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Issued in accordance with *BS 7671:2018* (as amended) – Requirements for Electrical Installations

7

Original (to the person ordering the work)

ELECTRICAL INSTALLATION CERTIFICATE

Issued in accordance with BS 7671: 2018 (as amended) – Requirements for Electrical Installations

PART 4B : DECLARATION FOR THE ELECTRICAL INSTALLATION WORK (to be completed where different parties are responsible for the design, construction, inspection & testing)

DESIGN (The extent of liability of the signatories is limited to the work detailed in PART 2)

I/We being the person(s) responsible for the design of the electrical installation, particulars of which are described in PART 2, having exercised reasonable skill and care when carrying out the design, hereby CERTIFY that the design work for which I/we have been responsible is to the best of my/our knowledge and belief in accordance with BS 7671: 2018 amended to 2024 (date) except for the departures, if any, detailed on attached page(s) N/A (Regulations 120.3, 133.1.3 and 133.5).

Permitted exception applied (411.3.3): Yes/NA N/A Risk assessment attached: N/A Page No(s) (N/A)

DESIGNER 1 Name (capitals):

Signature:

Date: N/A

DESIGNER 2 (where there is divided responsibility for design) Name (capitals): ALI HARTREY

Signature:

Date: 11/12/2024

I/we, being the designer(s) of the electrical installation, also RECOMMEND that this installation is further inspected and tested by 2034 (date)

(*Where applicable)

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.

Organisation (Designer 1): INGINE Registration No*: N/A Organisation (Designer 2): TSJ Electrical Ltd Registration No*: 044617000

Address: 75 South Western Road, Twickenham, Middlesex Address: Round Bush Farm, Burnham Road, Maldon, Essex

Postcode: TW1 1LG Tel No: 020 8892 7947 Postcode: CM9 6NP Tel No: 01621 829651

CONSTRUCTION (The extent of liability of the signatory is limited to the work detailed in PART 2)

I, being the person responsible for the construction of the electrical installation, particulars of which are described in PART 2, having exercised reasonable skill and care when carrying out the construction, hereby CERTIFY that the said work for which I have been responsible is, to the best of my knowledge and belief, in accordance with BS 7671: 2018 amended to 2024 (date) except for the departures, if any, detailed on attached page(s) N/A (Regulations 120.3 and 133.5).

Name (capitals): ALI HARTREY Organisation: TSJ Electrical Ltd Registration No*: 044617000

Address: Round Bush Farm, Burnham Road, Maldon, Essex

Signature: Date: 11/12/2024 Postcode: CM9 6NP Tel No: 01621 829651

INSPECTION & TESTING (The extent of liability of the signatory is limited to the work detailed in PART 2)

I, being the person responsible for the inspection and testing of the electrical installation, particulars of which are described in PART 2, having exercised reasonable skill and care when carrying out the inspection and testing, hereby CERTIFY that the said work for which I have been responsible is, to the best of my knowledge and belief, in accordance with BS 7671: 2018 amended to 2024 (date) except for the departures, if any, detailed on attached page(s) N/A (Regulations 120.3 and 133.5).

Name (capitals): ALI HARTREY Organisation: TSJ Electrical Ltd Registration No*: 044617000

Address: Round Bush Farm, Burnham Road, Maldon, Essex

Signature: Date: 11/12/2024 Postcode: CM9 6NP Tel No: 01621 829651

REVIEWED BY QUALIFIED SUPERVISOR (for the Contractor detailed in PART 1)

Name (capitals): JAMIE HOWARD

Signature:

Date: 17/12/2024

Where the electrical work to which this certificate relates includes the installation of a fire alarm system and/or an emergency lighting system (or a part of such systems), this electrical safety certificate should be accompanied by the particular certificate(s) for the system(s).

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PART 5 : SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

System type and earthing arrangements TN-C: (N/A) TN-S: (☒) TN-C-S: (N/A) TT: (N/A) IT: (N/A)		Number and type of live conductors AC 1-phase, 2-wire: (☒) 2-phase, 3-wire: (N/A) 3-phase, 3-wire: (N/A) 3-phase, 4-wire: (N/A) DC 2-wire: (N/A) 3-wire: (N/A) Other: (N/A)		Nature of supply parameters Nominal voltage between lines, $U^{(1)}$: (400) V Nominal line voltage to Earth, $U_0^{(1)}$: (230) V Nominal frequency, $f^{(1)}$: (50) Hz Prospective fault current, $I_{pf}^{(2)*}$: (6.84) kA Earth fault loop impedance, $Z_e^{(2)*}$: (0.07) Ω	
Supply protective device (BS (EN) 1361 Fuse HBC) Type: (2) Rated current: (100) A		Confirmation of supply polarity: (☒) Other sources of supply (Schedule of Test Results)		Page No: (N/A)	

PART 6 : PARTICULARS OF INSTALLATION REFERRED TO IN THIS CERTIFICATE

Maximum demand (load): (40) A (delete as appropriate)	Main protective conductors Earthing conductor: (material Copper) csa 16 mm ² Connection/continuity verified: (☒)	Main protective bonding connections Water installation pipes: (N/A) Gas installation pipes: (N/A) Structural steel: (N/A) Oil installation pipes: (N/A) Lightning protection: (N/A) Other (state): N/A	Main switch / Switch-fuse / Circuit-breaker / RCD Location: (Ground floor entrance meter cupboards) BS EN: (60947-3) Type: (AC22A) Rating / setting of device: (N/A) A No. of poles: (2) Current rating: (100) A Voltage rating: (230/40) V 0
Means of Earthing Distributor's facility: (☒) Installation earth electrode(s): (N/A) Earth electrode type – rod(s), tape, etc: (N/A) Location: (N/A) Electrode resistance to Earth: (N/A) Ω	Main protective bonding conductors: (material N/A) csa N/A mm ² Connection/continuity verified: (N/A)	Where an RCD is used as the main switch RCD rated residual operating current, $I_{\Delta n}$ (N/A) mA RCD Type: (N/A) Rated time delay: (..... N/A) ms Measured operating time: (N/A) ms	

PART 7 : SCHEDULE OF ITEMS INSPECTED (enter ✓ or N/A, as applicable)

1. Condition of consumer's intake equipment (visual inspection only) Outcome (☒)	6. Additional protection Outcome (☒)	12. Location(s) containing a bath or shower Outcome (☒)
2. Parallel or switched alternative sources of supply (N/A)	7. Distribution equipment (☒)	13. Other special installations or locations (N/A)
3. Protective measure: Automatic disconnection of supply (ADS) (☒)	8. Circuits (distribution and final) (☒)	14. Prosumer's low voltage installation(s) (N/A)
4. Basic protection (☒)	9. Isolation and switching (☒)	Schedule of items inspected by Name (capitals): ALI HARTREY Signature: Date: 11/12/2024
5. Protective measures other than ADS (N/A)	10. Current-using equipment (permanently connected) (☒)	
11. Identification and notices (☒)		

PART 8 : SCHEDULES AND ADDITIONAL PAGES (the pages identified are an essential part of this report (see Regulation 653.2))

Schedule of Circuit Details and Schedule of Test Results for the installation (PARTS 9A & 9B) Page No(s): (4 & 5)	Additional pages, including data sheets for additional sources Page No(s): (N/A)	Special installations or locations (indicated in item 13 of PART 7) Page No(s): (N/A)	Schedules relating to Prosumer's installations (indicated in item 14 of PART 7) Page No(s): (N/A)	Continuation sheets Page No(s): (N/A)
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*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.

This certificate is based on the model forms shown in Appendix 6 of BS 7671: 2018 (as amended)

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

Where an item is not applicable insert N/A

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PART 9A : SCHEDULE OF CIRCUIT DETAILS (GO TO Part 9B 'Schedule of Test Results' to enter test results for the corresponding circuit listed in this part)

Circuit number	Circuit description	Type of wiring (see footer to PART 9B)	Reference Method (BS 7671)	Number of points served	Circuit conductor (number & csa)		Max. disconnection time (BS 7671) (s)	Overcurrent protective device					RCD			
					Live (mm ²)	cpc (mm ²)		BS (EN)	Type	Rating (A)	Short-circuit capacity (kA)	Maximum permitted Z _s * (Ω)	BS (EN)	Type	Rating (A)	Operating current, I _{Δn} (mA)
SPD	Surge Protection Device	-	-	-	-	-	-	61643 SPD	2	-	-	-	-	-	-	-
MS	Main Switch	G	F	1	25.0	16.0	-	60947-3	AC22	100	-	-	-	-	-	-
1/L1	Sockets	A	B	10	2.5	1.5	0.4	61009 RCD/RCBO	B	32	6	1.37	62606 AFDD	B	32	30
2/L1	Hob	A	B	1	4.0	1.5	0.4	61009 RCD/RCBO	B	20	6	2.19	61009 RCD/RCBO	A	20	30
3/L1	Oven	A	B	1	4.0	1.5	0.4	61009 RCD/RCBO	B	20	6	2.19	61009 RCD/RCBO	A	20	30
4/L1	Immersion	A	B	1	2.5	1.5	0.4	61009 RCD/RCBO	B	20	6	2.19	61009 RCD/RCBO	A	20	30
5/L1	Towel Rail	A	B	1	2.5	1.5	0.4	61009 RCD/RCBO	B	16	6	2.73	61009 RCD/RCBO	A	16	30
6/L1	Heaters	A	B	2	2.5	1.5	0.4	61009 RCD/RCBO	B	16	6	2.73	61009 RCD/RCBO	A	16	30
7/L1	Lights / Smokes	A	B	29	1.0	1.0	0.4	61009 RCD/RCBO	B	6	6	7.28	61009 RCD/RCBO	A	6	30
8/L1	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9/L1	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10/L1	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/L1	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/L1	Spare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

DISTRIBUTION BOARD (DB) DETAILS (complete in every case)

DB designation: DB001--

Location of DB: Flat 3

Z_{db} : 0.16 Ω I_{pf} at DB†: 1.43 (kA)

Confirmation of supply polarity: (Yes) Phase sequence confirmed†: (N/A)

SPD Details** Types: T1 (N/A) T2 (☒) T3 (N/A) N/A (N/A)

Status indicator checked (where functionality indicator is present): (Yes)

**SPD Type.

Where combined T1 + T2 or T2 + T3 device is installed, indicate by ticking both Type brackets.

Where T3 devices are installed on a circuit to protect sensitive equipment, enter details in 'Comments' (PART 9B), (See Section 534 for further details).

Note that not all SPDs have visible functionality indication.

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

Supply to DB is from: (Ground Floor Ryefield)

Overcurrent protection device for the distribution circuit

BS (EN): (1361 Fuse HBC) Type: (2) Nominal voltage: (240) V Rating: (100) A No. of phases: (1)

Associated RCD (if any)

BS (EN): (N/A) RCD Type: (N/A) I_{Δn} (N/A) mA No. of poles: (N/A) Operating time: (N/A) ms

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PART 9B : SCHEDULE OF TEST RESULTS (MUST reflect circuits entered into 'Schedule of Circuit Details' in Part 9A)

Circuit number	Continuity (Ω)					Insulation resistance			Polarity	Max. measured earth fault loop impedance, Zs	RCD		AFDD**	Comments and additional information, where required
	Ring final circuits only (measured end to end)			All circuits (complete at least one column)		Live / Live	Live / Earth	Test voltage DC			Operating time*	Test button	AFDD test button	
	(Line) R ₁	(Neutral) R _n	(cpc) R ₂	(R ₁ +R ₂)	R _s								(MΩ)	
SPD	-	-	-	-	-	-	-	-	✓	-	-	N/A	N/A	-
MS	-	-	-	-	-	-	-	-	✓	-	-	N/A	N/A	-
1/L1	0.60	0.60	0.96	0.37	N/A	>999	>999	500	✓	0.48	13.0	✓	✓	N/A
2/L1	N/A	N/A	N/A	0.09	N/A	>999	>999	500	✓	0.26	16.9	✓	N/A	N/A
3/L1	N/A	N/A	N/A	0.09	N/A	>999	>999	500	✓	0.27	17.0	✓	N/A	N/A
4/L1	N/A	N/A	N/A	0.05	N/A	>999	>999	500	✓	0.21	16.8	✓	N/A	N/A
5/L1	N/A	N/A	N/A	0.10	N/A	>999	>999	500	✓	0.28	16.9	✓	N/A	N/A
6/L1	N/A	N/A	N/A	0.34	N/A	>999	>999	500	✓	0.49	18.4	✓	N/A	N/A
7/L1	N/A	N/A	N/A	1.07	N/A	>999	>999	500	✓	1.32	16.6	✓	N/A	N/A
8/L1	-	-	-	-	-	-	-	-	N/A	-	-	N/A	N/A	-
9/L1	-	-	-	-	-	-	-	-	N/A	-	-	N/A	N/A	-
10/L1	-	-	-	-	-	-	-	-	N/A	-	-	N/A	N/A	-
11/L1	-	-	-	-	-	-	-	-	N/A	-	-	N/A	N/A	-
12/L1	-	-	-	-	-	-	-	-	N/A	-	-	N/A	N/A	-

Circuits/equipment vulnerable to damage when testing (where applicable): LEDs, Smokes, Dimmers, RCB0s

TESTED BY Name (capital): (ALI HARTREY) Position: (Electrician) Signature:  Date: (11/12/2024)

TEST INSTRUMENTS (ENTER SERIAL NUMBER AGAINST EACH INSTRUMENT USED)

Multi-function: (101635457) Continuity: (N/A) Insulation resistance: (N/A) Earth fault loop impedance: (N/A) Earth electrode resistance: (N/A) RCD: (N/A)

* RCD effectiveness is verified using an alternating current test at rated residual operating current (I_{Δn})

** Where installed. Note, not all AFDDs have a test function. Where a circuit contains an AFDD this should be stated in the field for that circuit in the 'Comments and additional information, where required' column.

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	Other - state	N/A
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This certificate is based on the model forms shown in Appendix 6 of BS 7671: 2018 (as amended)

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

Where an item is not applicable insert N/A



This certificate is not valid if the serial number has been defaced or altered

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ADDITIONAL NOTES

Original (to the person ordering the work)

NOTES FOR RECIPIENT

THIS CERTIFICATE IS AN IMPORTANT AND VALUABLE DOCUMENT WHICH SHOULD BE RETAINED FOR FUTURE USE

This safety certificate has been issued to confirm that the electrical installation work to which it relates has been designed, constructed, inspected and tested in accordance with the national standard for the safety of electrical installations, *BS 7671: 2018 (as amended)* - Requirements for Electrical Installations

You should have received the certificate marked 'Original' and the contractor should retain a duplicate. If you were the person ordering the work, but not the owner or user of the installation, you should pass this certificate, or a full copy of it, immediately to the owner or user of the installation.

The 'Original' certificate should be retained in a safe place and shown to any person inspecting, or undertaking further work on the electrical installation in the future. If you later vacate the property, this certificate will demonstrate to the new user that the electrical installation works complied with the requirements of *BS 7671: 2018 (as amended)* at the time the certificate was issued.

The Construction (Design and Management) Regulations require that, for a project covered by those Regulations, a copy of this certificate, together with schedules, is included in the project health and safety documentation.

For safety reasons, the complete electrical installation will need to be inspected and tested at appropriate intervals by a skilled person or persons competent in such work. The maximum interval recommended before the next inspection is stated in PART 4. With the exception of domestic (household) premises, there should be a notice at or near the main switchboard or distribution board indicating the date when the next inspection is due.

Only an NICEIC* contractor responsible for the construction of the electrical installation is authorised to issue this NICEIC Electrical Installation Certificate.

This certificate is intended to be issued only for a new electrical installation or for new work associated with an addition or alteration to an existing installation, or for the replacement of a distribution board (or consumer unit). It should not have been issued for the inspection of an existing electrical installation. An 'Electrical Installation Condition Report' should be issued for such a periodic inspection.

The certificate, which consists of at least five numbered pages, is only valid if the Schedule of Items Inspected has been completed to confirm that all relevant inspections have been carried out and the Schedule of Circuit Details and Test Results is attached. The certificate has a unique serial number which is traceable to the contractor to which it was supplied by NICEIC.

For installations having more than one distribution board (or consumer unit) or more circuits than can be recorded on Page 5, one or more additional Schedules of Circuit Details and Test Results, should form part of the certificate.

This certificate should not have been issued for electrical work in a potentially explosive atmosphere (hazardous area) unless the contractor holds an appropriate extension to their NICEIC registration for such work.

Page 1 and 2 of this certificate provide details of the electrical installation, together with the name(s) and signature(s) of the person(s) certifying the three elements of installation work: design, construction and inspection and testing, and page 3 identifies the organisation(s) responsible for the work certified by their representative(s).

Certification for inspection and testing provides an assurance that the electrical installation work has been fully inspected and tested, and that the electrical work has been carried out in accordance with the requirements of *BS 7671: 2018 (as amended)* (except for any departures sanctioned by the designer and appended to the certificate).

Where responsibility for the design, the construction and the inspection and testing of the electrical work is divided between the contractor and one or more other bodies, the division of responsibility should have been established and agreed before commencement of the work. In such a case, NICEIC considers that the absence of certification for the construction, or the inspection and testing elements of the work would render the certificate invalid. If the design section of the certificate has not been completed, NICEIC recommends that you question why those responsible for the design have not certified that this important element of the work is in accordance with *BS 7671: 2018 (as amended)*.

Where the installation includes a residual current device (RCD) it should be tested every six months, by pressing the button marked "T" or "Test". The device should switch off the supply and should then be switched on to restore the supply. If the device does not switch off the supply when the button is pressed, seek expert advice. For safety reasons it is important that this instruction is followed.

Where the installation includes an arc fault detection device (AFDD) having a manual test facility, it should be tested six-monthly by pressing the test button. Where an AFDD has both a test button and automatic test function, manufacturer's instructions should be followed with respect to test button operation.

Where the installation includes a surge protection device (SPD) the status indicator should be checked to confirm it is in operational condition in accordance with manufacturer's information. If the indication shows that the device is not operational, seek expert advice.

Where a number of sources are available to supply the installation, and where the data given for the primary source may differ from other sources, an additional page should have been provided which gives the relevant information relating to each additional source, and to the associated earthing arrangements and main switchgear.

Where the electrical work to which this certificate relates includes the installation of a fire alarm system and/or an emergency lighting system (or a part of such systems) in accordance with British Standards *BS 5839* and *BS 5266* respectively, this electrical safety certificate should be accompanied by a separate certificate or certificates as prescribed by those standards.

Should the person ordering the work (e.g. the client, as identified on Page 1 of this certificate), have reason to believe that any element of the work for which the Contractor has accepted responsibility (as indicated by the signatures on this certificate) does not comply with *BS 7671: 2018 (as amended)*, the client should in the first instance raise the specific concerns in writing with the contractor. If the concerns remain unresolved, the client may make a formal complaint to NICEIC, for which purpose a standard complaint form is available on request.

The complaints procedure offered by NICEIC is subject to certain terms and conditions, full details of which are available upon application. NICEIC does not investigate complaints relating to the operational performance of electrical installations (such as lighting levels), or to contractual or commercial issues (such as time or cost).

For further information about electrical safety and how NICEIC can help you, visit
www.niceic.com

** NICEIC is operated by Certsure LLP, a partnership between the Electrical Contractors' Association and the charity, Electrical Safety First. NICEIC maintains and publishes registers of electrical contractors that it has assessed against particular scheme requirements (including the technical standard of electrical work).*