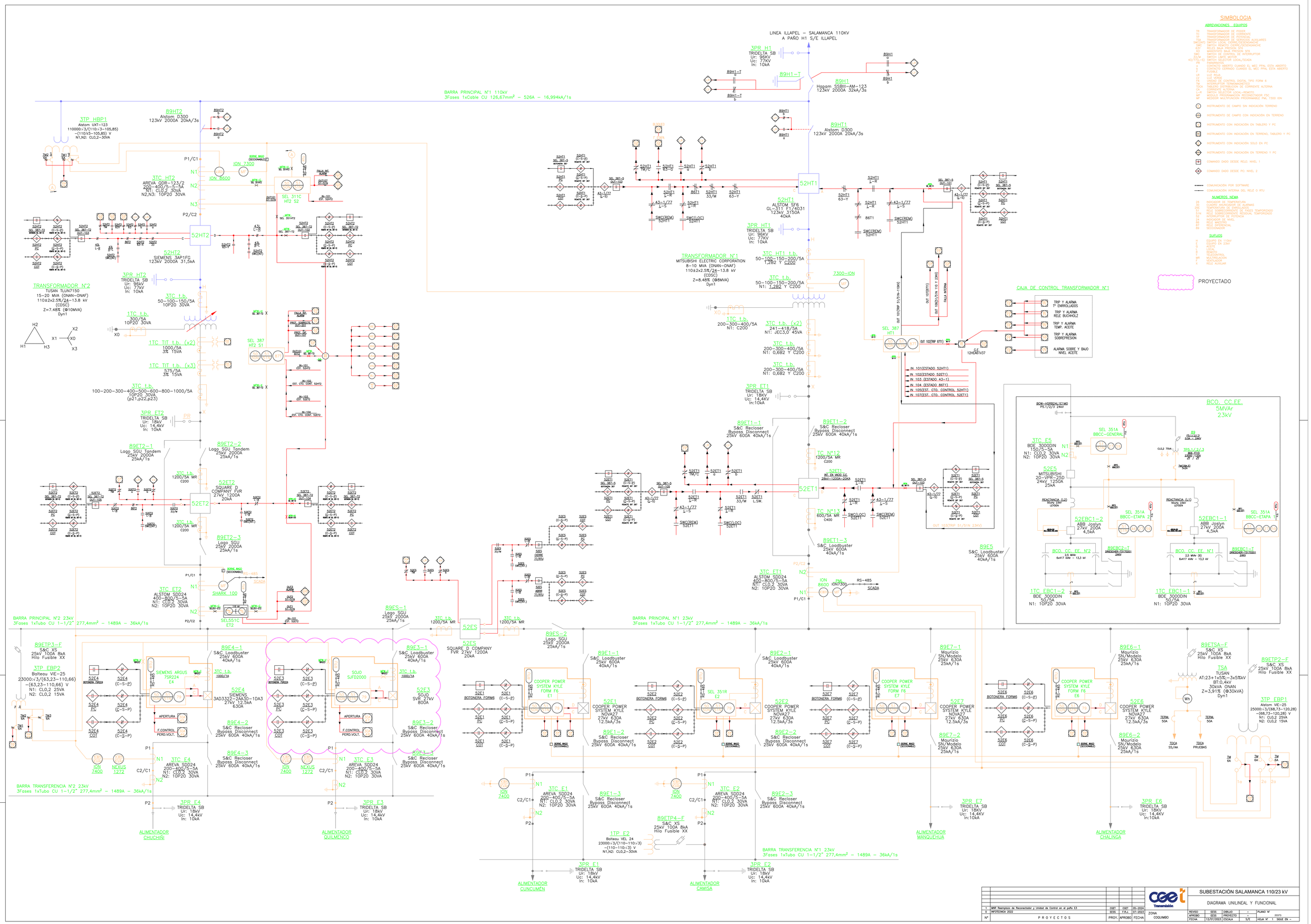
SIMBOLOGIA
ABREVACIONES EQUIPOS
NUMEROS NEMA
SUFIJOS
PROYECTADO
LINEA ILLAPEL – SALAMANCA 110KV
A PAÑO H1 S/E ILLAPEL
BARRA PRINCIPAL N°1 110kV
3Fases 1xCable CU 126,67mm² – 526A – 16,994kA/1s
3PR_H1
TRIDELTA SB
Ur: 96kV
Uc: 77kV
In: 10kA
89H1–T
89H1
Hapegm SSBIII–AM–123
123kV 2000A 32kA/3s
89H1T
Alstom D300
123kV 2000A 20kA/3s
89HT2
Alstom D300
123kV 2000A 20kA/3s
3TP_HBP1
Alstom UXT–123
110000:√3/(110:√3–105,85)
–(110:√3–105,85) V
N1,N2: CL0,2–30VA
3TC_HT2
AREVA GDR–123/2
200–400/5–5–5A
N1: CL0,2 30VA
N2,N3: 10P20 30VA
ION 7300
ION 8600
SEL 311C
HT2 S2
52HT2
SIEMENS 3AP1FG
123kV 2000A 31,5kA
TRANSFORMADOR N°2
TUSAN TLUN7150
15–20 MVA (ONAN–ONAF)
110±2x2,5%/24–13,8 kV
(CDSC)
Z=7,48% (@10MVA)
Dyn1
3PR_HT2
TRIDELTA SB
Ur: 96kV
Uc: 77kV
In: 10kA
3TC_t.b.
50–100–150/5A
10P20 30VA
1TC_t.b.
300/5A
10P20 30VA
1TC_TIT_t.b. (x2)
1000/5A
3% 15VA
1TC_TIT_t.b. (x3)
575/5A
3% 15VA
3TC_t.b.
100–200–300–400–500–600–800–1000/5A
10P20 30VA
(p21,p22,p23)
3PR_ET2
TRIDELTA SB
Ur: 18kV
Uc: 14,4kV
In: 10kA
89ET2–1
Logo SGU Tandem
25kV 2000A
25kA/1s
89ET2–2
Logo SGU Tandem
25kV 2000A
25kA/1s
3TC_t.b.
1200/5A MR
C200
52ET2
SQUARE D COMPANY FVR
27kV 1200A
20kA
89ET2–3
Logo SGU
25kV 2000A
25kA/1s
3TC_ET2
ALSTOM SDD24
400–800/5–5A
N1: CL0,2 30VA
N2: 10P20 30VA
SHARK 100
SEL551C
ET2
BARRA PRINCIPAL N°2 23kV
3Fases 1xTubo CU 1–1/2" 277,4mm² – 1489A – 36kA/1s
89ETP3–F
S&C XS
25kV 100A 8kA
Hilo Fusible XX
3TP_EBP2
Bolteau VIE–25
23000:√3/(63,23–110,66)
–(63,23–110,66) V
N1: CL0,2 25VA
N2: CL0,2 15VA
89E4–1
S&C Loadbuster
25kV 600A
40kA/1s
SIEMENS ARGUS
7SR224
E4
3TC_t.b.
1000/1A
52E4
SIEMENS
3AD3322–2AA30–1DA3
27kV 12,5kA
630A
89E4–2
S&C Recloser
Bypass Disconnect
25kV 600A 40kA/1s
89E4–3
S&C Recloser
Bypass Disconnect
25kV 600A 40kA/1s
3TC_E4
AREVA SDD24
200–400/5–5A
N1: CL0,2 30VA
N2: 10P20 30VA
3PR_E4
TRIDELTA SB
Ur: 18kV
Uc: 14,4kV
In: 10kA
ALIMENTADOR CHUCHIÑI
89E3–1
S&C Loadbuster
25kV 600A
40kA/1s
52E3
SOJO
SJFD2000
52E3
SOJO
SVR 27kV
800A
89E3–2
S&C Recloser
Bypass Disconnect
25kV 600A 40kA/1s
89E3–3
S&C Recloser
Bypass Disconnect
25kV 600A 40kA/1s
3TC_E3
AREVA SDD24
200–400/5–5A
N1: CL0,2 30VA
N2: 10P20 30VA
3PR_E3
TRIDELTA SB
Ur: 18kV
Uc: 14,4kV
In: 10kA
ALIMENTADOR QUILMENCO
BARRA TRANSFERENCIA N°2 23kV
3Fases 1xTubo CU 1–1/2" 277,4mm² – 1489A – 36kA/1s
89ES–1
Logo SGU
25kV 2000A
25kA/1s
52ES
SQUARE D COMPANY
FVR 27kV 1200A
20kA
89ES–2
Logo SGU
25kV 2000A
25kA/1s
89E1–1
S&C Loadbuster
25kV 600A
40kA/1s
52E1
COOPER POWER
SYSTEM KYLE
NOVA27
27kV 630A
12,5kA/3s
89E1–2
S&C Recloser
Bypass Disconnect
25kV 600A 40kA/1s
89E1–3
S&C Recloser
Bypass Disconnect
25kV 600A 40kA/1s
3TC_E1
AREVA SDD24
200–400/5–5A
N1: CL0,2 30VA
N2: 10P20 30VA
3PR_E1
TRIDELTA SB
Ur: 18kV
Uc: 14,4kV
In: 10kA
ALIMENTADOR CUNCUMEN
1TP_E2
Bolteau VEL 24
23000:√3/(110–110:√3)
–(110–110:√3) V
N1,N2: CL0,2–30VA
89ETP4–F
S&C XS
25kV 100A 8kA
Hilo Fusible XX
89E2–1
S&C Loadbuster
25kV 600A
40kA/1s
52E2
COOPER POWER
SYSTEM KYLE
NOVA27
27kV 630A
12,5kA/3s
89E2–2
S&C Recloser
Bypass Disconnect
25kV 600A 40kA/1s
89E2–3
S&C Recloser
Bypass Disconnect
25kV 600A 40kA/1s
3TC_E2
AREVA SDD24
200–400/5–5A
N1: CL0,2 30VA
N2: 10P20 30VA
3PR_E2
TRIDELTA SB
Ur: 18kV
Uc: 14,4kV
In: 10kA
ALIMENTADOR CAMISA
BARRA TRANSFERENCIA N°1 23kV
3Fases 1xTubo CU 1–1/2" 277,4mm² – 1489A – 36kA/1s
BARRA PRINCIPAL N°1 23kV
3Fases 1xTubo CU 1–1/2" 277,4mm² – 1489A – 36kA/1s
52HT1
ALSTOM SF6
GL–311 F1/4031
123kV 3150A
40kA
3PR_HT1
TRIDELTA SB
Ur: 96kV
Uc: 77kV
In: 10kA
TRANSFORMADOR N°1
MITSUBISHI ELECTRIC CORPORATION
8–10 MVA (ONAN–ONAF)
110±2x2,5%/24–13,8 kV
(CDSC)
Z=8,48% (@8MVA)
Dyn1
3TC_HT1_t.b.
50–100–150–200/5A
1,2B2 Y C200
3TC_t.b.
50–100–150–200/5A
N1: 1,2B2 Y C200
Z300–ION
1TC_t.b.
200–300–400/5A
N1: C200
3TC_t.b. (x2)
241–418/5A
N1: JEC3,0 45VA
3TC_t.b.
200–300–400/5A
N1: 0,6B2 Y C200
3TC_t.b.
200–300–400/5A
N1: 0,6B2 Y C200
3PR_ET1
TRIDELTA SB
Ur: 18kV
Uc: 14,4kV
In:10kA
89ET1–1
S&C Recloser
Bypass Disconnect
25kV 600A 40kA/1s
89ET1–2
S&C Recloser
Bypass Disconnect
25kV 600A 40kA/1s
TC N°12
1200/5A MR
C200
52ET1
TC N°13
600/5A MR
C400
89ET1–3
S&C Loadbuster
25kV 600A
40kA/1s
3TC_FT1
ALSTOM SDD24
400–800/5–5A
N1: CL0,2 30VA
N2: 10P20 30VA
ION 8600
RS–485
SCADA
89E5
S&C Loadbuster
25kV 600A
40kA/1s
SEL 387
HT1
CAJA DE CONTROL TRANSFORMADOR N°1
TRIP Y ALARMA
T° ENROLLADOS
TRIP Y ALARMA
RELE BUCHHOLZ
TRIP Y ALARMA
TEMP. ACEITE
TRIP Y ALARMA
SOBREPRESION
ALARMA SOBRE Y BAJO
NIVEL ACEITE
IN 101(ESTADO 52HT1)
IN 102(ESTADO 52ET1)
IN 103 (ESTADO 43–1)
IN 104 (ESTADO 86T1)
IN 105(EST. CTO. CONTROL 52HT1)
IN 107(EST. CTO. CONTROL 52ET1)
BCO. CC.EE.
5MVAr
23kV
SEL 351A
BBCC–GENERAL
3TC_E5
BDE 3000DIN
150/5–5A
N1: CL0,2 30VA
N2: 10P20 30VA
52E5
MITSUBISHI
20–VPR–25D
25kA
52EBC1–2
ABB Joslyn
27kV 200A
4,5kA
52EBC1–1
ABB Joslyn
27kV 200A
4,5kA
SEL 351A
BBCC–ETAPA 1
SEL 351A
BBCC–ETAPA 2
BCO. CC. EE. N°2
2,5 MVAr
6x417 VAr – 13,3 kV
BCO. CC. EE. N°1
2,5 MVAr
6x417 VAr – 13,3 kV
1TC_EBC1–2
BDE 3000DIN
50/5A
N1: 10P20 30VA
1TC_EBC1–1
BDE 3000DIN
50/5A
N1: 10P20 30VA
89ETSA–F
S&C XS
25kV 100A 8kA
Hilo Fusible XX
TSA
TUSAN
AT:23+1x5%;–3x5%kV
BT:0,4kV
30kVA ONAN
Z=3,91% (@30kVA)
Dyn1
3TP_EBP1
Alstom VIE–25
25000:√3/(68,73–120,28)
–(68,73–120,28) V
N1: CL0,2 25VA
N2: CL0,2 15VA
89E7–1
Maurizio
SN/Modelo
25kV 630A
25kA/1s
52E7
COOPER POWER
SYSTEM KYLE
NOVA27
27kV 630A
12,5kA/3s
89E7–2
Maurizio
SN/Modelo
25kV 630A
25kA/1s
3PR_E7
TRIDELTA SB
Ur: 18kV
Uc: 14,4kV
In:10kA
ALIMENTADOR MANQUEHUA
89E6–1
SN/Modelo
25kV 630A
25kA/1s
52E6
COOPER POWER
SYSTEM KYLE
NOVA27
27kV 630A
12,5kA/3s
89E6–2
Maurizio
SN/Modelo
25kV 630A
25kA/1s
3PR_E6
TRIDELTA SB
Ur: 18kV
Uc: 14,4kV
In:10kA
ALIMENTADOR CHALINGA
Transmisión
SUBESTACIÓN SALAMANCA 110/23 kV
DIAGRAMA UNILINEAL Y FUNCIONAL
1 MNR Reemplazo de Reconectador y Unidad de Control en el paño E3
0 INFOTECNICA 2022
PROYECTOS
ZONA COQUIMBO
PLANO N°
HOJA N° 1 SIGUE EN –