



# ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

P.O. Box 15, SHERWOOD Q. 4075

Phone: (07) 3278 4375

Website: [www.edg.net.au](http://www.edg.net.au) Email: [brisbane@edg.net.au](mailto:brisbane@edg.net.au)

C3684a - CBMG BOWEN HILLS

C3684a-0004(B).xls

DISTRIBUTION BOARD DB-A (GROUND LEVEL)

REVISION B - 14 JULY 2026

|                                                                                                                                                                                                                                                                                                                                |    |                        |                   |                                |           |                                                                      | REV |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------|-------------------|--------------------------------|-----------|----------------------------------------------------------------------|-----|
| FAULT CURRENT:                                                                                                                                                                                                                                                                                                                 |    | 6KA USING CASCADING    |                   | MAIN SWITCH:                   |           | 250A NON AUTO LOAD BREAK<br>SUPPLIED FROM: MSB<br>SUPPLY CABLE: 4C35 | A   |
| CHASSIS SIZE:                                                                                                                                                                                                                                                                                                                  |    | 96 POLE                |                   | SUPPLIED FROM:                 |           |                                                                      | A   |
| CHASSIS RATING:                                                                                                                                                                                                                                                                                                                |    | 250A                   |                   | SUPPLY CABLE:                  |           |                                                                      | B   |
| PHASES:                                                                                                                                                                                                                                                                                                                        |    | 3                      |                   |                                |           |                                                                      | A   |
| PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS. PROVIDE THE DB WITH AN AS2293 EMERGENCY LIGHTING CONTROL SYSTEM TO CONTROL THE ASSOCIATED EMERGENCY LIGHTS. PROVIDE THE DB WITH SURGE PROTECTION. EACH CUBICAL MUST BE 800 WIDE. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS |    |                        |                   |                                |           |                                                                      | A   |
| CIRC                                                                                                                                                                                                                                                                                                                           | PH | CIRCUIT BREAKER (amps) | CONTROL EQUIPMENT | CABLE SIZE ( mm <sup>2</sup> ) | LOCATION  | CIRCUIT USE                                                          |     |
| P1                                                                                                                                                                                                                                                                                                                             |    |                        |                   |                                |           |                                                                      | B   |
| P2                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO              | 2.5                            | MEZZANINE | CRA                                                                  | A   |
| P3                                                                                                                                                                                                                                                                                                                             |    |                        |                   |                                |           |                                                                      | B   |
| P4                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO              | 2.5                            | MEZZANINE | PLANT                                                                | A   |
| P5                                                                                                                                                                                                                                                                                                                             | 3  | 40                     | MCB               | 6.0                            | MEZZANINE | COMPRESSOR                                                           | A   |
| P6                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO              | 2.5                            | SHOWROOM  | GPO                                                                  | A   |
| P7                                                                                                                                                                                                                                                                                                                             |    |                        |                   |                                |           |                                                                      | A   |
| P8                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO              | 2.5                            | SHOWROOM  | GPO                                                                  | A   |
| P9                                                                                                                                                                                                                                                                                                                             | 1  | 20                     | RCBO              | 2.5                            | SHOWROOM  | GPO                                                                  | A   |
| P10                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO              | 2.5                            | SHOWROOM  | GPO                                                                  | A   |
| P11                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO              | 2.5                            | SHOWROOM  | GPO                                                                  | A   |
| P12                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO              | 2.5                            | SHOWROOM  | CLEANING                                                             | A   |
| P13                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO              | 2.5                            | SHOWROOM  | AUTO DOOR                                                            | A   |
| P14                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO              | 2.5                            | AMENITY   | HD                                                                   | A   |
| P15                                                                                                                                                                                                                                                                                                                            | 3  | 40                     | MCB               | 6.0                            |           | 19.7KW HWS                                                           | A   |
| P16                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO              | 2.5                            | SHOWROOM  | GPO                                                                  | A   |
| P17                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO              | 2.5                            | SHOWROOM  | GPO                                                                  | A   |
| P18                                                                                                                                                                                                                                                                                                                            |    |                        |                   |                                |           |                                                                      | B   |
| P19                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO              | 2.5                            | KITCHEN   | COFFEE                                                               | A   |
| P20                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO              | 2.5                            | KITCHEN   | GPO                                                                  | A   |
| P21                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO              | 2.5                            | KITCHEN   | REF                                                                  | A   |
| P22                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO              | 2.5                            | KITCHEN   | DW                                                                   | A   |
| P23                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO              | 2.5                            | KITCHEN   | AUTO BOILER                                                          | A   |
| P24                                                                                                                                                                                                                                                                                                                            | 3  | 40                     | MCB               | 6.0                            | KITCHEN   | 19.7KW HWS                                                           | A   |
| P25                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO              | 2.5                            | WORKSHOP  | PUMP                                                                 | A   |
| P26                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO              | 2.5                            | WORKSHOP  | CLEANING                                                             | A   |
| P27                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO              | 2.5                            | WORKSHOP  | GPO                                                                  | A   |
| P28                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO              | 2.5                            | WORKSHOP  | GPO                                                                  | A   |
| P29                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO              | 2.5                            | WORKSHOP  | TOOLS                                                                | A   |
| P30                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO              | 2.5                            | WORKSHOP  | GPO                                                                  | A   |
| P31                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO              | 2.5                            | CUST KIT  | GPO                                                                  | A   |
| P32                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO              | 2.5                            | WORKSHOP  | SERVICE                                                              | A   |
| P33                                                                                                                                                                                                                                                                                                                            | 3  | 20                     | RCBO              | 2.5                            | WORKSHOP  | RSD                                                                  | A   |
| P34                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO              | 2.5                            | WORKSHOP  | SERVICE                                                              | A   |
| P35                                                                                                                                                                                                                                                                                                                            | 1  | 20                     | RCBO              | 2.5                            | WORKSHOP  | SERVICE                                                              | A   |
| P36                                                                                                                                                                                                                                                                                                                            | 3  | 20                     | RCBO              | 2.5                            | WORKSHOP  | HOIST                                                                | A   |
| P37                                                                                                                                                                                                                                                                                                                            | 3  | 20                     | RCBO              | 2.5                            | WORKSHOP  | HOIST                                                                | A   |
| P38                                                                                                                                                                                                                                                                                                                            | 3  | 20                     | RCBO              | 2.5                            | WORKSHOP  | HOIST                                                                | A   |
|                                                                                                                                                                                                                                                                                                                                |    |                        |                   |                                |           |                                                                      |     |
|                                                                                                                                                                                                                                                                                                                                |    |                        |                   |                                |           |                                                                      |     |
|                                                                                                                                                                                                                                                                                                                                |    |                        |                   |                                |           |                                                                      |     |
|                                                                                                                                                                                                                                                                                                                                |    |                        |                   |                                |           |                                                                      |     |
|                                                                                                                                                                                                                                                                                                                                |    |                        |                   |                                |           |                                                                      |     |
|                                                                                                                                                                                                                                                                                                                                |    |                        |                   |                                |           |                                                                      |     |



# ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

P.O. Box 15, SHERWOOD Q. 4075

Phone: (07) 3278 4375

Website: www.edg.net.au Email: brisbane@edg.net.au

C3684a - CBMG BOWEN HILLS

C3684a-0004(B).xls

DISTRIBUTION BOARD DB-A (GROUND LEVEL)

REVISION B - 14 JULY 2026

| <div>FAULT CURRENT: 6KA USING CASCADING</div> <div>MAIN SWITCH: 250A NON AUTO LOAD BREAK</div> <div>CHASSIS SIZE: 96 POLE</div> <div>SUPPLIED FROM: MSB</div> <div>CHASSIS RATING: 250A</div> <div>SUPPLY CABLE: 4C35</div> <div>PHASES: 3</div>                                                                               |    |                           |                                  |                                   |          |                | REV |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------|----------------------------------|-----------------------------------|----------|----------------|-----|
|                                                                                                                                                                                                                                                                                                                                |    |                           |                                  |                                   |          |                | A   |
|                                                                                                                                                                                                                                                                                                                                |    |                           |                                  |                                   |          |                | A   |
|                                                                                                                                                                                                                                                                                                                                |    |                           |                                  |                                   |          |                | B   |
|                                                                                                                                                                                                                                                                                                                                |    |                           |                                  |                                   |          |                | A   |
| PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS. PROVIDE THE DB WITH AN AS2293 EMERGENCY LIGHTING CONTROL SYSTEM TO CONTROL THE ASSOCIATED EMERGENCY LIGHTS. PROVIDE THE DB WITH SURGE PROTECTION. EACH CUBICAL MUST BE 800 WIDE. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS |    |                           |                                  |                                   |          |                | A   |
| CIRC                                                                                                                                                                                                                                                                                                                           | PH | CIRCUIT<br>BREAKER (amps) | CONTROL<br>EQUIPMENT             | CABLE<br>SIZE ( mm <sup>2</sup> ) | LOCATION | CIRCUIT<br>USE |     |
| L1                                                                                                                                                                                                                                                                                                                             | 1  | 20                        | RCBO                             | 2.5                               | GROUND   | LIGHTING       | A   |
| L2                                                                                                                                                                                                                                                                                                                             | 1  | 20                        | RCBO                             | 2.5                               | GROUND   | LIGHTING       | A   |
| L3                                                                                                                                                                                                                                                                                                                             | 1  | 20                        | RCBO                             | 2.5                               | GROUND   | LIGHTING       | A   |
| L4                                                                                                                                                                                                                                                                                                                             | 1  | 20                        | RCBO                             | 2.5                               | GROUND   | LIGHTING       | A   |
| L5                                                                                                                                                                                                                                                                                                                             | 1  | 20                        | RCBO                             | 2.5                               | GROUND   | LIGHTING       | A   |
| L6                                                                                                                                                                                                                                                                                                                             | 1  | 20                        | RCBO                             | 2.5                               | GROUND   | LIGHTING       | A   |
| L7                                                                                                                                                                                                                                                                                                                             | 1  | 20                        | RCBO                             | 2.5                               | GROUND   | LIGHTING       | A   |
| L8                                                                                                                                                                                                                                                                                                                             | 1  | 20                        | RCBO                             | 2.5                               | GROUND   | LIGHTING       | A   |
| L9                                                                                                                                                                                                                                                                                                                             | 1  | 20                        | RCBO                             | 2.5                               | GROUND   | LIGHTING       | A   |
| L10                                                                                                                                                                                                                                                                                                                            | 1  | 20                        | RCBO                             | 2.5                               | GROUND   | LIGHTING       | A   |
| L11                                                                                                                                                                                                                                                                                                                            | 1  | 20                        | RCBO                             | 2.5                               | GROUND   | LIGHTING       | A   |
| L12                                                                                                                                                                                                                                                                                                                            | 1  | 20                        | RCBO                             | 2.5                               | GROUND   | LIGHTING       | A   |
| L13                                                                                                                                                                                                                                                                                                                            | 1  | 20                        | RCBO                             | 2.5                               | GROUND   | LIGHTING       | A   |
| L14                                                                                                                                                                                                                                                                                                                            |    |                           |                                  |                                   |          |                | B   |
| L15                                                                                                                                                                                                                                                                                                                            | 1  | 20                        | RCBO                             | 2.5                               | GROUND   | LIGHTING       | A   |
| L16                                                                                                                                                                                                                                                                                                                            |    |                           |                                  |                                   |          |                | B   |
| L17                                                                                                                                                                                                                                                                                                                            | 1  | 20                        | RCBO PE CELL ON<br>DUSK OFF DAWN | 2.5                               | EXTERNAL | SIGN           | A   |
| L18                                                                                                                                                                                                                                                                                                                            | 1  | 20                        | RCBO PE CELL ON<br>DUSK OFF DAWN | 2.5                               | EXTERNAL | SIGN           | A   |
|                                                                                                                                                                                                                                                                                                                                |    |                           |                                  |                                   |          |                |     |
|                                                                                                                                                                                                                                                                                                                                |    |                           |                                  |                                   |          |                |     |
|                                                                                                                                                                                                                                                                                                                                |    |                           |                                  |                                   |          |                |     |
|                                                                                                                                                                                                                                                                                                                                |    |                           |                                  |                                   |          |                |     |
|                                                                                                                                                                                                                                                                                                                                |    |                           |                                  |                                   |          |                |     |