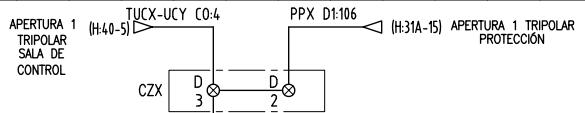


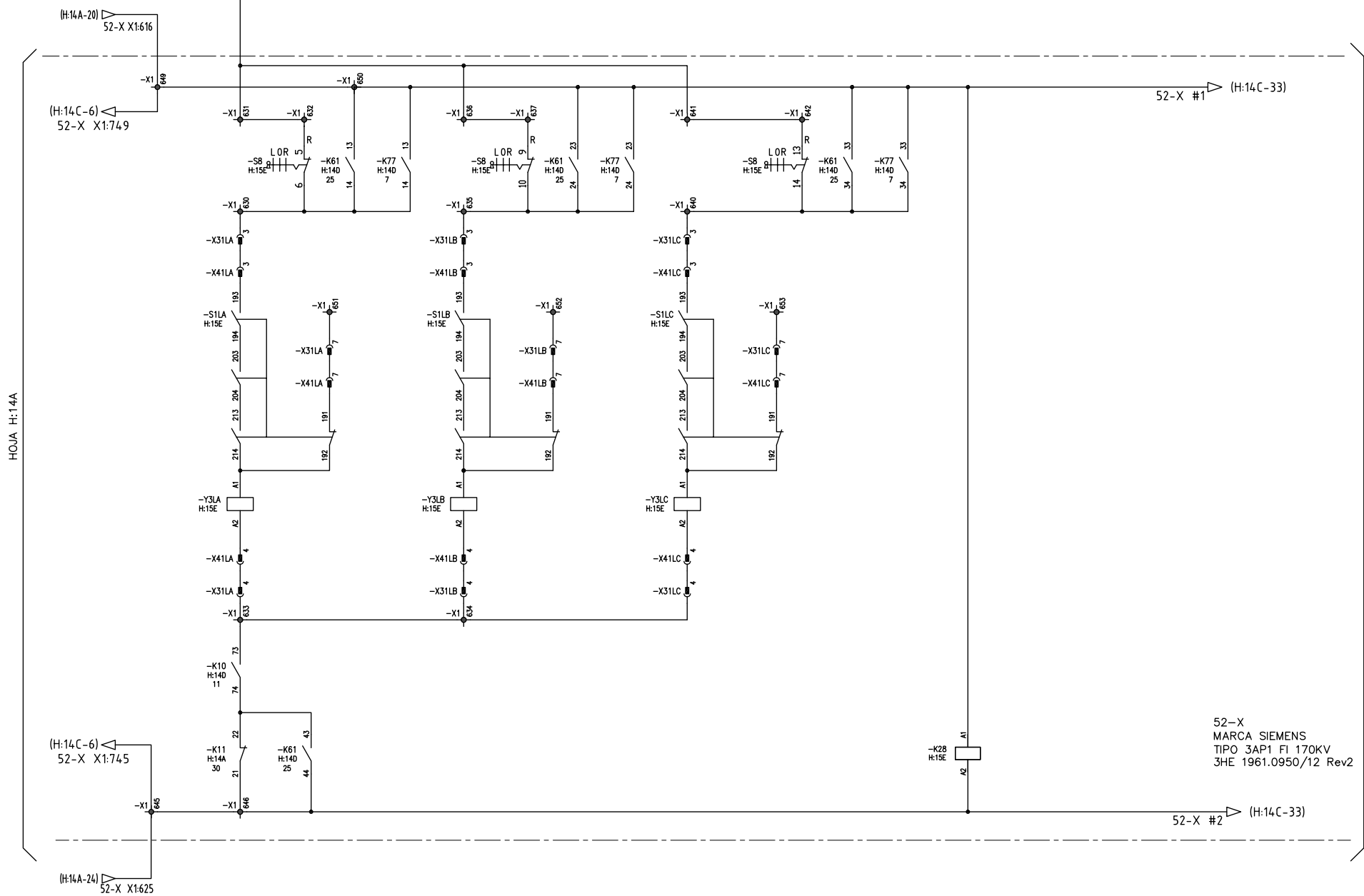
REPRESENTACIÓN:
 SIN TENSIÓN (CA e CC)
 SIN PRESIÓN
 INTERRUPTOR EN LA POSICIÓN "ABIERTO"
 RESORTE SIN CARGA

52-X
 MARCA SIEMENS
 TIPO 3AP1 FI 170KV
 3HE 1961.0950/12 Rev2

| | | |
|-------------------------------------------|---------------|-----------|
| INTERRUPTOR 3AP1 - TRAFÓ | | |
| DISYUNTOR 52-X - CIRCUITO DE MANDO CIERRE | | |
| HOJA: 14A | SIGUE: 14B | REV. A |



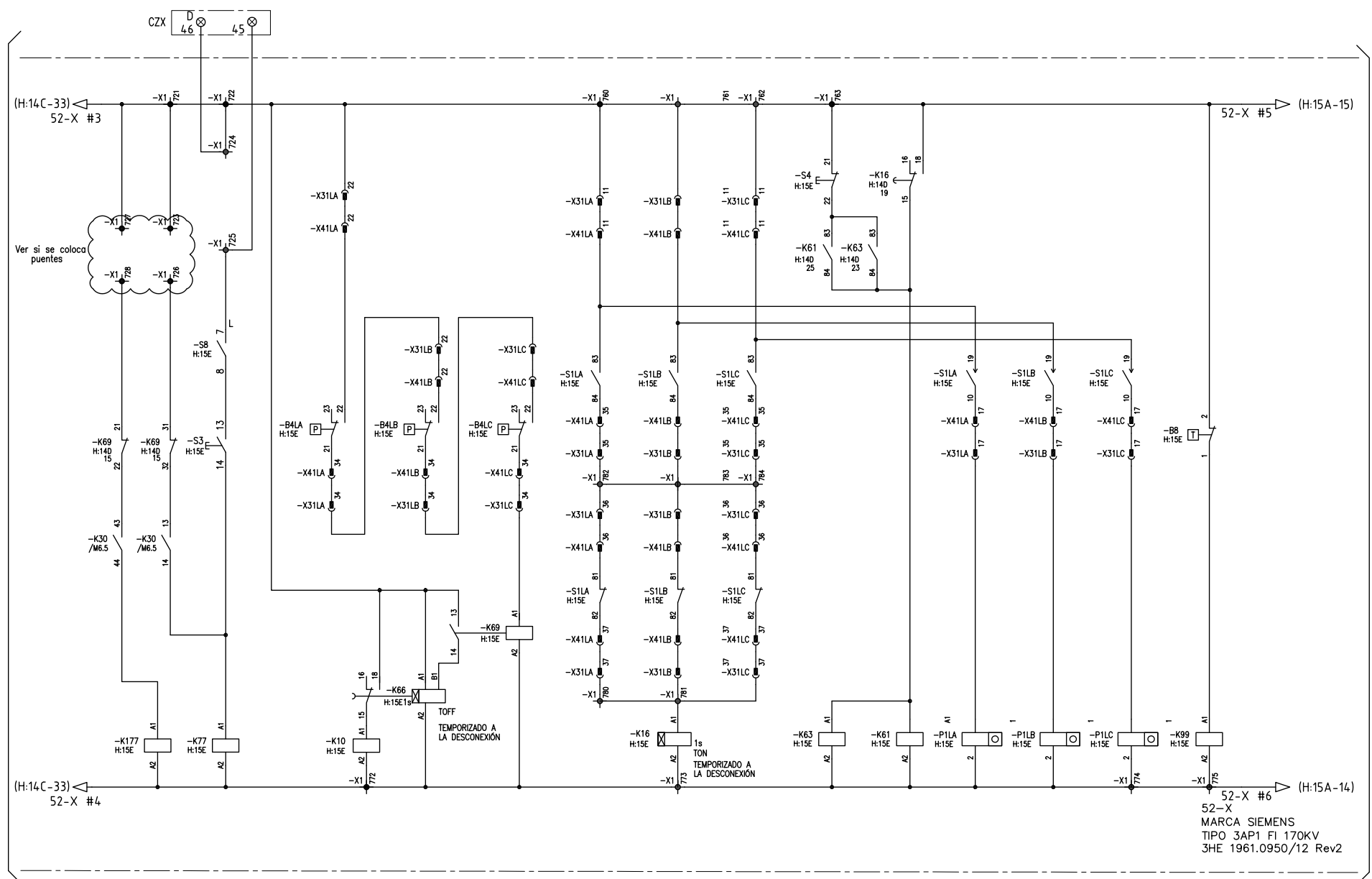
SUPERVISION
TENSION VCC



52-X
MARCA SIEMENS
TIPO 3AP1 FI 170KV
3HE 1961.0950/12 Rev2

| | | | |
|------------------------------------------------|--------|------|--|
| INTERRUPTOR 3AP1 - TRAF0 | | | |
| DISYUNTOR 52-X - CIRCUITOS DE MANDO APERTURA 1 | | | |
| HOJA: | SIGUE: | REV. | |
| 14B | 14C | A | |

OPCION APERTURA APERTURA LOCAL BLOQUEIO GENERAL SF6 2ª ETAPA DICORDANCIA DE PÓLOS REPOSICION DICORDANCIA CONTADOR DEL NUMERO DE MANIOBRAS CALEFACCION



HOJA 14C

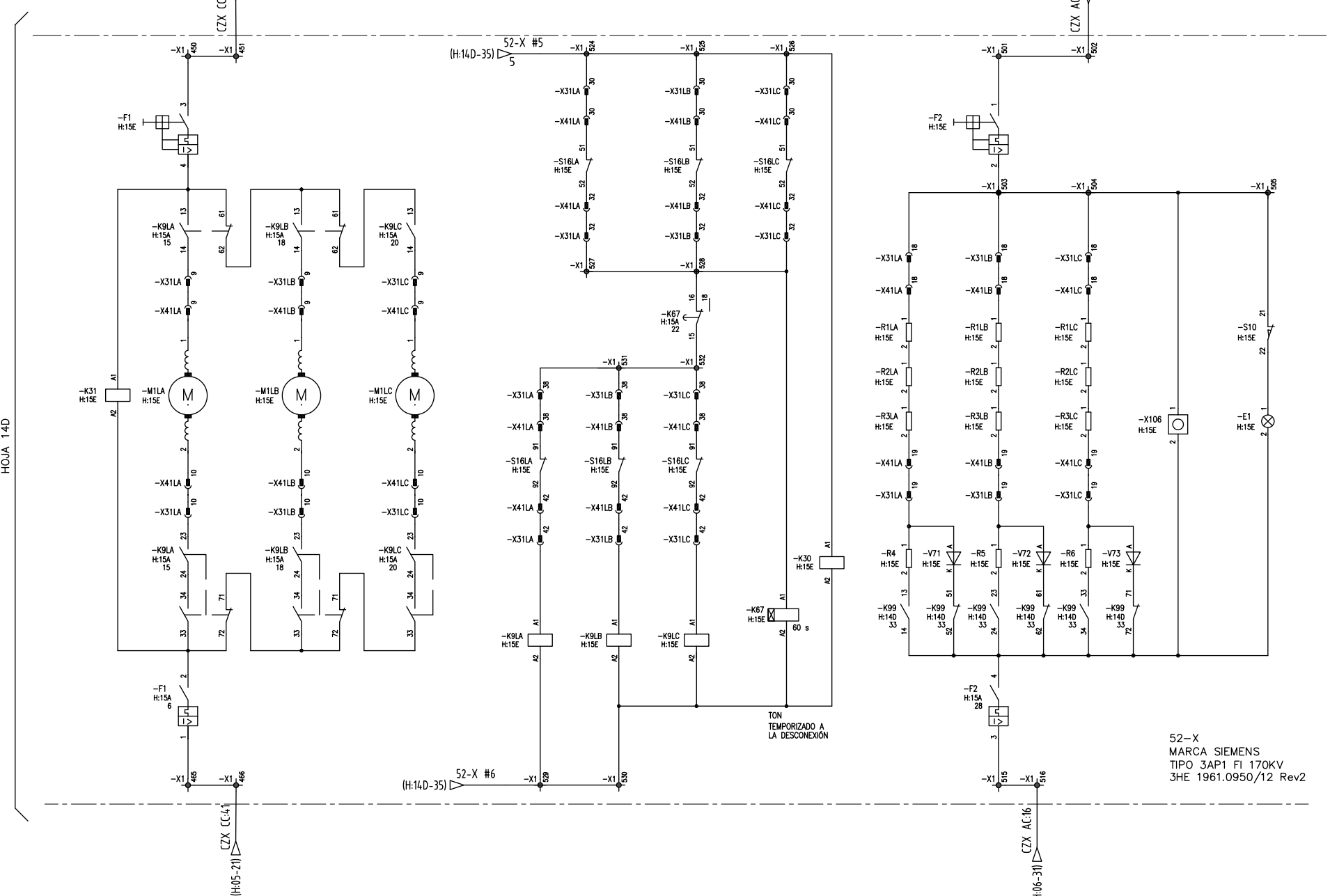
HOJA 15A

| | | | | |
|----------------------------------------------------------|--|-------|--------|------|
| INTERRUPTOR 3AP1 - TRAFIO | | HOJA: | SIGUE: | REV. |
| DISYUNTOR 52-X - CIRCUITOS DE MANDO CIRCUITOS AUXILIARES | | 14D | 15A | A |

52-X
MARCA SIEMENS
TIPO 3AP1 FI 170KV
3HE 1961.0950/12 Rev2

MANDO DEL MOTOR

CALEFACCION



HOJA 14D

HOJA 15B

52-X
MARCA SIEMENS
TIPO 3AP1 FI 170KV
3HE 1961.0950/12 Rev2

INTERRUPTOR 3AP1 - TRAFIO

DISYUNTOR 52-X - CIRCUITOS DE
MANDO MOTOR Y CALEFACCION

| | | |
|-------|--------|------|
| HOJA: | SIGUE: | REV. |
| 15A | 15B | A |

PERDIDA DE SF6 (H:05-26)

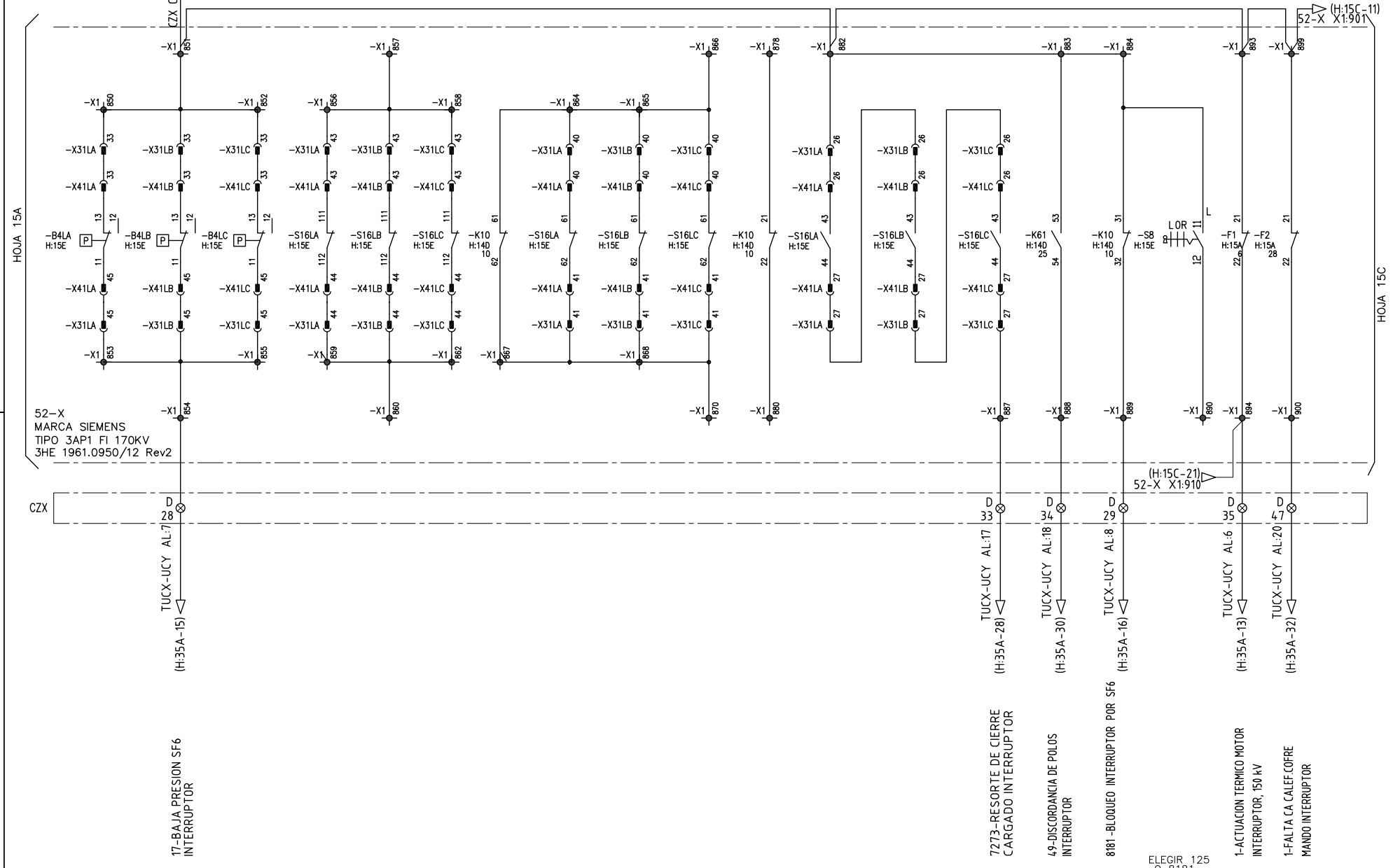
SEÑALIZACIONES

RESORTE CIERRE CON TENSION

DISCORDANCIA DE POLOS

BLOQUEO GENERAL DE SF6

MOTOR POLO A/B/C



HOJA 15A

52-X
MARCA SIEMENS
TIPO 3AP1 FI 170KV
3HE 1961.0950/12 Rev2

CZX

17-BAJA PRESION SF6
INTERRUPTOR

7273-RESORTE DE CIERRE
CARGADO INTERRUPTOR

49-DISCORDANCIA DE POLOS
INTERRUPTOR

8181-BLOQUEO INTERRUPTOR POR SF6

1-ACTUACION TERMICO MOTOR
INTERRUPTOR, 150 kV

1-FALTA CA CALEF-COFRE
MANDO INTERRUPTOR

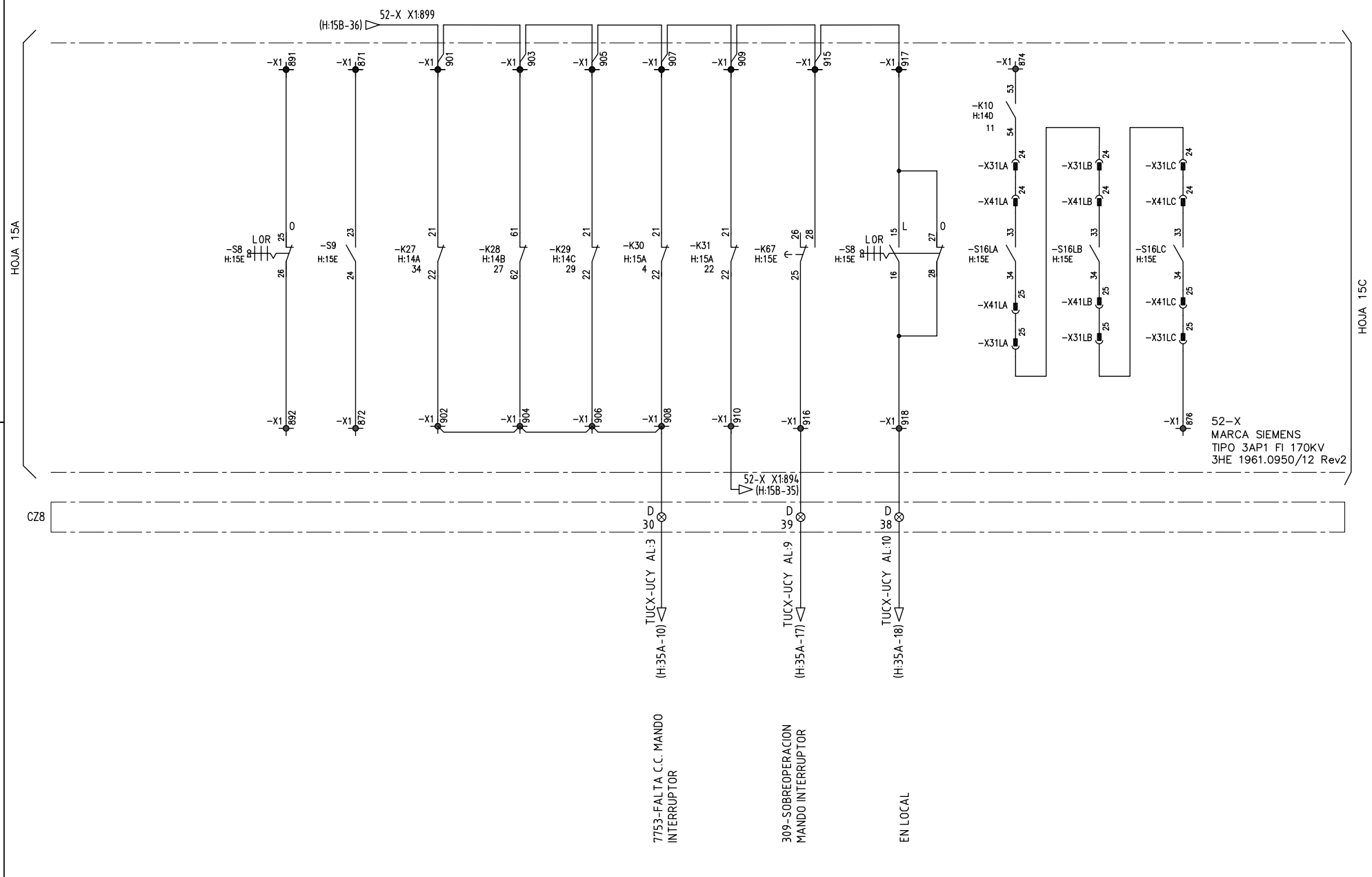
ELEGIR 125
O 8181

INTERRUPTOR 3AP1 - TRAF0
**DISYUNTOR 52-X
ALARMAS**

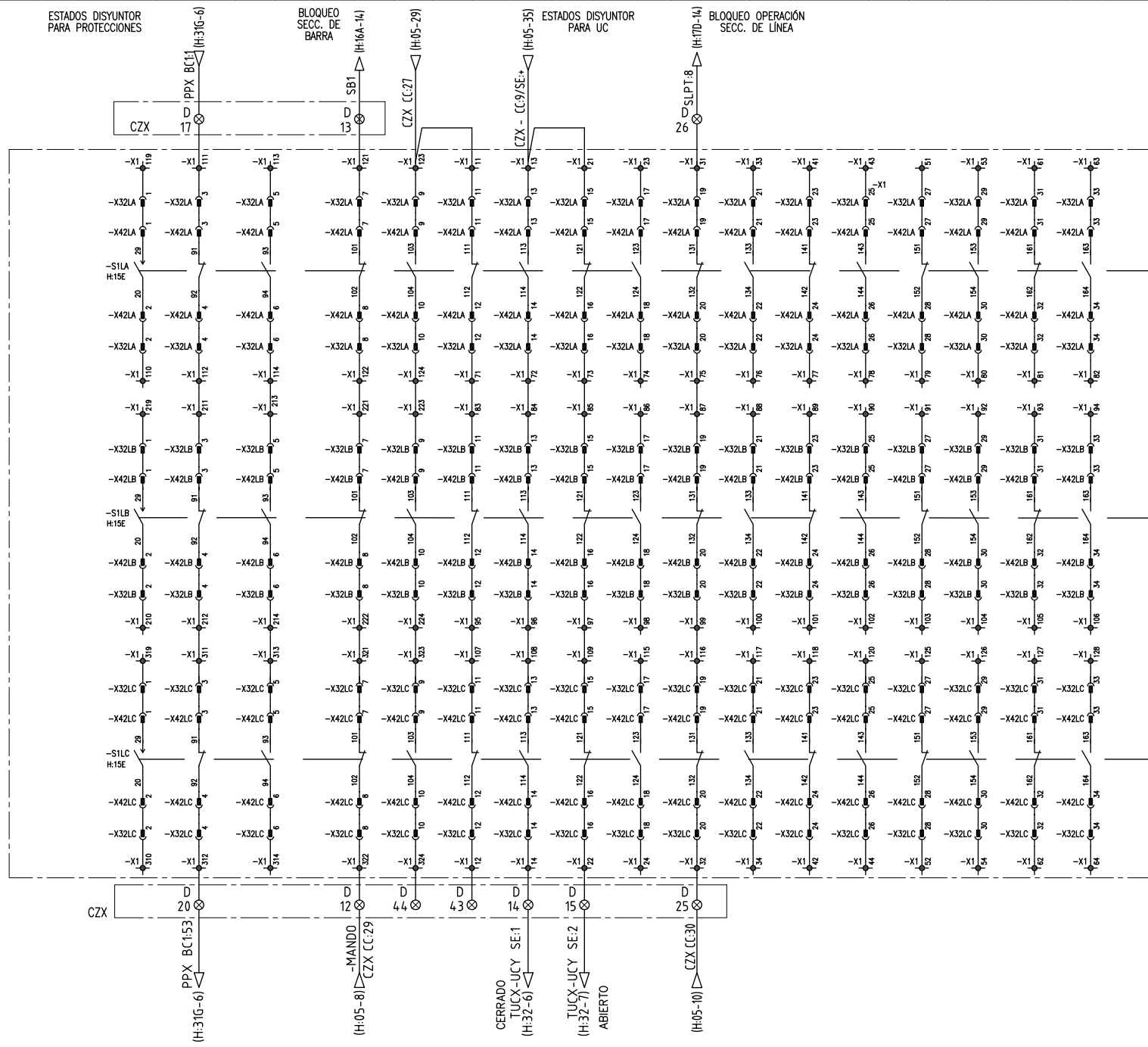
| | | |
|-------|--------|------|
| HOJA: | SIGUE: | REV. |
| 15B | 15C | B |

HOJA 15C

CIRCUITO DEL CIERRE CIRCUITO DEL APERTURA 1 CIRCUITO DEL APERTURA 2 VIGILANCIA DEL MOTOR LOCAL CERO



| | | | |
|--------------------------------------------------------------|-------|--------|------|
| INTERRUPTOR 3AP1 - TRAF0 DISYUNTOR 52-X ALARMAS | HOJA: | SIGUE: | REV. |
| | 15C | 15D | A |



52-X
 MARCA SIEMENS
 TIPO 3AP1 FI 170KV
 3HE 1961.0950/12 Rev2

| | | | | |
|----------------------------------------------------------------------------|--|--------------|---------------|-----------|
| INTERRUPTOR 3AP1 - TRAFIO DISYUNTOR 52-X CONTACTOS AUXILIARES | | HOJA: 15D | SIGUE: 15E | REV. A |
|----------------------------------------------------------------------------|--|--------------|---------------|-----------|

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | | | | |
|-------|-----------------------|--------------------------------------|----------------------------|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|-----------------------|---------|-------------|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|
| CANT. | DESIG. SIMBL. APARATO | FUNCION | DESCRIPCION | | | | | | | | | | | | | | | | | | | | CANT. | DESIG. SIMBL. APARATO | FUNCION | DESCRIPCION | | | | | | | | | | | | | | | |
| 1 | S10 | INTERRUPTOR FIN DE CARRERA | INTERRUPTOR FIN DE CARRERA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | S8 | LOCAL-REMOTO | INTERRUPTOR DE LLAVE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | S3 | APERTURA LOCAL | PULSADOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | S9 | CIERRE LOCAL | PULSADOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | S4 | RESET - DISCORDANCIA DE POLOS | PULSADOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | K16 | DISCORDANCIA DE POLOS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | K66 | TEMP. APERTURA AUTOMATICO | RELE MULTIFUNCIONAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | K67 | VIGILANCIA DEL MOTOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | K61 | DISCORDANCIA DE POLOS | CONTACTOR AUXILIAR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | K77 | APERTURA LOCAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | K177 | APERTURA 2 | CONTACTOR AUXILIAR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | K10 | BLOQUEO GENERAL DE SF6 | CONTACTOR AUXILIAR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | K28 | SINCRONISMO DE DISPARO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | K63 | DISCORDANCIA DE POLOS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | K9LA | MANDO DEL MOTOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | K9LB | MANDO DEL MOTOR | CONTACTOR AUXILIAR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | K9LC | MANDO DEL MOTOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | K11 | SINCRONISMO DE DISPARO | CONTACTOR AUXILIAR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | F1 | TERMOMAGNÉTICA MOTOR | INTERRUPTOR AUTOMÁTICO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | K75 | DISPOSITIVO ANTIBOMBEO | CONTACTOR AUXILIAR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | K99 | CONTROLE CALEFACCION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | K27 | CIRCUITO DEL CIERRE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | K29 | CIRCUITO DEL APERTURA 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | K30 | CIRCUITO AUX. INTERRUPTOR | CONTACTOR AUXILIAR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | K31 | SUPERVISIÓN TENSIÓN MOTOR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | K69 | APERTURA AUTOMATICO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | F2 | TERMOMAGNÉTICA CORRIENTE/ILUMINACIÓN | INTERRUPTOR AUTOMÁTICO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | R4 | CALEFACCION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | R5 | CALEFACCION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | R6 | CALEFACCION | RESISTENCIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | R1LA | CALEFACCION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | R1LB | CALEFACCION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | R1LC | CALEFACCION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | R2LA | CALEFACCION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | R2LB | CALEFACCION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | R2LC | CALEFACCION | RESISTENCIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | R3LA | CALEFACCION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | R3LB | CALEFACCION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | R3LC | CALEFACCION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | B8 | MANDO DE CALEFACCION | TERMOSTATO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | E1 | ILUMINACION | ILUMINACION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | X106 | TOMA CORRIENTE | TOMA CORRIENTE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | V71 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | V72 | | DIODO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | V73 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | P1LA | CONTADOR POLO LA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | P1LB | CONTADOR POLO LB | CONTADOR SIN REPOSICION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | P1LC | CONTADOR POLO LC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

DIAGRAMAS ESQUEMÁTICOS

INTERRUPTOR DE POTENCIA 3AP1-FI

DATOS DEL CIRCUITO DE COMANDO Y CONTROL

| | VALOR | UNIDAD | RANGO |
|---------------------------|-------|--------|----------|
| CIRCUITO DE CONTROL | 110 | V DC | +15%-20% |
| CIERRE | 110 | V DC | +15%-20% |
| APERTURA 1 | 110 | V DC | +15%-20% |
| APERTURA 2 | 110 | V DC | +15%-20% |
| MOTOR | 110 | V DC | +15%-20% |
| CALEFACCIÓN | 230 | V AC | ±10% |
| PRESIÓN NOMINAL SF A 20°C | 6,0 | bar | - |

| | | | |
|--------------------------|-------|--------|------|
| INTERRUPTOR 3AP1 - TRAF0 | HOJA: | SIGUE: | REV. |
| REFERENCIAS | 15E | - | A |