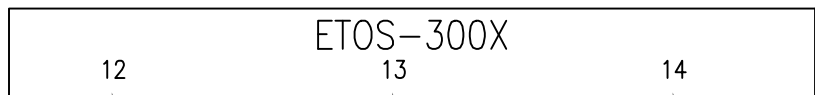
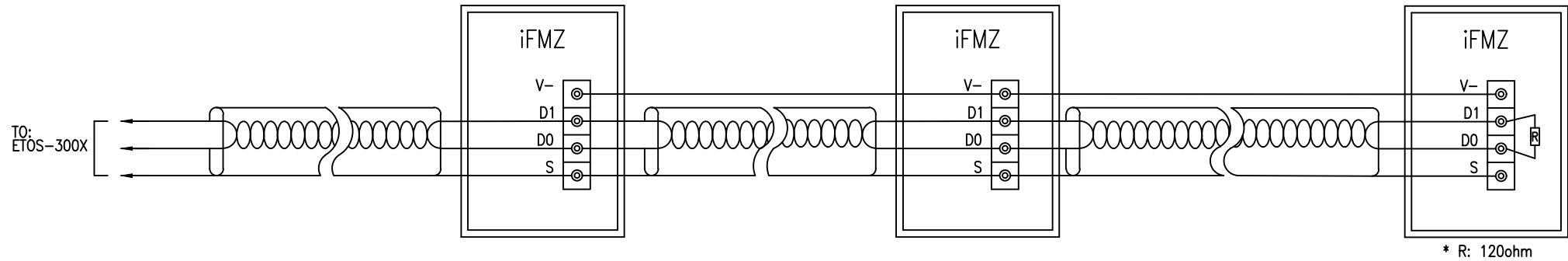
DWG. TITLE:



DWG. NO. :  
N° DEL DIBUJO:



N.º 000000  
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(GENERAL CONNECTION DIAGRAM)



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REV.NO. N° REV	DATE FECHA	DESCRIPTION DESCRIPCION	DIN ELABORADO	CHECKED VERIFICADO	APPROVED APROBADO
OWNER : PROPIETARIO:		 YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			
					
PROJECT : PROYECTO:		PROYECTO DE AMONIACO/UREA DE YPFB			
JOB NO. N° DE PROYECTO		DWG. TITLE:			
		DWG.NO. : N° DEL DIBUJO:			

UREA	S/S	LV	SWGR	NAME	PLATE	LIST
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[illegible]



# UREA S/S LV SWGR NAME PLATE LIST

NO	DESCRIPTION				FIG.	Q`TY	SIZE	Hole	Remark
	1	2	3	4					
1		VM			A	4	NP02	O	Laminated Plastic
2		VM-1			A	2	NP02	O	Laminated Plastic
3		VM-2			A	2	NP02	O	Laminated Plastic
4		AM			A	4	NP02	O	Laminated Plastic
5		MPR			A	6	NP02	O	Laminated Plastic
6		UVR			A	2	NP02	O	Laminated Plastic
7		TTB			A	6	NP02	O	Laminated Plastic
8		CS			A	6	NP02	O	Laminated Plastic
9		COS			A	6	NP02	O	Laminated Plastic
10		AS			A	4	NP02	O	Laminated Plastic

# UREA S/S LV SWGR NAME PLATE LIST

NO	DESCRIPTION				FIG.	Q`TY	SIZE	Hole	Remark
	1	2	3	4					
11		VS			A	4	NP02	O	Laminated Plastic
12		VS-1			A	2	NP02	O	Laminated Plastic
13		VS-2			A	2	NP02	O	Laminated Plastic
14		PTT			A	4	NP02	O	Laminated Plastic
15		CTT			A	4	NP02	O	Laminated Plastic
16		PTT-1			A	2	NP02	O	Laminated Plastic
17		PTT-2			A	2	NP02	O	Laminated Plastic
18		PTT-3			A	2	NP02	O	Laminated Plastic
19		86			A	6	NP02	O	Laminated Plastic
20		MTS			A	2	NP02	O	Laminated Plastic
21		MTS/ATS			A	2	NP02	O	Laminated Plastic

# UREA S/S MCC MAIN NAME PLATE LIST

NO	DESCRIPTION	FIG.	Q'TY			SIZE	REMARKS
	1						
1	U30-LVS401AF01	A	1			NP53	Stainless Steel
2	U30-LVS401AF02	A	1			NP53	Stainless Steel
3	U30-LVS401AF03	A	1			NP53	Stainless Steel
4	U30-LVS401AF04	A	1			NP53	Stainless Steel
5	U30-LVS401AF05	A	1			NP53	Stainless Steel
6	U30-LVS401AF06	A	1			NP53	Stainless Steel
7	U30-LVS401AF07	A	1			NP53	Stainless Steel
8	U30-LVS401AR01	A	1			NP53	Stainless Steel
9	U30-LVS401AR02	A	1			NP53	Stainless Steel
10	U30-LVS401AR03	A	1			NP53	Stainless Steel
11	U30-LVS401AR04	A	1			NP53	Stainless Steel
12	U30-LVS401AR05	A	1			NP53	Stainless Steel

# UREA S/S MCC MAIN NAME PLATE LIST

NO	DESCRIPTION	FIG.	Q'TY			SIZE	REMARKS
	1						
13	U30-LVS401AR06	A	1			NP53	Stainless Steel
14	U30-LVS401AR07	A	1			NP53	Stainless Steel
15	U30-LVS401BF01	A	1			NP53	Stainless Steel
16	U30-LVS401BF02	A	1			NP53	Stainless Steel
17	U30-LVS401BF03	A	1			NP53	Stainless Steel
18	U30-LVS401BF04	A	1			NP53	Stainless Steel
19	U30-LVS401BF05	A	1			NP53	Stainless Steel
20	U30-LVS401BF06	A	1			NP53	Stainless Steel
21	U30-LVS401BF07	A	1			NP53	Stainless Steel
22	U30-LVS401BR01	A	1			NP53	Stainless Steel
23	U30-LVS401BR02	A	1			NP53	Stainless Steel
24	U30-LVS401BR03	A	1			NP53	Stainless Steel

# UREA S/S MCC MAIN NAME PLATE LIST

NO	DESCRIPTION	FIG.	Q'TY			SIZE	REMARKS
	1						
25	U30-LVS401BR04	A	1			NP53	Stainless Steel
26	U30-LVS401BR05	A	1			NP53	Stainless Steel
27	U30-LVS401BR06	A	1			NP53	Stainless Steel
28	U30-LVS401BR07	A	1			NP53	Stainless Steel
29	U30-LVS402AF01	A	1			NP53	Stainless Steel
30	U30-LVS402AF02	A	1			NP53	Stainless Steel
31	U30-LVS402AF03	A	1			NP53	Stainless Steel
32	U30-LVS402AF04	A	1			NP53	Stainless Steel
33	U30-LVS402AR01	A	1			NP53	Stainless Steel
34	U30-LVS402AR02	A	1			NP53	Stainless Steel
35	U30-LVS402AR03	A	1			NP53	Stainless Steel
36	U30-LVS402AR04	A	1			NP53	Stainless Steel

UREA S/S MCC MAIN NAME PLATE LIST							
NO	DESCRIPTION	FIG.	Q`TY			SIZE	REMARKS
	1						
37	U30-LVS402BF01	A	1			NP53	Stainless Steel
38	U30-LVS402BF02	A	1			NP53	Stainless Steel
39	U30-LVS402BF03	A	1			NP53	Stainless Steel
40	U30-LVS402BF04	A	1			NP53	Stainless Steel
41	U30-LVS402BR01	A	1			NP53	Stainless Steel
42	U30-LVS402BR02	A	1			NP53	Stainless Steel
43	U30-LVS402BR03	A	1			NP53	Stainless Steel
44	U30-LVS402BR04	A	1			NP53	Stainless Steel

## UREA S/S MCC NAME PLATE LIST

NO	1	ITEM NO.	FIG.	Q'TY	SIZE	REMARKS
	2	DESCRIPTION-1				
		DESCRIPTION-2 (IF REQUIRED)				
1	1	U-FD601AM	B	1	NP-23	Laminated Plastic
	2	SCREEN				
2	1	U-FD601BM	B	1	NP-23	Laminated Plastic
	2	SCREEN				
3	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
4	1		B	1	NP-23	Laminated Plastic
	2	SPACE				
5	1	U-GA101A-PM02	B	1	NP-23	Laminated Plastic
	2	AUXILIARY OIL PUMP				
6	1	U-GA101B-PM02	B	1	NP-23	Laminated Plastic
	2	AUXILIARY OIL PUMP				
7	1	M-JF101M	B	1	NP-23	Laminated Plastic
	2	BELT CONVEYOR				
8	1	M-JF102M	B	1	NP-23	Laminated Plastic
	2	BELT CONVEYOR				
9	1	U-GA105M	B	1	NP-23	Laminated Plastic
	2	HIGH PRESSURE FLOODING PUMP				
10	1	U-GA106BM	B	1	NP-23	Laminated Plastic
	2	STEAM CONDENSATE PUMP				
11	1	M-JF103M	B	1	NP-23	Laminated Plastic
	2	BELT CONVEYOR WITH				
		TRIPPER CAR FOR STORING				
12	1	M-JF106M	B	1	NP-23	Laminated Plastic
	2	BELT CONVEYOR				

# UREA S/S MCC NAME PLATE LIST

NO	1	ITEM NO.	FIG.	Q`TY	SIZE	REMARKS
	2	DESCRIPTION-1				
		DESCRIPTION-2 (IF REQUIRED)				
13	1	U-GA109AM	B	1	NP-23	Laminated Plastic
	2	STEAM CONDENSATE CIRCULATION PUMP				
14	1	U-GA109BM	B	1	NP-23	Laminated Plastic
	2	STEAM CONDENSATE CIRCULATION PUMP				
15	1	M-JF105M	B	1	NP-23	Laminated Plastic
	2	BELT CONVEYOR				
16	1	M-JF203M	B	1	NP-23	Laminated Plastic
	2	BELT CONVEYOR				
17	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
18	1	M-JF104M	B	1	NP-23	Laminated Plastic
	2	BELT CONVEYOR				
19	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
		(FORWARD REVERSE)				
20	1	U-FD601CM	B	1	NP-23	Laminated Plastic
	2	SCREEN				
21	1	U-FD601DM	B	1	NP-23	Laminated Plastic
	2	SCREEN				
22	1	M-JD101-M02	B	1	NP-23	Laminated Plastic
	2	CREEP MOTOR FOR BUCKET ELEVATOR				
		FOR BAGGING HOUSE				
23	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
		(FORWARD REVERSE)				
24	1	U-GA106AM	B	1	NP-23	Laminated Plastic
	2	STEAM CONDENSATE PUMP				



# UREA S/S MCC NAME PLATE LIST

NO	1	ITEM NO.	FIG.	Q`TY	SIZE	REMARKS
	2	DESCRIPTION-1				
		DESCRIPTION-2 (IF REQUIRED)				
25	1	U-GA107BM	B	1	NP-23	Laminated Plastic
	2	RETURN CONDENSATE PUMP				
26	1	M-JF202M	B	1	NP-23	Laminated Plastic
	2	BELT CONVEYOR				
27	1	M-JG101BM	B	1	NP-23	Laminated Plastic
	2	DIVERTER				
28	1	U-GA107AM	B	1	NP-23	Laminated Plastic
	2	RETURN CONDENSATE PUMP				
29	1	U-GA110AM	B	1	NP-23	Laminated Plastic
	2	STEAM CONDENSATE MAKE-UP PUMP				
30	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR GENERAL FEEDER				
		(NORMAL)				
31	1	M-JF201M	B	1	NP-23	Laminated Plastic
	2	BELT CONVEYOR				
32	1	U-GA502BM	B	1	NP-23	Laminated Plastic
	2	UREA HYDROLYZER FEED PUMP				
33	1	U-GA502AM	B	1	NP-23	Laminated Plastic
	2	UREA HYDROLYZER FEED PUMP				
34	1	M-JG101AM	B	1	NP-23	Laminated Plastic
	2	DIVERTER VALVE				
35	1	M-JD101-M01	B	1	NP-23	Laminated Plastic
	2	MAIN MOTOR FOR BUCKET ELEVATOR				
		FOR BAGGING HOUSE				
36	1	U-FD602-XM02A	B	1	NP-23	Laminated Plastic
	2	VIBRATING FEEDER				

# UREA S/S MCC NAME PLATE LIST

NO	1	ITEM NO.	FIG.	Q`TY	SIZE	REMARKS
	2	DESCRIPTION-1				
		DESCRIPTION-2 (IF REQUIRED)				
37	1	U-FD602-XM02C	B	1	NP-23	Laminated Plastic
	2	VIBRATING FEEDER				
38	1	M-FA101B	B	1	NP-23	Laminated Plastic
	2	BAG FILTER FOR TRANSFER TOWER				
39	1	M-JG101CM	B	1	NP-23	Laminated Plastic
	2	DIVERTER				
40	1	U-GA110BM	B	1	NP-23	Laminated Plastic
	2	STEAM CONDENSATE MAKE-UP PUMP				
41	1	U-GA121AM	B	1	NP-23	Laminated Plastic
	2	SEALING WATER PUMP				
42	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
		(FORWARD REVERSE)				
43	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
		(FORWARD REVERSE)				
44	1	U-GA121BM	B	1	NP-23	Laminated Plastic
	2	SEALING WATER PUMP				
45	1	U-GA201AM	B	1	NP-23	Laminated Plastic
	2	UREA SOLUTION PUMP				
46	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR GENERAL FEEDER				
		(NORMAL)				
47	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
48	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				

# UREA S/S MCC NAME PLATE LIST

NO	1	ITEM NO.	FIG.	Q`TY	SIZE	REMARKS
	2	DESCRIPTION-1				
		DESCRIPTION-2 (IF REQUIRED)				
49	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
50	1		B	1	NP-23	Laminated Plastic
	2	CONTROL TR MCCB				
51	1		B	1	NP-23	Laminated Plastic
	2	CONTROL TR				
52	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
53	1	U-FD602-XM02B	B	1	NP-23	Laminated Plastic
	2	VIBRATING FEEDER				
54	1	U-FD602-XM02D	B	1	NP-23	Laminated Plastic
	2	VIBRATING FEEDER				
55	1		B	1	NP-23	Laminated Plastic
	2	SPACE				
56	1		B	1	NP-23	Laminated Plastic
	2	SPACE				
57	1	U-GA201BM	B	1	NP-23	Laminated Plastic
	2	UREA SOLUTION PUMP				
58		U-GA304BM	B	1	NP-23	Laminated Plastic
	1	TEMPERED WATER PUMP				
59	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
60	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR GENERAL FEEDER				
		(NORMAL)				

# UREA S/S MCC NAME PLATE LIST

NO	1	ITEM NO.	FIG.	Q`TY	SIZE	REMARKS
	2	DESCRIPTION-1				
		DESCRIPTION-2 (IF REQUIRED)				
61	1	U-GA103BM	B	1	NP-23	Laminated Plastic
	2	AMMONIA BOOST-UP PUMP				
62	1	U-GA103AM	B	1	NP-23	Laminated Plastic
	2	AMMONIA BOOST-UP PUMP				
63	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR GENERAL FEEDER				
64	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR GENERAL FEEDER				
		(NORMAL)				
65	1	U-GA301AM	B	1	NP-23	Laminated Plastic
	2	UREA FEED PUMP				
66	1	U-GA104M	B	1	NP-23	Laminated Plastic
	2	LOW PRESSURE FLOODING PUMP				
67	1	M32-RP502	B	1	NP-23	Laminated Plastic
	2	FEEDER FOR FORK LIFT BATTERY CHARGER				
68	1	M32-RP503	B	1	NP-23	Laminated Plastic
	2	FEEDER FOR FORK LIFT BATTERY CHARGER				
69	1		B	1	NP-23	Laminated Plastic
	2	SPACE				
70	1		B	1	NP-23	Laminated Plastic
	2	CONTROL TR MCCB				
71	1		B	1	NP-23	Laminated Plastic
	2	CONTROL TR				
72	1	U-FD602-XM02E	B	1	NP-23	Laminated Plastic
	2	VIBRATING FEEDER				

# UREA S/S MCC NAME PLATE LIST

NO	1	ITEM NO.	FIG.	Q`TY	SIZE	REMARKS
	2	DESCRIPTION-1				
		DESCRIPTION-2 (IF REQUIRED)				
73	1	U-FD602-XM02G	B	1	NP-23	Laminated Plastic
	2	VIBRATING FEEDER				
74	1	U-GA304AM	B	1	NP-23	Laminated Plastic
	2	TEMPERED WATER PUMP				
75	1	U-GA503BM	B	1	NP-23	Laminated Plastic
	2	LP ABSORBENT PUMP				
76	1	U-GA501BM	B	1	NP-23	Laminated Plastic
	2	PROCESS CONDENSATE PUMP				
77	1	U-GA301BM	B	1	NP-23	Laminated Plastic
	2	UREA FEED PUMP				
78	1	U-GB101-PM01B	B	1	NP-23	Laminated Plastic
	2	LUBE OIL PUMP				
79	1	U-GA501AM	B	1	NP-23	Laminated Plastic
	2	PROCESS CONDENSATE PUMP				
80	1	U-FD602-XM02F	B	1	NP-23	Laminated Plastic
	2	VIBRATING FEEDER				
81	1	U-FD602-XM02H	B	1	NP-23	Laminated Plastic
	2	VIBRATING FEEDER				
82	1	U-GA503AM	B	1	NP-23	Laminated Plastic
	2	LP ABSORBENT PUMP				
83	1	U-GA507BM	B	1	NP-23	Laminated Plastic
	2	TREATED PROCESS CONDENSATE PUMP				
84	1	U-GA401BM	B	1	NP-23	Laminated Plastic
	2	CARBAMATE BOOST-UP PUMP				

# UREA S/S MCC NAME PLATE LIST

NO	1	ITEM NO.	FIG.	Q`TY	SIZE	REMARKS
	2	DESCRIPTION-1				
		DESCRIPTION-2 (IF REQUIRED)				
85	1	U-GA401AM	B	1	NP-23	Laminated Plastic
	2	CARBAMATE BOOST-UP PUMP				
86	1	U-GA402AM	B	1	NP-23	Laminated Plastic
	2	HP ABSORBENT PUMP				
87	1	U-GA402BM	B	1	NP-23	Laminated Plastic
	2	HP ABSORBENT PUMP				
88	1	U-GA351AM	B	1	NP-23	Laminated Plastic
	2	ADDITIVE FEED PUMP				
89		U-GA351BM	B	1	NP-23	Laminated Plastic
	1	ADDITIVE FEED PUMP				
90	1	U-GA404AM	B	1	NP-23	Laminated Plastic
	2	No.2 HP ABSORBENT PUMP				
91	1	U-GA352M	B	1	NP-23	Laminated Plastic
	2	ADDITIVE UNLOADING PUMP				
92	1	U-GA507AM	B	1	NP-23	Laminated Plastic
	2	TREATED PROCESS CONDENSATE PUMP				
93	1	U-GA403M	B	1	NP-23	Laminated Plastic
	2	CARBONATE SOLUTION PUMP				
94	1	U-GB101-PM02	B	1	NP-23	Laminated Plastic
	2	EMERGENCY LUBE OIL PUMP				
95	1	U-GB101-PM01A	B	1	NP-23	Laminated Plastic
	2	LUBE OIL PUMP				
96	1		B	1	NP-23	Laminated Plastic
	2	CONTROL TR MCCB				

# UREA S/S MCC NAME PLATE LIST

NO	1	ITEM NO.	FIG.	Q`TY	SIZE	REMARKS
	2	DESCRIPTION-1				
		DESCRIPTION-2 (IF REQUIRED)				
97	1		B	1	NP-23	Laminated Plastic
	2	CONTROL TR				
98	1		B	1	NP-23	Laminated Plastic
	2	CONTROL TR MCCB				
99	1		B	1	NP-23	Laminated Plastic
	2	CONTROL TR				
100	1	U-GA604AM	B	1	NP-23	Laminated Plastic
	2	DISSOLVING PIT PUMP				
101	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
102	1	U30-DBC601A	B	1	NP-23	Laminated Plastic
	2	DC UPS "NORMAL"				
103	1	U30-DBC601B	B	1	NP-23	Laminated Plastic
	2	DC UPS "STAND BY"				
104	1	U-GA651AM	B	1	NP-23	Laminated Plastic
	2	AS SOLUTION CIRCULATION PUMP				
105	1	U-GA404BM	B	1	NP-23	Laminated Plastic
	2	No.2 HP ABSORBENT PUMP				
106	1	U30-UPS601A1	B	1	NP-23	Laminated Plastic
	2	AC UPS "NORMAL"				
107	1	U30-UPS601B1	B	1	NP-23	Laminated Plastic
	2	AC UPS "STAND-BY"				
108	1	U-GB604M	B	1	NP-23	Laminated Plastic
	2	DUST COLLECTION BLOWER				

# UREA S/S MCC NAME PLATE LIST

NO	1	ITEM NO.	FIG.	Q`TY	SIZE	REMARKS
	2	DESCRIPTION-1				
		DESCRIPTION-2 (IF REQUIRED)				
109	1	U-GA604BM	B	1	NP-23	Laminated Plastic
	2	DISSOLVING PIT PUMP				
110	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR GENERAL FEEDER				
		(EMERGENCY)				
111	1	U30-PDB501E	B	1	NP-23	Laminated Plastic
	2	POWER DISTRIBUTION BOARD				
		(100KVA)				
112	1	U-GB701M	B	1	NP-23	Laminated Plastic
	2	N2 COMPRESSOR				
113	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
114		U30-PDB501A	B	1	NP-23	Laminated Plastic
	1	POWER DISTRIBUTION BOARD				
		(350KVA)				
115	1	U30-PDB502	B	1	NP-23	Laminated Plastic
	2	POWER DISTRIBUTION BOARD				
		(400KVA)				
116	1	U-JD601A-M01	B	1	NP-23	Laminated Plastic
	2	MAIN MOTOR FOR				
		BUCKET ELEVATOR U-JD601A				
117	1		B	1	NP-23	Laminated Plastic
	2	COMMUNICATION DEVICE				
118	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR GENERAL FEEDER				
		(NORMAL)				
119	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
120	1	U-GA652AM	B	1	NP-23	Laminated Plastic
	2	SULFURIC ACID FEED PUMP				



# UREA S/S MCC NAME PLATE LIST

NO	1	ITEM NO.	FIG.	Q`TY	SIZE	REMARKS
	2	DESCRIPTION-1				
		DESCRIPTION-2 (IF REQUIRED)				
121	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
122	1		B	1	NP-23	Laminated Plastic
	2	SPACE				
123	1	TC-101-JB	B	1	NP-23	Laminated Plastic
	2	TRIPPER CAR				
124	1	U-GB101-XM01	B	1	NP-23	Laminated Plastic
	2	TURNING MOTOR				
125	1	U-GA606M	B	1	NP-23	Laminated Plastic
	2	AS SOLUTION RECOVERY PUMP				
126	1	40-PC-510	B	1	NP-23	Laminated Plastic
	2	MCC FOR BAGGING MACHINE(SMALL BAG)				
127	1	M-JE-101E	B	1	NP-23	Laminated Plastic
	2	ELECTRIC HOIST 0.5T FOR T/T				
128	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
129	1	U-GA651BM	B	1	NP-23	Laminated Plastic
	2	AS SOLUTION CIRCULATION PUMP				
130	1	40-PC-530	B	1	NP-23	Laminated Plastic
	2	MCC FOR STRETCH WRAPPER				
131	1	U30-UPS601C1	B	1	NP-23	Laminated Plastic
	2	AC UPS "BY PASS"				
132	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				

# UREA S/S MCC NAME PLATE LIST

NO	1	ITEM NO.	FIG.	Q`TY	SIZE	REMARKS
	2	DESCRIPTION-1				
		DESCRIPTION-2 (IF REQUIRED)				
133	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
134	1	40-PC-540	B	1	NP-23	Laminated Plastic
	2	MCC FOR BIG BAG MACHINES				
135	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FEEDER FOR PDB W/				
		ISOLATION TRANSFORMER				
136	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
137	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
138	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR GENERAL FEEDER				
		(NORMAL)				
139	1		B	1	NP-23	Laminated Plastic
	2	SPACE				
140	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
141	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR GENERAL FEEDER				
		(NORMAL)				
142	1	U-JD601B-M02	B	1	NP-23	Laminated Plastic
	2	CREEP MOTOR FOR				
		BUCKET ELEVATOR U-JD601B				
143	1	U-GA652BM	B	1	NP-23	Laminated Plastic
	2	SULFURIC ACID FEED PUMP				
144	1		B	1	NP-23	Laminated Plastic
	2	SPACE				

# UREA S/S MCC NAME PLATE LIST

NO	1	ITEM NO.	FIG.	Q`TY	SIZE	REMARKS
	2	DESCRIPTION-1				
		DESCRIPTION-2 (IF REQUIRED)				
145		40-PC-520	B	1	NP-23	Laminated Plastic
	1	MCC FOR PALLETIZER				
146	1	U-JF601M	B	1	NP-23	Laminated Plastic
	2	BELT CONVEYOR WITH				
		PRODUCT WEIGHER				
147	1	U-GA653M	B	1	NP-23	Laminated Plastic
	2	SULFURIC ACID UNLOADING PUMP				
148	1	M-JE-101A	B	1	NP-23	Laminated Plastic
	2	ELECTRIC HOIST 0.5T FOR T/T				
149	1	M-FA101A	B	1	NP-23	Laminated Plastic
	2	BAG FILTER FOR TRANSFER TOWER				
150	1	U-JF602BM	B	1	NP-23	Laminated Plastic
	2	BELT CONVEYOR WITH				
		GRANULATOR OUTLET WEIGHER				
151	1	U-GA654M	B	1	NP-23	Laminated Plastic
	2	AS SOLUTION PUMP				
152	1	M-JE-101B	B	1	NP-23	Laminated Plastic
	2	ELECTRIC HOIST 0.5T FOR T/T				
153	1	M-FA101C	B	1	NP-23	Laminated Plastic
	2	BAG FILTER FOR TRANSFER TOWER				
154	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
155	1	U-GD601M	B	1	NP-23	Laminated Plastic
	2	AGITATOR FOR DISSOLVING PIT				
156	1	M-JE-101C	B	1	NP-23	Laminated Plastic
	2	ELECTRIC HOIST 0.5T FOR T/T				

# UREA S/S MCC NAME PLATE LIST

NO	1	ITEM NO.	FIG.	Q`TY	SIZE	REMARKS
	2	DESCRIPTION-1				
		DESCRIPTION-2 (IF REQUIRED)				
157	1	M-FA201	B	1	NP-23	Laminated Plastic
	2	BAG FILTER FOR BUCKET ELEVATOR				
158		SPARE	B	1	NP-23	Laminated Plastic
	1	FOR MOTOR FEEDER				
159	1	U-JD601A-M02	B	1	NP-23	Laminated Plastic
	2	CREEP MOTOR FOR				
		BUCKET ELEVATOR U-JD601A				
160	1	M-FA301	B	1	NP-23	Laminated Plastic
	2	BAG FILTER FOR BAGGING				
		AND PALLETIZING AREA				
161	1	M-JE-101D	B	1	NP-23	Laminated Plastic
	2	ELECTRIC HOIST 0.5T FOR T/T				
162	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
163	1	U-JD601B-M01	B	1	NP-23	Laminated Plastic
	2	MAIN MOTOR FOR BUCKET				
		ELEVATOR U-JD601B				
164	1	M-JF200	B	1	NP-23	Laminated Plastic
	2	RECLAIMER FOR UREA BULK WAREHOUSE				
165	1		B	1	NP-23	Laminated Plastic
	2	SPACE				
166	1		B	1	NP-23	Laminated Plastic
	2	SPACE				
167		U-GA101B-H01	B	1	NP-23	Laminated Plastic
	1	OIL HEATER				
168	1		B	1	NP-23	Laminated Plastic
	2	SPACE				

# UREA S/S MCC NAME PLATE LIST

NO	1	ITEM NO.	FIG.	Q`TY	SIZE	REMARKS
	2	DESCRIPTION-1				
		DESCRIPTION-2 (IF REQUIRED)				
169	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FEEDER FOR PDB W/				
		ISOLATION TRANSFORMER				
170	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
171	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR HEATER FEEDER				
172	1		B	1	NP-23	Laminated Plastic
	2	SPACE				
173	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR GENERAL FEEDER				
		(NORMAL)				
174	1	U-GA504M	B	1	NP-23	Laminated Plastic
	2	DRAIN RECOVERY PUMP				
175	1	U-GB701-H01	B	1	NP-23	Laminated Plastic
	2	ELECTRICAL LUBE OIL HEATER				
176	1		B	1	NP-23	Laminated Plastic
	2	SPACE				
177	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR GENERAL FEEDER				
		(EMERGENCY)				
178	1	U-GA703M	B	1	NP-23	Laminated Plastic
	2	UREA SOLUTION RECOVERY PUMP				
179	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR HEATER FEEDER				
180	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR GENERAL FEEDER				
		(NORMAL)				

# UREA S/S MCC NAME PLATE LIST

NO	1	ITEM NO.	FIG.	Q`TY	SIZE	REMARKS
	2	DESCRIPTION-1				
		DESCRIPTION-2 (IF REQUIRED)				
181	1		B	1	NP-23	Laminated Plastic
	2	SPARE				
182	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
183	1		B	1	NP-23	Laminated Plastic
	2	SPACE				
184	1		B	1	NP-23	Laminated Plastic
	2	SPACE				
185	1		B	1	NP-23	Laminated Plastic
	2	SPARE				
186	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
187	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
188	1	M-LCP-01	B	1	NP-23	Laminated Plastic
	2	LOCAL PANEL FOR BRAKE				
189	1		B	1	NP-23	Laminated Plastic
	2	SPACE				
190		SPARE	B	1	NP-23	Laminated Plastic
	1	FOR MOTOR FEEDER				
191	1		B	1	NP-23	Laminated Plastic
	2	SPACE				
192	1	U-GA101A-H01	B	1	NP-23	Laminated Plastic
	2	OIL HEATER				

# UREA S/S MCC NAME PLATE LIST

NO	1	ITEM NO.	FIG.	Q`TY	SIZE	REMARKS
	2	DESCRIPTION-1				
		DESCRIPTION-2 (IF REQUIRED)				
193	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
194	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR HEATER FEEDER				
195	1	20-LP-956	B	1	NP-23	Laminated Plastic
	2	LOCAL CONTROL PANEL FOR VIBRATING FEEDER				
		FOR GRANULATOR OUTLET				
196	1	U-GB101-H01	B	1	NP-23	Laminated Plastic
	2	ELECTRICAL LUBE OIL HEATER				
197	1	20-LP-961	B	1	NP-23	Laminated Plastic
	2	LOCAL CONTROL PANEL				
		FOR VIBRATING FEEDER FOR SEED HOPPER				
198	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR HEATER FEEDER				
199		20-LP-966	B	1	NP-23	Laminated Plastic
	1	LOCAL CONTROL PANEL				
		FOR VIBRATING FEEDER FOR OVERSIZE COOLER				
200	1	U-EL601	B	1	NP-23	Laminated Plastic
	2	PASSENGER LIFT				
201	1	20-LP-955	B	1	NP-23	Laminated Plastic
	2	LOCAL CONTROL PANEL FOR VIBRATING FEEDER				
		FOR GRANULATOR OUTLET				
202	1		B	1	NP-23	Laminated Plastic
	2	SPACE				
203	1	20-LP-960	B	1	NP-23	Laminated Plastic
	2	LOCAL CONTROL PANEL				
		FOR VIBRATING FEEDER FOR SEED HOPPER				
204	1	20-LP-951	B	1	NP-23	Laminated Plastic
	2	LOCAL CONTROL PANEL				
		FOR VIBRATING FEEDER FOR SEED HOPPER				

# UREA S/S MCC NAME PLATE LIST

NO	1	ITEM NO.	FIG.	Q`TY	SIZE	REMARKS
	2	DESCRIPTION-1				
		DESCRIPTION-2 (IF REQUIRED)				
205	1	20-LP-965	B	1	NP-23	Laminated Plastic
	2	LOCAL CONTROL PANEL				
		FOR VIBRATING FEEDER FOR OVERSIZE COOLER				
206	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR GENERAL FEEDER				
		(NORMAL)				
207	1	U-JE601	B	1	NP-23	Laminated Plastic
	2	SEED FEED LIFT				
		(ELECTRIC HOIST)				
208	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR GENERAL FEEDER				
		(NORMAL)				
209	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR GENERAL FEEDER				
		(NORMAL)				
210	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR GENERAL FEEDER				
		(NORMAL)				
211	1	U-FH601A-RCP	B	1	NP-23	Laminated Plastic
	2	SWITCH CABINET				
		(CRUSHER)				
212	1	U-FH601B-RCP	B	1	NP-23	Laminated Plastic
	2	SWITCH CABINET				
		(CRUSHER)				
213	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
214	1		B	1	NP-23	Laminated Plastic
	2	SPACE				
215	1	20-LP-950	B	1	NP-23	Laminated Plastic
	2	LOCAL CONTROL PANEL				
		FOR BIN ACTIVATOR FOR SEED HOPPER				
216	1	U-JF602AM	B	1	NP-23	Laminated Plastic
	2	BELT CONVEYOR WITH GRANULATOR				
		OUTLET WEIGHER				



# UREA S/S MCC NAME PLATE LIST

NO	1	ITEM NO.	FIG.	Q`TY	SIZE	REMARKS
	2	DESCRIPTION-1				
		DESCRIPTION-2 (IF REQUIRED)				
217	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR GENERAL FEEDER				
		(NORMAL)				
218	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
219	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR GENERAL FEEDER				
		(NORMAL)				
220	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR MOTOR FEEDER				
221		SPARE	B	1	NP-23	Laminated Plastic
	1	FOR GENERAL FEEDER				
		(NORMAL)				
222	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR GENERAL FEEDER				
		(NORMAL)				
223	1	SPARE	B	1	NP-23	Laminated Plastic
	2	FOR GENERAL FEEDER				
		(NORMAL)				

[illegible][illegible]

## ※ Name Plate Figure

FIG.A

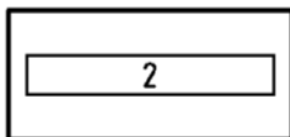


FIG.AA

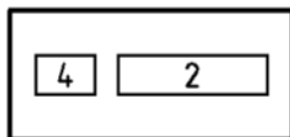


FIG.AB

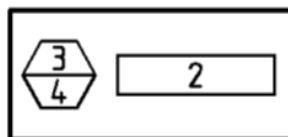


FIG.B

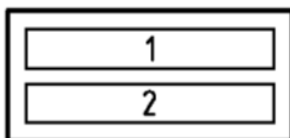


FIG.BB

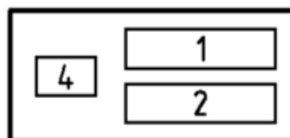


FIG.BC

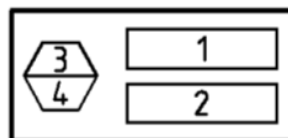


FIG.C

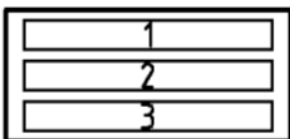


FIG.CC

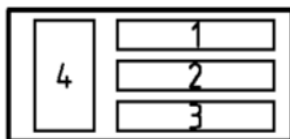


FIG.SA

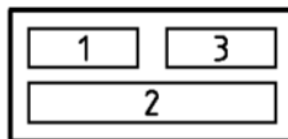


FIG.S(MCC)

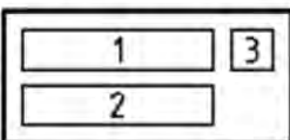


FIG.SS(MCC)

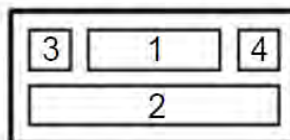


FIG.X

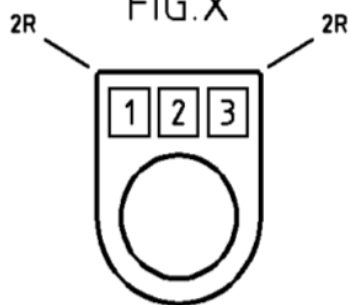


FIG.Z

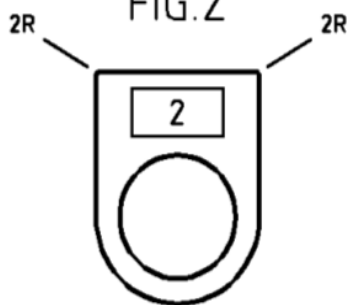
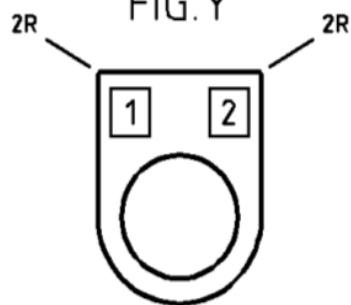


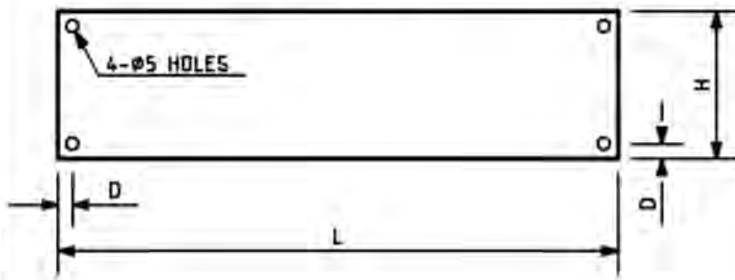
FIG.Y



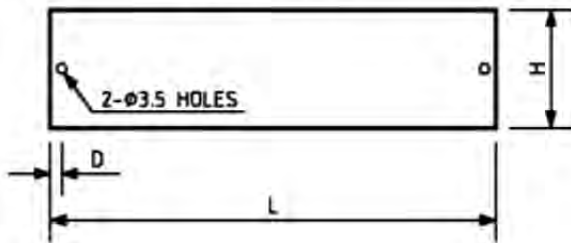
## ※ Name Plate Dimension

	Type	H	L	D	Thickness	Remark
NP53	A	50	315	5	4t	MAIN NP
NP23	B	25	160	3.5	2t	MCC UNIT
NP02	C1	13	40	3	2t	EQUIPMENT
25P	D	42	33	26φ	2t	25φ LAMP
30P	E	53	40	31φ	2t	30φ LAMP

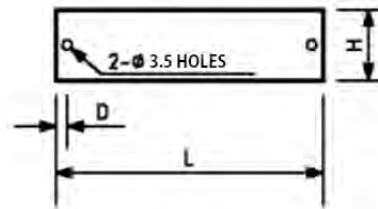
A TYPE



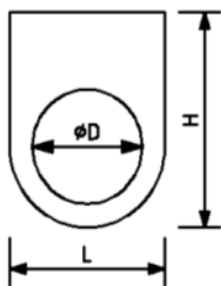
B TYPE



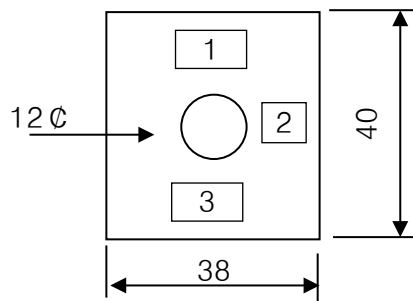
C1 TYPE



D&E TYPE



**\* T TYPE**



**\*For TOGGLE S/W**

A

B

C

D

E

F

G

H

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J

DWG. NO.  
ON 9MG

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1

REV. NO.  
NºREV

DATE  
FECHA

DESCRIPTION  
DESCRIPCION

DIN  
ELABORADO

CHECKED  
VERIFICADO

APPROVED  
APROBADO

OWNER :  
PROPIETARIO:

YPFB

Corporación

YACIMIENTOS PETROLIFEROS  
FISCALES BOLIVIANOS

PROJECT :  
PROYECTO:

PROYECTO DE AMONIACO/UREA DE YPFB

JOB NO.  
NºDE PROYECTO

DWG. TITLE:  
NºDEL DIBUJO:

A

B

C

D

E

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G


H

I

J

	A	B	C	D	E	F	G	H	I	J
	N.º DE DISEÑO ON 9MG									
7										
	DEVICE FUNCTION NUMBER LIST (ANSI C37.2-2008)									
6	NO.	FUNCTION AND DEFINITION	NO.	FUNCTION AND DEFINITION	NO.	FUNCTION AND DEFINITION	NO.	FUNCTION AND DEFINITION		
	1	MASTER ELEMENT	26	APPARATUS THERMAL DEVICE	51	AC INVERSE TIME OVERCURRENT RELAY	76	DC OVERCURRENT RELAY		
	2	TIME-DELAY STARTING OR CLOSING RELAY	27	UNDervOLTAGE RELAY	52	AC CIRCUIT BREAKER	77	TELEMETERING DEVICE		
	3	CHECKING OR INTERLOCKING RELAY	28	FLAME DETECTOR	53	FIELD EXCITATION RELAY	78	PHASE-ANGLE MEASURING RELAY		
	4	MASTER CONTACTOR	29	ISOLATING CONTACTOR OR SWITCH	54	TURNING GEAR ENGAGING DEVICE	79	AC RECLOSING RELAY		
5	5	STOPPING DEVICE	30	ANNUNCIATOR RELAY	55	POWER FACTOR RELAY	80	FLOW SWITCH		
	6	STARTING CIRCUIT BREAKER	31	SEPARATE EXCITATION DEVICE	56	FIELD APPLICATION RELAY	81	FREQUENCY RELAY		
	7	RATE-OF-CHANGE RELAY	32	DIRECTIONAL POWER RELAY	57	SHORT-CIRCUITING OR GROUNDING DEVICE	82	DC LOAD-MEASURING RECLOSING RELAY		
	8	CONTROL POWER DISCONNECTING DEVICE	33	POSITION SWITCH	58	RECTIFICATION FAILURE RELAY	83	AUTOMATIC SELECTIVE CONTROL OR TRANSFER RELAY		
	9	REVERSING DEVICE	34	MASTER SEQUENCE DEVICE	59	OVERVOLTAGE RELAY	84	OPERATING MECHANISM		
	10	UNIT SEQUENCE SWITCH	35	BRUSH-OPERATION OR SLIP-RING SHORT-CIRCUITING DEVICE	60	VOLTAGE OR CURRENT BALANCE RELAY	85	PILOT COMMUNICATIONS, CARRIER OR PILOT-WIRE RELAY		
4	11	MULTIFUNCTION DEVICE	36	POLARITY OR POLARIZING VOLTAGE DEVICE	61	DENSITY SWITCH OR SENSOR	86	LOCKOUT RELAY		
	12	OVERSPEED DEVICE	37	UNDERCURRENT OR UNDERPOWER RELAY	62	TIME-DELAY STOPPING OR OPENING RELAY	87	DIFFERENTIAL PROTECTIVE RELAY		
	13	SYNCHRONOUS-SPEED DEVICE	38	BEARING PROTECTIVE DEVICE	63	PRESSURE SWITCH	88	AUXILIARY MOTOR OR MOTOR GENERATOR		
	14	UNDERSPEED DEVICE	39	MECHANICAL CONDITION MONITOR	64	GROUND DETECTOR RELAY	89	LINE SWITCH		
	15	SPEED OR FREQUENCY MATCHING DEVICE	40	FIELD (OVER/UNDER EXCITATION) RELAY	65	GOVERNOR	90	REGULATING DEVICE		
	16	DATA COMMUNICATIONS DEVICE	41	FIELD CIRCUIT BREAKER	66	NOTCHING OR JOGGING DEVICE	91	VOLTAGE DIRECTION RELAY		
3	17	SHUNTING OR DISCHARGE SWITCH	42	RUNNING CIRCUIT BREAKER	67	AC DIRECTIONAL OVERCURRENT RELAY	92	VOLTAGE AND POWER DIRECTIONAL RELAY		
	18	ACCELERATING OR DECELERATING DEVICE	43	MANUAL TRANSFER OR SELECTOR DEVICE	68	BLOCKING OR "OUT-OF-STEP" RELAY	93	FIELD-CHANGING CONTACTOR		
	19	STARTING-TO-RUNNING TRANSITION CONTACTOR	44	UNIT SEQUENCE STARTING RELAY	69	PERMISSIVE CONTROL DEVICE	94	TRIPPING OR TRIP-FREE RELAY		
	20	ELECTRICALLY OPERATED VALVE	45	ABNORMAL ATMOSPHERIC CONDITION MONITOR	70	RHEOSTAT	95	(RESERVED FOR FUTURE APPLICATION)		
	21	DISTANCE RELAY	46	REVERSE-PHASE OR PHASE-BALANCE CURRENT RELAY	71	LIQUID LEVEL SWITCH	96	(RESERVED FOR FUTURE APPLICATION)		
	22	EQUALIZER CIRCUIT BREAKER	47	PHASE-SEQUENCE OR PHASE-BALANCE VOLTAGE RELAY	72	DC CIRCUIT BREAKER	97	(RESERVED FOR FUTURE APPLICATION)		
2	23	TEMPERATURE CONTROL DEVICE	48	INCOMPLETE SEQUENCE RELAY	73	LOAD RESISTOR CONTACTOR	98	(RESERVED FOR FUTURE APPLICATION)		
	24	VOLTS PER HERTZ RELAY	49	MACHINE OR TRANSFORMER THERMAL RELAY	74	ALARM RELAY	99	(RESERVED FOR FUTURE APPLICATION)		
	25	SYNCHRONIZING OR SYNCHRONISM-CHECK RELAY	50	INSTANTANEOUS OVER CURRENT RELAY	75	POSITION CHANGING MECHANISM				
1	A	B	C	D	E	F	G	H	I	J



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REV. NO. N.º REV.	DATE FECHA	DESCRIPTION DESCRIPCION	DIN ELABORADO	CHECKED VERIFICADO	APPROVED APROBADO
OWNER : PROPIETARIO:		 YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			

	
PROJECT : PROYECTO:	
PROYECTO DE AMONIAO/UREA DE YPFB	
JOB NO. N.º DE PROYECTO	DWG. TITLE:
DWG. NO. : N.º DEL DISEÑO:	

		A	B	C	D	E	F	G	H	I	J		
		DWG. NO. 9.040											
7													7
SYMBOL LEGENDS													
DIVI-S ION	NO.	SYMBOL		DESCRIPTION		DIVI-S ION	NO.	SYMBOL		DESCRIPTION			
A. MAIN EQUIPMENT	1			CIRCUIT BREAKER (DRAWOUT TYPE - VCB & GCB) (DRAWOUT TYPE - ACB NONE PROTECTION)		A. MAIN EQUIPMENT	13			METERING OUT-FIT			
	2			CIRCUIT BREAKER (DRAWOUT TYPE - ACB PROTECTION)			14			CAPACITOR			
	3			VACUUM SWITCH WITH POWER FUSE (DRAWOUT TYPE - VCS)			15			REACTOR			
	4			MOLDED CASE CIRCUIT BREAKER			16			LIGHTENING ARRESTER OR SURGE ARRESTER			
	5			EARTH LEAKAGE CIRCUIT BREAKER			17			TRANSFORMER			
	6			MAGNETIC CONTACTOR VACUUM SWITCH (FIXED TYPE)			18			MOTOR			
	7			DISCONNECTING SWITCH MANUAL OPERATING MECHANISM : MOTOR DRIVEN OPERATING MECHANISM :			19			GENERATOR			
	8			LOAD BREAKER SWITCH WITH FUSE MOTOR DRIVEN OPERATING MECHANISM			20			FUSE SWITCH WITH FUSE			
	9			GROUND POTENTIAL TRANSFORMER			21			PLUG AND SOCKET DEVICE			
	10			POTENTIAL (VOLTAGE) TRANSFORMER			22			PLUG AND SOCKET DEVICE			
	11			CURRENT TRANSFORMER			23			EARTH (GROUND) CONNECTION			
	12			ZERO PHASE SEQUENCE CURRENT TRANSFORMER			24						
		A	B	C	D	E	F	G	H	I	J		

REV. NO.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
BYREV	FECHA	DESCRIPCION	ELABORADO	VERIFICADO	APROBADO
OWNER :		YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			
PROPIETARIO:					

PROJECT : PROYECTO: PROYECTO DE AMONIACO/UREA DE YPFB	
JOB NO. NÚMERO PROYECTO	DWG. TITLE:
DWG. NO. : NÚMERO DIBUJO:	

					
					
					
					
					
					
REV. NO.	DATE	DESCRIPTION	DIN	CHECKED	APPROVED
NYREV	FECHA	DESCRIPCION	ELABORADO	VERIFICADO	APROBADO
OWNER : PROPIETARIO:		 YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			

PROJECT : PROYECTO:		PROYECTO DE AMONIAO/UREA DE YPFB			
JOB NO. NºDE PROYECTO		DWG. TITLE:			
		DWG. NO. : NºDEL DIBUJO:			

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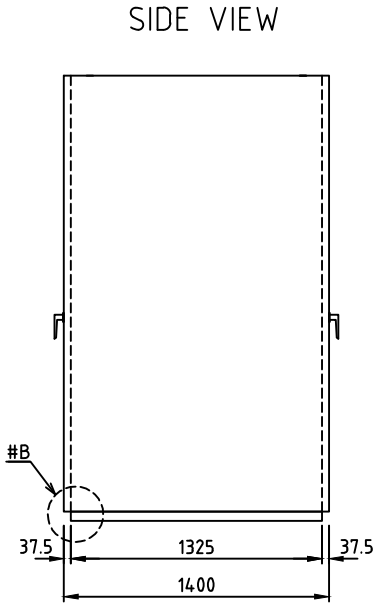
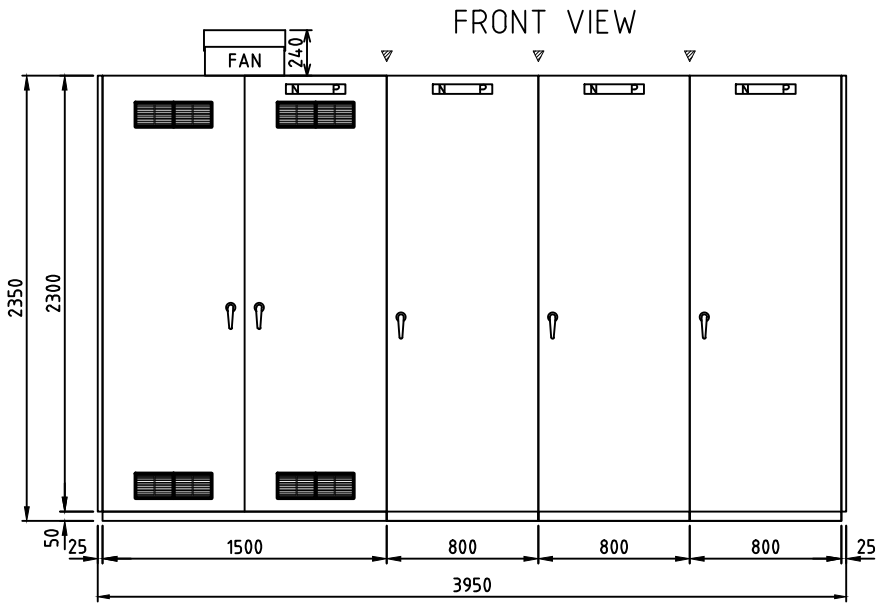


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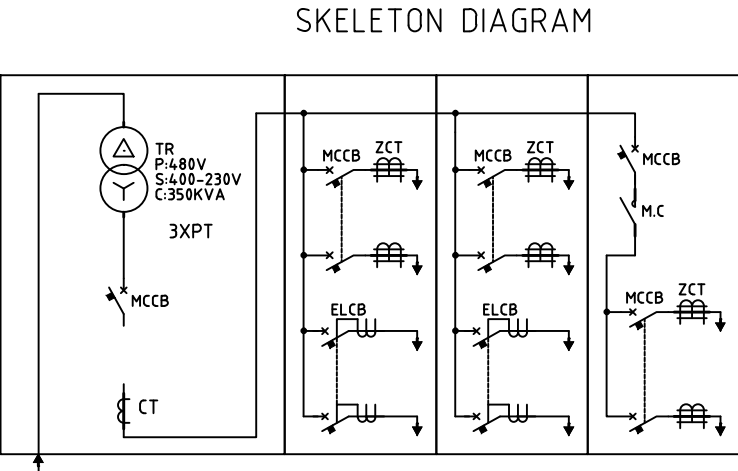
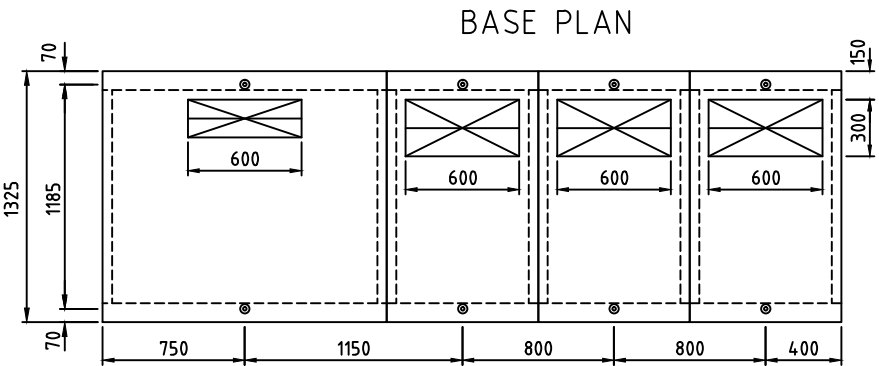
DWG. NO. 0000000000

POWER DISTRIBUTION BOARD (350kVA)	NORMAL POWER DISTRIBUTION BOARD			NAME PLATE
U30-PDB501A	U30-PDB501A01			KKS NO.

1500	1000	1000	1000	WEIGHT(Kg).
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- NOTE :
- ▽: SHIPPING SPLIT
  - PANEL ENTRANCE SIZE :



REVNO.	DATE	DESCRIPTION	DRN	CHECKED	APPROVED
Nº REV	FECHA	DESCRIPCION	ELABORADO	VERIFICADO	APROBADO
OWNER :					
PROPIETARIO:					

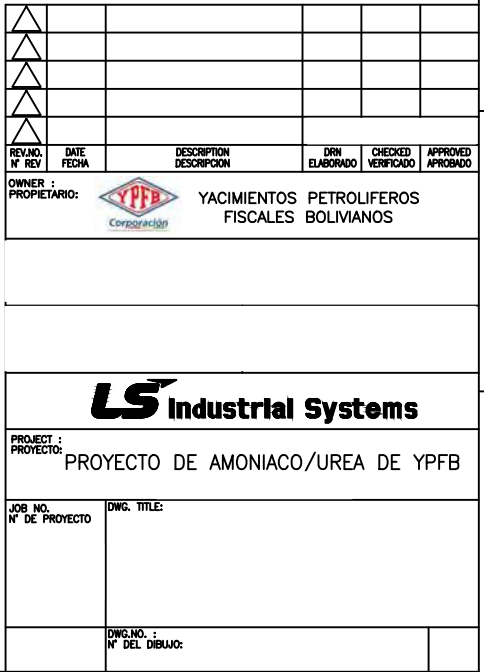
**LS** Industrial Systems

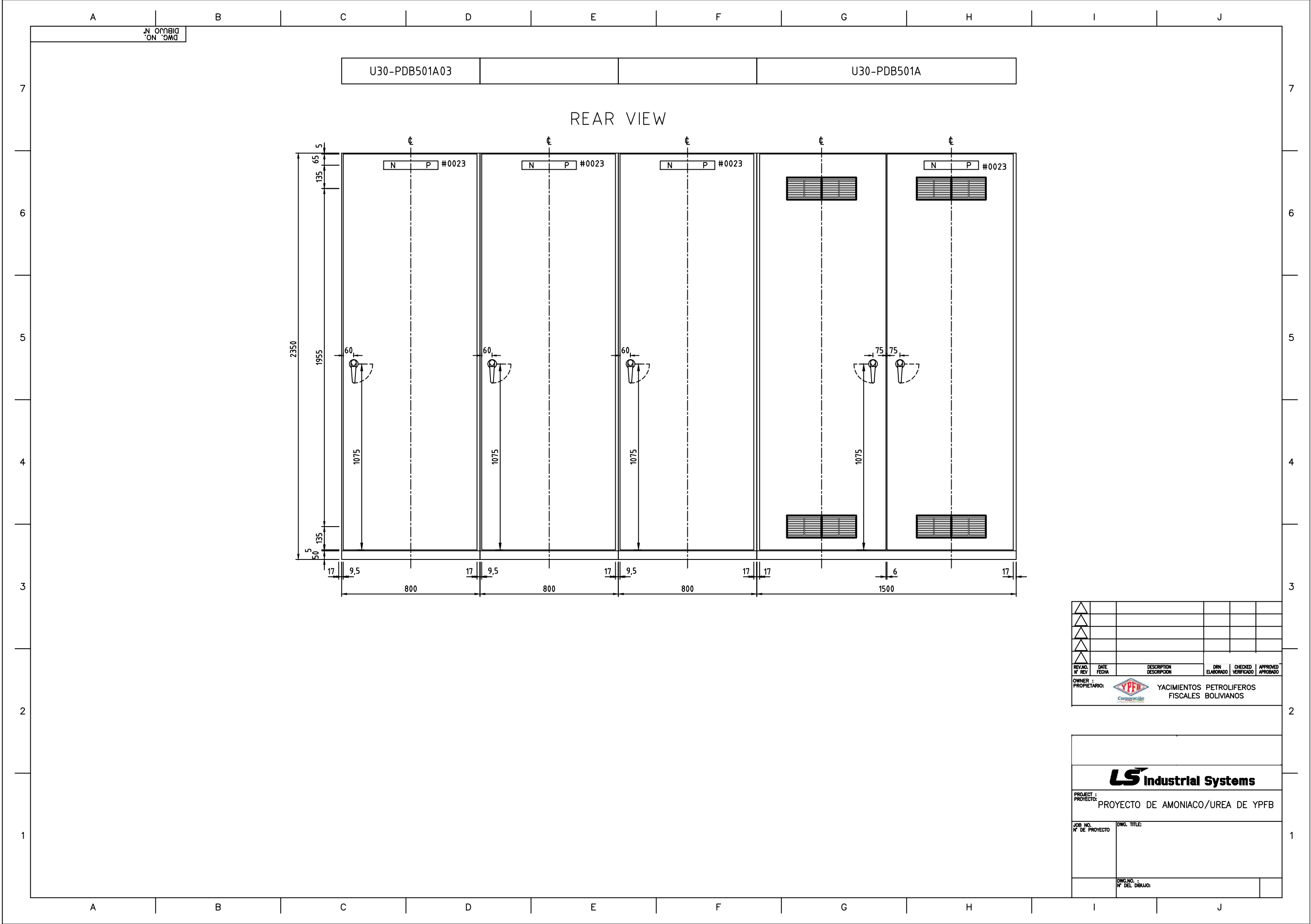
PROJECT :  
PROYECTO: PROYECTO DE AMONIACO/UREA DE YPFB


JOB NO.  
Nº DE PROYECTO

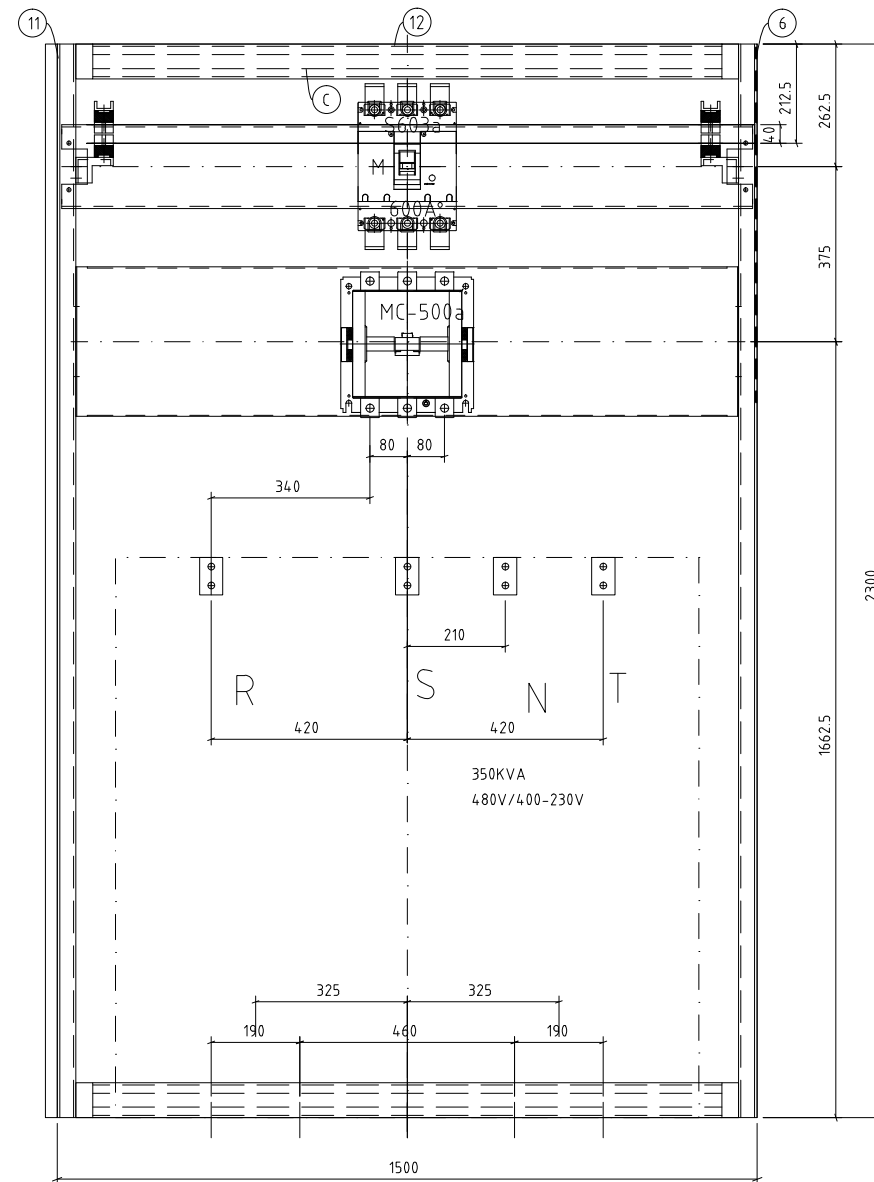
DWG. TITLE:


DWG. NO. :  
Nº DEL DIBUJO:






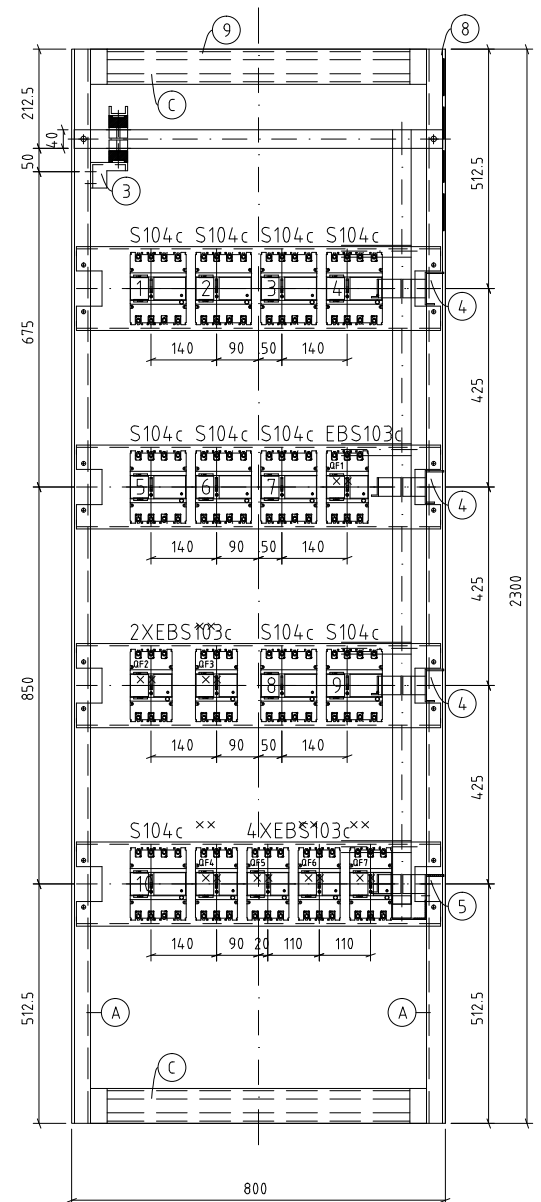
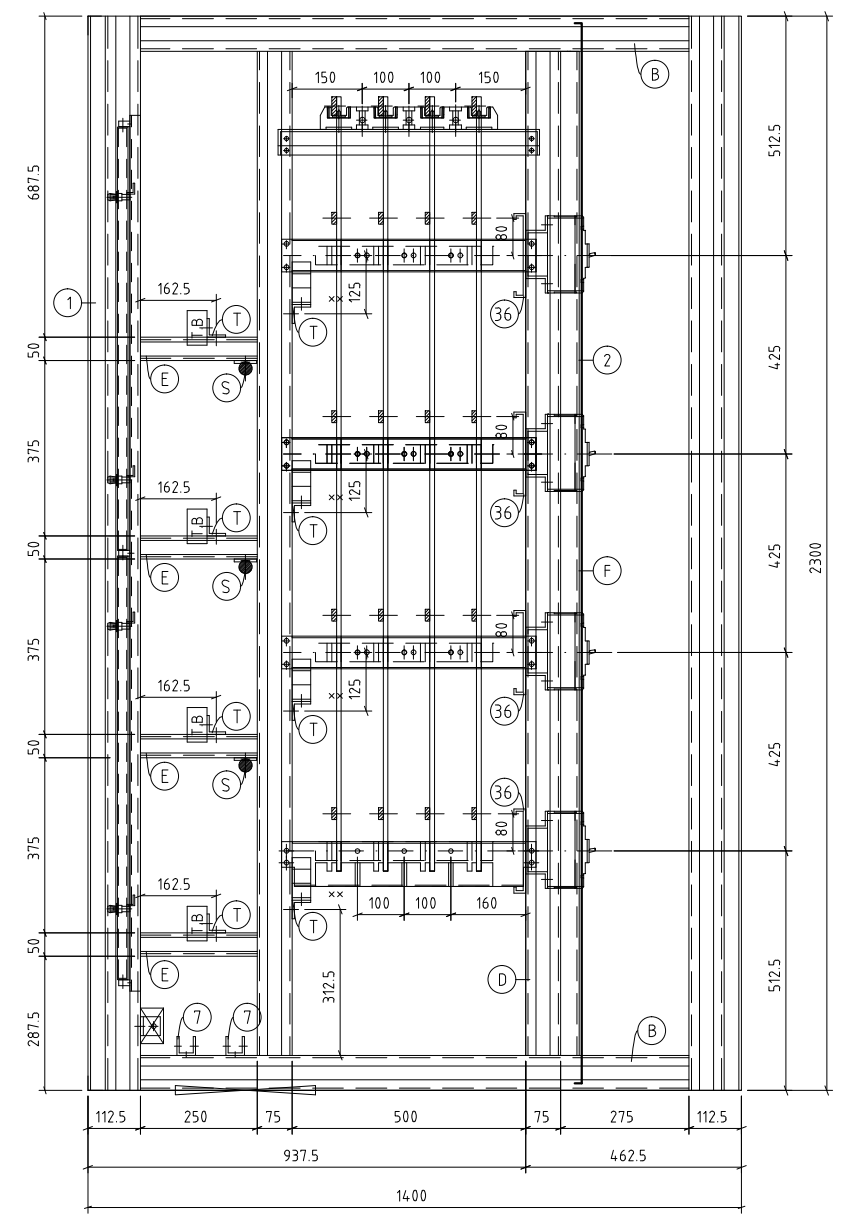
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REV. NO.	DATE	DESCRIPTION	DIN	CHECKED	APPROVED
N°	FECHA	DESCRIPCION	ELABORADO	VERIFICADO	APROBADO
OWNER : PROPRIETARIO:		YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			
					
<b>LS Industrial Systems</b>					
PROJECT : PROYECTO:		PROYECTO DE AMONIACO/UREA DE YPFB			
JOB NO. N° DE PROYECTO		DWG. TITLE:			
DWG. NO. : N° DEL DIBUJO:					



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REV. NO.	DATE	DESCRIPTION	DRN	CHECKED	APPROVED	
NO. REV.	FECHA	DESCRIPCION	ELABORADO	VERIFICADO	APROBADO	
OWNER : PROPIETARIO:			 YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			

	
PROJECT : PROYECTO:	
PROYECTO DE AMONIACO/UREA DE YPFB	
JOB NO. N° DE PROYECTO	DWG. TITLE:
DWG. NO. : N° DEL DIBUJO:	

DWG. NO. 0000  
DIBUJO N°



(T:20) U30-PDB501A01 PNL 1

REVISOR	FECHA	DESCRIPCION	ELABORADO	VERIFICADO	APROBADO
OWNER :	PROPIETARIO:	YACIENTOS PETROLIFEROS FISCALES BOLIVIANOS			

**LS** Industrial Systems

PROJECT :  
PROYECTO: PROYECTO DE AMONIACO/UREA DE YPFB

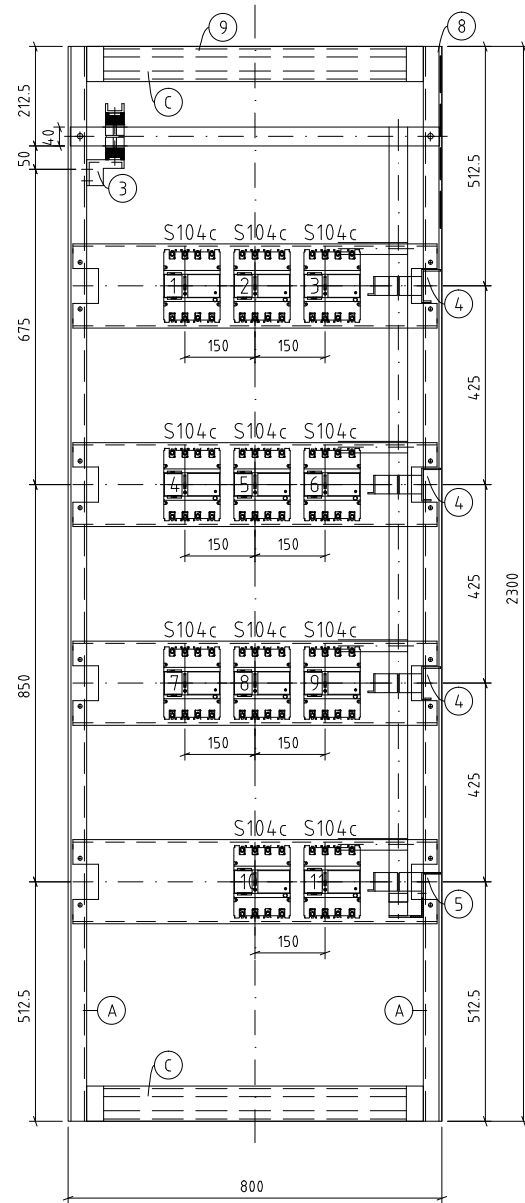
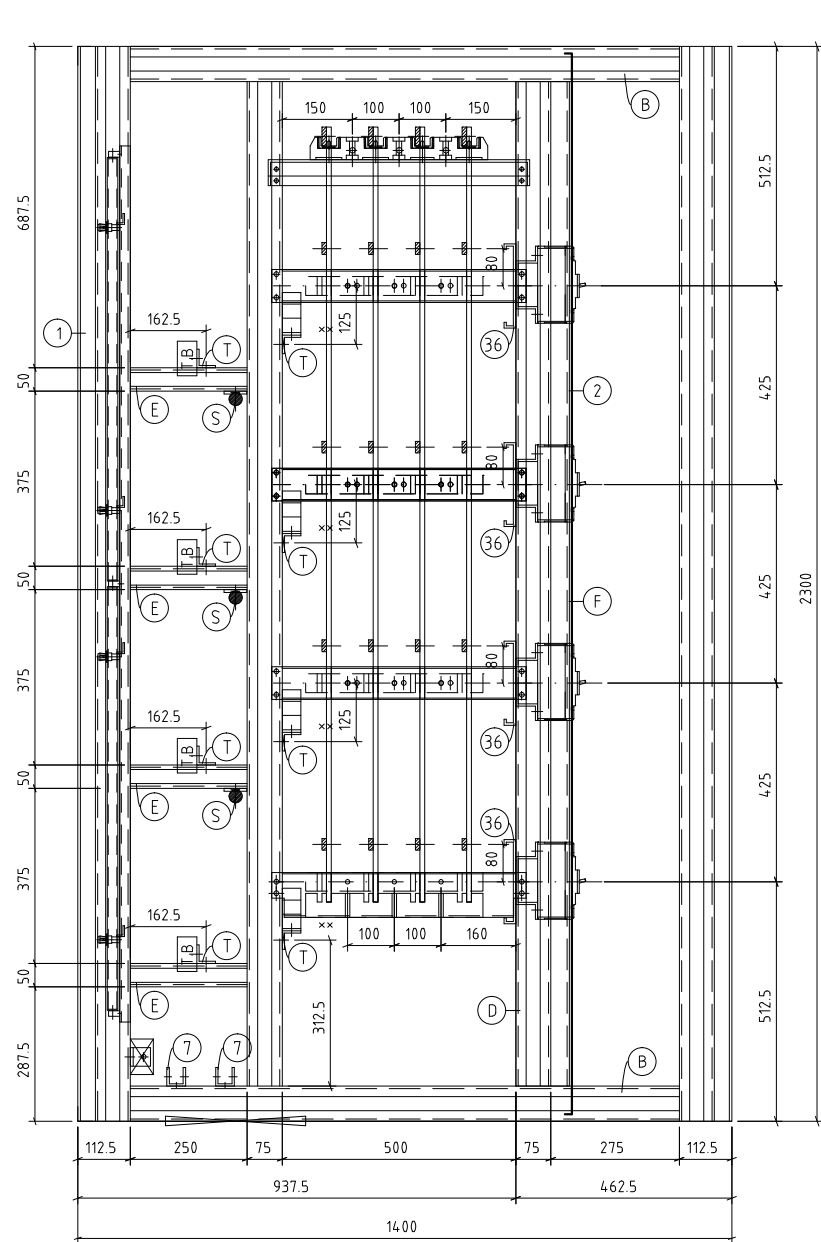
JOB NO.  
N° DE PROYECTO

DWG. TITLE:

DWG. NO. :  
N° DEL DIBUJO:



DWG. NO.  
DIBUJO N°



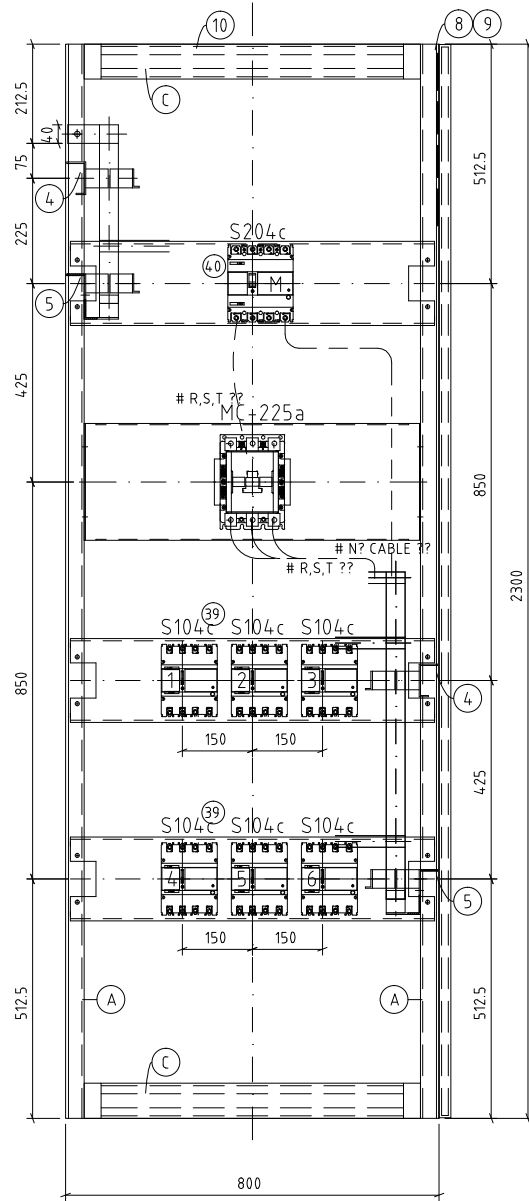
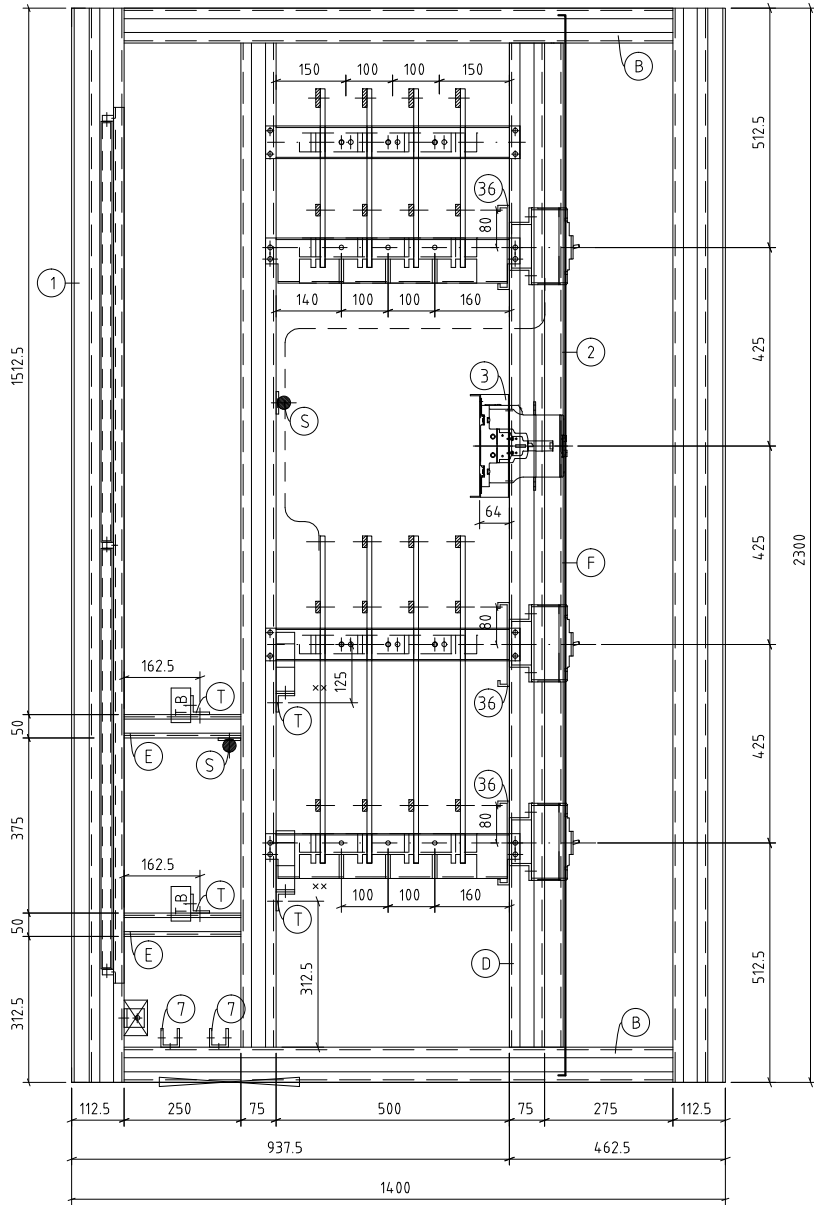
(T:20) U30-PDB501A02 PNL 2

REVISOR	DATE	DESCRIPTION	DRN	CHECKED	APPROVED
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OWNER : YPFB YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS					
PROPIETARIO: YPFB YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS					

PROJECT : PROYECTO DE AMONIACO/UREA DE YPFB	
JOB NO. N° DE PROYECTO	DWG. TITLE:
DWG. NO. : N° DEL DIBUJO:	

DWG. NO. 3  
DIBUJO N°

(T:20) U30-PDB501A03 PNL 3



REVISOR	FECHA	DESCRIPCION	DRN ELABORADO	CHECKED VERIFICADO	APPROVED APROBADO
OWNER : PROPIETARIO:	YPFB YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS				

**LS** Industrial Systems

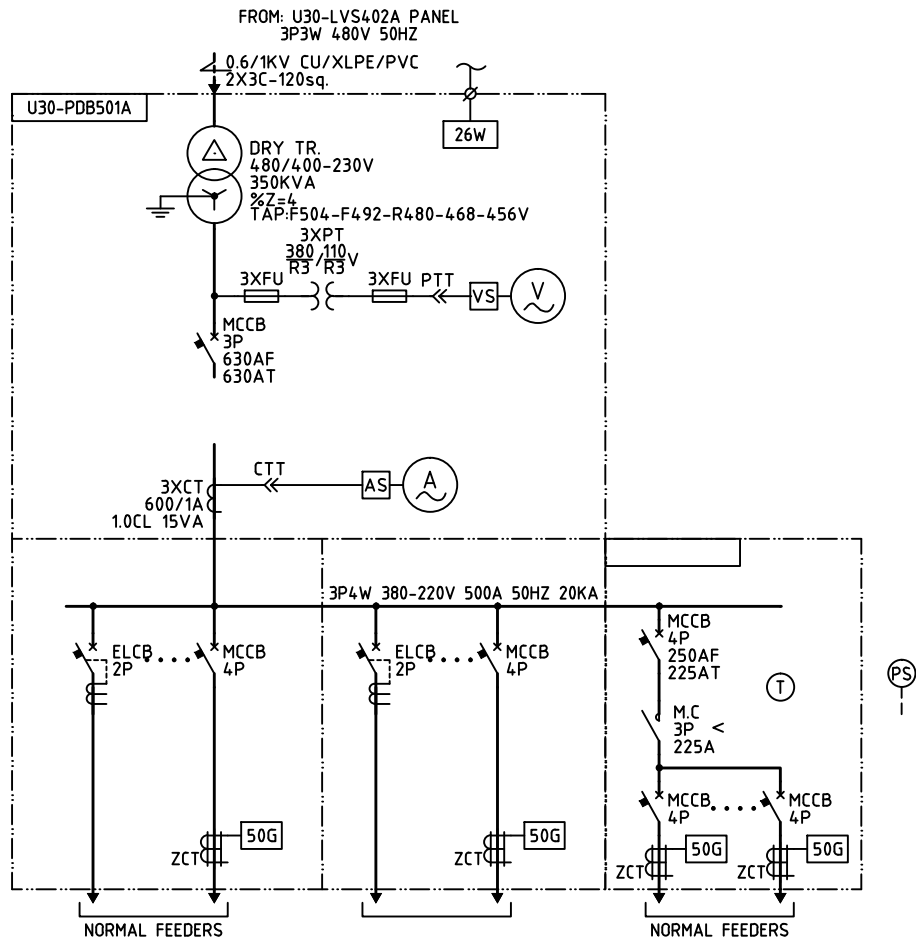
PROJECT :  
PROYECTO: PROYECTO DE AMONACO/UREA DE YPFB

JOB NO. :  
N° DE PROYECTO

DWG. TITLE:

DWG. NO. :  
N° DEL DIBUJO:

DWG. NO. 0000000000



U30-PDB501A01

ITEM NO.	DESCRIPTION	RATING (KW)	POLE	TYPE	AT	AF
U-GA351A-XM01	ELECTRIC ACTUATOR FOR STROKE ADJUSTMENT	0.20	4	MCCB	15	125
U-GA351B-XM01	ELECTRIC ACTUATOR FOR STROKE ADJUSTMENT	0.20	4	MCCB	15	125
U-RP501	RECEPTACLE PANEL FOR UREA AREA	15.00	4	MCCB	30	125
U-RP502	RECEPTACLE PANEL FOR UREA AREA	15.00	4	MCCB	30	125
U30-RP501	RECEPTACLE PANEL FOR UREA SUBSTATION	7.00	4	MCCB	30	125
M31-RP501	RECEPTACLE PANEL FOR UREA STORAGE	5.00	4	MCCB	30	125
M32-RP501	RECEPTACLE PANEL FOR UREA BAGGING HOUSE	10.00	4	MCCB	30	125
U30-MVS301A	MOTOR SPACE HEATER FOR 6.6KV SWGR-A	5.00	2	ELCB	30	125
U30-MVS301B	MOTOR SPACE HEATER FOR 6.6KV SWGR-B	5.00	2	ELCB	30	125
20-AT-151/20-AT-152	ANALYZER SYSTEM	3.90	2	ELCB	30	125
	SPARE		4	MCCB	30	125
	SPARE		4	MCCB	30	125
	SPARE		4	MCCB	15	125
	SPARE		2	ELCB	30	125
	SPARE		2	ELCB	15	125
	SPARE		2	ELCB	15	125
	SPARE		2	ELCB	15	125

FOR GENERAL FEEDERS (NORMAL)

U30-PDB501A03

ITEM NO.	DESCRIPTION	RATING (KW)	POLE	TYPE	AT	AF
U-LN501	LIGHTING PANEL FOR UREA AREA (N)	30.00	4	MCCB	60	125
U-LN502		30.00	4	MCCB	60	125
	SPARE		4	MCCB	60	125
	SPARE		4	MCCB	30	125
	SPARE		4	MCCB	15	125

FOR NIGHT LIGHTS (NORMAL)

U30-PDB501A02

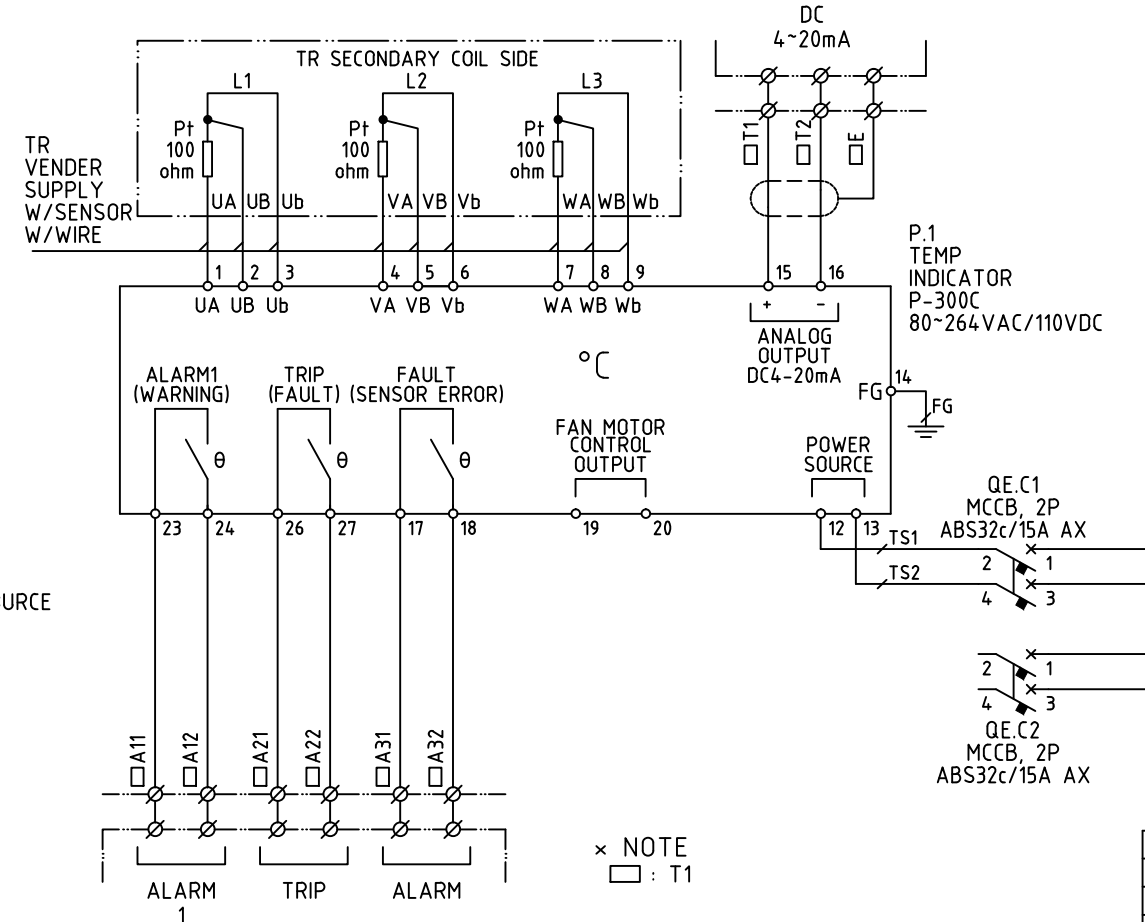
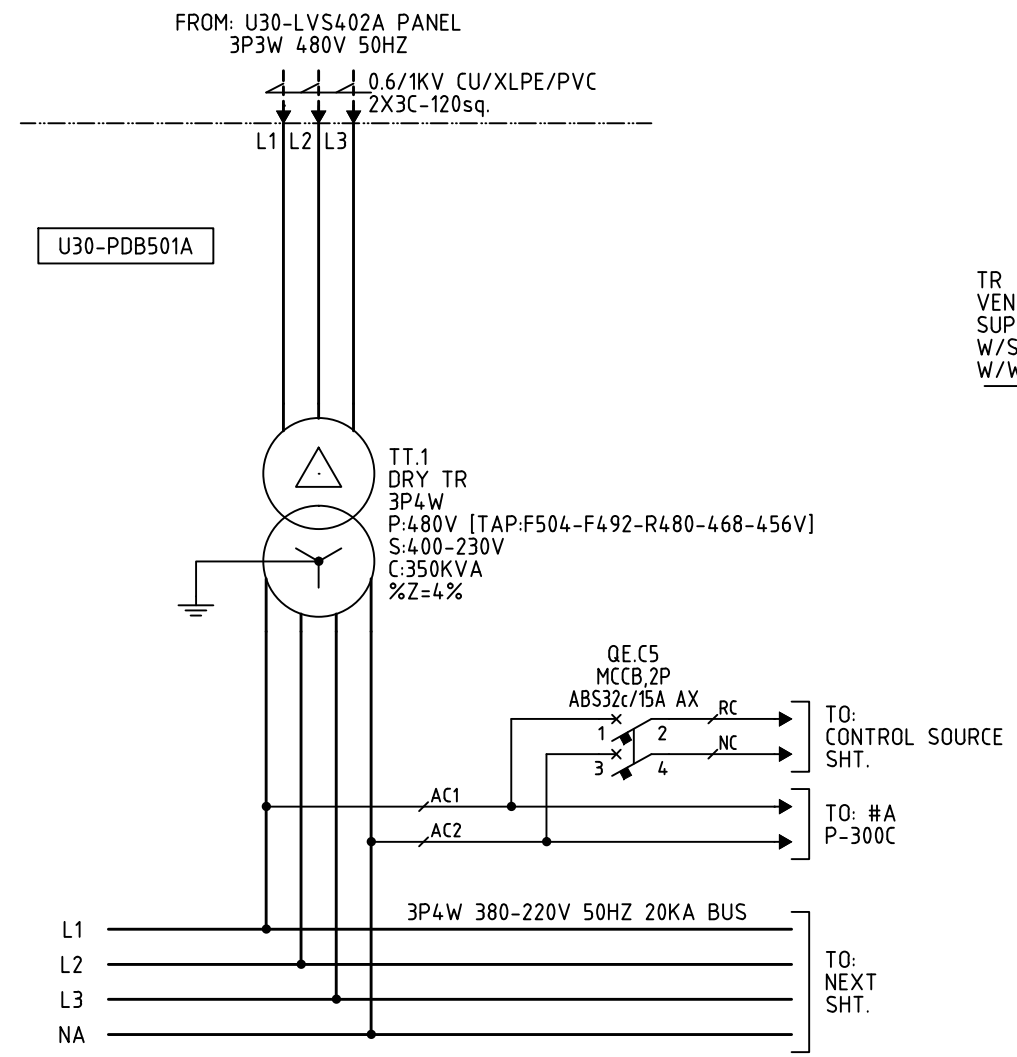
ITEM NO.	DESCRIPTION	RATING (KW)	POLE	TYPE	AT	AF
U-LD501	LIGHTING PANEL FOR BELT CONVEYOR GALLERY (D&N)	15.00	4	MCCB	30	125
U-LD502	LIGHTING PANEL UREA AREA (D&N)	30.00	4	MCCB	75	125
U30-LD501	LIGHTING PANEL FOR UREA SUBSTATION (D&N)	8.00	4	MCCB	30	125
M31-LD501	LIGHTING PANEL FOR UREA BULK STORAGE (D&N)	40.00	4	MCCB	75	125
M32-LD501	LIGHTING PANEL FOR UREA BAGGING HOUSE (D&N)	65.00	4	MCCB	125	125
	SPARE		4	MCCB	125	125
	SPARE		4	MCCB	75	125
	SPARE		4	MCCB	50	125
	SPARE		4	MCCB	50	125
	SPARE		4	MCCB	30	125
	SPARE		4	MCCB	30	125

FOR DAY & NIGHT LIGHTS (NORMAL)

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REV.	DATE	DESCRIPTION	DIN	CHECKED	APPROVED
Nº	FECHA	DESCRIPCION	ELABORADO	VERIFICADO	APROBADO
OWNER : PROPIETARIO:			YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS		

<b>LS Industrial Systems</b>					
PROJECT : PROYECTO:					
PROYECTO DE AMONIACO/UREA DE YPFB					
JOB NO. Nº DE PROYECTO		DWG. TITLE:			
DWG. NO. : Nº DEL DIBUJO:					

IN. 000000  
ON. 0000



\* Accessory of MCCB

-X : Auxiliary Switch (52AX)

-L : Alarm Switch (52AL)

-S : Shunt Trip Device (52SHT)

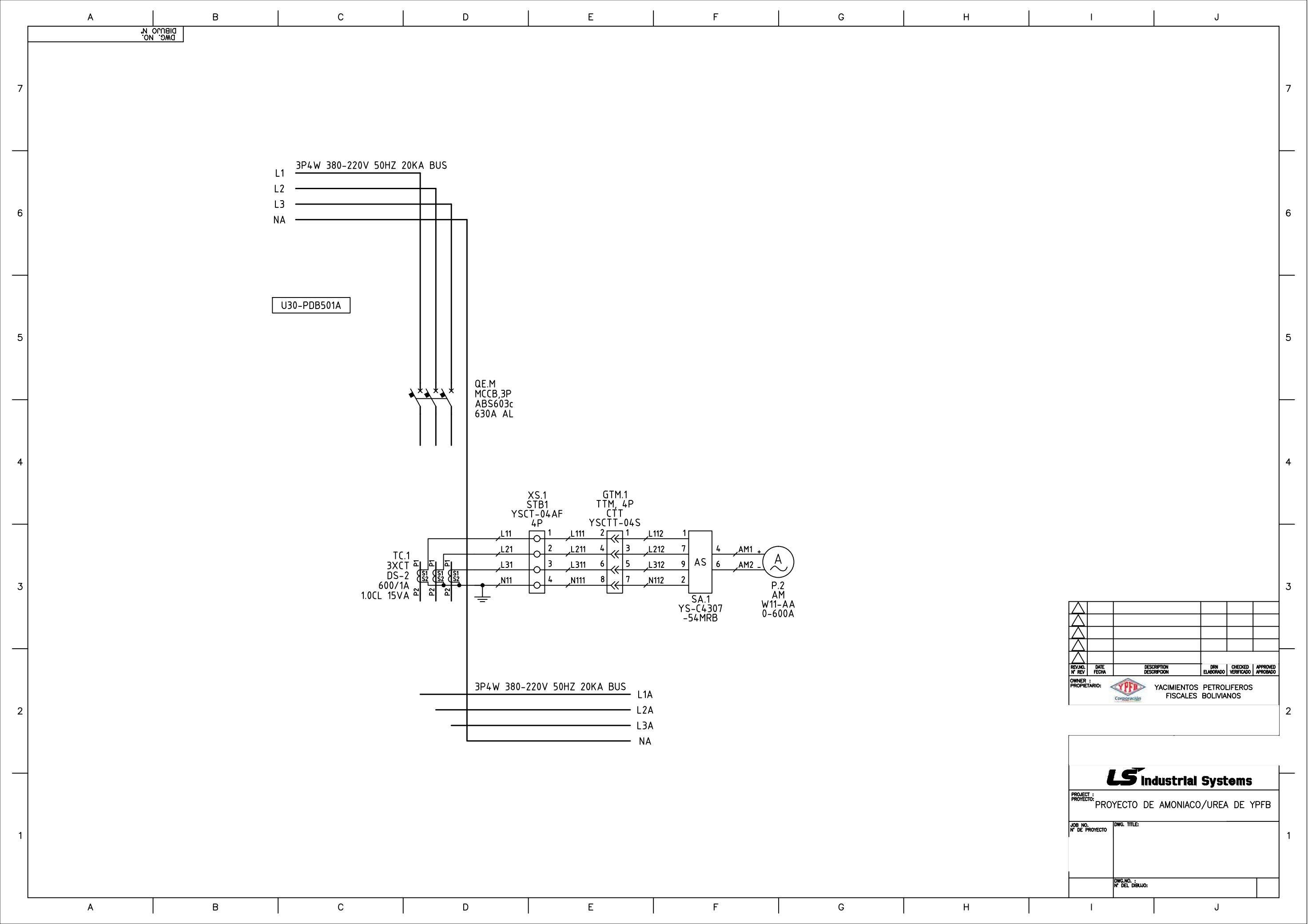
MCCB	ON	OFF	TRIP
52AX	AXc1 AXa1 AXb1	AXc1 AXa1 AXb1	
52AL	ALc1 ALa1 ALb1	ALc1 ALa1 ALb1	

H1  
SL  
HEALTHY  
WH  
YSPL3-AL22-W  
30PI, AC220V

REV. NO.	DATE	DESCRIPTION	DIN	CHECKED	APPROVED
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OWNER :  
PROPIETARIO: YPFB YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS

PROJECT : PROYECTO: PROYECTO DE AMONIACO/URFA DE YPFB	
JOB NO. N° DE PROYECTO	DWG. TITLE:
DWG. NO. : N° DEL DIBUJO:	



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REV.	DATE	DESCRIPTION	DWG.	CHECKED	APPROVED
Nº	FECHA	DESCRIPCION	ELABORADO	VERIFICADO	APROBADO
OWNER :		YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			
PROPIETARIO:		YPF			

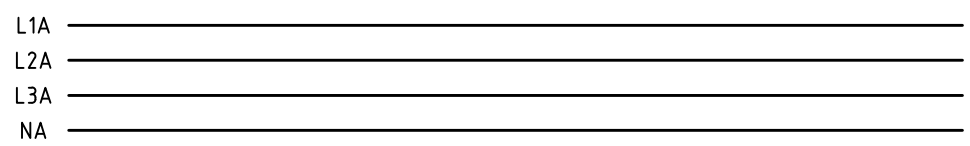
**LS** Industrial Systems

PROJECT :  
PROYECTO: PROYECTO DE AMONIACO/UREA DE YPFB

JOB NO.  
Nº DE PROYECTO

DWG. TITLE:








DWG. NO. :  
Nº DEL DIBUJO:



U30-RP501

FEEDER NAME
INCOMING (USER) CABLE SIZE
RATING

× NOTE  
□ : MCCB NO.

						
						
						
						
						
REV. NO. N° REV	DATE FECHA	DESCRIPTION DESCRIPCION	DIN ELABORADO	CHECKED VERIFICADO	APPROVED APROBADO	
OWNER : PROPIETARIO:			 YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			
						
PROJECT : PROYECTO:			PROYECTO DE AMONIACO/UREA DE YPFB			
JOB NO. N° DE PROYECTO		DWG. TITLE:				
		DWG. NO. : N° DEL DIBUJO:				

**LS Industrial Systems**

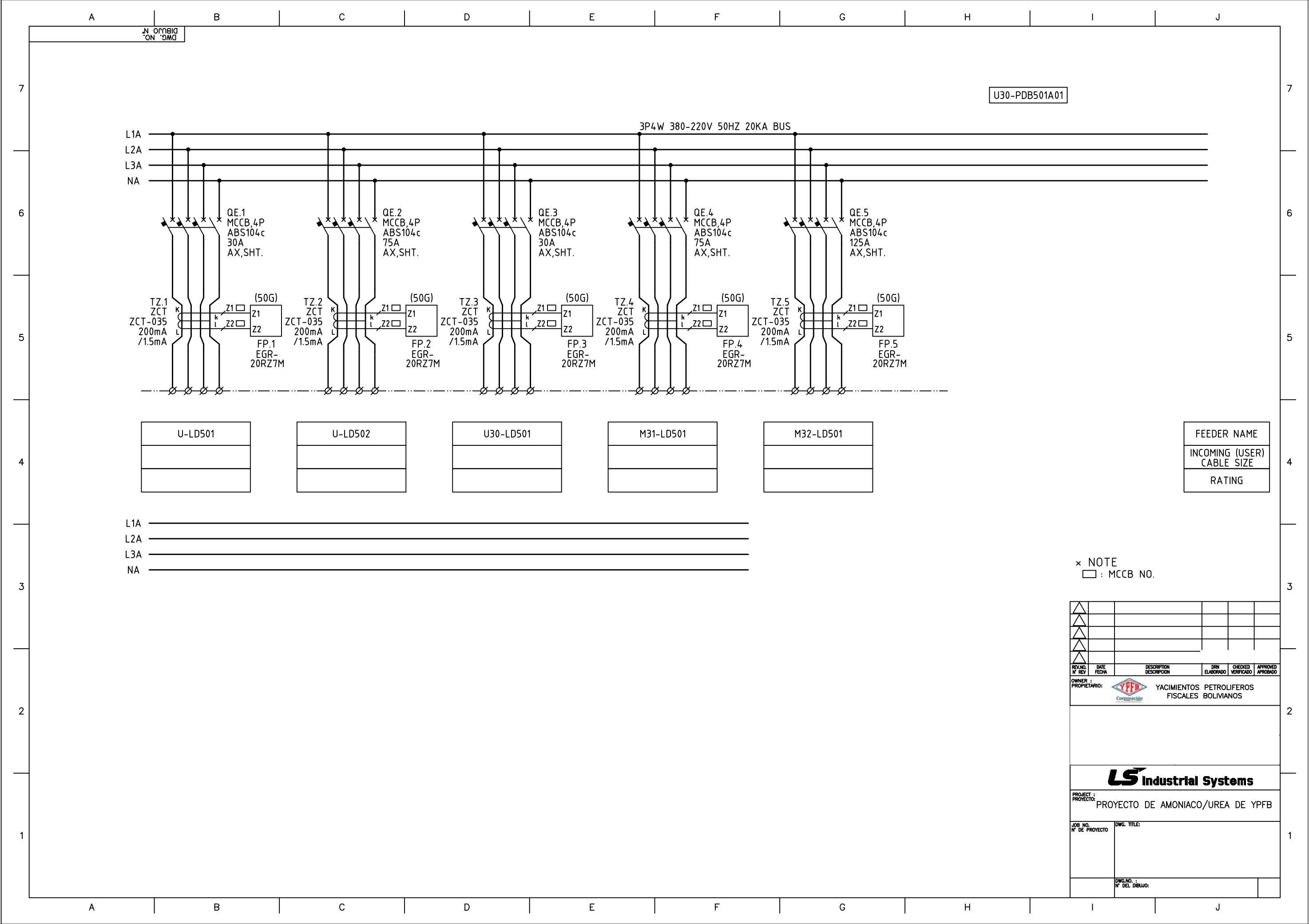
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JOB NO. N° DE PROYECTO	DWG. TITLE:
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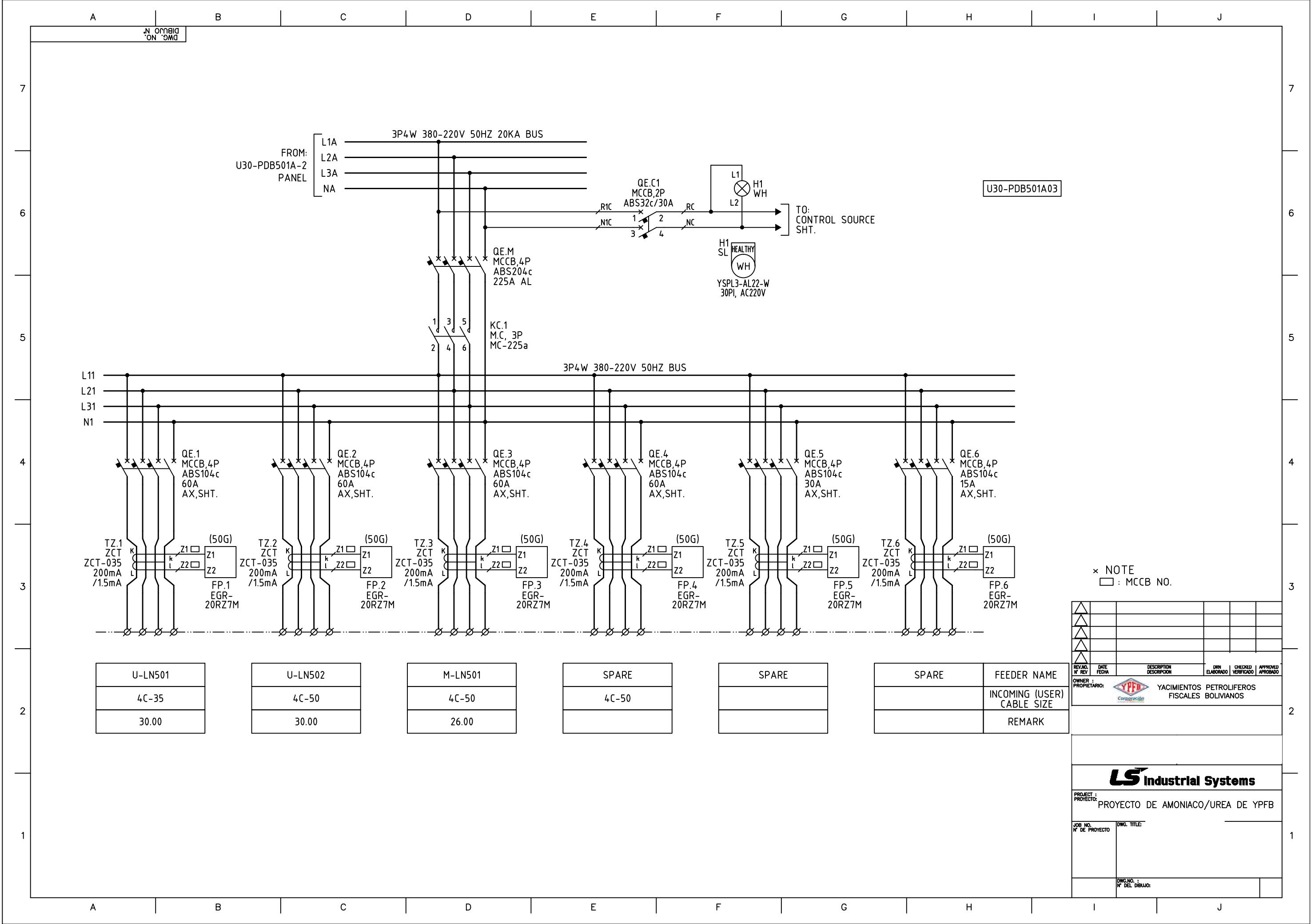
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REV. NO. Nº REV	DATE FECHA	DESCRIPTION DESCRIPCION	DRN ELABORADO	CHECKED VERIFICADO	APPROVED APROBADO
OWNER : PROPIETARIO:			YPF Corporación YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS		
LS Industrial Systems					
PROJECT : PROYECTO:					
PROYECTO DE AMONIACO/UREA DE YPFB					
JOB NO. Nº DE PROYECTO		DWG. TITLE			
		DWG. NO. : Nº DEL DIBUJO:			



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REV.NO. N° REV	DATE FECHA	DESCRIPTION DESCRIPCION	DIN ELABORADO	CHECKED VERIFICADO	APPROVED APROBADO
OWNER : PROPIETARIO:		YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			
					
					
PROJECT : PROYECTO:		PROYECTO DE AMONIACO/UREA DE YPFB			
JOB NO. N° DE PROYECTO		DWG. TITLE:			
		DWG.NO. : N° DEL DIBUJO:			











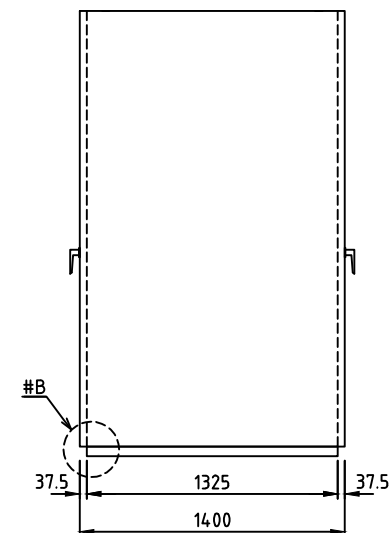


The figure shows a large blank grid for technical drawing. The grid is defined by a coordinate system with columns labeled A through J and rows labeled 1 through 7. The grid is defined by a coordinate system with origin at the bottom-left corner. The grid lines are spaced evenly across the drawing area.

DWG. NO.  
DIBUJO N.

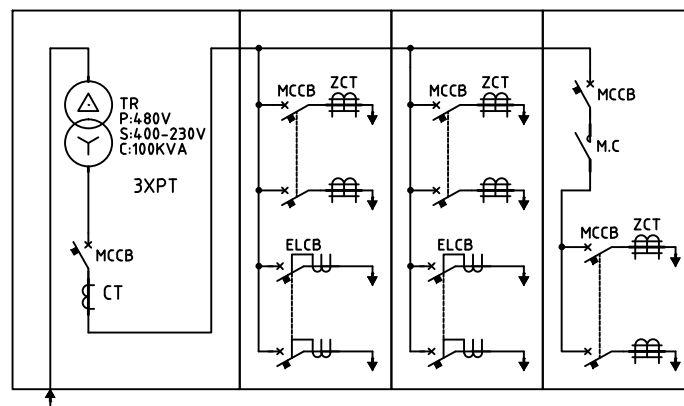
DWG. NO.  
DIBUJO N.

SIDE VIEW



1. ▽: SHIPPING SPLIT
2. PANEL ENTRANCE SIZE :

## SKELETON DIAGRAM

**LS Industrial Systems**

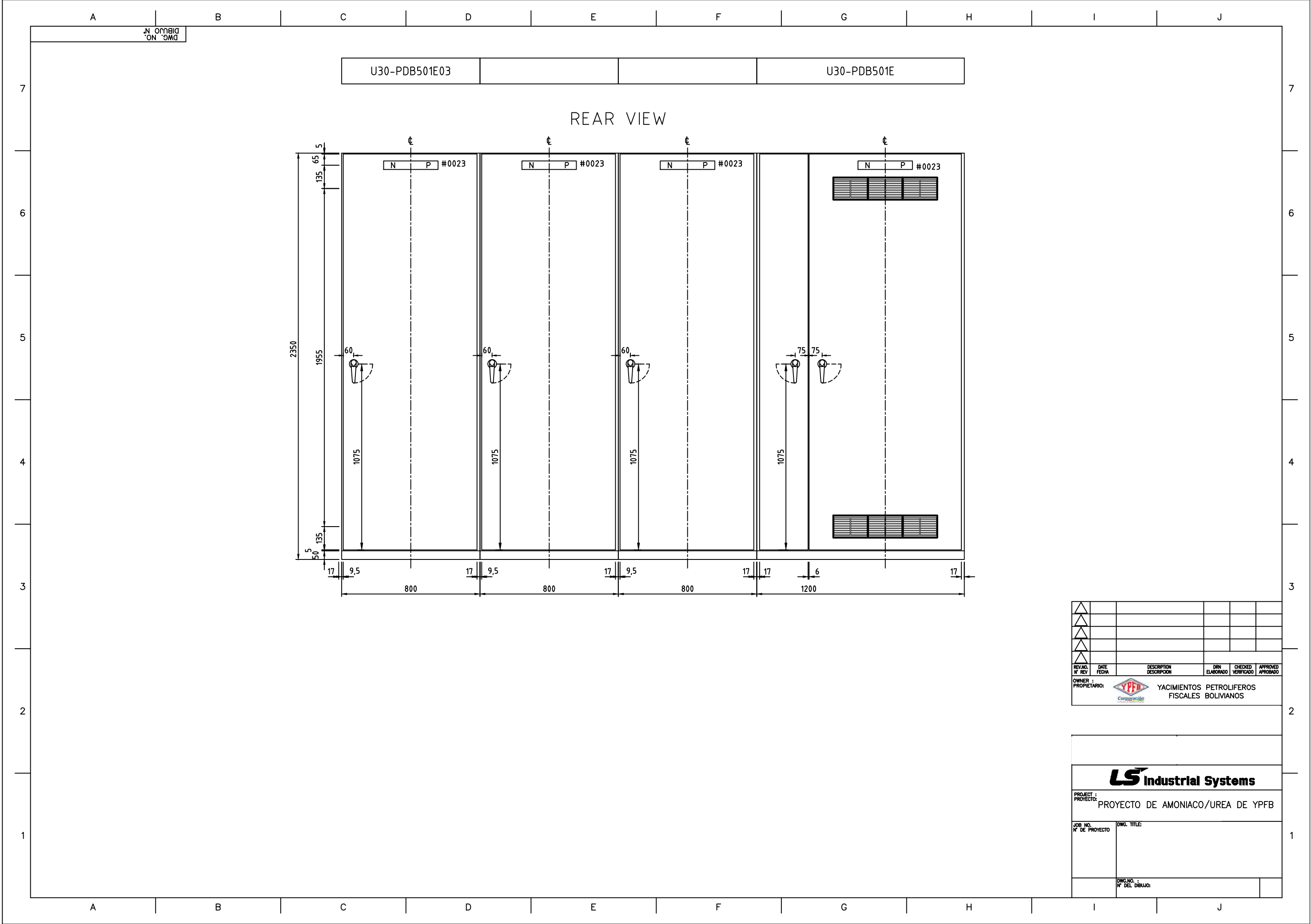
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JOB NO. N° DE PROYECTO	DWG. TITLE:
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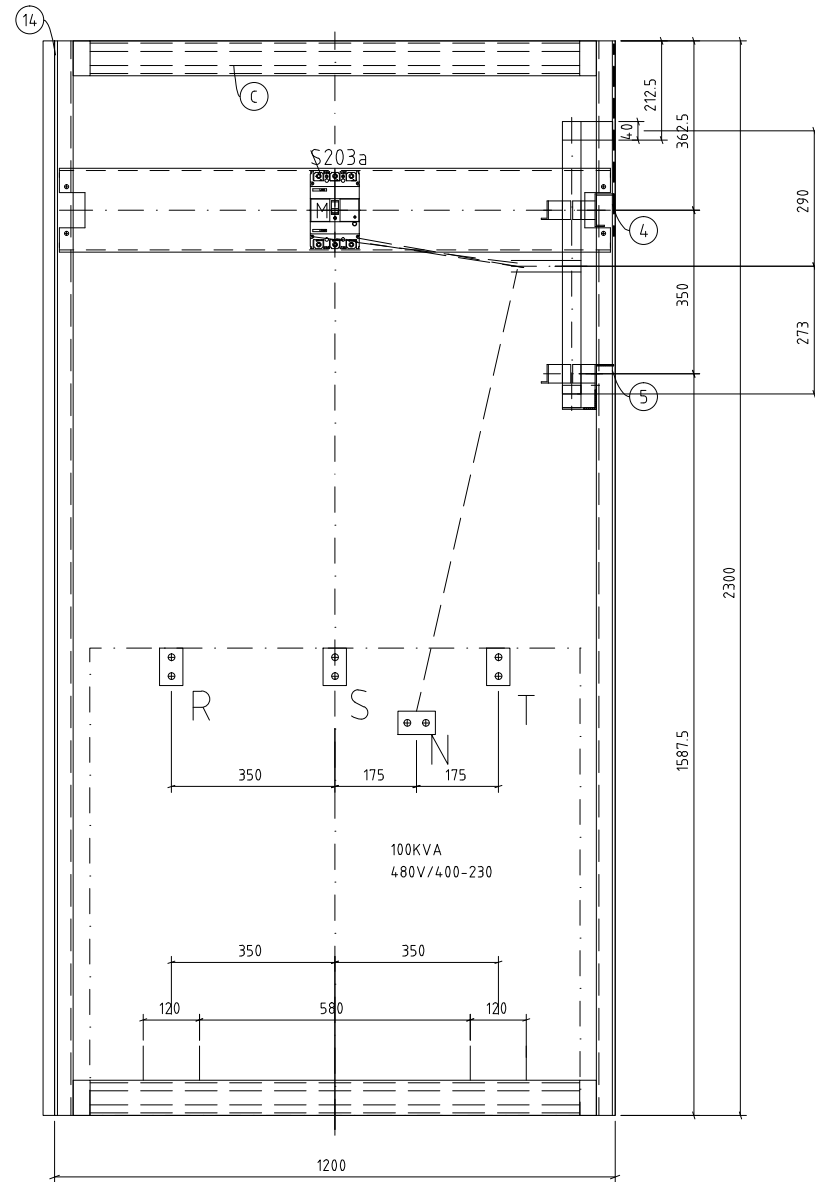
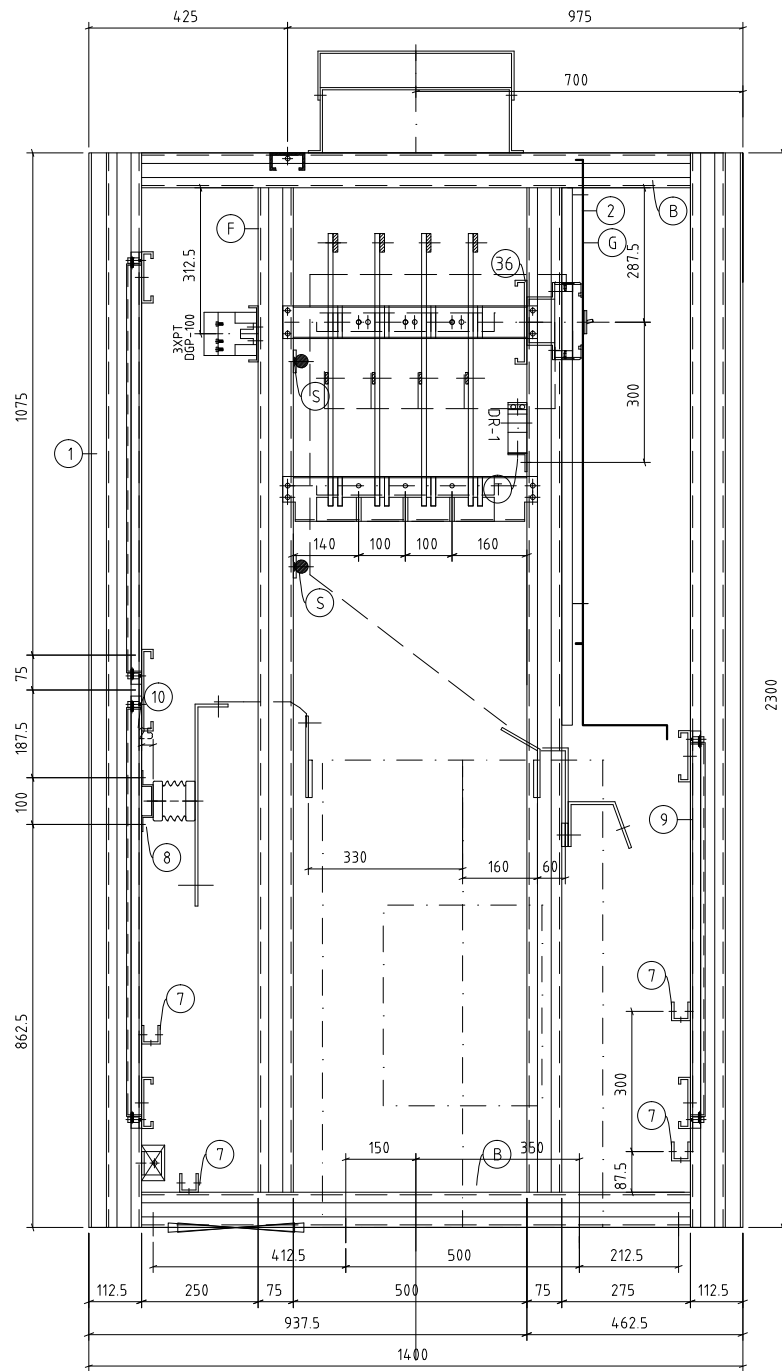
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REV. NO. N° REV	DATE FECHA	DESCRIPTION DESCRIPCION	DIN ELABORADO	CHECKED VERIFICADO	APPROVED APROBADO
OWNER : PROPIETARIO:		YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			
<b>LS Industrial Systems</b>					
PROJECT : PROYECTO:		PROYECTO DE AMONIACO/UREA DE YPFB			
JOB NO. N° DE PROYECTO		DWG. TITLE:			



(T:019) U30-PDB501E PNL 2

REV. NO.	DATE	DESCRIPTION	DRN	CHECKED	APPROVED
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**LS Industrial Systems**

PROJECT :  
PROYECTO DE AMONACO/UREA DE YPFB

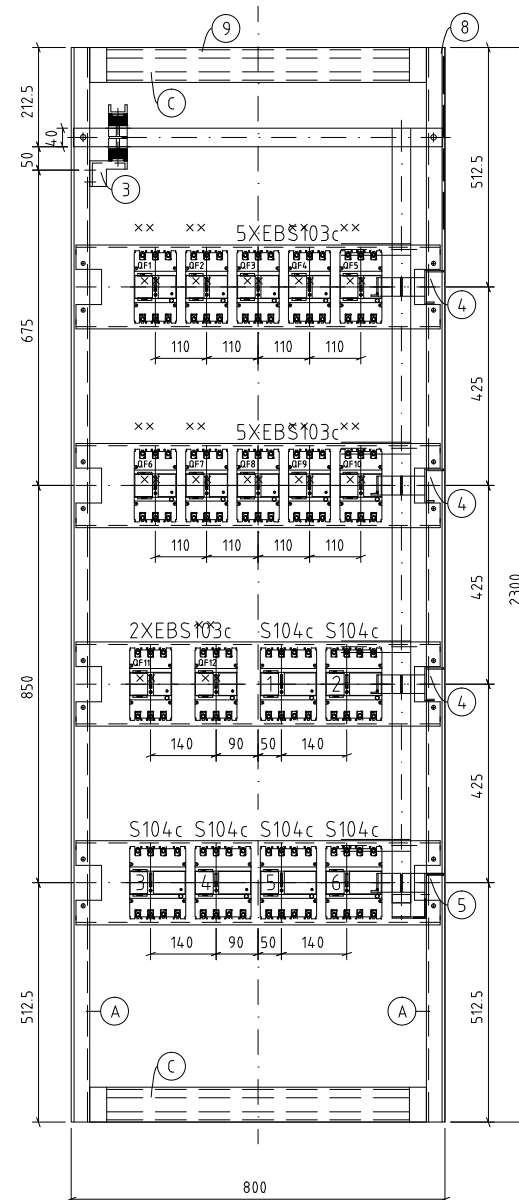
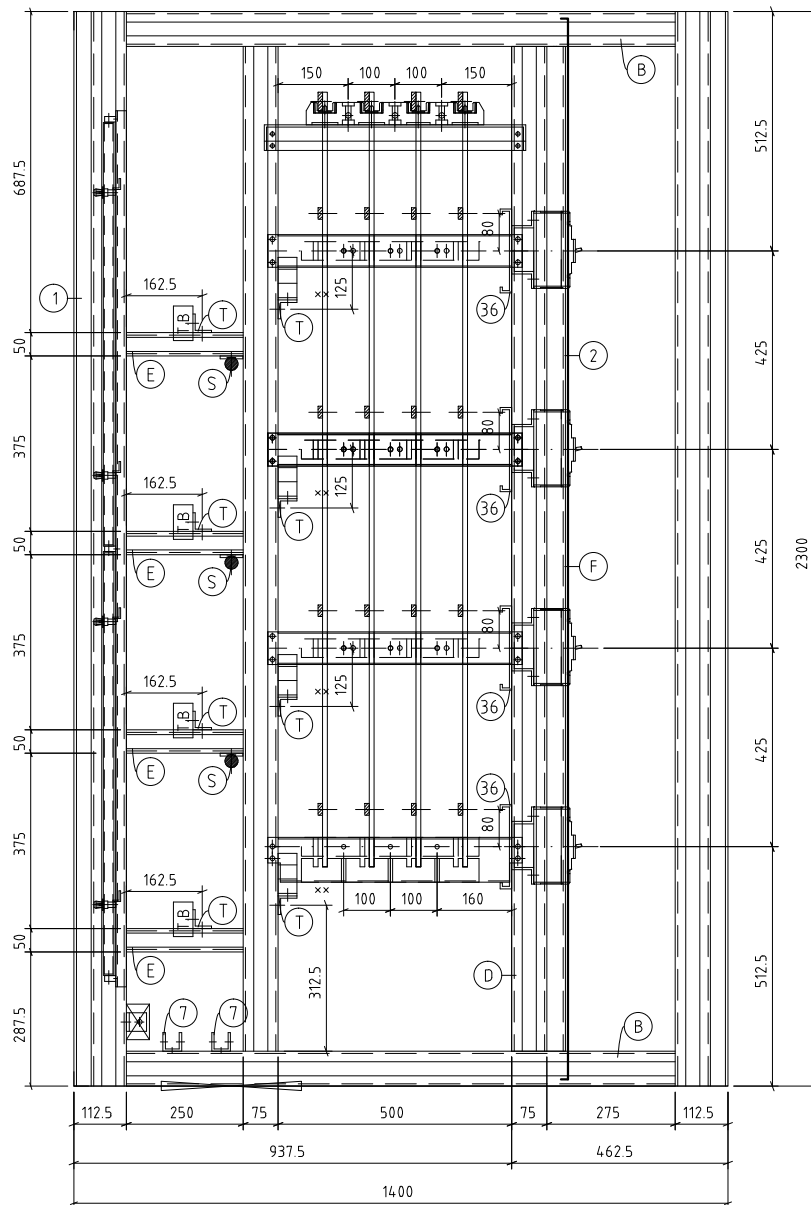
JOB NO. :  
N° DE PROYECTO

DWG. NO. :  
N° DEL DIBUJO

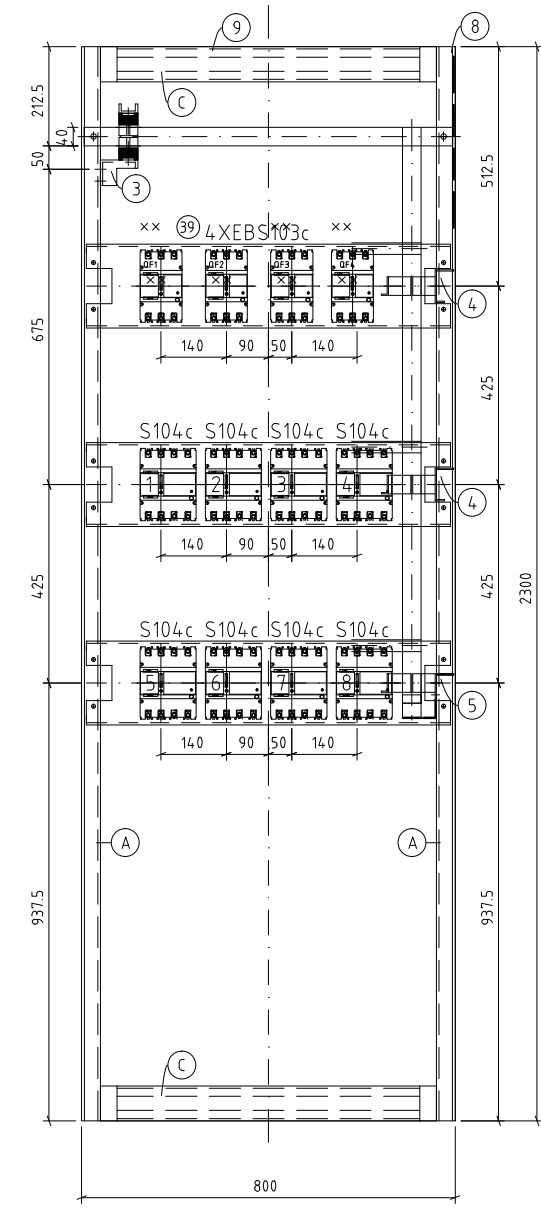
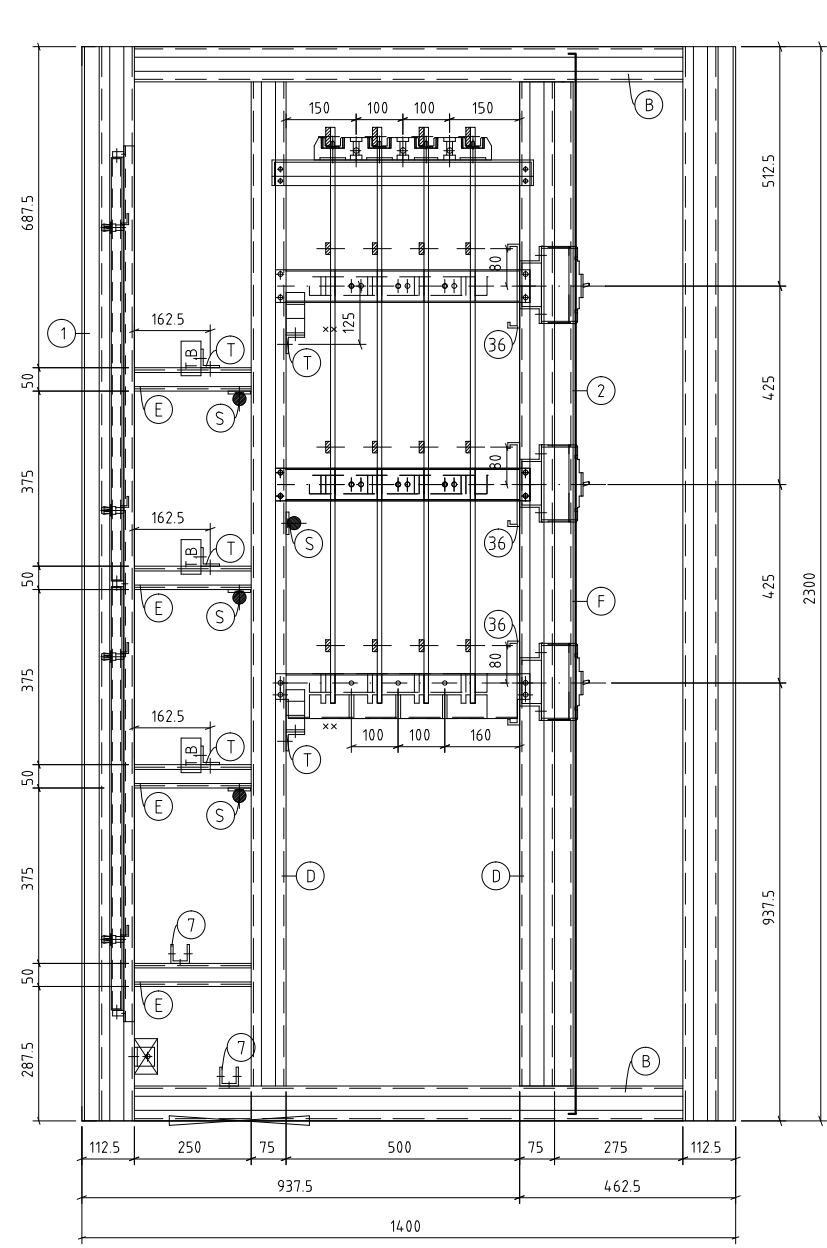
DWG. NO.  
N.º DEL DIBUJO

(T:20) U30-PDB501E01 PNL

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REV.NO. N° REV	DATE FECHA	DESCRIPTION DESCRIPCION	DRN ELABORADO	CHECKED VERIFICADO	APPROVED APROBADO
OWNER : PROPIETARIO:		 YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			
<div>LS Industrial Systems</div>					
PROJECT : PROYECTO:		PROYECTO DE AMONIACO/UREA DE YPFB			
JOB NO. N° DE PROYECTO		DWG. TITLE:			
		DWG.NO. : N° DEL DIBUJO:			



(T:20) U30-PDB501E02 PNL (5)

REV.	DATE	DESCRIPTION	DRN	CHECKED	APPROVED
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OWNER : YPFB YACIENTOS PETROLIFEROS FISCALES BOLIVIANOS

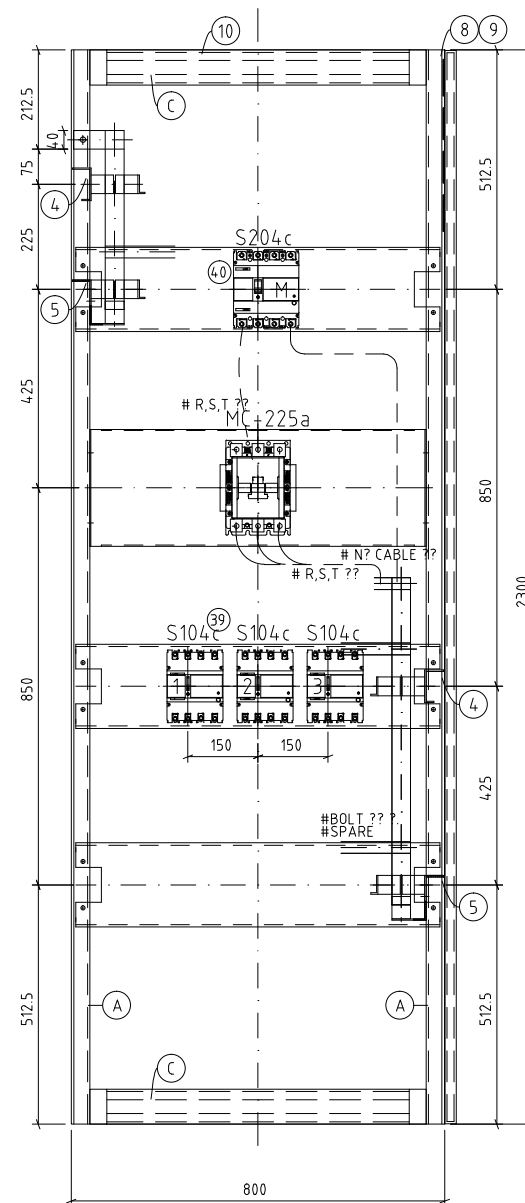
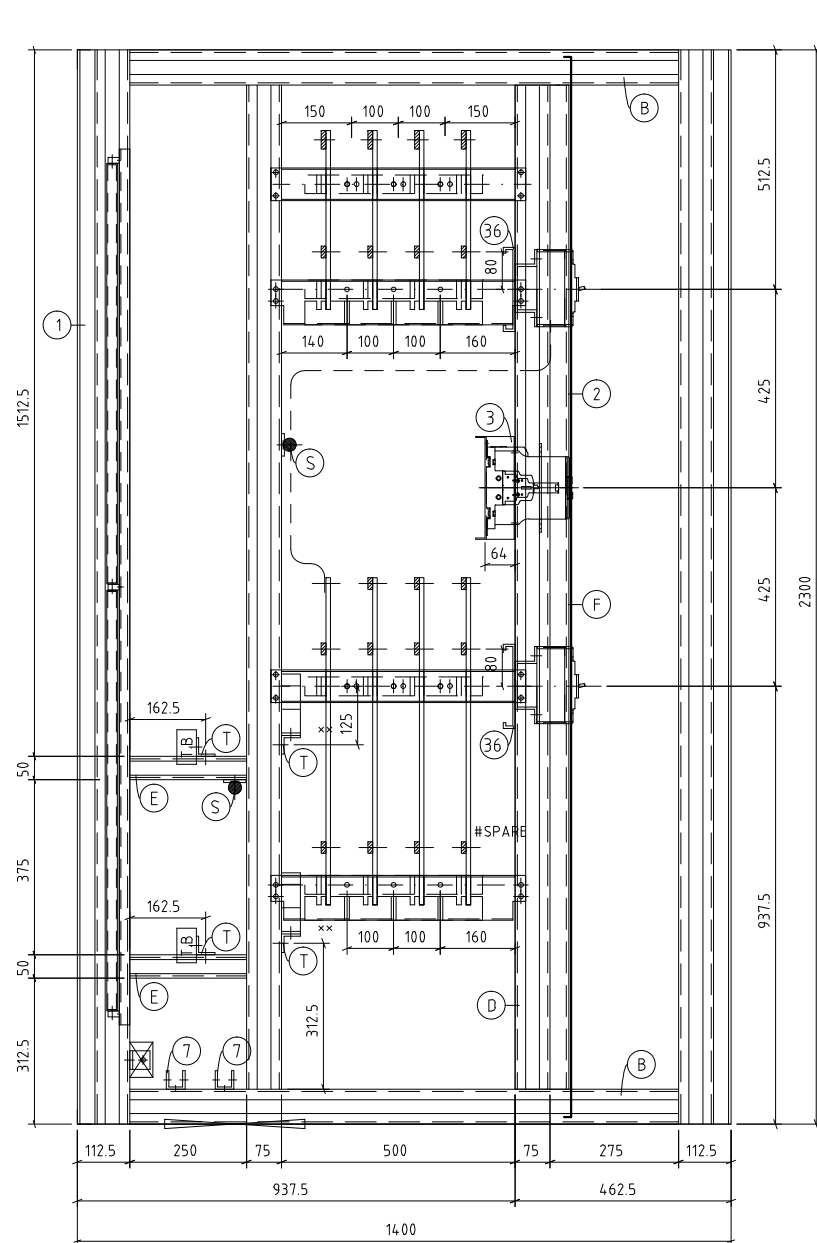
PROJECT : PROYECTO DE AMONIACO/UREA DE YPFB

JOB NO. : DWG. TITLE :

DWG. NO. : N° DEL DIBUJO :



DWG. NO. 6  
DIBUJO N°



(T:20) U30-PDB501E03 PNL 6

REVISOR	FECHA	DESCRIPCION	DIN	CHECKED	APPROVED
PROPIETARIO					
YACIENTOS PETROLIFEROS FISCALES BOLIVIANOS					

**LS Industrial Systems**

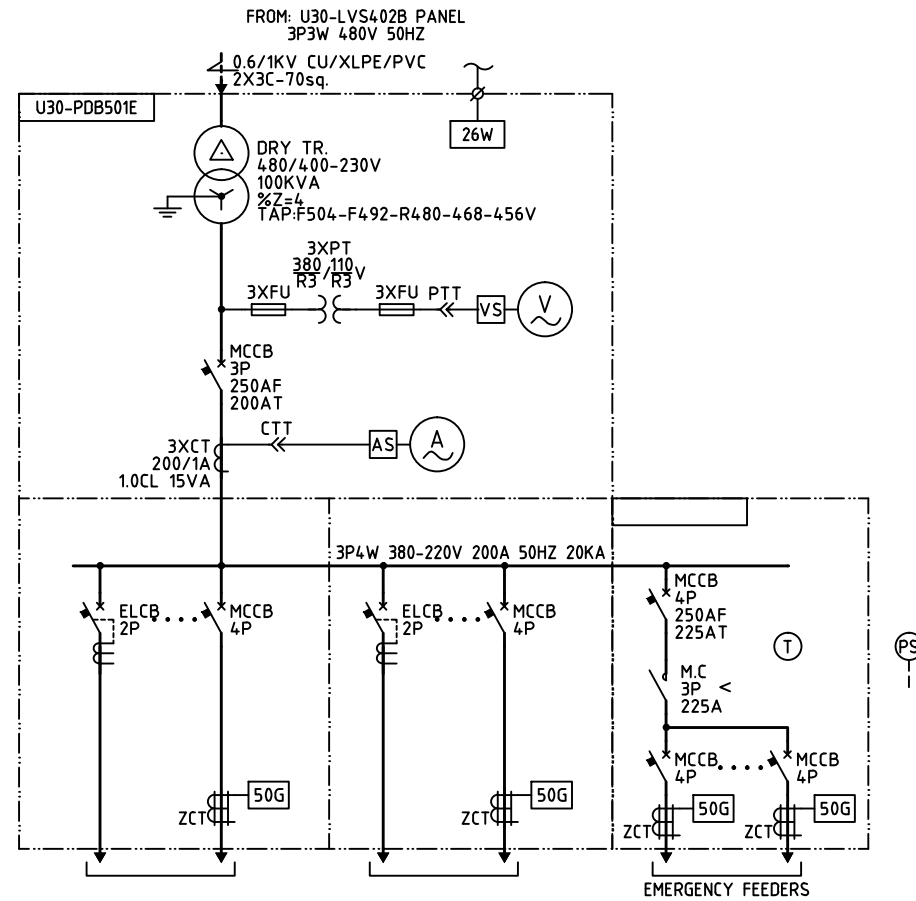
PROJECT :  
PROYECTO: PROYECTO DE AMONIACO/UREA DE YPFB

JOB NO. :  
N° DE PROYECTO

DWG. TITLE:

DWG. NO. :  
N° DEL DIBUJO:

N.º ON  
DWG. 9MD



U30-PDB501E01

ITEM NO.	DESCRIPTION	RATING (KW)	POLE	TYPE	AT	AF
U30-MVS301A	PANEL LTG & SH FOR 6.6KV SWGR-A	1.00	2	ELCB	15	125
U30-MVS301B	PANEL LTG & SH FOR 6.6KV SWGR-B	1.00	2	ELCB	15	125
U30-LVS401A	PANEL LTG & SH FOR 480KV SWGR-A	1.00	2	ELCB	15	125
U30-LVS401B	PANEL LTG & SH FOR 480KV SWGR-B	1.00	2	ELCB	15	125
U30-LVS402A	PANEL LTG & SH FOR 480KV SWGR-A	1.00	2	ELCB	15	125
U30-LVS402B	PANEL LTG & SH FOR 480KV SWGR-B	1.00	2	ELCB	15	125
U30-PMS601	PANEL LTG & SH FOR PMS	1.00	2	ELCB	15	125
U30-UPS601A1	PANEL LTG & SH FOR UPS PANEL	3.20	2	ELCB	30	125
U30-DBC601A	PANEL LTG & SH FOR BATTERY CHARGER	1.50	2	ELCB	30	125
U30-LFCP01	LOCAL FIRE ALARM CONTROL PANEL (UREA SUBSTATION)	1.60	2	ELCB	30	125
			2	ELCB	15	125

FOR GENERAL FEEDERS (EMERGENCY)

			4	MCCB	15	125
			4	MCCB	15	125
			4	MCCB	15	125
			4	MCCB	15	125
	SPARE		4	MCCB	15	125
	SPARE		4	MCCB	30	125

U30-PDB501E02

ITEM NO.	DESCRIPTION	RATING (KW)	POLE	TYPE	AT	AF
	SPARE		2	ELCB	50	125
	SPARE		2	ELCB	30	125
	SPARE		2	ELCB	15	125
	SPARE		2	ELCB	15	125
	LIGHTING PANEL FOR BELT CONVEYOR GALLERY (E.D&N)		4	MCCB	20	125
	LIGHTING PANEL FOR UREA AREA (E.D&N)		4	MCCB	20	125
	LIGHTING PANEL FOR UREA SUBSTATION (E.D&N)		4	MCCB	20	125
	LIGHTING PANEL FOR UREA BULK STORAGE (E.D&N)		4	MCCB	30	125
	LIGHTING PANEL FOR UREA BAGGING HOUSE (E.D&N)		4	MCCB	4.0	125
	SPARE		4	MCCB	4.0	125

FOR DAY & NIGHT LIGHTS (EMERGENCY)

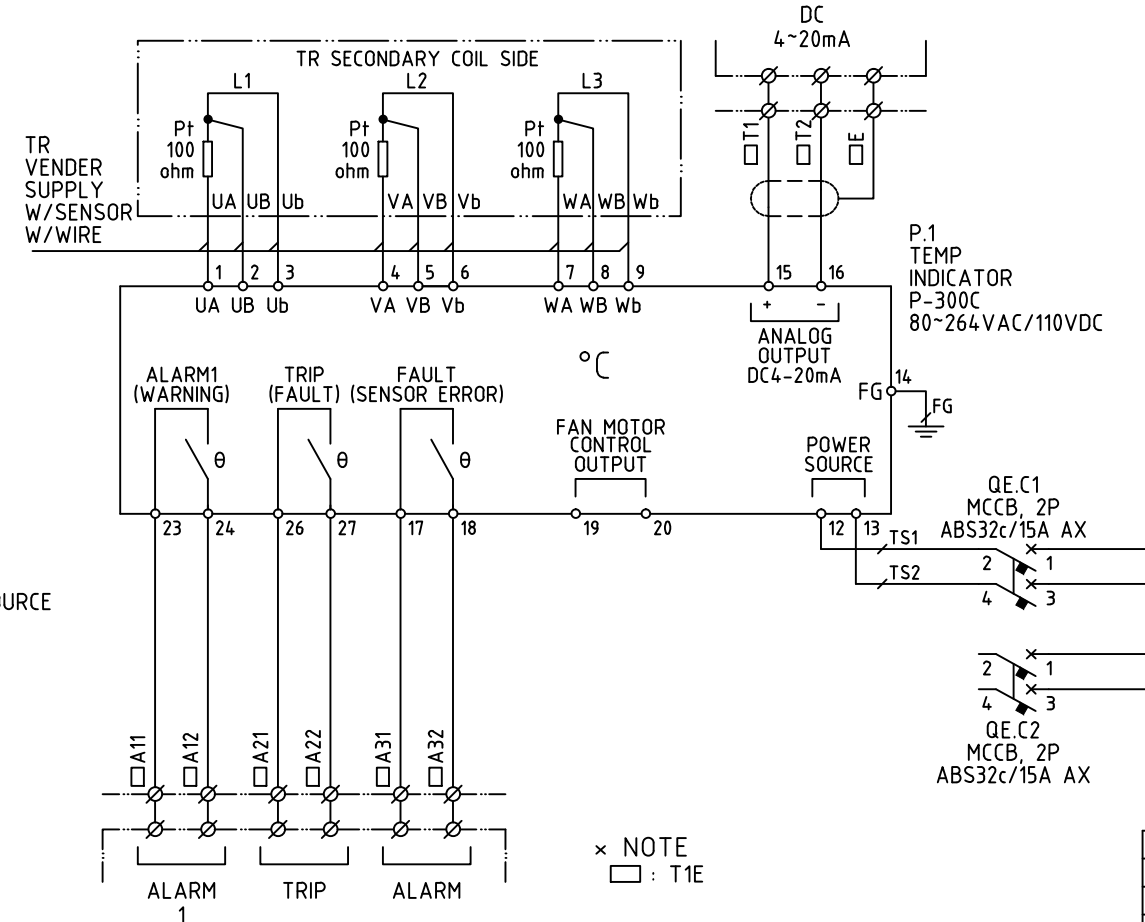
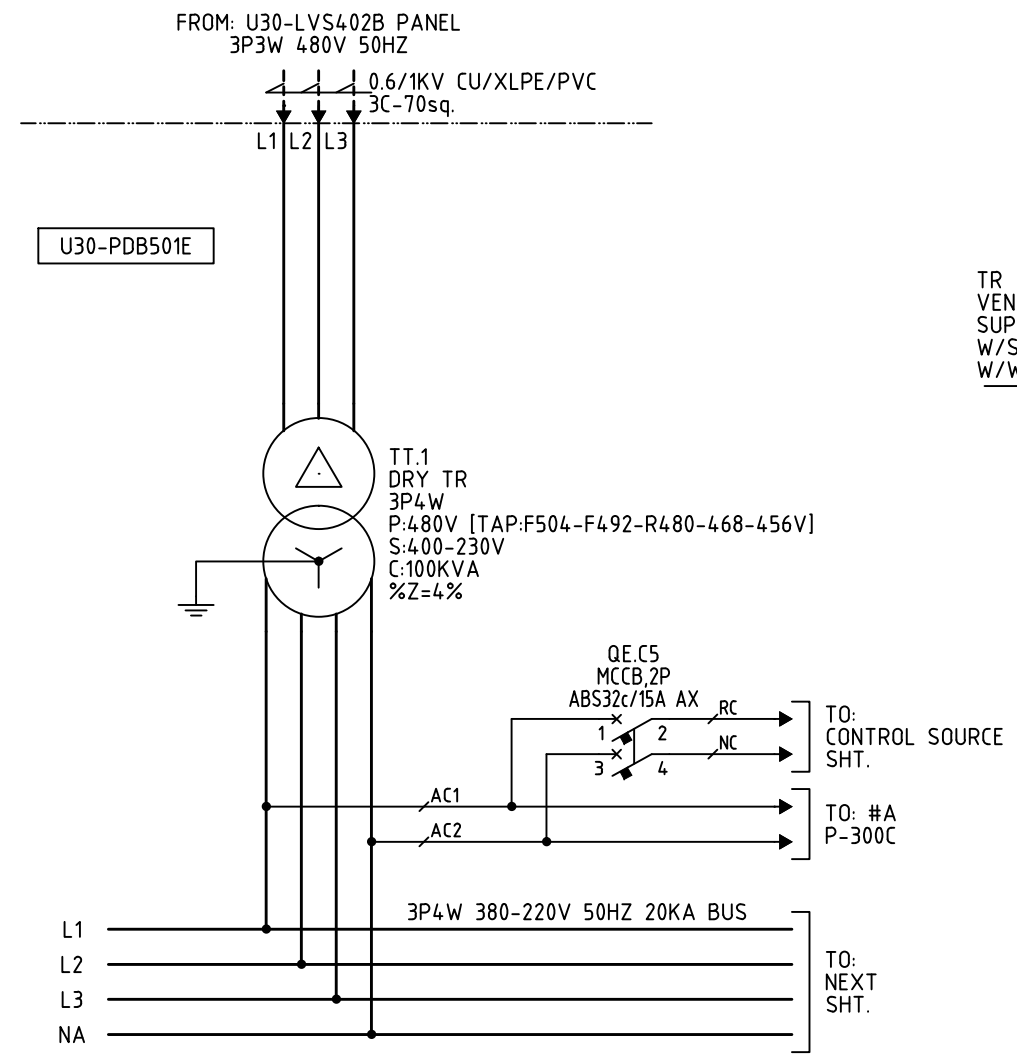
U30-PDB501E03

ITEM NO.	DESCRIPTION	RATING (KW)	POLE	TYPE	AT	AF
U-LNE501	LIGHTING PANEL FOR UREA AREA (E.N)	5.00	4	MCCB	20	125
			4	MCCB	20	125

FOR NIGHT LIGHTS (EMERGENCY)

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REV. NO. N.º DE REV.	DATE FECHA	DESCRIPTION DESCRIPCION	DIN ELABORADO	CHECKED VERIFICADO	APPROVED APROBADO
OWNER : PROPIETARIO:		YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			
<b>LS Industrial Systems</b>					
PROJECT : PROYECTO:					
PROYECTO DE AMONIACO/UREA DE YPFB					
JOB NO. N.º DE PROYECTO		DWG. TITLE:			
		DWG. NO. : N.º DEL DIBUJO:			

IN. 071810  
ON. 9MG



\* Accessory of MCCB

-X : Auxiliary Switch (52AX)

-L : Alarm Switch (52AL)

-S : Shunt Trip Device (52SHT)

MCCB	ON	OFF	TRIP
52AX	AXc1 AXa1 L AXb1	AXc1 AXa1 AXb1	
52AL	ALc1 ALa1 ALb1		ALc1 ALa1 ALb1

H1  
SL  
HEALTHY  
WH  
YSPL3-AL22-W  
30PI, AC220V

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REVNO. N° REV	DATE FECHA	DESCRIPTION DESCRIPCION	DWN ELABORADO	CHECKED VERIFICADO	APPROVED APROBADO
OWNER : PROPIETARIO:		YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			

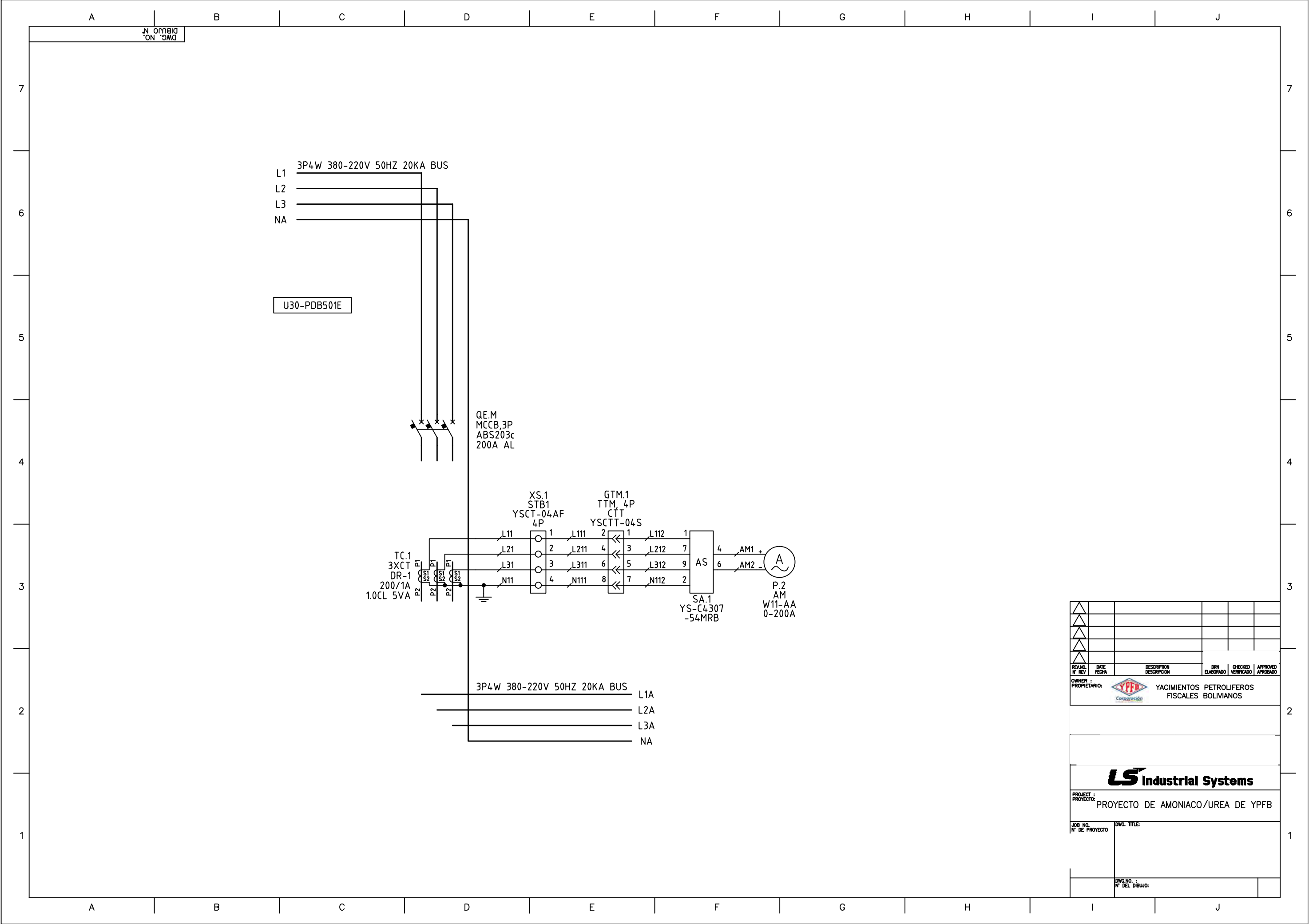
**LS Industrial Systems**

PROJECT :  
PROYECTO: PROYECTO DE AMONIACO/UREA DE YPFB

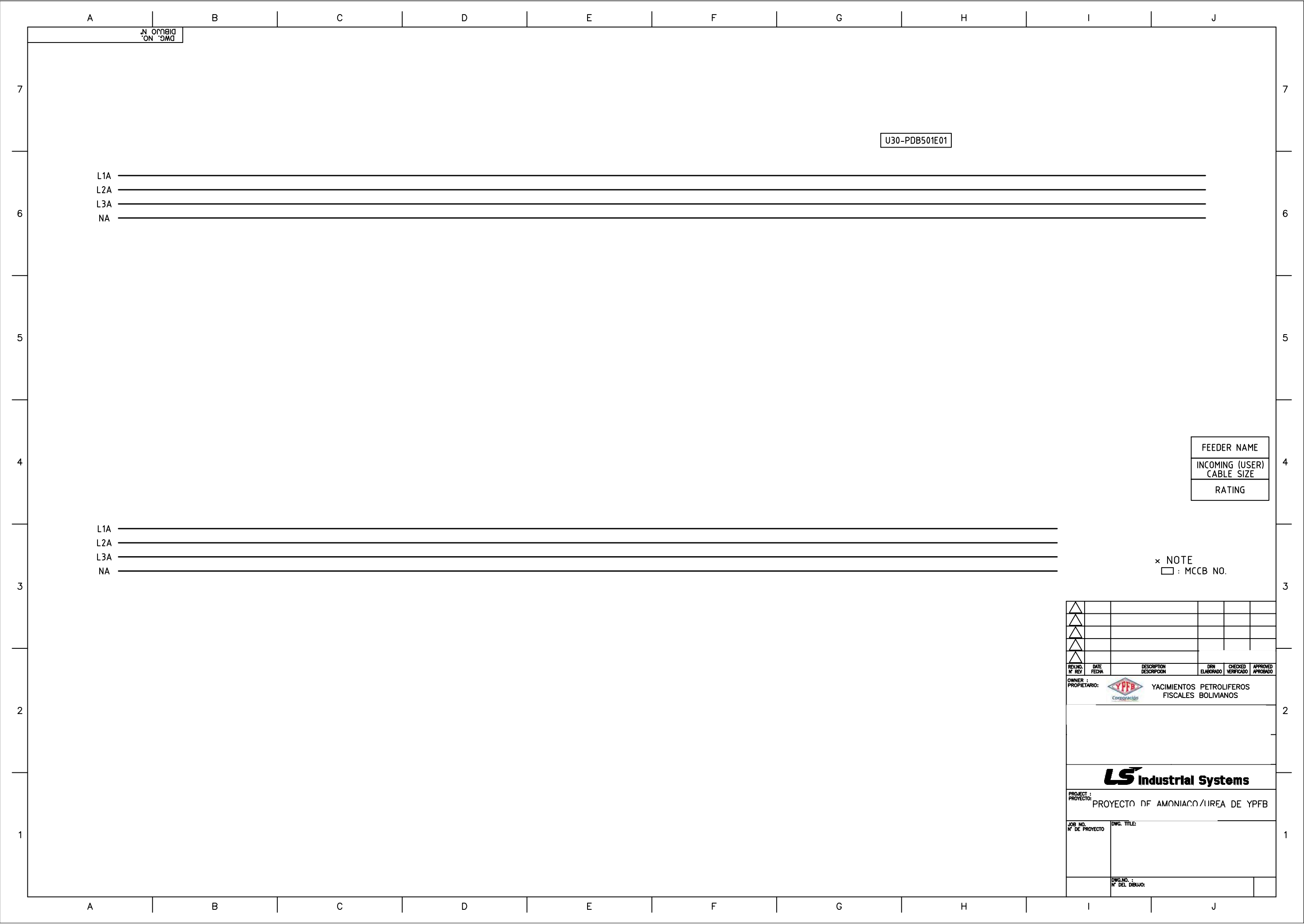
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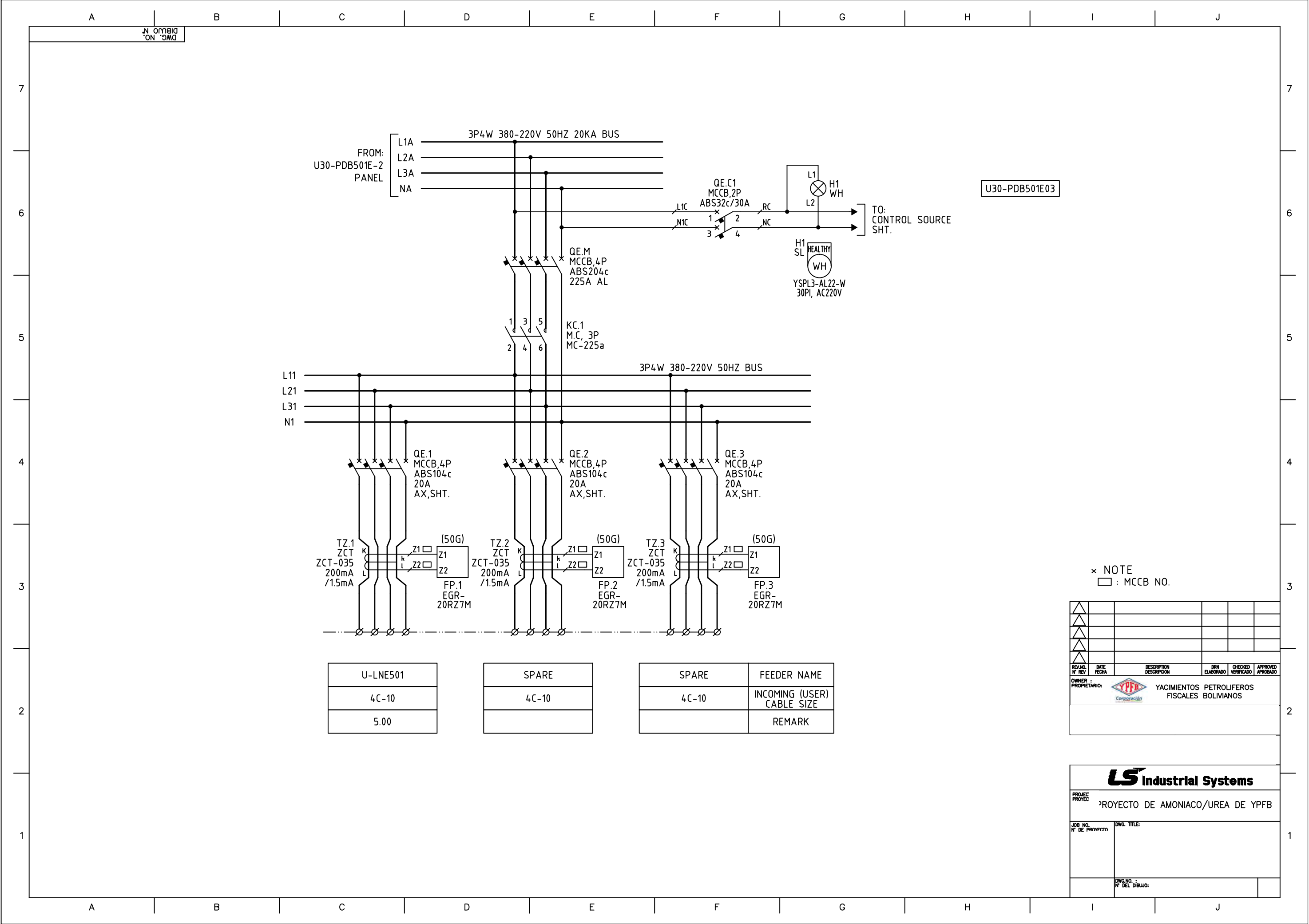
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REV. NO.	DATE	DESCRIPTION	DIN	CHECKED	APPROVED
Nº REV	FECHA	DESCRIPCION	ELABORADO	VERIFICADO	APROBADO
OWNER : PROPIETARIO:		YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			

**LS** Industrial Systems

PROYEC  
PROYEC

PROYECTO DE AMONIACO/UREA DE YPFB

JOB NO.  
Nº DE PROYECTO

DWG. TITLE:

DWG. NO.  
Nº DEL DIBUJO:





A	B	C	D	E	F	G	H	I	J	
<div>DWG. NO. DIBUJO N°</div>										7
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<div><div><div><div><div></div><div></div><div></div><div></div></div><div>PROJECT : PROYECTO:</div></div><div><div><div></div><div></div><div></div><div></div></div><div>JOB NO. N° DE PROYECTO</div></div><div><div><div></div><div></div><div></div><div></div></div><div>DWG. TITLE: N° DEL DIBUJO:</div></div></div><div><div><div></div><div></div><div></div><div></div></div><div>LS Industrial Systems</div></div><div><div><div></div><div></div><div></div><div></div></div><div>PROYECTO DE AMONIACO/UREA DE YPFB</div></div></div>										1
A	B	C	D	E	F	G	H	I	J	

A	B	C	D	E	F	G	H	I	J
7									
6									
5									
4									
3									
2									
1									

REV.NO.  
N° REV

DATE  
FECHA


DESCRIPTION  
DESCRIPCION

DRN  
ELABORADO

CHECKED  
VERIFICADO

APPROVED  
APROBADO

OWNER :  
PROPIETARIO:



YACIMIENTOS PETROLIFEROS  
FISCALES BOLIVIANOS

PROJECT :  
PROYECTO:

PROYECTO DE AMONIACO/UREA DE YPFB

JOB NO.  
N° DE PROYECTO

DWG. TITLE:

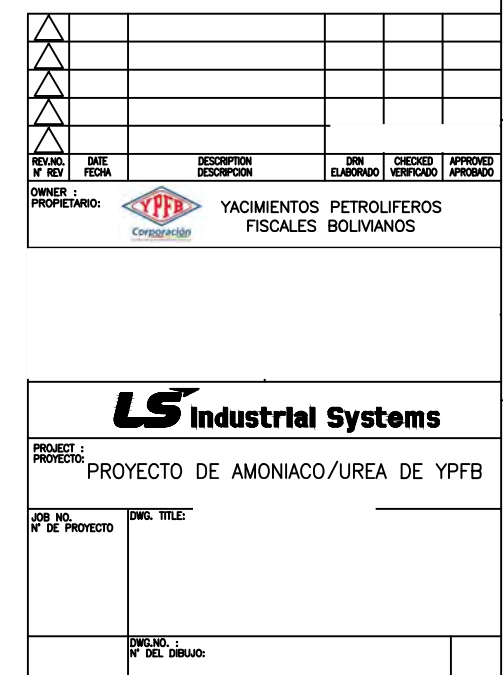
DWG.NO. :  
N° DEL DIBUJO:

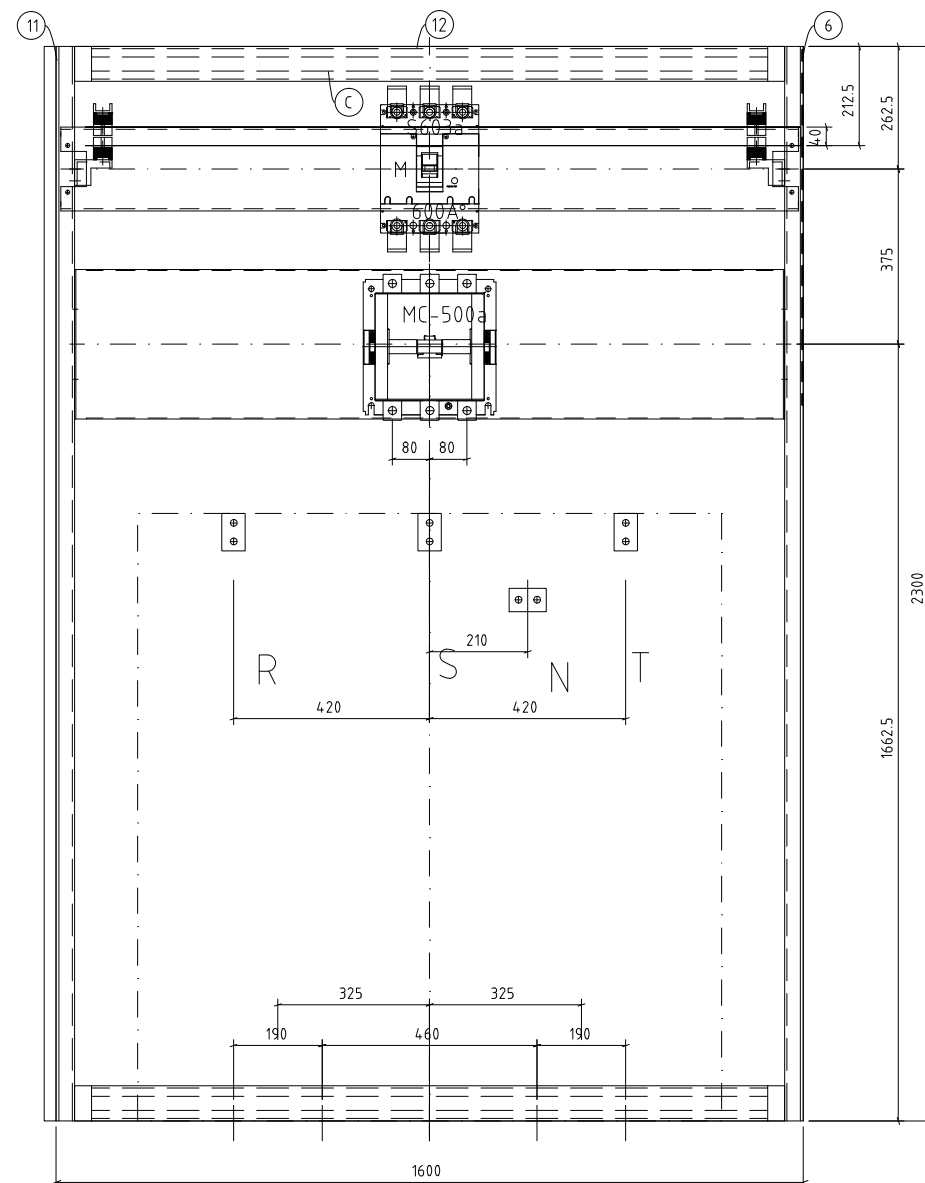
DWG. NO.  
DIBUJO N°






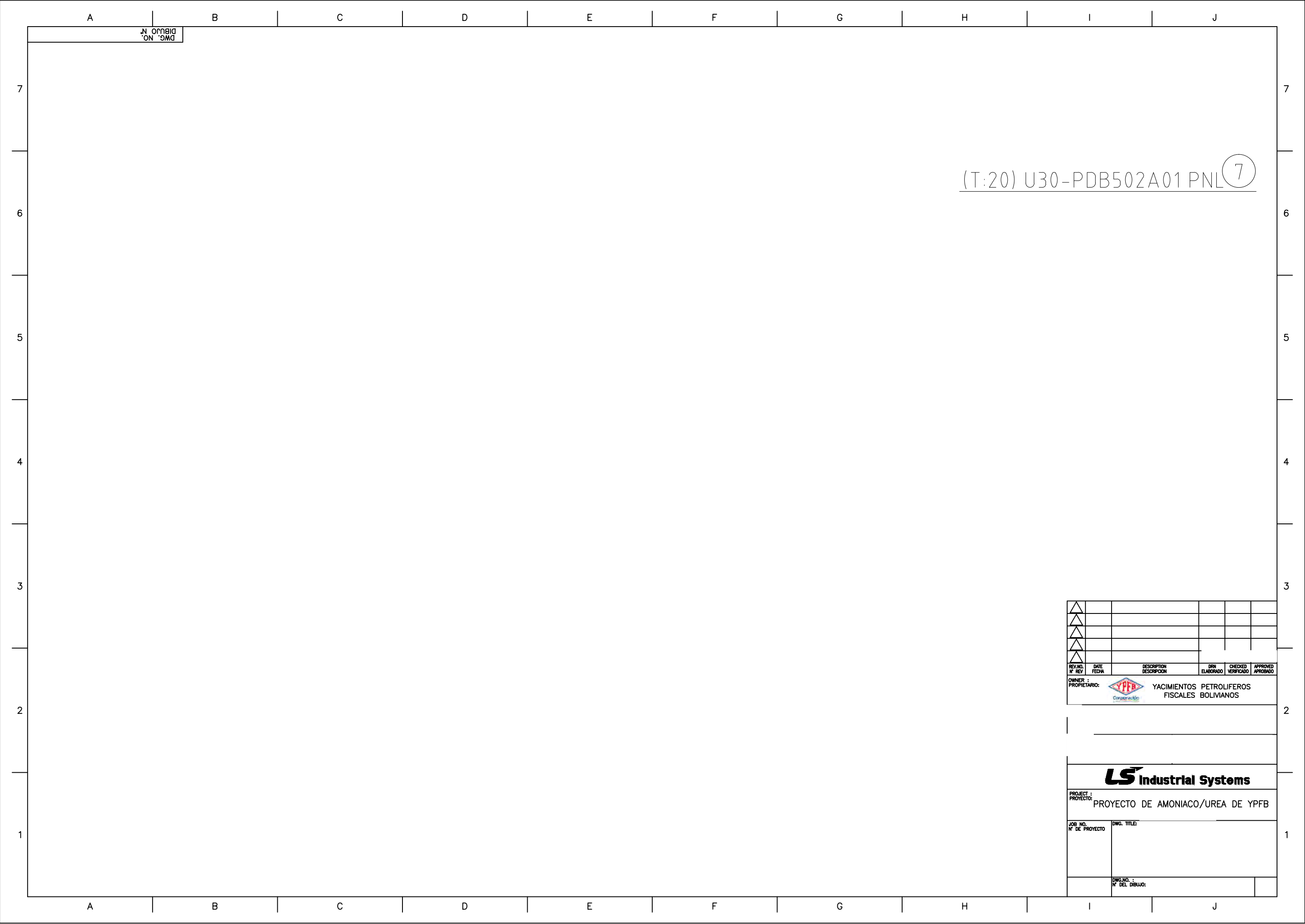






			
PROJECT : PROYECTO :		AMONIACO / UREA DE YPFB	
JOB NO. N° DE ORDEN		DWS. TITLE:  ASS'Y DRAWING	
REVISION REV. -		DWS. NO. : N° DEL DIBUJO:	
		PAU-PEL-C-VDM-60801-GD003	
		SHT NO. 373	

h33d74z0\_09m



DWG. NO.  
DIBUJO N°


(T:20) U30-PDB502A01 PNL 7

REV. NO. N° REV	DATE FECHA	DESCRIPTION DESCRIPCION	DRN ELABORADO	CHECKED VERIFICADO	APPROVED APROBADO
OWNER : PROPIETARIO:		 YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			
<div>LS Industrial Systems</div>					
PROJECT : PROYECTO: PROYECTO DE AMONIACO/UREA DE YPFB					
JOB NO. N° DE PROYECTO		DWG. TITLE:			
DWG. NO. : N° DEL DIBUJO:					



U-WR501/U-WR502		40.00

MCCB	75	125
MCCB	75	125

OWNER :		YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS
PROPIETARIO:		

OWNER :  
PROPIETARIO:



YACIMIENTOS PETROLIFEROS  
FISCALES BOLIVIANOS

**LS Industrial Systems**

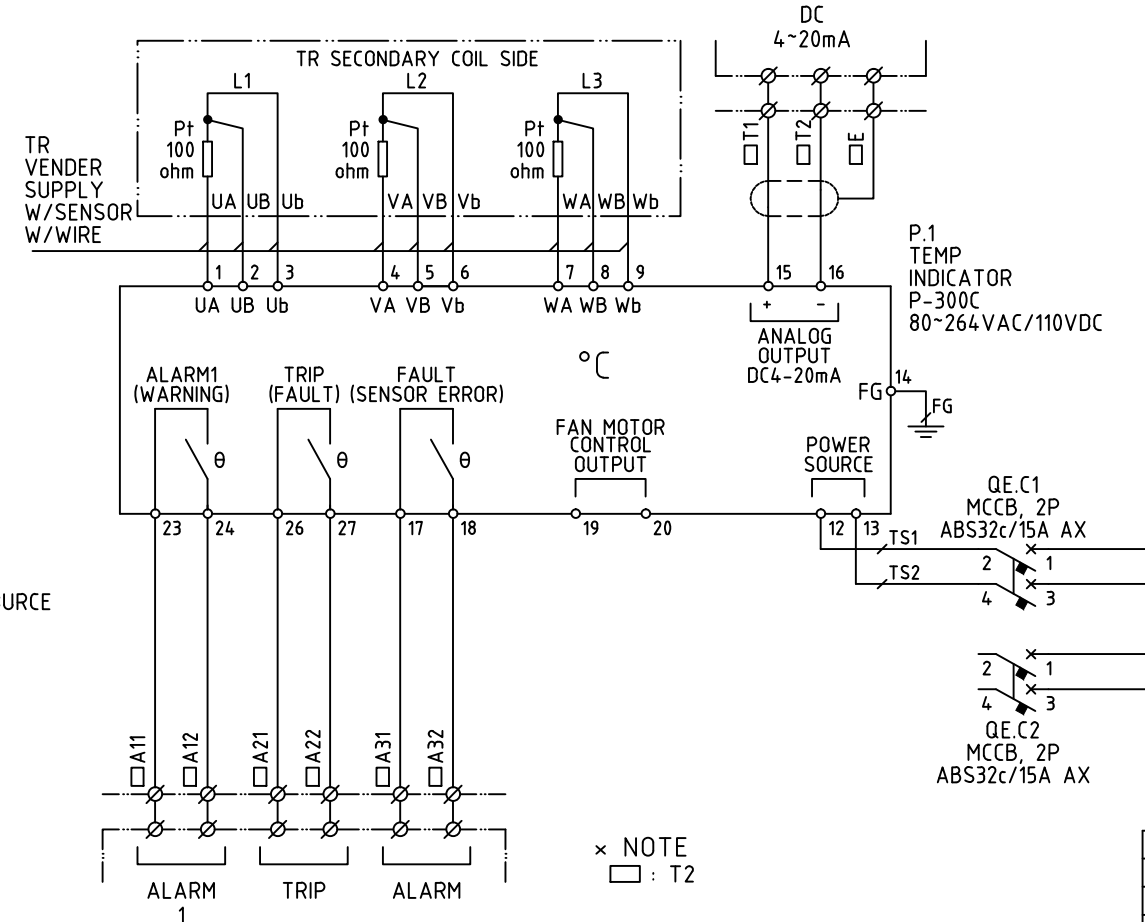
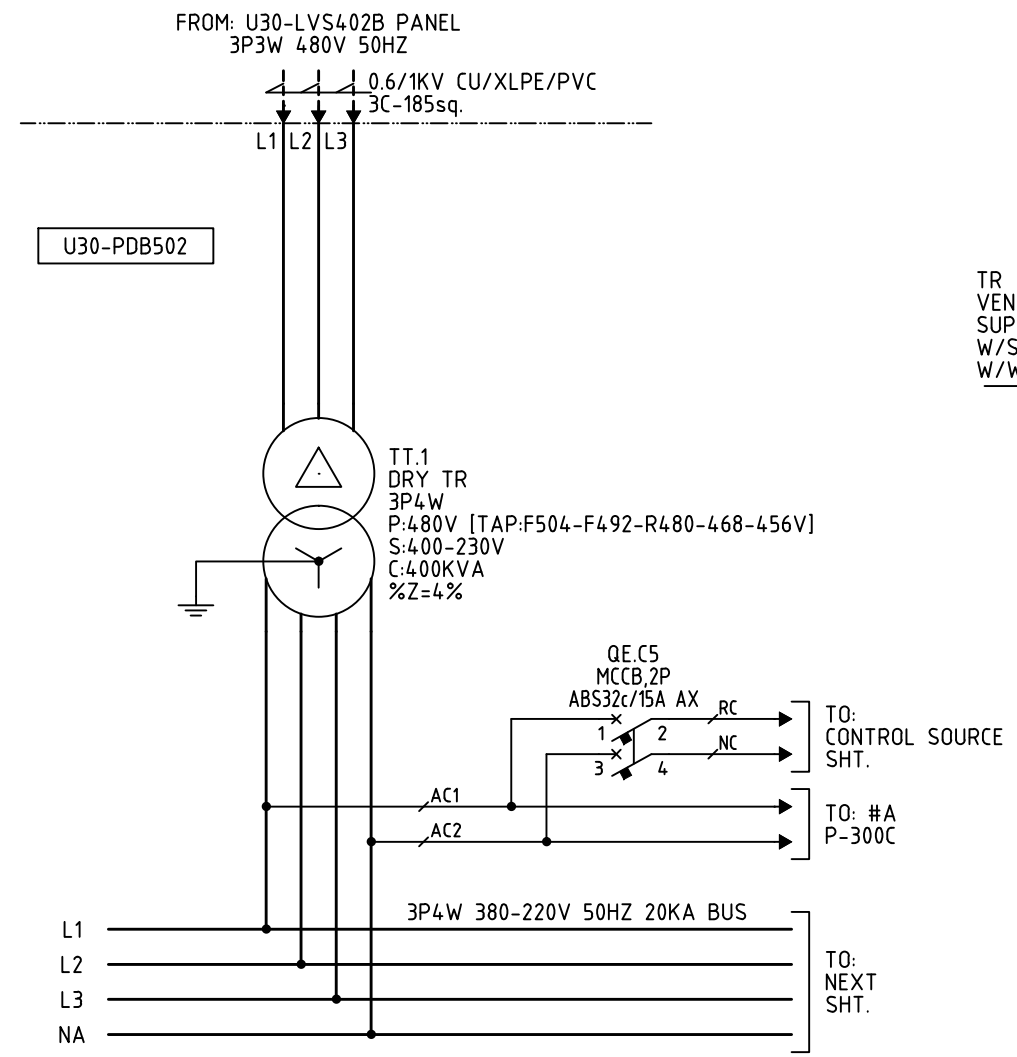
PROJECT : PROYECTO:	PROYECTO DE AMONIACO/UREA DE YPFB
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JOB NO. N° DE PROYECTO	
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DWG. TITLE:

DWG.NO. :	
Nº DEL DIBUJO:	

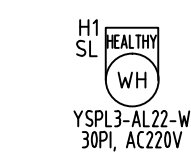
IN. 0701010  
ON. 09010



\* Accessory of MCCB

-X : Auxiliary Switch (52AX)  
-L : Alarm Switch (52AL)  
-S : Shunt Trip Device (52SHT)

MCCB	ON	OFF	TRIP
52AX	AXc1 AXb1	AXc1 AXb1	AXc1 AXb1
52AL	ALc1 ALb1	ALc1 ALb1	ALc1 ALb1

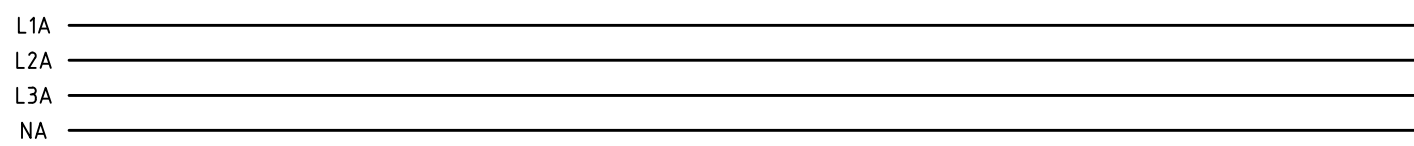


REVISOR	FECHA	DESCRIPCION	DIN	CHECKED	APPROVED
PROPIETARIO					
YPF		YACIMIENTOS PETROLIFEROS FISCALES BOLIVIANOS			
PROJECT : PROYECTO DE AMONIACO/UREA DE YPFB					
JOB NO. N° DE PROYECTO		DWG. TITLE:			
DWG. NO. N° DEL DIBUJO:					














SPARE

FEEDER NAME
INCOMING (USER) CABLE SIZE
RATING

× NOTE  
□ : MCCB NO.

					
					
					
					
					
REV. NO. REV.	DATE FECHA	DESCRIPTION DESCRIPCION	DRN ELABORADO	CHECKED VERIFICADO	APPROVED APROBADO

OWNER :  
PROPIETARIO:  YACIMIENTOS PETROLIFEROS  
FISCALES BOLIVIANOS

**LS Industrial Systems**

PROJECT :  
PROYECTO: PROYECTO DE AMONIACO/UREA DE YPFB

JOB NO. N° DE PROYECTO	DWG. TITLE:
---------------------------	-------------

DWG.NO. :  
N° DEL DIBUJO:







A	B	C	D	E	F	G	H	I	J
									7
									6
									5
									4
									3
									2
									1
A	B	C	D	E	F	G	H	I	J

UREA	S/S	TRP	NAME	PLATE	LIST
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[illegible]

[illegible]

[illegible]



# UREA S/S PDB NAME PLATE LIST

NO	DESCRIPTION				FIG.	Q`TY	SIZE	Hole	Remark
	1	2	3	4					
1		NIGHT LIGHTS EMERGENCY			A	1	NP02	O	Laminated Plastic
2		NIGHT LIGHTS NORMAL			A	1	NP02	O	Laminated Plastic
3		U-GA351A-XM01			A	1	NP02	O	Laminated Plastic
4		U-GA351B-XM01			A	1	NP02	O	Laminated Plastic
5		U-RP501			A	1	NP02	O	Laminated Plastic
6		U-RP502			A	1	NP02	O	Laminated Plastic
7		U30-RP501			A	1	NP02	O	Laminated Plastic
8		M31-RP501			A	1	NP02	O	Laminated Plastic
9		M32-RP501			A	1	NP02	O	Laminated Plastic
10		U30-MVS301A			A	1	NP02	O	Laminated Plastic
11		U30-MVS301B			A	1	NP02	O	Laminated Plastic
12		20-AT-151 20-AT-152			A	1	NP02	O	Laminated Plastic
13		U-LD501			A	1	NP02	O	Laminated Plastic
14		U-LD502			A	1	NP02	O	Laminated Plastic
15		U30-LD501			A	1	NP02	O	Laminated Plastic
16		M31-LD501			A	1	NP02	O	Laminated Plastic
17		M32-LD501			A	1	NP02	O	Laminated Plastic

# UREA S/S PDB NAME PLATE LIST

NO	DESCRIPTION				FIG.	Q`TY	SIZE	Hole	Remark
	1	2	3	4					
18		U-LN501			A	1	NP02	O	Laminated Plastic
19		U-LN502			A	1	NP02	O	Laminated Plastic
20		M-LN501			A	1	NP02	O	Laminated Plastic
21		U30-MVS301A			A	1	NP02	O	Laminated Plastic
22		U30-MVS301B			A	1	NP02	O	Laminated Plastic
23		U30-LVS401A			A	1	NP02	O	Laminated Plastic
24		U30-LVS401B			A	1	NP02	O	Laminated Plastic
25		U30-LVS402A			A	1	NP02	O	Laminated Plastic
26		U30-LVS402B			A	1	NP02	O	Laminated Plastic
27		U30-PMS601			A	1	NP02	O	Laminated Plastic
28		U30-UPS601A1			A	1	NP02	O	Laminated Plastic
29		U30-DBC601A			A	1	NP02	O	Laminated Plastic
30		U30-LFCP01			A	1	NP02	O	Laminated Plastic
31		M32-LFCP01			A	1	NP02	O	Laminated Plastic
32		U30-SWS01			A	1	NP02	O	Laminated Plastic
33		U-CPS501			A	1	NP02	O	Laminated Plastic
34		U-CPS502			A	1	NP02	O	Laminated Plastic

# UREA S/S PDB NAME PLATE LIST

NO	DESCRIPTION				FIG.	Q`TY	SIZE	Hole	Remark
	1	2	3	4					
35		U-CPS503			A	1	NP02	O	Laminated Plastic
36		U-CPS504			A	1	NP02	O	Laminated Plastic
37		U-LDE501			A	1	NP02	O	Laminated Plastic
38		U-LD502			A	1	NP02	O	Laminated Plastic
39		U30-LDE501			A	1	NP02	O	Laminated Plastic
40		M31-LDE501			A	1	NP02	O	Laminated Plastic
41		M32-LDE501			A	1	NP02	O	Laminated Plastic
42		U-LNE501			A	1	NP02	O	Laminated Plastic
43		M-WR501 M-WR502			A	1	NP02	O	Laminated Plastic
44		M-WR503 M-WR504			A	1	NP02	O	Laminated Plastic
45		M-WR505 M-WR506			A	1	NP02	O	Laminated Plastic
46		M-WR507			A	1	NP02	O	Laminated Plastic
47		U-WR501 U-WR502			A	1	NP02	O	Laminated Plastic
48		U-WR503			A	1	NP02	O	Laminated Plastic
49		URSS-30HPP-01			A	1	NP02	O	Laminated Plastic
50		BPB-32-HPP-01			A	1	NP02	O	Laminated Plastic
51		UBS-31-AHU-01			A	1	NP02	O	Laminated Plastic

UREA	S/S	PDB	NAME	PLATE	LIST
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[illegible]

## ※ Name Plate Figure

FIG.A

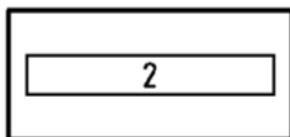


FIG.AA

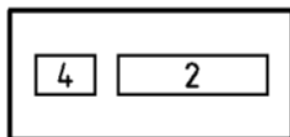


FIG.AB

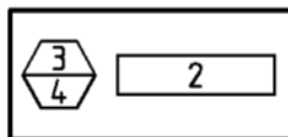


FIG.B

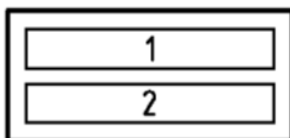


FIG.BB

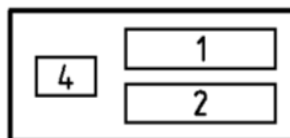


FIG.BC

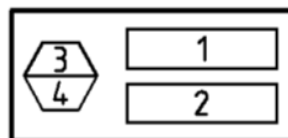


FIG.C

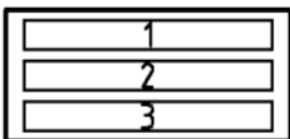


FIG.CC

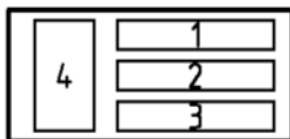


FIG.SA

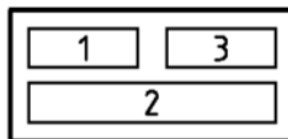


FIG.S(MCC)

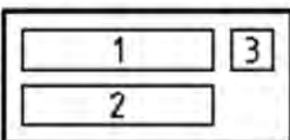


FIG.SS(MCC)

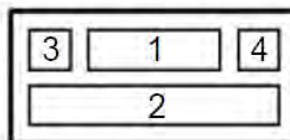


FIG.X

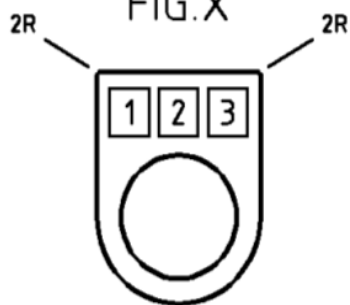


FIG.Z

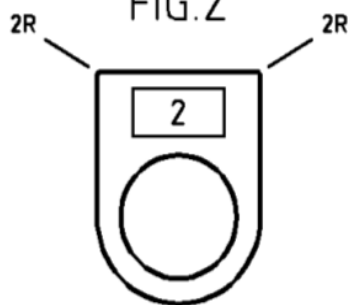
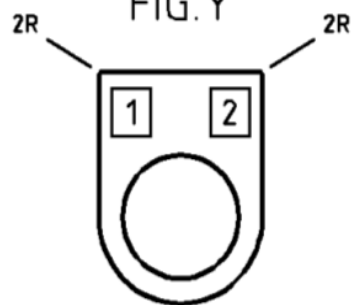


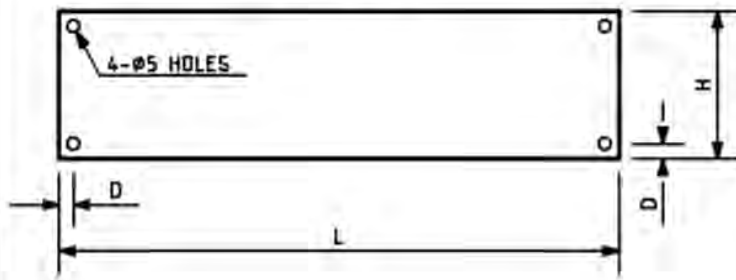
FIG.Y



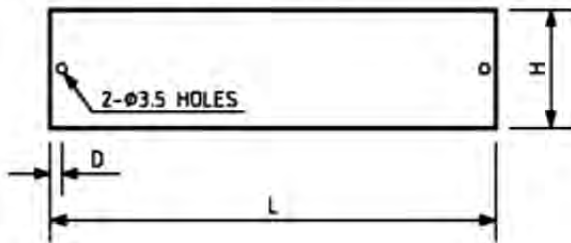
## ※ Name Plate Dimension

	Type	H	L	D	Thickness	Remark
NP53	A	50	315	5	4t	MAIN NP
NP23	B	25	160	3.5	2t	MCC UNIT
NP02	C1	13	40	3	2t	EQUIPMENT
25P	D	42	33	26φ	2t	25φ LAMP
30P	E	53	40	31φ	2t	30φ LAMP

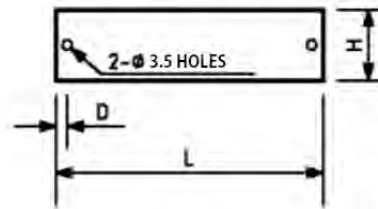
A TYPE



B TYPE

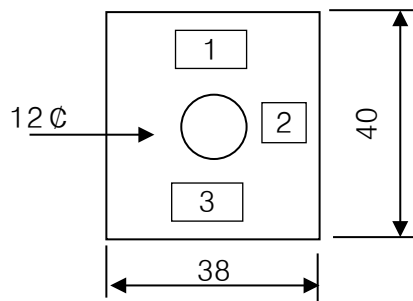
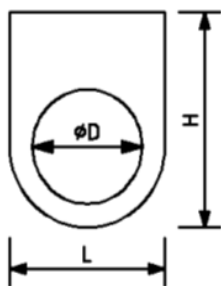


C1 TYPE



**\* T TYPE**

D&E TYPE



**\*For TOGGLE S/W**

#### **IV. BILL OF MATERIAL**

YPFB UREA S/S LV SWGR BOM LIST

			U30-LVS401A	U30-LVS401C	U30-LVS401B	U30-LVS402A	U30-LVS402C	U30-LVS402B	
No.	DESCRIPTION	Qty.	1	2	3	1	2	3	REMARK
1	AH-25E3-00A M1D1D1TC 000U0D (Sys)	4	1		1	1		1	
2	AH-25E4-00A M1D1D1TC 000U0D (Sys)	2		1			1		
3	TOTAL ASS'Y,AL-H06~32E3-AHFS EXP	4	1		1	1		1	
4	TOTAL ASS'Y,AL-H06~32E4-AHFS EXP	2		1			1		
5	CT,DS-5-2,1150V,2500/1A,15VA,1.0CL,50/60HZ,(DEESYS)	12	3		3	3		3	
6	CT,DS-5-2R,720V,2500/1A,5VA,5P20,50/60HZ,(DEESYS)	18	3	3	3	3	3	3	
7	PT,DGP-200,480/R3/110/R3/110/R3V,50/50VA,1.0C/3P,50HZ,(DEESYS)	24	3	6	3	3	6	3	
8	SPD,SB385Y-160R	4	1		1	1		1	
9	TTM,4M300BA,14P,RMS	6	1	1	1	1	1	1	
10	TTM,YSPTT-04C,4P,BODY W/BANGJIN COVER,SUS,BLACK-BROWN-GRAY-BLUE,YONGSUNG ELECTRIC	8	1	2	1	1	2	1	
11	TTM,YSPTT-03C,3P,BODY W/BANGJIN COVER,SUS,BLACK-BROWN-GRAY,YONGSUNG ELECTRIC Co	2		1			1		
12	TTM,YSCTT-04C,4P,BODY W/BANGJIN COVER,SUS,BLACK-BROWN-GRAY-BLUE,YONGSUNG ELECTRIC	4	1		1	1		1	
13	CAM S/W,YS-C7602-5/4MRB,OFF-L1 L2-L2 L3-L3 L1-L1 N-L2 N-L3 N,YONGSUNG ELECTRIC Co	8	1	2	1	1	2	1	
14	VM,W11-VA,0-600V,480/R3/110/R3V,50/60HZ,1.0CL,(DEESYS)	8	1	2	1	1	2	1	
15	CAM S/W,YS-C4307-5/4MRB,OFF-L1-L2-L3,ENGLISH,YONGSUNG ELECTRIC Co	4	1		1	1		1	
16	AM,W11-AA,0-2500A,2500/1A,50/60HZ,1.0CL,(DEESYS)	4	1		1	1		1	
17	ABH104c 50A EXP	4	1		1	1		1	
18	ABS33c 3A AXR-LWT EXP	8	1	2	1	1	2	1	
19	T/B,YSCT-04AFS,4P,YONGSUNG ELECTRIC Co,TROPIC/HUMIDITY	10	2	1	2	2	1	2	
20	ABS32c 5A AXT-LWT EXP	48	4	4	4	4	4	4	



YPFB UREA S/S LV SWGR BOM LIST

			U30-LVS401A	U30-LVS401C	U30-LVS401B	U30-LVS402A	U30-LVS402C	U30-LVS402B	
No.	DESCRIPTION	Qty.	1	2	3	1	2	3	REMARK
21	CAM S/W,YS-C310x-5/4RSB,CLOSE-OPEN,BOLIVIA PJT,YONGSUNG ELECTRIC Co	6	1	1	1	1	1	1	
22	CAM S/W,YS-C2201-5/9MEB,LOCAL-REMOTE,YONGSUNG ELECTRIC Co	6	1	1	1	1	1	1	
23	RES,RESISTOR,5W,22 KOHM	6	1	1	1	1	1	1	
24	MR-8 DC110V 4a4b (Metasol) EXP	6	1	1	1	1	1	1	
25	MR-4 DC110V 2a2b (Metasol) EXP	20	3	4	3	3	4	3	
26	MR-4 DC110V 4a (Metasol) EXP	20	3	4	3	3	4	3	
27	MR-4 DC110V 3a1b (Metasol) EXP	6	1	1	1	1	1	1	
28	TIMER,AT8N,AC100-240V 50/60HZ DC24-240V 0.05S-100HR,AUTONICS	6	1	1	1	1	1	1	
29	SOCKET,PS-08,8PIN,AUTONICS	6	1	1	1	1	1	1	
30	LAMP,SIGNAL LAMP,YSPL3-DL11-G,DC110V,GREEN,LED,YONGSUNG ELECTRIC Co	6	1	1	1	1	1	1	
31	LAMP,SIGNAL LAMP,YSPL3-DL11-R,DC110V,RED,YONGSUNG ELECTRIC Co	6	1	1	1	1	1	1	
32	LAMP,SIGNAL LAMP,YSPL3-DL11-Y,DC110V,YELLOW,YONGSUNG ELECTRIC Co	6	1	1	1	1	1	1	
33	LAMP,SIGNAL LAMP,YSPL3-DL11-W,DC110V,WHITE,LED,YONGSUNG ELECTRIC Co	6	1	1	1	1	1	1	
34	MR-4 DC110V 4b (Metasol) EXP	6	1	1	1	1	1	1	
35	LOR,CHR10L-RK6056/D110/M120/G321,6NO+6NC,KUMSAN M&E Co.	4	1		1	1		1	
36	CAM S/W,YS-C2201-5/9MEB,MANU-AUTO,YONGSUNG ELECTRIC Co	2		1			1		
37	CAM S/W,YS-C3301-5/4MEB,TRIP(A)C-B-TRIP(C)A-C-TRIP(B)A-C,YONGSUNG ELECTRIC Co	2		1			1		
38	LOR,CH10L-RK6053/D110/M120/G321,AC/DC110-125V,50/60HZ,5NO+3NC,KUMSAN M&E Co.	2		1			1		
39	ABS52c 30A EXP	4	1		1	1		1	
40	ABS52c 15A EXP	10	2	1	2	2	1	2	

YPFB UREA S/S LV SWGR BOM LIST

			U30-LVS401A	U30-LVS401C	U30-LVS401B	U30-LVS402A	U30-LVS402C	U30-LVS402B	
No.	DESCRIPTION	Qty.	1	2	3	1	2	3	REMARK
41	FL,FL SET,DL-10WC-B4R22,AC220V,50/60HZ,10W	12	2	2	2	2	2	2	
42	RECEPTACLE,5726 23,2P,VIEW-GROUND,ANAM LEGRAND	6	1	1	1	1	1	1	
43	HY-ST,H615A,30-80%RH	6	1	1	1	1	1	1	
44	SPACE HEATER,AC220V,80W	6	1	1	1	1	1	1	
45	HANDLE ASS'Y,DRAW,LONG,AL-D,E,F,G	6	1	1	1	1	1	1	
46	INTERLOCK ASS'Y,DOOR,AN,AS,AH-D,E,F,G	6	1	1	1	1	1	1	
47	TOTAL ASS'Y,CELL SWITCH,4C_LEFT_WITH COVER,AN,AS,AH	6	1	1	1	1	1	1	
48	MR-6 DC110V 6a (Metasol) EXP	2		2					
49	MR-8 DC110V 8a (Metasol) EXP	2		2					
50	OCR,REF620 NBF NAAAANDA 1BNN1XF,1/5A,50/60HZ,ABB	6	1	1	1	1	1	1	
51	UVR,REU610CVVHCNR,AC110V,50/60HZ,ABB (KOREA)	2		1			1		

YPFB UREA S/S MCC BOM LIST

YPFB UREA S/S MCC BOM LIST			
No.	DESCRIPTION	Qty.	Remark
1	CLIP,1'RY 3P 250A,SOLUTION MCC,MC0107-1	135	
2	CLIP,2'RY 3P 250A,SOLUTION MCC,MC0110-2	143	
3	CLIP,2'RY FIXED 3P 250A,SOLUTION MCC,MC0111-2	143	
4	CLIP,1'RY 4P 250A,SOLUTION MCC,MC0117	60	
5	CLIP,2'RY 4P 250A,SOLUTION MCC,MC0121	52	
6	CLIP,2'RY FIXED 4P 250A,SOLUTION MCC,MC0114	52	
7	CLIP,1/2'RY 3P 630A,SOLUTION MCC,MC0109	6	
8	CLIP,2'RY FIXED 3P 630A,SOLUTION MCC,MC0113	3	
9	OCR,EOCR-IFMZ-H1AUW,10-120A,W/CT 100/5A,50/60HZ,AC/DC100-240V,SAMWHA EOCR	32	
10	OCR,EOCR-IFMZ-H2AUW,20-240A,50/60HZ,AC/DC100-240V,WITH CT 200/5A,SAMWHA EOCR	13	
11	OCR,EOCR-IFMZ-HHAUW,15-180A,50/60HZ,AC/DC100-240V,WITH CT 150/5A,SAMWHA EOCR	8	
12	OCR,EOCR-IFMZ-WRAUH,0.5-60A,50/60HZ,AC/DC100-240V,SAMWHA EOCR	79	
13	GFR,EGR-20 RZ7M,500-2500MA,AC/DC85-250V,SAMWHA EOCR	59	
14	ZCT,ZCT-35,200MA/1.5MA,50/60HZ,ENGLISH,TROPIC/HUMIDITY,SAMWHA ENG.	158	
15	ZCT,ZCT-80,200MA/1.5MA,50/60HZ,ENGLISH,TROPIC/HUMIDITY,SAMWHA ENG.	29	
16	ZCT,ZCT-120,200MA/1.5MA,50/60HZ,ENGLISH,TROPIC/HUMIDITY,SAMWHA ENG.	5	
17	OCR,CABLE-RJ45-01H,1.5M,SAMWHA EOCR	102	
18	OCR,CABLE-RJ45-002,2M,SAMWHA EOCR	30	
19	TR,DRY,1PI,480/120V,50HZ,75VA,H JONG,DAEHEUNG ELEC.	160	
20	TR(POWER),DRY,1PI,277/120V,50HZ,75VA,H JONG,ENGLISH,TROPIC/HUMIDITY,DAEHEUNG ELEC. Ind.	6	

YPFB UREA S/S MCC BOM LIST

YPFB UREA S/S MCC BOM LIST			
No.	DESCRIPTION	Qty.	Remark
21	TR, DRY, 1PI, 480/120V, 50HZ, 150VA, H JONG, DAEHEUNG ELEC.	5	
22	TR, DRY, 1PI, 480/120V, 50HZ, 50VA, H JONG, DAEHEUNG ELEC.	18	
23	TR, DRY, 1PI, 480/120V, 50HZ, 1KVA, H JONG, DAEHEUNG ELEC.	3	
24	TR, DRY, 1PI, 480/120V, 50HZ, 100VA, H JONG, DAEHEUNG ELEC.	6	
25	TD100H FMU100 16A 3P	34	
26	TD100H FMU100 20A 3P	11	
27	TD100H FMU100 32A 3P	14	
28	TS100H FMU100 100A 3P	25	
29	TS100H FMU100 40A 3P	2	
30	TS100H FMU100 40A 4P3D R	32	
31	TS100H FMU100 50A 3P	24	
32	TS100H FMU100 50A 4P3D R	1	
33	TS100H FMU100 100A 4P3D R	8	
34	TS100H FMU100 80A 3P	5	
35	TS100H FMU100 80A 4P3D R	2	
36	TS250H FMU250 160A 3P	12	
37	TS250H FMU250 160A 4P3D R	6	
38	TS250H FMU250 200A 3P	2	
39	TS250H FMU250 250A 3P	23	
40	TS250H FMU250 250A 4P3D R	5	
41	TS630H FMU630 500A 3P	1	

YPFB UREA S/S MCC BOM LIST

No.	DESCRIPTION	Qty.	Remark
42	TS630H FMU630 630A 3P	2	
43	A,AX,LWT,TD160~TS800	207	
44	A,AL,TD160~TS800	195	
45	T,SHT,LWT,AC/DC110~130V,TD160~TS800-LW	195	
46	AM,W8-AA,0-15-45A	25	
47	AM,W8-AA,0-100-300A	1	
48	AM,W8-AA,0-200-600A	2	
49	AM,W8-AA,0-20-60A	1	
50	AM,W8-AA,0-30-90A,30/1A,50/60HZ,1.0CL,ENGLISH,TROPIC/HUMIDITY,(DEESYS)	7	
51	AM,W8-AA,0-50-150A	4	
52	AM,W8-AA,0-500-1500A	1	
53	AM,W8-AA,0-250-750A	5	
54	AM,W8-AA,0-600-1800A	2	
55	AM,W8-AA,0-40-120A	3	
56	AM,W8-AA,0-150-450A,150/1A,50/60HZ,1.0CL,ENGLISH,TROPIC/HUMIDITY,(DEESYS)	10	
57	AM,W8-AA,0-75-225A	2	
58	CT,DR-1,1150V,10/1A,5VA,1.0CL,50/60HZ,ENGLISH,TROPIC/HUMIDITY	2	
59	CT,DR-1,15/1A,5VA,1.0CL,50/60HZ,ENGLISH,TROPIC/HUMIDITY,(DEESYS)	30	
60	CT,DR-1,1150V,150/1A,5VA,1.0CL,50/60HZ,ENGLISH,TROPIC/HUMIDITY,(DEESYS)	10	
61	CT,DR-1,1150V,20/1A,5VA,1.0CL,50/60HZ,ENGLISH,TROPIC/HUMIDITY,(DEESYS)	1	
62	CT,DR-1,1150V,200/1A,5VA,1.0CL,50/60HZ,ENGLISH,TROPIC/HUMIDITY,(DEESYS)	2	
63	CT,DR-2,1150V,250/1A,5VA,1.0CL,50/60HZ,ENGLISH,TROPIC/HUMIDITY,(DEESYS)	5	

YPFB UREA S/S MCC BOM LIST

YPFB UREA S/S MCC BOM LIST			
No.	DESCRIPTION	Qty.	Remark
64	CT,DR-1,1150V,30/1A,5VA,1.0CL,50/60HZ,ENGLISH,TROPIC/HUMIDITY,(DEESYS)	9	
65	CT,DR-1,1150V,40/1A,5VA,1.0CL,50/60HZ,ENGLISH,TROPIC/HUMIDITY,(DEESYS)	3	
66	CT,DR-1,1150V,50/1A,5VA,1.0CL,50/60HZ,ENGLISH,TROPIC/HUMIDITY,(DEESYS)	4	
67	CT,DR-1,1150V,75/1A,5VA,1.0CL,50/60HZ,ENGLISH,TROPIC/HUMIDITY,(DEESYS)	2	
68	CT,DR-1,1150V,100/1A,5VA,1.0CL,50/60HZ,ENGLISH,TROPIC/HUMIDITY,(DEESYS)	1	
69	CT,DS-2,1150V,500/1A,15VA,1.0CL,50/60HZ,ENGLISH,TROPIC/HUMIDITY,(DEESYS)	1	
70	CT,DS-2,1150V,600/1A,15VA,1.0CL,50/60HZ,ENGLISH,TROPIC/HUMIDITY,(DEESYS)	2	
71	MC-100a AC120V 50/60Hz SCREW 2a2b (Metasol) EXP	9	
72	MC-130a AC110~120V 50/60Hz SCREW 2a2b (Metasol) EXP	2	
73	MC-150a AC110~120V 50/60Hz SCREW 2a2b (Metasol) EXP	13	
74	MC-185a AC100-240V 50/60Hz, DC100-220V 2a2b (Metasol) EXP	6	
75	MC-265a AC 100-240V 50/60Hz, DC100-220V 2a2b (Metasol) EXP	5	
76	MC-22b AC120V 50/60Hz 2a2b SCREW (Metasol) EXP	98	
77	MC-32a AC120V 50/60Hz SCREW 2a2b (Metasol) EXP	19	
78	MC-40a AC120V 50/60Hz SCREW 2a2b (Metasol) EXP	5	
79	MC-50a AC120V 50/60Hz SCREW 2a2b (Metasol) EXP	15	
80	MC-65a AC120V 50/60Hz SCREW 2a2b (Metasol) EXP	12	
81	MC-75a AC120V 50/60Hz SCREW 2a2b (Metasol) EXP	2	
82	MC-85a AC120V 50/60Hz SCREW 2a2b (Metasol) EXP	7	
83	ZCT,DZS-A210,200MA/1.5MA,50/60HZ,SQUARE TYPE,ENGLISH,TROPIC/HUMIDITY,(DEESYS)	3	
84	T/D,A T/D,DT-1A-B1A,1A,50/60HZ,DC4-20MA,AC120V,ENGLISH,TROPIC/HUMIDITY,DAEJOO TD SYSTEM	4	
85	MR-4 AC120V 50/60Hz 2a2b (Metasol) EXP	427	

YPFB UREA S/S MCC BOM LIST

YPFB UREA S/S MCC BOM LIST			
No.	DESCRIPTION	Qty.	Remark
86	MR-4 AC120V 50/60Hz 3a1b (Metasol) EXP	115	
87	MR-6 AC120V 50/60Hz 3a3b (Metasol) EXP	142	
88	MR-6 AC120V 50/60Hz 4a2b (Metasol) EXP	27	
89	TIMER,H3CR-A8,AC100~240V/DC100~125V 0.05~100HOUR,OMRON	27	
90	TIMER,H3CR-H8L,OFF DELAY,OMRON	27	
91	SOCKET,P2CF-08,8PIN,OMRON	54	
92	CLIP,3'RY MOVING/FIXED 24P 10A,SOLUTION MCC,MC0106-3	327	
93	CLIP,CONTROL BUS 4P 2SQ,SOLUTION MCC,MC0105	195	
94	PUSH BUTTON W/LAMP,YSNPBL2-AL12G,25P,AC120V,GREEN,LED,1A1B,ENGLISH,TROPIC/HUMIDITY,Y	183	
95	PUSH BUTTON W/LAMP,YSNPBL2-AL12R,25P,AC120V,RED,LED,1A1B,ENGLISH,TROPIC/HUMIDITY,YON	193	
96	PUSH BUTTON W/LAMP,YSNPBL2-AL12Y	201	
97	LAMP,SIGNAL LAMP,YSPL2-AL12-G,AC120V,50/60Hz,GREEN,25PI,LED,ENGLISH,TROPIC/HUMIDITY,YO	12	
98	LAMP,SIGNAL LAMP,YSPL2-AL12R,AC120V,50/60Hz,RED,25PI,LED,ENGLISH,TROPIC/HUMIDITY,YONGS	12	
99	LIMIT S/W,YSR1-15CR,MICRO S/W,YONGSUNG ELECTRIC Co	195	
100	ABS32c 15A EXP	44	
101	HYGRO STAT,H615A 1004,30~80% RH,AC250V,50HZ,ENGLISH,TROPIC/HUMIDITY,HONEYWELL KOREA	44	
102	SPACE HEATER,DCSH-200,AC220V,80W,50/60HZ,ENGLISH,TROPIC/HUMIDITY,DAECHANG ELEC.	44	
103	RECEPTACLE	44	
104	ABS32c 3A EXP	1	
105	YS2AT020-24S	132	
106	T/B,YSAT025-25SA,1SET=25P,YONGSUNG ELECTRIC Co	63	
107	HANDLE(ACCE),EH1-L,TD160	59	

YPFB UREA S/S MCC BOM LIST			
No.	DESCRIPTION	Qty.	Remark
108	HANDLE(ACCE),EH2-L,TS250	147	
109	HANDLE(ACCE),EH3-S,TS630	3	



YPFB UREA S/S TR PANEL BOM LIST			U30-PDB501A	U30-PDB501E	U30-PDB502	
No.	DESCRIPTION	Qty.	1	2		Remark
1	ABS32c 15A AXT-LWT EXP	9	3	3	3	
2	LAMP,SIGNAL LAMP,YSPL3-AL22-W,AC220V,50/60Hz,WHITE,30PI,LED,YONGSUNG ELECTRIC Co	3	1	1	1	
3	ABS603c 630A AL-LWT	2	1		1	
4	ABS203c 200A ALR-LWT	1		1		
5	PT,DGP-100,380/R3/110/R3V,50VA,1.0C,50HZ,(DEESYS)	9	3	3	3	
6	TTM,YSPTT-04C,4P,BODY W/BANGJIN COVER,SUS,BLACK-BROWN-GRAY-BLUE,YONGSUNG ELECTRIC Co	3	1	1	1	
7	CAM S/W,YS-C7602-5/4MRB,OFF-L1 L2-L2 L3-L3 L1-L1 N-L2 N-L3 N,YONGSUNG ELECTRIC Co	3	1	1	1	
8	TTM,YSCTT-04C,4P,BODY W/BANGJIN COVER,SUS,BLACK-BROWN-GRAY-BLUE,YONGSUNG ELECTRIC Co	3	1	1	1	
9	CAM S/W,YS-C4307-5/4MRB,OFF-L1-L2-L3,ENGLISH,YONGSUNG ELECTRIC Co	3	1	1	1	
10	VM,W11-VA,0-600V,380/R3/110/R3V,50/60HZ,(DEESYS)	3	1	1	1	
11	AM,W11-AA,0-600A,600/1A,50/60HZ,1.0CL,(DEESYS)	2	1		1	
12	CT,DR-1,1150V,200/1A,5VA,1.0CL,50/60HZ,(DEESYS)	3		3		
13	CT,DS-2,1150V,600/1A,15VA,1.0CL,50/60HZ,(DEESYS)	6	3		3	
14	T/B,YSCT-04AFS,4P,YONGSUNG ELECTRIC Co,TROPIC/HUMIDITY	3	1	1	1	
15	ABS52c 15A EXP	6	2	2	2	
16	FL,FL SET,DL-10WC-B4R22,AC220V,50/60HZ,10W	6	2	2	2	
17	RECEPTACLE,5726 23,2P,VIEW-GROUND,ANAM LEGRAND	3	1	1	1	
18	THERMO STAT,RT-90-3S,0-90DEG,AC250V,5A,HEAT-RESISTANT V2 WITH SELECT S/W,RUN Electronics	3	1	1	1	
19	FAN,AF,MV-121,AC220V,50HZ,SLEEVE TYPE,MANSEUNG	3	1	1	1	
20	LAMP,SIGNAL LAMP,YSPL3-AL22-G,AC220V,50/60Hz,GREEN,30PI,LED,YONGSUNG ELECTRIC Co	1		1		

YPFB UREA S/S TR PANEL BOM LIST			U30-PDB501A	U30-PDB501E	U30-PDB502	
No.	DESCRIPTION	Qty.	1	2		Remark
21	LAMP,SIGNAL LAMP,YSPL3-AL22-R,AC220V,50/60Hz,RED,30PI,LED,YONGSUNG ELECTRIC Co	1		1		
22	LAMP,SIGNAL LAMP,YSPL3-AL22-Y,AC220V,50/60Hz,YELLOW,30PI,LED,YONGSUNG ELECTRIC Co	3	1	1	1	
23	TR,480/400-230V, 400kVA	1			1	
24	TR,480/400-230V, 350kVA	1	1			
25	TR,480/400-230V, 100kVA	1		1		
26	MC-630a AC200-240V 50/60Hz,DC200-220V 2a2b (Metasol) EXP	2	1		1	
27	MR-4 AC220V 50/60Hz 3a1b (Metasol) EXP	2	1		1	
28	PUSH BUTTON W/LAMP,YSNPBL3-AL22G,30P,AC220V,50/60HZ,GREEN,LED,1A1B,YONGSUNG ELECTRIC Co	2	1		1	
29	PUSH BUTTON W/LAMP,YSNPBL3-AL22R,30P,AC220V,50/60HZ,RED,LED,1A1B,YONGSUNG ELECTRIC Co	2	1		1	

YPFB UREA S/S LV PDB BOM LIST			U30-PDB501A01	U30-PDB501A02	U30-PDB501A03	U30-PDB501E01	U30-PDB501E02	U30-PDB501E03	U30-PDB502A01	
No.	DESCRIPTION	Qty.	1	2	3	4	5	6	6	Remark
1	ABS32c 30A EXP	7	1	1	1	1	1	1	1	
2	LAMP,SIGNAL LAMP,YSPL3-AL22-W,AC220V,50/60Hz,WHITE,30PI,LED,YONGSUNG ELECTRIC Co	7	1	1	1	1	1	1	1	
3	EBS103c 15A 100/200/500mA AXALR-LWT	15	3			8	2		2	
5	EBS103c 30A 100/200/500mA AXALR-LWT	8	4			3	1			
6	EBS103c 50A 100/200/500mA AXALR-LWT	2				1	1			
8	ABS104c 50A AXR-LWT+SHT(AC/DC220)-TBT	3		2					1	
9	ABS104c 15A AXR-LWT+SHT(AC/DC220)-TBT	9	3		1	5				
10	ABS104c 20A AXR-LWT+SHT(AC/DC220)-TBT	8					5	3		
11	ABS104c 30A AXR-LWT+SHT(AC/DC220)-TBT	14	7	4	1	1	1			
12	ABS104c 40A AXR-LWT+SHT(AC/DC220)-TBT	2					2			
13	ABS104c 60A AXR-LWT+SHT(AC/DC220)-TBT	4			4					
14	ABS104c 75A AXR-LWT+SHT(AC/DC220)-TBT	12		3					9	
15	ABS104c 100A AXR-LWT+SHT(AC/DC220)-TBT	4							4	
16	ABS104c 125A AXR-LWT+SHT(AC/DC220)-TBT	2		2						
17	ABS404c 400A AX+SHT(AC/DC110-220)-LWT	2							2	
18	GFR,EGR-20 RZ7M,500-2500MA,AC/DC85-250V,SAMWHA EOCR	60	10	11	6	6	8	3	16	
19	ZCT,ZCT-35,200MA/1.5MA,50/60HZ,SAMWHA ENG.	56	10	9	6	6	8	3	14	
20	ZCT,ZCT-80,200MA/1.5MA,50/60HZ,SAMWHA ENG.	2		2						
21	ZCT,DZS-A210,200MA/1.5MA,50/60HZ,SQUARE TYPE,(DEESYS)	2							2	
23	ABS204c 225A ALR-LWT EXP	2			1			1		
26	MC-225a AC100-240V 50/60Hz, DC100-220V 2a2b (Metasol) EXP	2			1			1		

YPFB UREA S/S LV PDB BOM LIST			U30-PDB501A01	U30-PDB501A02	U30-PDB501A03	U30-PDB501E01	U30-PDB501E02	U30-PDB501E03	U30-PDB502A01	
No.	DESCRIPTION	Qty.	1	2	3	4	5	6	6	Remark
28	LAMP,SIGNAL LAMP,YSPL3-AL22-G,AC220V,50/60Hz,GREEN,30PI,LED,YONGSUNG ELECTRIC Co	72	17	11	6	10	10		18	
29	LAMP,SIGNAL LAMP,YSPL3-AL22-R,AC220V,50/60Hz,RED,30PI,LED,YONGSUNG ELECTRIC Co	72	17	11	6	10	10		18	
30	LAMP,SIGNAL LAMP,YSPL3-AL22-Y,AC220V,50/60Hz,YELLOW,30PI,LED,YONGSUNG ELECTRIC Co	17	7		1	4	2	1	2	
31	PUSH BUTTON W/LAMP,YSNPBL3-AL22Y,30P,AC220V,50/60HZ,YELLOW,LED,1A1B,YONGSUNG ELECTRIC Co	57	10	11	6	6	8		16	
32	MR-4 AC220V 50/60Hz 3a1b (Metasol) EXP	61	10	11	8	6	8	2	16	
33	TIMER,24 TIMER,EH-711,AC220V 50/60HZ,FOR INTERRUPTION-COMPENSATION,HAGER	2			1			1		
34	CAM S/W,YS-C3203-5/4MEB,MANU-PHOTO-TIMER,YONGSUNG ELECTRIC Co	2			1			1		
35	PUSH BUTTON W/LAMP,YSNPBL3-AL22G,30P,AC220V,50/60HZ,GREEN,LED,1A1B,YONGSUNG ELECTRIC Co	2			1			1		
36	PUSH BUTTON W/LAMP,YSNPBL3-AL22R,30P,AC220V,50/60HZ,RED,LED,1A1B,YONGSUNG ELECTRIC Co	2			1			1		
37	ABS52c 15A EXP	7	1	1	1	1	1	1	1	
38	FL,FL SET,DL-10WC-B4R22,AC220V,50/60HZ,10W	14	2	2	2	2	2	2	2	
39	RECEPTACLE,5726 23,2P,VIEW-GROUND,ANAM LEGRAND	7	1	1	1	1	1	1	1	
40	HY-ST,H615A,30-80%RH	7	1	1	1	1	1	1	1	
41	SPACE HEATER,AC220V,80W	7	1	1	1	1	1	1	1	

## **V. AC/DC POWER CONSUMPTION LIST**

## DC 110V Power consumption and Load Profiles (LV)

1. Control Power : DC110V, 1Phase

2. Control Power Consumption (Application for Feeder Typical)

NO	ITEM	DERSRIPTION	APPLICATION			CONSUM(A)	REMARKS
			CLOSE	NORM	TRIP		
1	ACB	CLOSING COIL	○			≤ 2	Duration ≥ 200ms
		TRIPPING COIL			○	≤ 2	Duration ≥ 200ms
		MOTOR SPRING	○			≤ 1	Duration ≤ 5sec
2	PROTECTION RELAY	EACH UNIT		○		0.15	Continuousness
3	AUX. RELAY	EACH COIL	○	○	○	0.08	Momentary
						0.08	Continuousness
4	SIGNAL LAMP	LED RED	○			0.02	Continuousness
		LED GREEN		○		0.02	Continuousness
		LED YELLOW			○	0.02	Momentary
5	OTHERS	PANEL		○		0.5	Continuousness

\* Note : This D.C Load consumption is roughly data

GROUP No	Group No					
	U30-LVS401A	U30-LVS401C	U30-LVS401B	U30-LVS402A	U30-LVS402C	U30-LVS402B
ACB Q'TY	1	1	1	1	1	1

**AC 220V Power consumption and Load Profiles (LV)**

1. Control Power : AC220V, 1Phase

2. AC Consumption table for LV SWGR

S No	Voltage	Group (Except DUMMNY)	Panel Q'ty			Flourescent Lamp (10W/EA)	Space heater (80W/EA)	Miscellaneous (2W)	Remark
			TR PANEL	LV & DIST.	MCC				
1	U30-LVS401	UREA S/S LV SWGR & MCC		3	14	60	2480	34	
2	U30-LVS402	UREA S/S LV SWGR & MCC		3	8	60	1520	22	
3	U30-PDB501A	UREA S/S TRP & PDB	1	3		80	320	8	
4	U30-PDB501E	UREA S/S TRP & PDB	1	3		80	320	8	
5	U30-PDB502	AMMONIA S/S TRP & PDB	1	1		40	160	4	

\* Note : This A.C Load consumption is roughly data

## **VI. HEAT DISSIPATION DATA**



## BOLIVIA YPFB AMMONIA/UREA PROJECT

### UREA S/S HEAT LOSS LIST

[illegible]