REWIRED 1997

0011493 **IPM18**

# ELECTRICAL INSTALLATION CONDITION REPORT

*Issued in accordance with BS 7671: 2018 – Requirements for Electrical Installations*

**Original** (to the person ordering the work)

## PART 1 : DETAILS OF THE CONTRACTOR, CLIENT AND INSTALLATION

### DETAILS OF THE CONTRACTOR

Trading Title: ESHCO ELECTRICAL
Address: 60 FEARNLEY ROAD, HOYLAND, BARNSLEY
Postcode: S74 0AH Tel No: 07896 524310

### DETAILS OF THE CLIENT

Contractor Reference Number (CRN):
Name: STEVEN HOWE
Address: 9 AINSTY ROAD, SHEFFIELD
Postcode: S7 1DJ Tel No: 07976 763841

### DETAILS OF THE INSTALLATION

Occupier:
Address: 29 EASTWOOD ROAD, SHEFFIELD
Postcode: S11 8QE Tel No:

## PART 2 : PURPOSE OF THE REPORT

Purpose for which this report is required: 5 YEAR LANDLORD REPORT

Date(s) when inspection and testing was carried out: (18-05-20) Records available: (NO) Previous inspection report available: (NO) Previous report date: (NONE)

## PART 3 : SUMMARY OF THE CONDITION OF THE INSTALLATION

General condition of the installation (in terms of electrical safety): GOOD CONDITION WITH NEW METALLIC CONSUMER UNIT R.C.D SPLIT WAY BOARD.

Estimated age of electrical installation: (30) years Evidence of additions or alterations: (YES) Overall assessment of the installation is: **Satisfactory**/~~**Unsatisfactory***~~ (*delete as appropriate*)

## PART 4 : DECLARATION

### INSPECTION AND TESTING

I, being the person responsible for the inspection and testing of the electrical installation, particulars of which are described in PART 7, having exercised reasonable skill and care when carrying out the inspection and testing of the existing installation, hereby CERTIFY that the information in this report, including the observations (page 2) and the attached schedules, provides an accurate assessment of the condition of the electrical installation taking into account the stated extent of the installation and the limitations on the inspection and testing.

Name (capitals): J. ESHELBY Signature: J. [signature] Date: 18-05-20

### REVIEWED BY

Name (capitals): J. ESHELBY Signature: J. [signature] Date: 18-05-20

**An unsatisfactory assessment indicates that dangerous (CODE C1) and/or potentially dangerous (CODE C2) conditions have been identified in PART 6, or that Further Investigation (CODE FI) without delay is required.*

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Please see the 'Notes for Recipient'

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## PART 5 : NEXT INSPECTION

I/We (as indicated on page 1) recommend, subject to the necessary remedial work being taken, this installation should be further inspected and tested after an interval of not more than 5 years/~~months*~~ (delete as appropriate)

Give reason for recommendation: EVERY 5 YEARS OR CHANGE OF TENANCY.

## PART 6 : OBSERVATIONS AND RECOMMENDATIONS FOR ACTIONS TO BE TAKEN

| CODES: *One of the following Codes, as appropriate, has been allocated to each of the observations made below to indicate to the person(s) responsible for the electrical installation the degree of urgency for remedial action* | CODE C1 'Danger Present' Risk of injury. Immediate remedial action required | CODE C2 'Potentially Dangerous' Urgent remedial action required | CODE C3 'Improvement Recommended' | CODE FI 'Further Investigation Required' |
|---|---|---|---|---|

**Referring to the Schedule of Items Inspected (see PART 10), the attached Schedule of Circuit Details and Test Results (see PART 12), and subject to any agreed limitations listed in PART 7:**

There are no items adversely affecting electrical safety (.....), OR The following observations and recommendations for action are made:

| Item No | Observation(s) | Code | Location Reference |
|---|---|---|---|
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |
| (.....) | (.....) | (.....) | (.....) |

Additional pages? (.....) State page numbers: (.....)

**Immediate action required** for items: (.....) **Improvement recommended** for items: (.....)

**Urgent remedial action required** for items: (.....) **Further investigation required** for items: (.....)

**The proposed date for the next inspection should take into consideration any legislative or licensing requirements and the frequency and quality of maintenance that the installation can reasonably be expected to receive during its intended life. The period should be agreed between relevant parties.*

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# ELECTRICAL INSTALLATION CONDITION REPORT

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**Original** (to the person ordering the work)

## PART 7 : DETAILS AND LIMITATIONS OF THE INSPECTION AND TESTING

The inspection and testing has been carried out in accordance with *BS 7671: 2018*, as amended. Cables concealed within trunking and conduits, or cables and conduits concealed under floors, in inaccessible roof spaces and generally within the fabric of the building or underground, have not been visually inspected unless specifically agreed between the Client and the Inspector prior to inspection.

Details of the installation covered by this report: FIXED WIRING ONLY

(see additional page No. )

Agreed limitations including the reasons, if any, on the inspection and testing: 30% OF ACCESSORIES REMOVED FOR VISUAL INSPECTION

Agreed with (print name): STEVEN HOWE

Extent of sampling: CONSUMER UNIT, VARIOUS SOCKETS AND LIGHTS (see additional page No. )

Operational limitations including the reasons: NONE (see additional page No. )

## PART 8 : SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

**System type and earthing arrangements**

TN-C-S: ( ) TN-S: (✓) TT: ( )

Other *(state)*:

**Supply protective device**

(BS (EN) 1361)

Type: (II) Rated current: (100) A

**Number and type of live conductors**

**AC** 1-phase, 2-wire: (✓) 2-phase, 3-wire: ( )

3-phase, 3-wire: ( ) 3-phase, 4-wire: ( )

**DC** 2-wire: ( ) 3-wire: ( ) **Other:** ( )

Confirmation of supply polarity: (✓)

Other sources of supply *(as detailed on attached schedule)* Page No:(N/A)

**Nature of supply parameters**

Nominal line voltage, $U$ [1]: (230) V

Nominal line voltage to Earth, $U_0$ [1]: (230) V

Nominal frequency, $f$ [1]: (50) Hz

Prospective fault current, $I_{pf}$ [1]*: (1.20) kA

External loop impedance, $Z_e$ [1]*: (0.20) Ω

[1] *By enquiry, measurement, or by calculation*

## PART 9 : PARTICULARS OF INSTALLATION REFERRED TO IN THIS REPORT

**Means of Earthing**

Distributor's facility: (✓)

Installation earth electrode: (N/A)

**Where an earth electrode is used insert**

Type – rod(s), tape, etc: (N/A)

Location: (N/A)

Electrode resistance to Earth: (N/A) Ω

**Main protective conductors**

Earthing conductor:

(material COPPER csa 16 mm²)

Connection / continuity verified: (✓)

Main protective bonding conductors:

(material COPPER csa 10 mm²)

Connection / continuity verified: (✓)

**Main protective bonding connections**

Water installation pipes: (✓)

Gas installation pipes: (✓)

Structural steel: ( )

Oil installation pipes: ( )

Lightning protection: ( )

Other *(state)*:

**Main switch / Switch-fuse / Circuit-breaker / RCD**

Type: (BS (EN) 60947-3)

Location: (LOUNGE)

No. of poles: (2) Rating / setting of device: (100) A

Current rating: (100) A Voltage rating: (230) V

**Where an RCD is used as the main switch**

RCD rated residual operating current, $I_{\Delta n}$: (N/A) mA

RCD measured operating time: (N/A) ms Rated time delay: (N/A) ms

**Where the installation is supplied by more than one source, the higher or highest values of prospective fault current, $I_{pf}$, and external earth fault loop impedance, $Z_e$, must be recorded.*

***All fields must be completed.*** *Enter either, as appropriate: '✓' if Acceptable condition;* ***'N/A'*** *if Not applicable;* ***'LIM'*** *if a Limitation exists; or Code appropriately – CODE* ***'C1'****,* ***'C2'****,* ***'C3'*** *or* ***'FI'*** *(codes to be recorded in PART 6, with additional comments (where appropriate) on attached numbered sheets)*

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# ELECTRICAL INSTALLATION CONDITION REPORT

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Original (to the person ordering the work)

## PART 10 : SCHEDULE OF ITEMS INSPECTED

**1. External condition of electrical intake equipment (visual inspection only)**
(If inadequacies are identified with the intake equipment, it is recommended the person ordering the report informs the appropriate authority.)

1.1 Service cable: (✓) 1.2 Service head: (✓)
1.3 Earthing arrangement: (✓) 1.4 Meter tails: (✓)
1.5 Metering equipment: (✓) 1.6 Isolator (where present): (✓)

**2. Presence of adequate arrangements for parallel or switched alternative sources**

2.1 Adequate arrangements where a generating set operates as a switched alternative to the public supply: (N/A)
2.2 Adequate arrangements where generating set operates in parallel with the public supply: (N/A)
2.3 Presence of alternative / additional supply arrangement warning notice(s) at or near equipment, where required: (N/A)

**3. Automatic disconnection of supply**

3.1 Main earthing and bonding arrangements
- a) Presence and condition of distributor's earthing arrangement: (✓)
- b) Presence and condition of earth electrode arrangement, if present: (N/A)
- c) Adequacy of earthing conductor size: (✓)
- d) Adequacy of earthing conductor connections: (✓)
- e) Accessibility of earthing conductor connections: (✓)
- f) Adequacy of main protective bonding conductor size(s): (✓)
- g) Adequacy of main protective bonding conductor connections: (✓)
- h) Accessibility of main protective bonding connections: (✓)
- i) Accessibility and condition of other protective bonding connections: (✓)
- j) Provision of earthing / bonding labels at all appropriate locations: (✓)

3.2 FELV
- a) Source providing at least simple separation: (N/A)
- b) Plugs, socket-outlets and the like not interchangeable with those of other systems within the premises: (N/A)

**4. Other methods of protection** (.....)
Details should be provided on separate sheets: Page No. (N/A)

**5. Distribution equipment**

5.1 Adequacy of working space / accessibility of equipment: (✓)
5.2 Security of fixing: (✓)
5.3 Condition of insulation of live parts: (✓)
5.4 Adequacy / security of barriers: (✓)
5.5 Condition of enclosure(s) in terms of IP rating: (✓)
5.6 Condition of enclosure(s) in terms of fire rating: (✓)
5.7 Enclosure not damaged / deteriorated so as to impair safety: (✓)
5.8 Presence and effectiveness of obstacles: (✓)
5.9 Presence of main switch(es), linked where required: (✓)
5.10 Operation of main switch(es) *(functional check)*: (✓)
5.11 Correct identification of circuit protective devices: (✓)
5.12 Adequacy of protective devices for prospective fault current: (✓)
5.13 RCD(s) provided for fault protection – includes RCBOs: (✓)
5.14 RCD(s) provided for additional protection – includes RCBOs: (✓)
5.15 RCD(s) provided for protection against fire – includes RCBOs: (✓)
5.16 Manual operation of circuit-breakers and RCDs to prove disconnection: (✓)
5.17 Confirmation that integral test button/switch causes RCD(s) to trip when operated (functional check) (✓)
5.18 Presence of RCD six-monthly retest notice at or near equipment, where required: (✓)
5.19 Presence of diagrams, charts or schedules at or near equipment, where required: (✓)
5.20 Presence of non-standard (mixed) cable colour warning notices at or near equipment, where required: (✓)
5.21 Presence of next inspection recommendation label: (✓)
5.22 All other required labelling provided: (✓)
5.23 Compatibility of protective device(s), base(s) and other components: (✓)
5.24 Single-pole switching or protective devices in line conductors only: (✓)
5.25 Protection against mechanical damage where cables enter equipment: (✓)
5.26 Protection against electromagnetic effects where cables enter ferromagnetic enclosures: (✓)

**6. Distribution / final circuits**

6.1 Identification of conductors: (✓)
6.2 Cables correctly supported throughout their length: (LIM)
6.3 Condition of insulation of live parts: (✓)
6.4 Non-sheathed cables protected by enclosures in conduit, ducting or trunking: (N/A)
6.5 Suitability of containment systems for continued use *(including flexible conduit)*: (N/A)
6.6 Cables correctly terminated in enclosures *(indicate extent of sampling in PART 7 of report)*: (✓)
6.7 Indication of SPD(s) continued functionality confirmed: (N/A)
6.8 Adequacy of AFDD(s), where specified: (N/A)
6.9 Confirmation that conductor connections, including connections to busbars are correctly located in terminals and are tight and secure: (✓)
6.10 Examination of cables for signs of unacceptable thermal and mechanical damage / deterioration: (✓)
6.11 Adequacy of cables for current-carrying capacity with regard to the type and nature of installation: (✓)
6.12 Adequacy of protective devices; type and rated current for fault protection: (✓)
6.13 Presence and adequacy of circuit protective conductors: (✓)
6.14 Co-ordination between conductors and overload protective devices: (✓)
6.15 Cable installation methods / practices appropriate to the type and nature of installation and external influences: (✓)
6.16 Cables where exposed to direct sunlight, of a suitable type or adequately protected against solar radiation: (✓)
6.17 Cables adequately protected against damage and abrasion: (✓)

***All fields must be completed.*** *Enter either, as appropriate: '✓' if Acceptable condition;* ***'N/A'*** *if Not applicable;* ***'LIM'*** *if a Limitation exists; or Code appropriately – CODE* ***'C1'****,* ***'C2'****,* ***'C3'*** *or* ***'FI'*** *(codes to be recorded in PART 6, with additional comments (where appropriate) on attached numbered sheets)*

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# ELECTRICAL INSTALLATION CONDITION REPORT

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**Original** (to the person ordering the work)

## PART 10 : SCHEDULE OF ITEMS INSPECTED

6.18 Provision of additional protection by an RCD not exceeding 30 mA
- a) For all socket-outlets with a rated current not exceeding 32 A, unless exempt: (✓)
- b) Supplies for mobile equipment with a rated current not exceeding 32 A for use outdoors: (✓)
- c) For cables concealed in walls / partitions at a depth of less than 50 mm: (✓)
- d) For cables concealed in walls / partitions containing metal parts regardless of depth: (✓)
- e) Circuits supplying luminaires within domestic (household) premises: (✓)

***Note:*** *Older installations designed prior to BS 7671: 2018 may not have been provided with RCDs for additional protection.*

6.19 Provision of fire barriers, sealing arrangements and protection against thermal effects: (LIM)

6.20 Band II cables segregated / separated from Band I cables: (✓)

6.21 Cables segregated / separated from non-electrical services: (✓)

6.22 Termination of cables at enclosures *(indicate extent of sampling in PART 7 of report)*
- a) Connections under no undue strain: (✓)
- b) No basic insulation of a conductor visible outside an enclosure: (✓)
- c) Connections of live conductors adequately enclosed: (✓)
- d) Adequacy of connection at point of entry to enclosure: (✓)

6.23 Temperature rating of cable insulation addequate: (✓)

6.24 Condition of accessories including socket-outlets, switches and joint boxes satisfactory: (✓)

6.25 Suitability of accessories for external influences: (✓)

6.26 Single-pole switching or protective devices in line conductors only: (✓)

6.27 Adequacy of connections, including cpcs, within accessories and to fixed and stationary equipment: (✓)

**7. Isolation and switching**

7.1 Isolators
- a) Presence and condition of appropriate devices: (✓)
- b) Acceptable location (local / ~~remote~~): (✓)
- c) Capable of being secured in the OFF position: (✓)
- d) Correct operation verified: (✓)
- e) Clearly identified by position and / or durable markings: (✓)
- f) Warning label posted in situations where live parts cannot be isolated by the operation of a single device: (N/A)

7.2 Switching off for mechanical maintenance
- a) Presence and condition of appropriate devices: (N/A)
- b) Acceptable location: (N/A)
- c) Capable of being secured in the OFF position: (N/A)
- d) Correct operation verified: (N/A)
- e) Clearly identified by position and / or durable marking(s): (N/A)

7.3 Emergency switching off / stopping
- a) Presence and condition of appropriate devices: (N/A)
- b) Readily accessible for operation where danger might occur: (N/A)
- c) Correct operation verified: (N/A)

7.4 Functional switching
- a) Presence and condition of appropriate devices: (✓)
- b) Correct operation (functionality) verified: (✓)

**8. Current-using equipment *(permanently connected)***

8.1 Condition of equipment in terms of IP rating: (✓)

8.2 Equipment does not constitute a fire hazard: (✓)

8.3 Enclosure not damaged / deteriorated so as to impair safety: (✓)

8.4 Suitability for the environment and external influences: (✓)

8.5 Security of fixing: (✓)

8.6 Cable entry holes in ceiling above luminaires, sized or sealed so as to restrict the spread of fire: (✓)

List number and location of luminaires inspected on a separate page: Page No. (N/A)

8.7 Recessed luminaires (e.g. downlighters)
- a) Correct type of lamps fitted: (N/A)
- b) Installed to minimise build-up of heat: (N/A)
- c) No signs of overheating to surrounding building fabric: (N/A)
- d) No signs of overheating to conductors / terminations: (N/A)

**9. List all special installations or locations covered by this report:**

(N/A)
BATHROOM
( )
( )
( )

*Indicate if the relevant requirements of Part 7 are satisfied and append results of inspection on a separate numbered page.*

## SCHEDULE OF ITEMS INSPECTED BY

Name (capitals): J. ESHELBY

Signature: J. E Date: 18-05-20

## PART 11 : SCHEDULES AND ADDITIONAL PAGES

| Schedule of Inspections | Schedule of Circuit Details and Test Results for the installation | Additional pages, including data sheets for additional sources | Special installations or locations *(indicated in item 9. above)* | Continuation sheets |
|---|---|---|---|---|
| Page No(s): 4 & 5 | Page No(s): 6 | Page No(s): N/A | Page No(s): N/A | Page No(s): N/A |

*The pages identified are an essential part of this report (see Regulation 653.2).*

***All fields must be completed.*** *Enter either, as appropriate: '✓' if Acceptable condition;* ***'N/A'*** *if Not applicable;* ***'LIM'*** *if a Limitation exists; or Code appropriately – CODE* ***'C1'****,* ***'C2'****,* ***'C3'*** *or* ***'FI'*** *(codes to be recorded in PART 6, with additional comments (where appropriate) on attached numbered sheets)*

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Enter a (✓) or value in the respective fields, as appropriate.



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**Original** (to the person ordering the work)

## PART 12 : SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS

Circuits/equipment vulnerable to damage when testing ... SMOKE ALARMS

CODES for Type of wiring: (A) Thermoplastic insulated / sheathed cables; (B) Thermoplastic cables in metallic conduit; (C) Thermoplastic cables in non-metallic conduit; (D) Thermoplastic cables in metallic trunking; (E) Thermoplastic cables in non-metallic trunking; (F) Thermoplastic / SWA cables; (G) Thermosetting / SWA cables; (H) Mineral-insulated cables; (O) other - state:

| Circuit number | Circuit description | Type of wiring (see Codes) | Reference Method (BS 7671) | Number of points served | Circuit conductor csa: Live (mm²) | Circuit conductor csa: cpc (mm²) | Max. disconnection time (BS 7671) (s) | Protective device: BS (EN) | Protective device: Type | Protective device: Rating (A) | Protective device: Short-circuit capacity (kA) | RCD: Operating current, $I_{\Delta n}$ (mA) | Maximum permitted $Z_s$ for installed protective device* (Ω) | Circuit impedances (Ω): Ring final circuits only (measured end to end): (Line) $r_1$ | Ring final circuits only: (Neutral) $r_n$ | Ring final circuits only: (cpc) $r_2$ | All circuits (complete at least one column): $(R_1 + R_2)$ | All circuits: $R_2$ | Insulation resistance: Live / Live (MΩ) | Insulation resistance: Live / Earth (MΩ) | Insulation resistance: Test voltage DC (V) | Polarity (✓) | Max. measured earth fault loop impedance, $Z_s$ (Ω) | RCD operating time (ms) | Test buttons: RCD (✓) | Test buttons: AFDD (✓) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | COOKER | A | A | 1 | 6 | 2.5 | 0.4 | 60898 | B | 40 | 6 | 30 | 0.87 | | | | 0.14 | | 200 | 200 | 500 | ✓ | 0.34 | 34 | ✓ | N/A |
| 2 | RING CIRCUIT | A | A | 10 | 2.5 | 1.5 | 0.4 | 60898 | B | 32 | 6 | 30 | 1.08 | 0.64 | 0.64 | 0.80 | 0.63 | | 200 | 200 | 500 | ✓ | 0.83 | 34 | ✓ | N/A |
| 3 | LIGHTING + SMOKES | A | A | 9 | 1 | 1 | 0.4 | 60898 | B | 6 | 6 | 30 | 5.82 | | | | 1.0 | | 200 | 200 | 500 | ✓ | 1.20 | 34 | ✓ | N/A |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | KITCHEN SOCKETS | A | A | 5 | 2.5 | 1.5 | 0.4 | 60898 | B | 32 | 6 | 30 | 1.08 | 0.09 | 0.09 | 0.18 | 0.19 | | 200 | 200 | 500 | ✓ | 0.39 | 43 | ✓ | N/A |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | | |

**DISTRIBUTION BOARD (DB) DETAILS** (to be completed in every case)
DB designation: DB 1
Location of DB: LOUNGE

**TESTED BY**
Name (capitals): J. ESMECBY
Signature: J. E
Position: ELECTRICIAN
Date: 18-05-20

### TO BE COMPLETED ONLY IF THE DB IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

Supply to DB is from: ( ) Nominal voltage: ( ) V No. of phases: ( )
**Overcurrent protection device for the distribution circuit** Type: (BS EN ) Rating: ( ) A
**Associated RCD (if any)** Type: (BS EN ) No. of poles: ( ) $I_{\Delta n}$ ( ) mA Operating time ( ) ms
**Characteristics at this DB** Confirmation of supply polarity: ( ) Phase sequence confirmed (where appropriate): ( ) $Z_s$ ( ) Ω $I_{pf}$ ( ) kA

### TEST INSTRUMENTS (enter serial number against each instrument used)

Multi-function: (1051033 2)
Continuity: ( )
Insulation resistance: ( )
Earth fault loop impedance: ( )
Earth electrode resistance: ( )
RCD: ( )

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*Where figure is not taken from *BS 7671*, state source: ( )