



Richard Bell Electrical Ltd

# DOMESTIC ELECTRICAL INSTALLATION CONDITION REPORT

## Small installations up to 100 A single phase supply

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

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616114

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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\*  
Give reason for recommendation: ..... (see additional page No. N/A)

### 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 F '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
1	DB 1 CIRCUIT 4 LIGHTING CIRCUIT HAS NO RCD PROTECTION	C3	
2	Distribution boards 1 & 2 made from combustible materials	C3	

Additional pages? (N/A) State page numbers: (N/A)

Immediate action required for items: ( ) Improvement recommended for items: (1, 2)

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.*



**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:**

Visual inspection to distributors equipment and electric meter, Inspection and Testing of distribution board 1 and connected final circuits.

(see additional page No. N/A)

**Agreed limitations including the reasons, if any, on the inspection and testing:**

No dismantling/removal of fitted kitchen units or appliances, items above 3 metres from floor level will be visually inspected only unless specified by customer, Attic spaces will not be accessed unless specified, Zs or Zdb readings will be calculated.

(see additional page No. N/A)

**Extent of sampling: (inspection only)** A Sampling process of 33% of the condition of joints and accessories shall be applied. Operational limitations including the reasons: The characteristics of the primary supply protective device were not verified as the incoming service cable and meter were sealed.

(see additional page No. N/A)  
(see additional page No. N/A)

**PART 8 : SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS**

**System type and earthing arrangements**

TN-C-S:  TN-S:  TT:

Other (state): .....

**Number and type of live conductors**

AC 1-phase, 2-wire:

Other (state): (n/a)

**Nature of supply parameters**

Nominal line voltage to Earth,  $U_0$ :

(230) V

(1) By enquiry measurement, or by calculation

Nominal frequency,  $f$ :

(50) Hz

Prospective fault current,  $I_{pf}$  (1)\*:

(1.24) kA

External loop impedance,  $Z_e$  (1)\*:

(0.19)  $\Omega$

Supply protective device (BS (EN) 1361 Fuse HBC .....

Rated current: (100) A

Other sources of supply: (as detailed on attached schedule) Page No: (n/a)

**PART 9 : PARTICULARS OF INSTALLATION REFERRED TO IN THIS CERTIFICATE**

Means of Earthing	Main protective conductors	Main protective bonding connections	Main switch / Switch-fuse / Circuit-breaker / RCD
Distributor's facility: ( <input checked="" type="checkbox"/> )	Earthing conductor: ( <input checked="" type="checkbox"/> )	Water installation pipes: ( <input checked="" type="checkbox"/> )	Type: (BS (EN) BS EN 60947-3)
Installation earth electrode: (N/A)	Material Copper: (material) csa 16 mm <sup>2</sup>	Gas installation pipes: ( <input checked="" type="checkbox"/> )	Location: (BY FRONT DOOR)
Where an earth electrode is used insert Type - rod(s), tape, etc: (n/a)	Connection / continuity verified: <input checked="" type="checkbox"/>	Structural steel: ( )	No. of poles: (2) A
Location: (n/a)	Main protective bonding conductors: (material) Copper: ( ) csa 10 mm <sup>2</sup>	Oil installation pipes: ( )	Current rating: (100) A
Electrode resistance to Earth: (n/a) $\Omega$	Connection / continuity verified: <input checked="" type="checkbox"/>	Lightning protection: ( )	Other (state): ( )
		Where an RCD is used as the main switch	RCD rated residual operating current, $I_{\Delta n}$ : (n/a) mA
			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;  if Not applicable;  if a Limitation exists; or Code appropriately - CODE 'C1', 'C2', 'C3' or 'F1' (codes to be recorded in PART 6, with additional comments (where appropriate) on attached numbered sheets)



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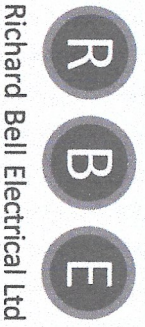
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**PART 10 : SCHEDULE OF ITEMS INSPECTED**

1. External condition of 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.)		4. Consumer unit(s) / Distribution board(s)	
1.1 Service cable:	(✓)	4.1 Adequacy of working space / accessibility to consumer unit / distribution board:	(✓)
1.2 Service head:	(✓)	4.2 Security of fixing:	(✓)
1.3 Earthing arrangement:	(✓)	4.3 Condition of enclosure(s) in terms of IP rating:	(✓)
1.4 Meter tails:	(✓)	4.4 Condition of enclosure(s) in terms of fire rating:	(C3)
a) Cutout fuse to meter	(✓)	4.5 Enclosure not damaged / deteriorated so as to impair safety:	(✓)
b) Meter to consumer unit	(✓)	4.6 Presence of linked main switch:	(✓)
1.5 Metering equipment:	(✓)	4.7 Operation of main switch(es) (functional check):	(✓)
1.6 Isolator (where present):	(✓)	4.8 Main switch capable of being secured in the OFF position:	(✓)
2. Presence of adequate arrangements for other sources	(✓)	4.9 Operation of circuit-breakers and RCDs to prove disconnection (functional check):	(✓)
2.1 Adequate arrangements where a generating set operates as a switched alternative to the public supply:	(N/A)	4.10 Correct identification of circuits and protective devices:	(✓)
2.2 Adequate arrangements where generating set operates in parallel with the public supply:	(N/A)	4.11 Presence of appropriate circuit charts, warning and other notices:	(✓)
2.3 Presence of alternative / additional supply warning notices:	(N/A)	a) Provision of circuit charts/schedules or equivalent forms of information	(✓)
3. Earthing and bonding arrangements	(✓)	b) Warning notice of method of isolation where live parts not capable of being isolated by a single device	(✓)
3.1 Presence and condition of distributors earthing arrangement:	(✓)	c) Periodic inspection and testing notice	(✓)
3.2 Presence and condition of earth electrode connection, where appropriate:	(N/A)	d) Presence of RCD six-monthly notice, where required	(✓)
3.3 Confirmation of adequate earthing conductor size:	(✓)	e) Warning notice of non-standard (mixed) colours of conductors present	(✓)
3.4 Accessibility and condition of earthing conductor at Main Earthing Terminal (MET):	(✓)	f) All other required labelling provided	(✓)
3.5 Confirmation of adequate main protective bonding conductor sizes:	(✓)	4.12 Compatibility of protective device(s), basel(s) and other components: correct type and rating (no signs of unacceptable thermal damage, arcing or overheating):	(✓)
3.6 Accessibility and condition of main protective bonding conductor connections:	(✓)	4.13 Single-pole switching or protective devices in the line conductors only:	(✓)
3.7 Accessibility and condition of other protective bonding connections:	(✓)	4.14 Protection against mechanical damage where cables enter consumer unit / distribution board:	(✓)
3.8 Provision of earthing and bonding labels at all appropriate locations:	(✓)	4.15 Protection against electromagnetic effects where cables enter metallic consumer unit / enclosure:	(✓)
		4.16 RCDs provided for fault protection - includes RCBOs:	(✓)
		4.17 RCDs provided for additional protection - includes RCBOs:	(✓)
		4.18 Confirmation of indication that SPD is functional:	(N/A)
		4.19 Adequacy of AFDD(s), where specified:	(N/A)
		4.20 Confirmation that conductor connections, including connections to busbars, are correctly located in terminals and are tight and secure:	(✓)
		5. Distribution / final circuits	(✓)
		5.1 Identification of conductors:	(✓)
		5.2 Cables correctly supported throughout:	(✓)
		5.3 Condition of insulation of live parts:	(✓)
		5.4 Non-sheathed live conductors protected by enclosure in conduit, ducting or trunking (including confirmation of the integrity of conduit and trunking systems):	(✓)
		5.5 Adequacy of cables for current-carrying capacity with regard to the type and nature of installation:	(✓)
		5.6 Adequacy of protective devices: type and rated current for fault protection:	(✓)
		5.7 Presence and adequacy of circuit protective conductors:	(✓)
		5.8 Co-ordination between conductors and overload protection devices:	(✓)
		5.9 Wiring system(s) appropriate for the type and nature of the installation and external influences:	(✓)
		5.10 Cables adequately protected against mechanical damage and abrasion:	(✓)
		5.11 Provision of additional protection by 30 mA RCD (see Note):	(✓)
		a) For all socket-outlets with a rated current not exceeding 32 A	(✓)
		b) For mobile equipment not exceeding a rating of 32 A for use outdoors	(✓)
		c) For cables concealed in walls / partitions at a depth of less than 50 mm	(✓)

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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**PART 10 : SCHEDULE OF ITEMS INSPECTED**

<p>d) For cables concealed in walls / partitions containing metal parts regardless of depth</p> <p>e) For all AC final circuits supplying luminaires</p> <p><i>Note: Older installations designed prior to BS 7671: 2008 may not have been provided with RCDS for additional protection.</i></p> <p>5.12 Provision of fire barriers, sealing arrangements and protection against thermal effects: (✓)</p> <p>5.13 Band II cables segregated / separated from Band I cables: (✓)</p> <p>5.14 Cables segregated / separated from communications cabling: (✓)</p> <p>5.15 Cables segregated / separated from non-electrical services: (✓)</p> <p>5.16 Termination of cables at enclosures (extent of sampling indicated in PART 7 of the report): (✓)</p> <p>a) Connections soundly made and under no undue strain (✓)</p> <p>b) No basic insulation of a conductor visible outside enclosure (✓)</p> <p>c) Connection of live conductors adequately enclosed (✓)</p> <p>d) Adequately connected at point of entry to enclosure (✓)</p> <p>5.17 Condition of accessories including socket-outlets, switches and joint boxes is satisfactory: (✓)</p> <p><b>6. Isolation and switching</b>  (isolation, switching off for mechanical maintenance and functional switching)</p> <p>6.1 In general: (✓)</p> <p>a) Presence and condition of appropriate devices (✓)</p> <p>b) Correct operation verified (✓)</p> <p>6.2 For isolation and switching for mechanical maintenance only: (✓)</p> <p>a) Capable of being secured in the OFF position, where appropriate: (✓)</p>	<p>b) Acceptable location (local / remote) (✓)</p> <p>c) Clearly identified by position and / or durable marking(s) (✓)</p> <p>6.3 For isolation only: (✓)</p> <p>a) Warning label(s) posted in situations where live parts cannot be isolated by the operation of a single device (✓)</p> <p><b>7. Current-using equipment</b> (permanently connected)</p> <p>7.1 Condition of equipment in terms of IP rating: (✓)</p> <p>7.2 Equipment does not constitute a fire hazard: (✓)</p> <p>7.3 Enclosure not damaged / deteriorated so as to impair safety: (✓)</p> <p>7.4 Suitability for the environment and external influences: (✓)</p> <p>7.5 Security of fixing: (✓)</p> <p>7.6 Cable entry holes in ceiling above luminaires, sized or sealed so as to restrict the spread of fire: (✓)</p> <p>List number and location of luminaires inspected on a separate page: (✓)</p> <p>7.7 Recessed luminaires (downlights): (✓)</p> <p>a) Correct type of lamps fitted (✓)</p> <p>b) Installed to minimise build-up of heat (✓)</p> <p>c) No signs of overheating to surrounding building fabric (✓)</p> <p>d) No signs of overheating to conductors / terminations (✓)</p> <p><b>8. Locations containing a bath or shower</b></p> <p>8.1 Additional protection by RCD not exceeding 30 mA: (✓)</p> <p>a) For low voltage circuits serving the location (✓)</p> <p>b) For low voltage circuits passing through Zone 1 and Zone 2 not serving the location (✓)</p>	<p>8.2 Where used as a protective measure, requirements for SELV or PELV are met: (N/A)</p> <p>8.3 Shaver sockets comply with BS EN 61558-2-5 (formerly BS 5535): (N/A)</p> <p>8.4 Presence of supplementary bonding conductors unless not required by BS 7671: 2018: (✓)</p> <p>8.5 Low voltage (e.g. 250 volts) socket-outlets sited at least 3 m from Zone 1: (✓)</p> <p>8.6 Suitability of equipment for external influences for installed location in terms of IP rating: (✓)</p> <p>8.7 Suitability of equipment for installation in a particular zone: (✓)</p> <p><b>9. Other Part 7 special installations or locations</b></p> <p>List of all other special installations or locations, if any, present:</p> <p>( )</p> <p>( )</p> <p>( )</p> <p>( )</p> <p>( )</p> <p>( )</p> <p>( )</p> <p>( )</p>	<p><i>Indicate if the relevant requirements of Part 7 are satisfied and append results of inspection on a separate numbered page.</i></p> <p><b>SCHEDULE OF ITEMS INSPECTED BY</b></p> <p>Name (capital): <u>Mr Richard Bell</u></p> <p>Signature: <i>Richard Bell</i></p> <p>Date: <u>08/06/2021</u></p>
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**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): ( )	Page No(s): ( )	Page No(s): (N/A )

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





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

Circuits/equipment vulnerable to damage when testing:

Circuit number	Circuit description <small>*Where this consumer unit is remote from the origin of the installation, record details of the circuit supplying this consumer unit on the first line.</small>	Type of wiring (see Codes)	Reference Method (BS 7671)	Circuit conductor csa		Max. disconnection time (BS 7671) (s)	Protective device BS (EN)	RCD			Circuit impedances (Ω)			Insulation resistance		Polarity	Max. measured earth fault loop impedance, Zs (Ω)	RCD operating time (ms)	Test buttons RCD AFDD				
				Live (mm <sup>2</sup> )	CPC (mm <sup>2</sup> )			Operating current, I <sub>Δn</sub> (mA)	Maximum permitted Zs for installed protective device** (Ω)	Ring final circuits only (measured end to end) (Time) (s)	(Neutral) (m)	(CPC) (m)	(R+Rn) (MΩ)	(Rn) (MΩ)	Live / Live (MΩ)					Live / Earth (MΩ)	Test voltage DC (V)		
4	LIGHTS DOWNSTAIRS	A	100	5	1	0.40	3871 MCB	2	6	6	N/A	5.2	N/A	N/A	1.06	N/A	LIM	882	500	✓	1.25	N/A	✓
A	SHOWER	A	100	1	6	0.40	3871 MCB	2	32	6	30	0.98	N/A	N/A	0.12	N/A	+999	+999	500	✓	0.31	12.40	✓
B	SOCKETS, KITCHEN, HALL, LANDING, BEDROOM 1	A	100	7	2.5	0.40	3871 MCB	2	32	6	30	0.98	0.45	0.45	0.30	N/A	+999	+999	500	✓	0.49	12.40	✓
C	SOCKETS, LIVING/UTILITY ROOM, BEDROOM 2	A	100	6	2.5	0.40	3871 MCB	2	32	6	30	0.98	0.54	0.54	0.30	N/A	+999	+999	500	✓	0.55	12.40	✓
D	OVEN & HOB SOCKET	A	100	1	6	0.40	3871 MCB	2	16	6	30	1.95	N/A	N/A	0.09	N/A	+999	+999	500	✓	0.28	12.40	✓

Location of consumer unit: **BY FRONT DOOR** Designation: **DB 1** Prospective fault current at consumer unit (where applicable): ( ) kA

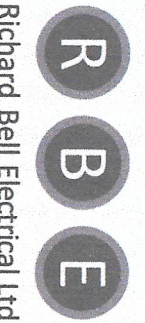
**TESTED BY** Name (capital): **Mr Richard Bell** Position: **Director PDH** Signature: *Richard Bell* Date: **08/06/2021**

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

Multi-function: Continuity: Insulation resistance: Earth fault loop impedance: Earth electrode resistance: RCD:

101202338  
This report is based on the model forms shown in Appendix 6 of BS 7671  
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Warwick House, Houghton Hall Park, Houghton Regis, Dunstable, LU5 5ZX © Copyright Certsure LLP (July 2018) \*\*Where figure is not taken from BS 7671, state source: Page 6 of 10





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**APPROVED CONTRACTOR**

Richard Bell Electrical Ltd

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

Circuits/equipment vulnerable to damage when testing:

Circuit number	Circuit description <small>*Where this consumer unit is remote from the origin of the installation, record details of the circuit supplying this consumer unit on the first line.</small>	Type of wiring (see Codes)	Reference Method (BS 7671)	Circuit conductor csa		Max. disconnection time (BS 7671) (s)	Protective device BS (EN)	RCD			Circuit impedances (Ω)			Insulation resistance		Test voltage DC (V)	Polarity	Max. measured earth fault loop impedance, Zs (Ω)	RCD operating time (ms)	Test buttons RCD AFDO		
				Live (mm <sup>2</sup> )	CPC (mm <sup>2</sup> )			Operating current, I <sub>Δn</sub> (mA)	Maximum permitted Zs for installed protective device** (Ω)	Ring final circuits only (measured end to end)	All circuits (complete at least one column)	Live / Live (MΩ)	Live / Earth (MΩ)									
1	BOILER	A	100	1	2.5	0.40	60898 MCB				2.73	N/A	N/A	N/A	0.20	N/A	N/A	N/A	500	0.39	20.50	✓
2	LIGHTS UPSTAIRS	A	100	1	1	0.40	60898 MCB	B	16 (A)	6 (kA)	30 (mA)	N/A	N/A	N/A	N/A	1.16	N/A	N/A	500	1.35	20.50	✓

Location of consumer unit: **BY FRONT DOOR**

Designation: **DB 2**

Prospective fault current at consumer unit (where applicable): ( ) kA

**TESTED BY**

Name (capital): **MR RICHARD BELL**

Position: **Director PDH**

Signature:

*Richard Bell*

Date: **08/06/2021**

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

Multi-function: **101202338**

Continuity:

Insulation resistance:

Earth fault loop impedance: **0.19**

Earth electrode resistance:

RCD: