

# New Form Filling Features for 2017

## Auto-filling Circuit Reference Numbers

Our software can fill our circuit reference numbers automatically.

### SCHEDULE OF CIRCUIT DETAILS FOR THE INSTALLATION

### REPORT NUMBER

EICR

**To be completed in every case**

Distribution Board (DB) Reference No

Location

Z<sub>s</sub> at DB  Ω

I<sub>pr</sub> at DB  kA

**Complete only if distribution board is not connected directly to the origin of the installation.**

Distribution board is supplied from

Details of distribution circuit

Overcurrent protective device for the distribution circuit:

Type: BS (EN)  Rating  A

At I<sub>Δn</sub> (mA)  RCD No of Poles

No of phases  Nominal voltage  V

Associated RCD (if any):

Type: BS (EN)

**CIRCUIT DESCRIPTION** "Double click to insert N/A into all cells of circuit details and test results." Do not use if you have already entered data!

Right click Circuit Ref boxes to add N/A to rows or to clear row entries

| Circuit Ref                               | Circuit description                       | Type of wiring (see code below)           | Reference method *                        | Number of points served                   | Circuit conductor csa (mm <sup>2</sup> )  | Overcurrent protection                    | RCD / RCBO                                      | Maximum Z <sub>s</sub> permitted by BS 7671 (Ω) |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|   |   |   |   |   | Live                                      | CPC                                       | Max disconnection Time permitted by BS 7671 (s) |   |   |   |   |   |
|   |   |   |   |   |   |   | BS (EN)   | Type  | Rating (A)                                | Breaking capacity (kA)                    | Rated operating current I <sub>Δn</sub>   |   |
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Populate Circuit Ref Fields

Number of Phases

Three Phase Method A - 1L1, 2L2

Range of Ways for this sheet

Just select the type of numbering you require:

- **Single Phase** numbering (1, 2, 3, 4, etc),
- **3 Phase Method A** (as shown below),
- Or **3 Phase Method B** (1L1, 1L2, 1L3, 2L1, 2L2, 2L3 etc).

Choose how many circuits you wish to fill and the rest is done for you.

**CIRCUIT DESCRIPTION** "Double click to insert N/A into all cells of circuit details and test results." Do not use if you have already entered data!

Right click Circuit Ref boxes to add N/A to rows or to clear row entries

| Circuit Ref | Circuit description                       | Type of wiring (see code below)           | Reference method *                        | Number of points served                   | Circuit conductor csa (mm <sup>2</sup> )  | Overcurrent protection                    | RCD / RCBO                                      | Maximum Z <sub>s</sub> permitted by BS 7671 (Ω) |   |   |   |   |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|
|             |   |   |   |   | Live                                      | CPC                                       | Max disconnection Time permitted by BS 7671 (s) |   |   |   |   |   |
|             |   |   |   |   |   |   | BS (EN)   | Type  | Rating (A)                                | Breaking capacity (kA)                    | Rated operating current I <sub>Δn</sub>   |   |
| 1L1         | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/>       | <input style="width: 100%;" type="text"/>       | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> |
| 2L2         | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/>       | <input style="width: 100%;" type="text"/>       | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> |
| 3L3         | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/>       | <input style="width: 100%;" type="text"/>       | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> |
| 4L1         | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/>       | <input style="width: 100%;" type="text"/>       | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> |
| 5L2         | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/>       | <input style="width: 100%;" type="text"/>       | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> |
| 6L3         | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/>       | <input style="width: 100%;" type="text"/>       | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> |
| 7L1         | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/>       | <input style="width: 100%;" type="text"/>       | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> |
| 8L2         | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/>       | <input style="width: 100%;" type="text"/>       | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> | <input style="width: 100%;" type="text"/> |

Note: You can auto-fill continuation sheets and Sub Distribution Board forms circuit ref numbers in the same way.

## Auto-fill Circuit Details

Filling in circuit details can be a tedious job. So to save time, our software allows you to store commonly used circuit values to quickly select from, modify and transfer to the form.

The software comes pre-loaded with domestic, industrial and commercial circuits. You just select from the list, and modify, then click the "Use" button to add the data to the form.

| Ref | ...    | Type (see doc) | Reference | Number of | Live | CPC | Max disconn permitted by | BS (EN) | Type | Rating (A) | Breaking capacity (kA) | Rated operating current (A) | Maximum Zs BS 71 |
|-----|--------|----------------|-----------|-----------|------|-----|--------------------------|---------|------|------------|------------------------|-----------------------------|------------------|
| 1   | COOKER | A              | C         | 1         | 6    | 2.5 | 0.4                      | 60898   | B    | 32         | 10                     | N/A                         | 1.37             |
| 2   |        |                |           |           |      |     |                          |         |      |            |                        |                             |                  |

  

**CIRCUIT TEMPLATE WIZARD**

Circuit Description: LIGHTING 1ST FLOOR    Circuit Conductor Size: 1.5    Overcurrent Protection: 60898

Type of Wiring: A - PVC/PVC cables    Live (mm²): 1.5    BS(EN): 60898

Reference Method: 101 - Twin and Earth cable clipped direct    cpc (mm²): 2.5    Type: B

Number of Points Served: 8    Max disconnect time Permitted by BS7671:    Rating (A): 6

Select Circuit Type:  Domestic     Industrial     Commercial     Spare List    Breaking Capacity: 10

RCD Operating Current IΔn: N/A    Max Zs permitted by BS7671: 7.28    Number of circuits to create: 1

| Circuit Templates      | Type | Ref | Reference | Number of | Live | CPC   | Max disconn permitted by | BS (EN) | Type | Rating (A) | Breaking capacity (kA) | Rated operat current (A) | Maximum Zs BS 71 |
|------------------------|------|-----|-----------|-----------|------|-------|--------------------------|---------|------|------------|------------------------|--------------------------|------------------|
| N/A                    | N/A  | N/A | N/A       | N/A       | N/A  | N/A   | N/A                      | N/A     | N/A  | N/A        | N/A                    | N/A                      | N/A              |
| SPARE                  | N/A  | N/A | N/A       | N/A       | N/A  | N/A   | N/A                      | N/A     | N/A  | N/A        | N/A                    | N/A                      | N/A              |
| SPARE                  | N/A  | N/A | N/A       | N/A       | N/A  | N/A   | N/A                      | N/A     | N/A  | N/A        | N/A                    | N/A                      | N/A              |
| SPARE                  | N/A  | N/A | N/A       | N/A       | N/A  | N/A   | N/A                      | N/A     | N/A  | N/A        | N/A                    | N/A                      | N/A              |
| COOKER                 | A    | C   | 1         | 6         | 2.5  | 0.4   | 60898                    | B       | 32   | 10         | N/A                    | 1.37                     |                  |
| COOKER LARGE           | A    | 101 | 1         | 10        | 4    | 0.4   | 60898                    | B       | 40   | 10         | N/A                    | 1.09                     |                  |
| IMMERSION HEATER       | A    | 101 | 1         | 2.5       | 1.5  | 0.4   | 60898                    | B       | 16   | 10         | 30                     | 2.73                     |                  |
| LIGHTING 1ST FLOOR     | A    | 101 | 1         | 1.5       | 1    | 0.4   | 60898                    | B       | 6    | 10         | N/A                    | 7.28                     |                  |
| LIGHTING 2ND FLOOR     | A    | 101 | 1         | 1.5       | 1    | 0.4   | 60898                    | B       | 6    | 10         | N/A                    | 7.28                     |                  |
| LIGHTING BASEMENT      | A    | 101 | 1         | 1.5       | 1    | 0.4   | 60898                    | B       | 6    | 10         | N/A                    | 7.28                     |                  |
| LIGHTING GROUND FLOOR  | A    | 101 | 1         | 1.5       | 1    | 0.4   | 60898                    | B       | 6    | 10         | N/A                    | 7.28                     |                  |
| RING MAIN 1ST FLOOR    | A    | 101 | 2.5       | 1.5       | 0.4  | 60898 | B                        | 32      | 10   | 30         | 1.37                   |                          |                  |
| RING MAIN 2ND FLOOR    | A    | 101 | 2.5       | 1.5       | 0.4  | 60898 | B                        | 32      | 10   | 30         | 1.37                   |                          |                  |
| RING MAIN BASEMENT     | A    | 101 | 2.5       | 1.5       | 0.4  | 60898 | B                        | 32      | 10   | 30         | 1.37                   |                          |                  |
| RING MAIN GROUND FLOOR | A    | 101 | 2.5       | 1.5       | 0.4  | 60898 | B                        | 32      | 10   | 30         | 1.37                   |                          |                  |
| RING MAIN KITCHEN      | A    | 101 | 2.5       | 1.5       | 0.4  | 60898 | B                        | 32      | 10   | 30         | 1.37                   |                          |                  |
| SHOWER                 | A    | 101 | 1         | 10        | 4    | 0.4   | 60898                    | B       | 40   | 10         | 30                     | 1.09                     |                  |
| STORAGE HEATER         | A    | 101 | 1         | 2.5       | 1.5  | 0.4   | 60898                    | B       | 16   | 10         | N/A                    | 2.73                     |                  |

Buttons: Use, Save & Use, Create New, Save, Import User Circ Desc, Move to different list, Delete

The screenshot below shows the domestic circuit list. Lighting 1<sup>st</sup> Floor circuit has been selected.

The lighting circuit values are displayed above. In this example, the CPC Live value is being changed.

Then either click "Use" button to add the data to the certificate, or "Save and Use" to add the data to the cert and save/update the stored circuit data.

### Notes:

- You can switch to view Industrial or Commercial circuits by clicking the "Select Circuit Type" buttons
- The "Calc MaxZs" button displays red if the Max ZS value needs to be re-calculated.
- You can create/modify as many circuits as you like. The circuits are auto-displayed alphabetically.
- You can display circuits in capitals or lower-case.

## Auto-filling 3-phase circuits

There is the facility for adding 3-phase circuits to the certificate. Choose the circuit type you want, modify the circuit description, choose "Three Phase" option (shown in red box below).

The 3 phases of data are populated onto the form. You can alter details for each phase separately using the dropdown boxes, as shown below.

| Circuit Ref | Circuit description                  | Type of wiring (see code below) | Reference method | Number of points served | Live (mm <sup>2</sup> ) | CPC (mm <sup>2</sup> ) | Max disconnection permitted by BS 76 | BS (EN) | Type | Rating (A) | Breaking capacity (kA) | Rated operating current I <sub>bn</sub> | Maximum Zs permitted BS 7671 (Ω) |
|-------------|--------------------------------------|---------------------------------|------------------|-------------------------|-------------------------|------------------------|--------------------------------------|---------|------|------------|------------------------|---|----------------------------------|
| 1L1         | Lights Emergency Staircase (Far End) | D                               | B                | 7                       | 1.5                     | 1.5                    | 0.4                                  | 60898   | C    | 10         | 10                     | N/A                                     | 2.19                             |
| 2L2         | Lights Emergency Staircase (Near)    | D                               | B                | 11                      | 1.5                     | 1.5                    | 0.4                                  | 60898   | C    | 10         | 10                     | N/A                                     | 2.19                             |
| 3L3         | Lights Main Entrance                 |                                 |                  |                         |                         |                        |                                      |         | C    | 10         | 10                     | N/A                                     | 2.19                             |
| 4L1         |                                      |                                 |                  |                         |                         |                        |                                      |         |      |            |                        |   |                                  |
| 5L2         |                                      |                                 |                  |                         |                         |                        |                                      |         |      |            |                        |   |                                  |
| 6L3         |                                      |                                 |                  |                         |                         |                        |                                      |         |      |            |                        |   |                                  |
| 7L1         |                                      |                                 |                  |                         |                         |                        |                                      |         |      |            |                        |   |                                  |
| 8L2         |                                      |                                 |                  |                         |                         |                        |                                      |         |      |            |                        |   |                                  |
| 9L3         |                                      |                                 |                  |                         |                         |                        |                                      |         |      |            |                        |   |                                  |
| 10L1        |                                      |                                 |                  |                         |                         |                        |                                      |         |      |            |                        |   |                                  |
| 11L2        |                                      |                                 |                  |                         |                         |                        |                                      |         |      |            |                        |   |                                  |

  

|  |    |
|--|----|
| Add Item   | 7  |
|  | 8  |
|  | 9  |
|  | 10 |
| <input checked="" type="checkbox"/> Fill Multiple Rows | 11 |
|  | 12 |
|  | 13 |
|  | 14 |
| Click here or use Tab key to use the selected item     |    |

Note: To alter the circuit descriptions, close the circuit wizard screen with the red cross after it opens, then alter circuit description manually.