

PROJETO DE INSTALAÇÕES ELÉTRICAS - CONSTRUÇÃO DA UBS DO BAIRRO MORUMBI
ESCALA INDICADA

QD3 - 127/220V, BARRAMENTO TRIFÁSICO DE COBRE DE 225A, CAPACIDADE PARA 70 DISJUNTORES, 47X98 CM

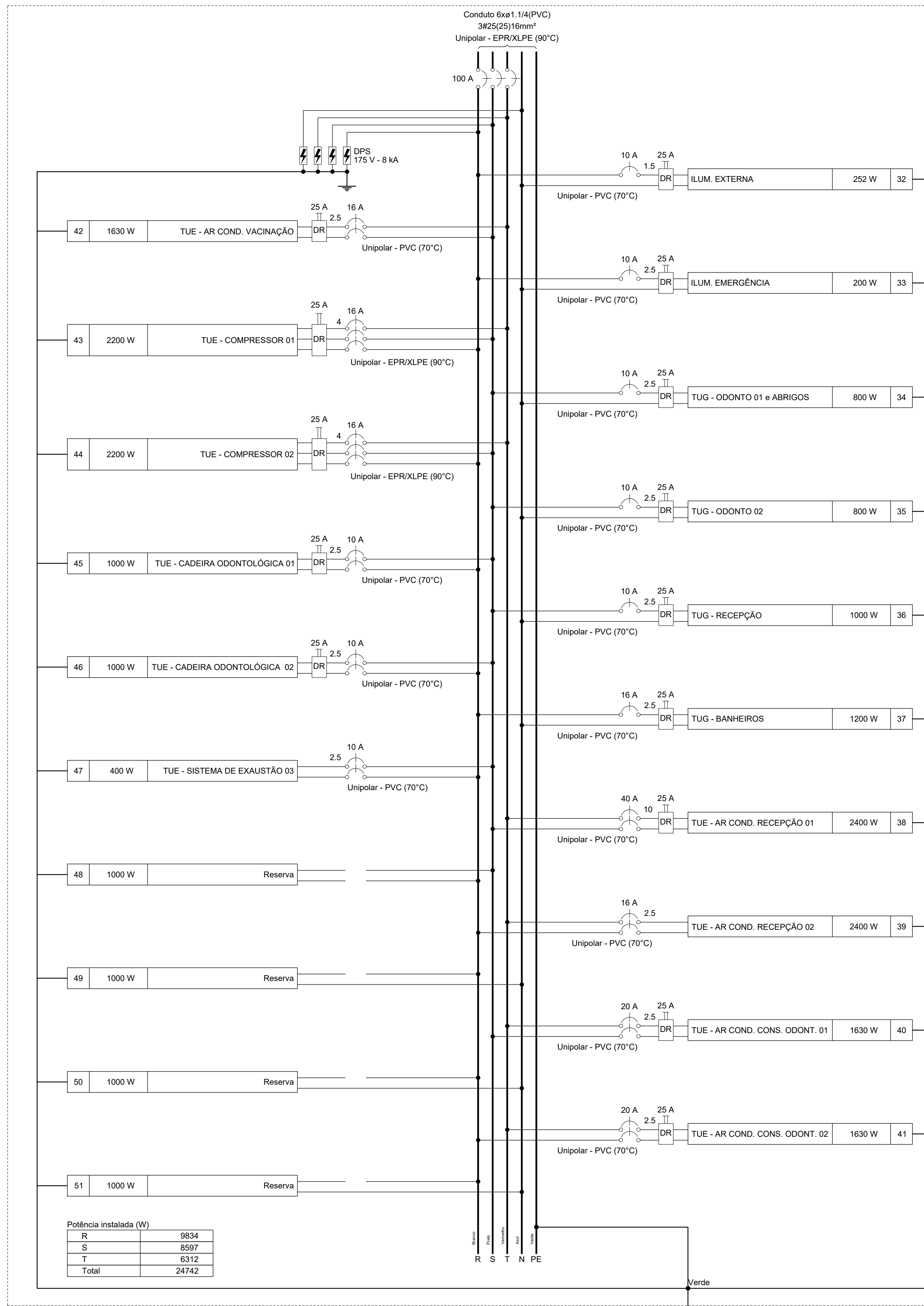


DIAGRAMA MULTIFILAR - QD3
ESCALA INDICADA

QD3
(24742 W)

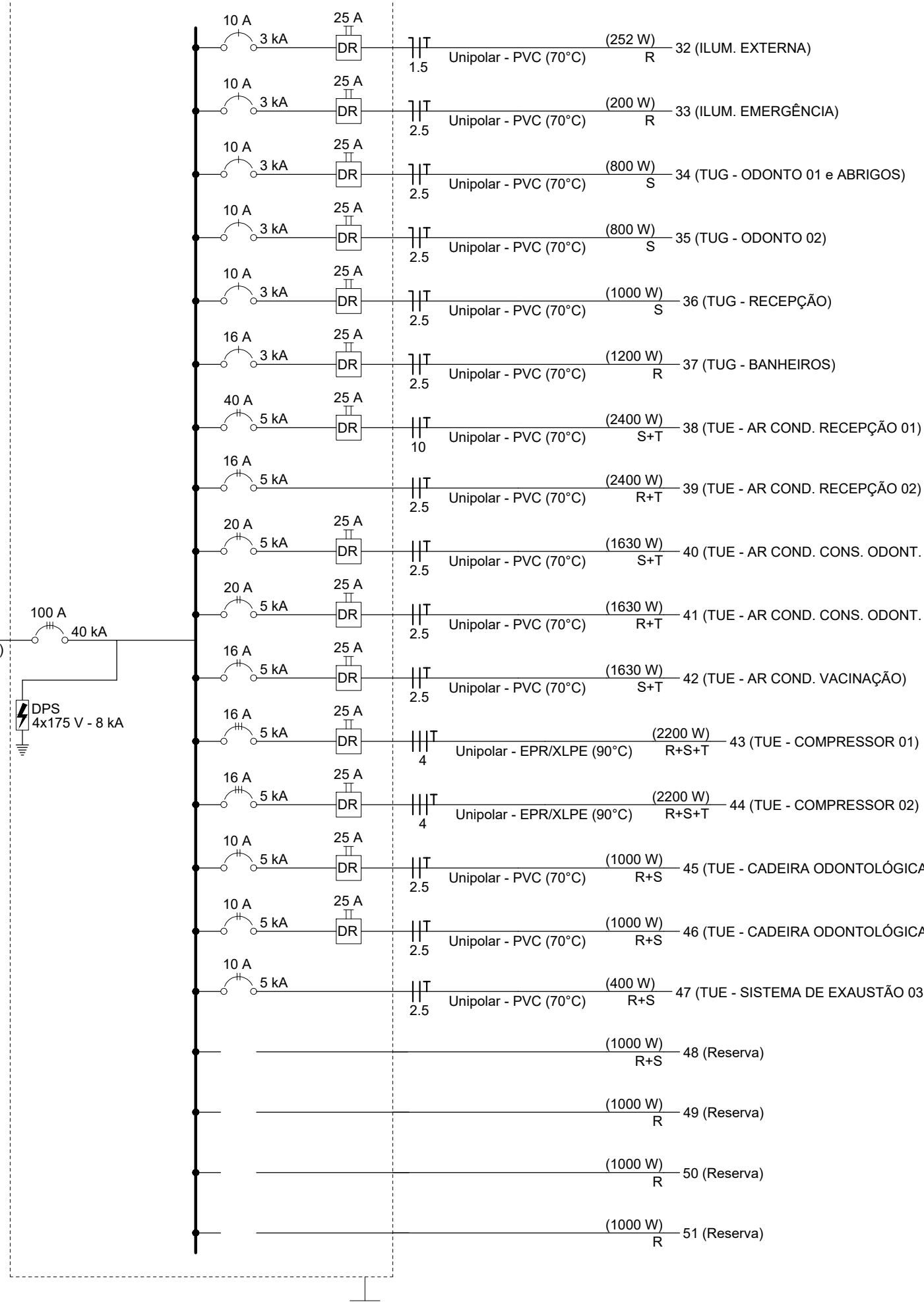


DIAGRAMA UNIFILAR - QD-3
ESCALA INDICADA

QD-AR
(48600 W)

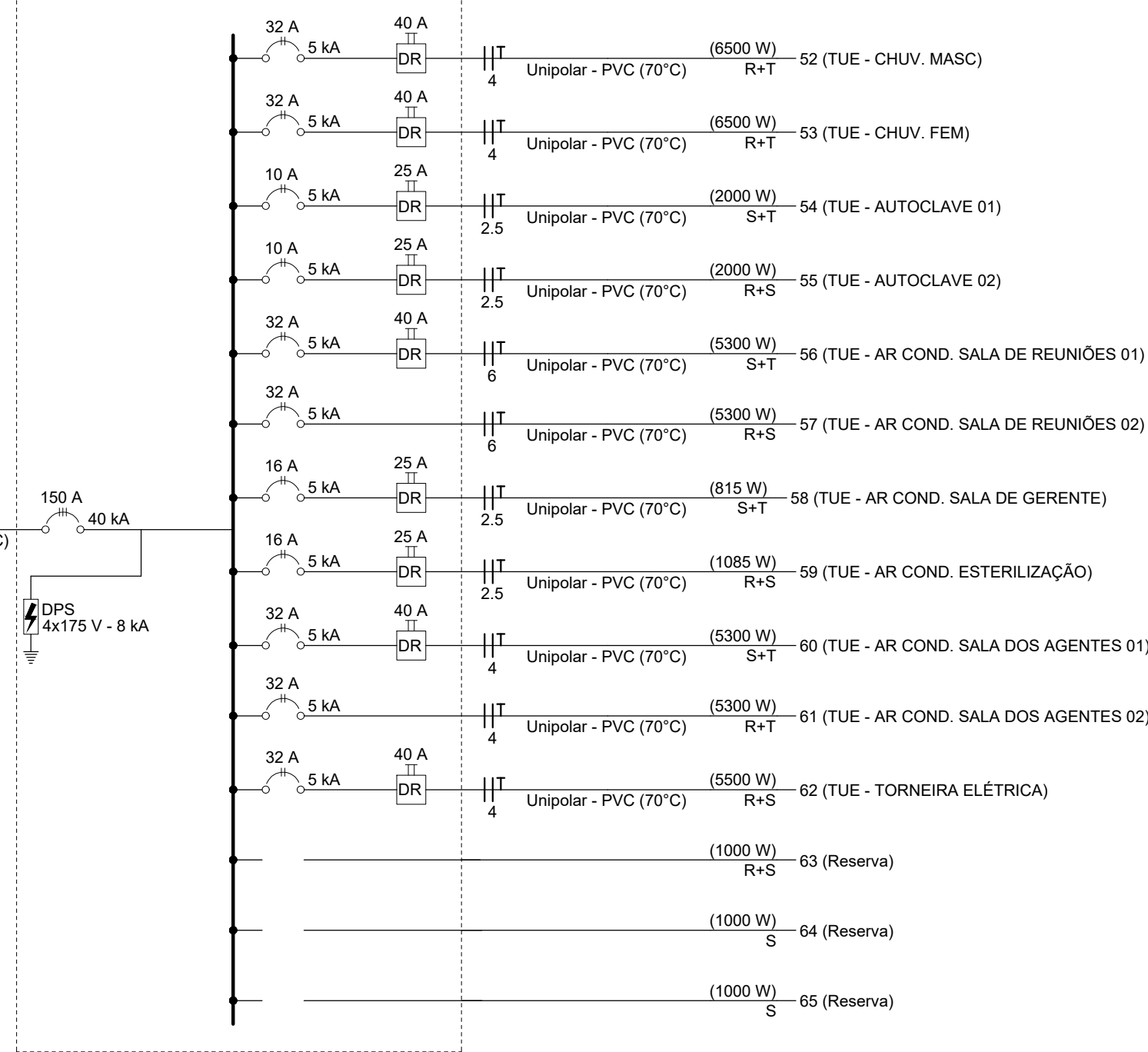


DIAGRAMA UNIFILAR - QD-AR
ESCALA INDICADA

| Circuito | | Descrição | Esquema | Método de inst. | Tensão (V) | Quilômetro de Cadeia (Km) (1 FERRUG) | | | | | | | | | | Pot. total (W) | Pot. total (VA) | Fases | Pot. - R (W) | | Pot. - S (W) | | Pot. - T (W) | | It' (A) | Ip (A) | Seção (mm²) | Ic (A) | Disj. (A) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | Iluminação (W) | | | | | Tomadas (W) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) | (W) |

| Quadro de Cargas (00-AR) - TÉRREO | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------------------------|---------|-----------------|------------|-------------|------|------|------|------|----------------|-----------------|-------|----------|-------|----------|-------|----------|-------|---------|--------|-------------|--------|----------|--|
| Circuito | Descrição | Esquema | Método de inst. | Tensão (V) | Tomadas (W) | | | | | Pot. total (W) | Pot. total (VA) | Fases | Pot. - R | | Pot. - S | | Pot. - T | | It' (A) | Ip (A) | Seção (mm²) | Ic (A) | Icc (kA) | |
| | | | | | (R) | (S) | (T) | (W) | (W) | | | | (W) | (W) | (W) | | | | | | | | | |
| 52 | TUE - CHUV. MASC | F+T | B1 | 220 V | 1015 | 1085 | 2000 | 5300 | 6500 | 6500 | 1 | 6500 | 6500 | R+T | 3250 | | | 3250 | 29,5 | 4 | 32,0 | 5 | 32 | |
| 53 | TUE - CHUV. FEM | F+T | B1 | 220 V | | | | | | 1 | 6500 | 6500 | R+T | 3250 | | | 3250 | 29,5 | 4 | 32,0 | 5 | 32 | | |
| 54 | TUE - AUTOCLOVE 01 | F+T | B1 | 220 V | | | | 1 | | | 2000 | 2000 | S+T | | 1000 | 1000 | 1000 | 11,4 | 9,1 | 2,5 | 24,0 | 5 | 10 | |
| 55 | TUE - AUTOCLOVE 02 | F+T | B1 | 220 V | | | | 1 | | | 2000 | 2000 | R+S | 1000 | 1000 | | | 11,4 | 9,1 | 2,5 | 24,0 | 5 | 10 | |
| 56 | TUE - AR COND. SALA DE REUNIÕES 01 | F+T | B1 | 220 V | | | | | | 1 | 5300 | 5889 | S+T | | 2650 | 2650 | 2650 | 33,5 | 26,8 | 6 | 41,0 | 5 | 32 | |
| 57 | TUE - AR COND. SALA DE REUNIÕES 02 | F+T | B1 | 220 V | | | | | | | 5889 | 5300 | R+S | 2650 | 2650 | | | 33,5 | 26,8 | 6 | 41,0 | 5 | 32 | |
| 58 | TUE - AR COND. SALA DE GERENTE | F+T | B1 | 220 V | | | 1 | | | | 906 | 815 | S+T | | 408 | 408 | 408 | 4,1 | 4,1 | 2,5 | 24,0 | 5 | 16 | |
| 59 | TUE - AR COND. ESTERILIZAÇÃO | F+T | B1 | 220 V | | | | | | 1 | 1206 | 1085 | R+S | 542 | 542 | | | 5,5 | 5,5 | 2,5 | 24,0 | 5 | 16 | |
| 60 | TUE - AR COND. SALA DOS AGENTES 01 | F+T | B1 | 220 V | | | | | | | 5300 | 5889 | S+T | | 2650 | 2650 | 2650 | 26,8 | 26,8 | 4 | 32,0 | 5 | 32 | |
| 61 | TUE - AR COND. SALA DOS AGENTES 02 | F+T | B1 | 220 V | | | | | | | 5889 | 5300 | R+T | 2650 | | 2650 | 2650 | 26,8 | 26,8 | 4 | 32,0 | 5 | 32 | |
| 62 | TUE - TORNEIRA ELÉTRICA | F+T | B1 | 220 V | | | | | | 1 | 6111 | 5500 | R+S | 2750 | 2750 | | | 27,8 | 27,8 | 4 | 32,0 | 5 | 32 | |
| 63 | Reserva | F+T | B1 | 220 V | | | | | | | 1000 | 1000 | R+S | 500 | 500 | | | 4,5 | 4,5 | 1,5 | 17,5 | 3 | 10 | |
| 64 | Reserva | F+N+T | B1 | 127 V | | | | | | | 1000 | 1000 | S | 1000 | | | | 7,9 | 7,9 | 1,5 | 17,5 | 3 | 10 | |
| 65 | Reserva | F+N+T | B1 | 127 V | | | | | | | 1000 | 1000 | S | 1000 | | | | 7,9 | 7,9 | 1,5 | 17,5 | 3 | 10 | |
| TOTAL | | | | | | | 1 | 1 | 2 | 4 | 1 | 2 | 51778 | 48600 | R+S+T | 16592 | 16150 | 15558 | | | | | | |

QD-AR - 127/220V, BARRAMENTO TRIFÁSICO DE COBRE DE 150A, CAPACIDADE PARA 44 DISJUNTORES, 47X86 CM

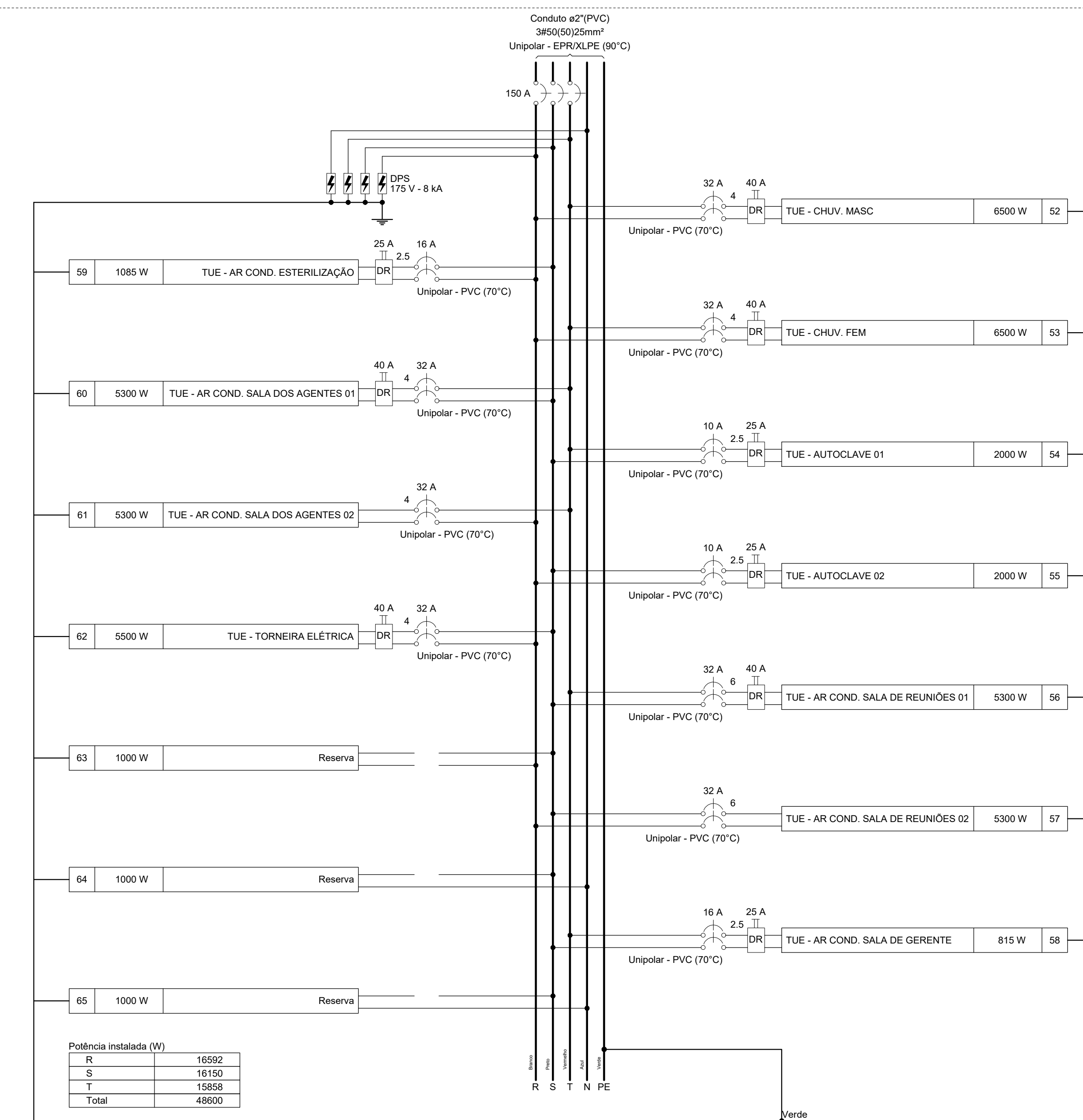


DIAGRAMA MULTIFILAR - QD-AR
ESCALA INDICADA

NOTAS :

- EM TODA DISTRIBUIÇÃO DE CIRCUITOS DEVERÁ SER UTILIZADO CABO DE COBRE, TEMPERA MOLE.
- CABOS E ELETRODUTOS NÃO INDICADOS SERÃO DE #1,5 mm² E Ø3/4".
- TOMADAS NÃO INDICADAS SERÃO DE 10A.
- TODOS OS ELETRODUTOS A SEREM UTILIZADOS DEVERÃO TER DIÂMETRO NOMINAL MÍNIMO DE 3/4".
- OS FIOS E CABOS DEVERÃO SER ESPECIFICADOS CONFORME QUADRO DE CARGAS.
- TODOS OS QUADROS DE DISTRIBUIÇÃO DE CIRCUITO DEVERÃO TER BARRAMENTO DE NEUTRO E TERRA INSTALADOS SOBRE ISOLADORES.
- OS QUADROS DE DISTRIBUIÇÃO DEVERÃO SER LOCALADOS A 1,30M DO NÍVEL DO AMBIENTE INSTALADO, CONSIDERANDO A PARTIR DA BASE.
- OS QUADROS DE DISTRIBUIÇÃO DEVERÃO SER MONTADOS CONFORME ESPECIFICADO NOS DIAGRAMAS UNIFILARES.
- TODOS OS CIRCUITOS DEVERÃO POSSUIR INDICAÇÃO EM SEUS RESPECTIVOS QUADROS.
- TODOS OS DISJUNTORES DEVERÃO SER MONOPOLARES, BIPOLARES OU TRIPOLARES, NÃO PERMITINDO O USO DE DIOS OU TRÊS DISJUNTORES MONOPOLARES ACOPLADOS MECANICAMENTE. (DISJUNTORES PADRÃO DIN).
- OS BARRAMENTOS DE TERRA DEVERÃO SER INTERLIGADOS AO ATERRAMENTO GERAL.
- TODOS OS EQUIPAMENTOS METÁLICOS DEVERÃO SER ATERRAMENTADOS.
- O CONDUTOR DE NEUTRO DEVERÁ SER ISOLADO E SUA BITOLA IGUAL AO CONDUTOR DE FASE SEQUINDO O PADRÃO DE CORES DOS CABOS.
- ELETRODUTOS ENTERRADOS DEVERÃO SER DE PEAD.
- EMENDAS NA INSTALAÇÃO ELÉTRICA SOMENTE DEVERÃO SER EXECUTADAS EM CAIXAS DE PASSAGEM.
- OS CONDUTOS NÃO DEVERÃO ATRAVESSAR AS ESTRUTURAS EM CONCRETO ARMADO (VIGAS E PILARES).
- IDENTIFICAÇÃO DE CORES DOS CONDUTORES:
-FASE R - BRANCO;
-FASE S - PRETO;
-FASE T - VERMELHO;
-NEUTRO - AZUL CLARO;
-TERRA - VERDE-AMARELO;
-RETORNO - AMARELO.
- NORMAS RELACIONADAS AO PROJETO:
16. ABNT NBR 5349 - CABOS NUS DE COBRE MOLE PARA FINS ELÉTRICOS - ESPECIFICAÇÕES.
19. ABNT NBR 5370 - CONECTORES DE COBRE PARA CONDUTORES ELÉTRICOS EM SISTEMAS DE POTÊNCIA.
20. ABNT NBR 5410:2004 - INSTALAÇÕES ELÉTRICAS DE BAIXA TENSÃO;
21. ABNT NBR 5461 - ILUMINAÇÃO.
22. ABNT NBR 5471 - CONDUTORES ELÉTRICOS.
23. ABNT NBR 13552 - 8905-1 - ILUMINAÇÃO DE AMBIENTES DE TRABALHO - PARTE 1: INTERIOR.
24. CEMIG NO S 1 - FORNECIMENTO DE ENERGIA ELÉTRICA EM TENSÃO SECUNDÁRIA - REDE DE DISTRIBUIÇÃO AÉREA - EDIFICAÇÕES INDIVÍDUAS

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|---|----------|---|---------|
| REV. 03 | 22/09/25 | ADEQUAÇÃO DE PROJETO APÓS ANÁLISE DO ESTADO | DAC |
| REV. 02 | 20/05/25 | ADEQUAÇÃO DE PROJETO APÓS ANÁLISE DO ESTADO | DAC |
| REV. 01 | 15/09/24 | ALTERAÇÕES CONFORME SOLICITAÇÕES DA VIGILÂNCIA SANITÁRIA NO PROJ. ARQUITETÔNICO | DAC |
| REV. 00 | 01/11/23 | EMIÇÃO INICIAL | DAC |
| REVISÃO DATA : | | DESCRIÇÃO: | RESP.: |
| CLIENTE | | | |
| | | | |
| PROJETO | | | |
| | | COORDENAÇÃO DE PROJETOS | |
| Rua Cel. Joaquim Francisco, nº 341 Bairro Varginha CEP: 37601-002 - Itajubá / MG Tel: (35) 2143-9087 www.dacengenharia.com.br | | DENIS DE SOUZA SILVA RESPONSÁVEL TÉCNICO CREA-MG-127.216/D | |
| EMPREENHIMENTO | | CONSTRUÇÃO DA UBS DO BAIRRO MORUMBI | |
| ENDEREÇO | | DISCIPLINA | |
| RUA JÚLIO CESAR HUNH, BAIRRO MORUMBI POUSO ALEGRE - MINAS GERAIS | | ELÉTRICA | |
| ASSUNTO | | EXECUTIVO | |
| PROJETO DE INSTALAÇÕES ELÉTRICAS DIAGRAMAS UNIFILARES E MULTIFILARES, QUADROS DE CARGAS E NOTAS | | FOLHA Nº: | |
| DATA INICIAL | | ESCALA | REVISÃO |
| 01/11/2023 | | INDICAÇÃO | R03 |
| ARQUIVO | | D:\CAMP-PA-MRB-PE-ELE-R03.DWG | |