

1 Details of the installation

Owner/Occupier Mr Francis Irving

Address 91 Belgrave Road
Aigburth
Liverpool
Merseyside

Postcode L17 7AQ

Installation (if different from owner/occupier)

Address

Postcode

2 Extent and limitations of the installation (note 5)

Installation is New ☐ Addition ☐ Alteration ☒ Records available Yes ☒ No ☐ Date of original installation 01/11/1991

Extent of electrical installation covered by this report

Fitted new fuse board to existing wiring.

Comments New bathroom light fitted Installed extra twin socket in bedroom

This inspection has been carried out in accordance with BS 7671: 2008 (IEE Wiring Regulations), amended to 2011 (date)

Details of departures from BS:7671 (Regulations 120.3, 120.4) See page(s) None

Comments on the existing installation (in the case of alteration or addition) See page(s) 3

(For additions or alterations) cables concealed within trunking and conduits, or cables or conduits concealed under floors, in roof spaces and generally within the fabric of the building or underground may not have been inspected.

3 Next inspection (note 7)

We recommend that this installation is further inspected and tested after an interval of not more than 10 months/years, or on change of occupancy.

DECLARATION: For the Design, Construction & the Inspection and Testing of the Installation as described above

Company name PSD Electrical

Inspector name Philip Draycott

Company address 23 Elsmere Avenue
N/A
Aigburth
Liverpool
Merseyside

Postcode L17 4LB

Signature Philip Draycott
electronically created

Position Sole trader electrician

Date 25/11/2013

NAPIT Membership No. 19647

4 Supply characteristics and earthing arrangements

Supply systems TN-S ☒ TN-C-S ☐ TT ☐ Number & type of live conductors No. of phases 1 No. of wires 2

Nature of Supply Parameters (by enquiry or by measurement)

Nominal voltage, U/U₀ 230 V

Nominal frequency, f 50 Hz

Phase sequence ☒

Prospective fault current, I_{pf} (note 6) 1.01 kA

External loop impedance, Z_e 0.25 Ω

Supply Protective Device Characteristics BS 1361 Type Type 2 Nominal Current Rating 100 A Max Demand 100 A

Means of Earthing Distributor's facility ☒ Installation earth electrode ☐

Details of Installation Earth Electrode (where applicable)

Type (e.g. rod(s), tape etc)

Location N/A

Electrode resistance to earth N/A Ω

Main Protective Conductors

Material

Csa (mm²)

Verified

Water Csa(mm²)

Gas Csa(mm²)

Oil Csa(mm²)

Earthing Conductor

Copper

16

☒

10

10

N/A

Protective Bonding Conductor

Copper

6

☒

Other

N/A

Csa(mm²)

N/A

Main Switch or Circuit Breaker

Material

Csa(mm²)

Verified

BS 60947-3

Type

Supply conductor

Copper

25

☒

Location Hall cupboard

No. of Poles 2

Current rating 100

Voltage rating 230

Fuse or Trip Setting N/A

A

Voltage rating 230

Rated residual operating current I_{Δn} = N/A mA measured operating time of N/A ms (at I_{Δn})
(applicable only where an RCD is suitable and is used as a main circuit-breaker)

NAPIT ***Electrical Certificate*** Installation/Modification

Requirements for Electrical Installations – BS 7671 [IEE Wiring Regulations]

NOTES:

1. This Electrical Certificate form shall only be used for the reporting on the condition of an new electrical installation, new work associated with an existing installation or an alteration to an existing installation. Where the work has been done by a Competent Person on a self certification scheme approved by the Secretary of State, a Building Control Officer may have undertaken a 'Visual Check' of the installed equipment and cables, prior to them being concealed within the fabric of the dwelling (first fix stage).
2. The final Inspection, Test, Verification and Completion of this certificate must be undertaken by a person on the NAPIT Competent Persons Registrations scheme.
3. For Domestic Installations, the work may be subject to Local Authority Building Control certification.
4. The Certificate, normally comprising at least three Pages and shall include an Inspection Schedule and a Schedule of Test Results.
5. The 'Extent and Limitations' box shall fully identify the elements of the installation that are covered by the report and those that are not, this aspect having been agreed with the client, or Building Control, or other interested parties before the final inspection, testing and verification is carried out.
6. The maximum prospective fault current recorded should be the greater of either the short circuit current or the earth fault current.
7. The time interval recommended for the next periodic inspection and testing shall be given. The IEE Guidance Note 3 provides guidance on the maximum interval between inspections for various types of buildings.
8. This Electrical Certificate is based upon the format of the Electrical Installation Certificate for an Electrical Installation, issued by the Institute of Electrical Engineers and published in BS 7671.
9. Details of departures from BS 7671 must be noted with a full description and explanation. The resulting degree of safety of the installation shall not be less than that obtained by compliance with the Regulations.

NAPIT Electrical Certificate

Information for recipients (to be appended to the report).

This Electrical Certificate form shall only be used for the reporting on the condition of an new electrical installation, new work associated with an existing installation or an alteration to an existing installation , where the work has been done by a NAPIT Competent Person who may be on a self certification scheme approved by the Secretary of State (see note 1 above), or where the work may be subject to Local Authority Building Control certification. You should have received an original Certificate and the contractor should have retained a duplicate. If you were the person ordering this Certificate, but not the owner of the installation, you should pass this Certificate, or a copy of it, immediately to the owner. The original Certificate is to be retained in a safe place and be shown to any person inspecting or undertaking work on the electrical installation in the future. If you later vacate the property, this Certificate will provide the new owner with details of the condition of the new electrical installation that it refers to. The 'Extent' box should fully identify the extent of the installation covered by this Certificate and any limitations on the inspection and tests. The Client or Building Control Officer should have agreed these aspects with you before the inspection was carried out. For safety reasons, the electrical installation will need to be re-inspected at appropriate intervals by a competent person. The IEE Guidance Note 3 provides guidance on the maximum interval between inspections for various types of buildings. The Certificate is only valid if an Inspection Schedule And Schedule of Test Results are appended. If this work is Domestic, the work should be carried out by a person on a Competent Persons Register approved by the Secretary of State, you should also receive a 'Compliance with Building Regulations Declaration' within 30 days of the electrical installation being completed, if not then this work may be subject to Local Authority Building Regulation certification.

5 Inspector to record their observations in the 1st column below during the 'first fix' visual check and any omissions or corrected non-conformances, recorded by the Electrical Inspector in the 2nd column below, during the final inspection.

= Optional 1st Fix

1st Fix		2nd Fix	
Inspected	Rectified	Inspected	Rectified
✓	✓	✓	✓
		✓	
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
		✓	
✓	✓	✓	✓
		✓	
N/C	N/C	N/C	N/C
N/C	N/C	N/C	N/C
N/C	N/C	N/C	N/C
		N/C	N/C
		N/C	N/C
N/C	N/C	N/C	N/C
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
		✓	✓
		✓	✓
		✓	✓
		✓	✓
✓	✓	✓	✓
		✓	✓

Schedule of Inspections

Installation Design Specification is available for the Installer and the Inspector
 Earthing Conductor is present, securely connected and a warning label fitted
 Earthing Conductor of the correct size
 Protective Bonding Conductors correctly sized
 Protective Bonding Conductors securely connected and a warning label fitted
 Consumer Unit position accessible and where specified on the design
 Correct Circuit Protection Devices fitted and identified for each circuit
 Correct Cable type and size used, allowing for external influences and volt drop
 Cable run in 'safe' zones and adequately protected
 Cables securely fastened or in appropriate wiring systems
 All Cable cores correctly identified at joints and in accessories
 All cable joints correctly terminated, secure and accessible
 Modifications to the Building Fabric appropriate and safe (Structure)
 Modifications to the Building Fabric appropriate and safe (Fire)
 All Accessories correctly placed as appropriate
 Appropriate Supplementary Bonding present and adequately sized
 Supplementary Bonding securely connected and a warning label fitted if required
 Additional protection provided by RCD where required
 All Accessories have environmental protection appropriate for external influences
 All covers replaced, Accessories secure and neatly aligned
 The number of points and their location agree with the original design
 Circuit details correct on the installation schedule
 Periodic Label, RCD label and other Safety Labels fitted

Schedule of Test

✓	External earth loop impedance, Z_e	✓	Insulation Resistance between Live conductors
N/A	Installation earth electrode	✓	Insulation Resistance between Live conductors & earth
✓	Prospective fault current I_{pf}	✓	Polarity (prior to energisation)
✓	Continuity of Earth Conductors	✓	Polarity (after energisation) including phase sequence
✓	Continuity of Circuit Protective Conductors	✓	Earth fault loop impedance
✓	Continuity of Protective Bonding Conductors	✓	RCDs / RCBOs including discrimination
✓	Volt drop verified	✓	Functional testing of devices

The sections above are – Satisfactory (✓), Not Satisfactory (X), Not Checked (N/C) or Not Applicable (N/A)

Observations (if any, if none please put 'none' below)

Inspector's Name – First Fix : Philip Draycott

Signature *Philip Draycott* electronically created

For additional report see page(s)

Inspector's Name – Second Fix: Philip Draycott

Signature *Philip Draycott* electronically created

For additional report see page(s)

SCHEDULE(S)

The attached Schedule(s) are part of this document and this Report is valid only when they are attached to it.

✓ Schedule of Test Results are attached.



NAPIT *Electrical Test* Sheet

Requirements for Electrical Installations – BS 7671 [IEE Wiring Regulations 17th Edition]
Can be used for new installations, additions or alterations
Please complete all the unshaded areas.

This sheet forms part of Inspection Report Number*/Certificate Number*

HEI196470156

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Owner/Occupier Mr Francis Irving

Address N/A 91 Belgrave Road Aigburth Liverpool Merseyside

Postcode L17 7AQ

Complete in every case

Location of distribution board Hall cupboard
Distribution board designation 1
Number of ways 6

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

Supply to distribution board is from N/A
No. of phases N/A
Nominal Voltage N/A V
Overcurrent protective device for the distribution circuit:
Associated RCD (if any): BS (EN) N/A
Type BS(EN) N/A Rating N/A A RCD No of Poles N/A
 $I_{\Delta n}$ N/A mA

Characteristics at this distribution board

Z_e N/A Ω Operating times of At $I_{\Delta n}$ N/A ms
 I_{pf} N/A kA associated RCD (if any) at 5 $I_{\Delta n}$ N/A ms

Test instrument serial number

Earth fault loop impd. 101090582 RCD 101090582
Insulation resistance 101090582 Other
Continuity 101090582 Other

CIRCUIT DETAILS

Circuit No. and phase	Circuit designation	Type of wiring	Ref. method	No. of points served	Circuit conductors csa		Maximum disconnection time (BS:7671) (S)	Overcurrent protective devices				RCD operating current I _{Δn} (mA)	BS7671 Max. permitted value Z _s Other
					Live (mm ²)	CPC (mm ²)		BS EN Number	Type No.	Rating (A)	Short circuit capacity (kA)		80
													Ω
	Main Switch						0.4	N/A	N/A				
	RCD						0.4	N/A	N/A				
1	Sockets	1	A	17	2.5	1.5	0.4	60898	B	32	6	30	1.15
2	Spare		N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA		NA	N/A
3	Spare		N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA		NA	N/A
	RCD						0.4	N/A	N/A				
4	Spare		N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA		NA	N/A
5	Socket right side of kitchen	1	A	7	2.5	1.5	0.4	60898	B	16	6	30	2.29
6	Lights	1	A	25	1.5	1.0	0.4	60898	B	6	6	30	6.13

TEST RESULTS

Circuit impedance Ω						Insulation resistance (Record lower reading)			Polarity (✓)	Maximum measured Z_s (Ω)	Date of test (Live)	RCD testing	
Ring final circuits only (measured end to end)			Figure 8 check (✓)	All circuits to be completed using R1 R2, or R2, not both		Date of test (Dead)	Live / Live (M Ω)	Live / Earth (M Ω)				at $I_{\Delta n}$ ms	at 5 $I_{\Delta n}$ ms
r_1	r_n	r_2		$R_1 + R_2$	R_2								
			X			25/11			X		25/11		
			X			25/11			X		25/11		
0.39	0.39	0.70	✓	0.54		25/11	>100	>100	✓	0.68	25/11	29.1	28.8
N/A	N/A	N/A	X	N/A	N/A	N/A	N/A	N/A	X	N/A	N/A	N/A	N/A
N/A	N/A	N/A	X	N/A	N/A	N/A	N/A	N/A	X	N/A	N/A	N/A	N/A
			X			25/11			X		25/11		
N/A	N/A	N/A	X	N/A	N/A	N/A	N/A	N/A	X	N/A	N/A	N/A	N/A
			N/A	0.80		25/11	>100	>100	✓	1.05	25/11	37.1	22.8
			N/A	1.07		25/11	>100	>100	✓	1.33	25/11	39.9	23.8

Wiring Types: 1 PVC/PVC 2 Single insulated in conduit or trunking 3 Mineral Insulated 4 Xlpe/Swa 5 BS:7629-1 (FP200) 6 Other

Comments on installation

See attached sheets page(s) 3 of 4

Tested by: Name (capital letters) Philip Draycott

Signature Philip Draycott

Position Sole trader electrician

Date(s) 25 / 11 / 2013

NAPIT *Electrical Report* sheet

Requirements for Electrical Installations – BS 7671 [IEE Wiring Regulations 17th Edition]. Can be used for appending to Electrical Certificate for reporting existing work or for Continuation sheet for a Periodic Inspection Report

This sheet forms part of
Inspection Report Number*

Certificate Number*

HEI196470156

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Site	Mr Francis Irving	N/A	91 Belgrave Road	Aigburth	Liverpool	Merseyside
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Inspector Philip Draycott

Date	01/11/1991
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Observations and recommendations for actions to be taken

Referring to the attached schedule of inspection and test results, and subject to the limitations at 4.

☐ No remedial work required OR ☐ The following observations and recommendations are made

Explanation of codes

1. Requires urgent attention
2. Requires improvement
3. Requires further investigation
4. Does not comply with BS 7671 (as amended)
5. Comments

[illegible]

Note: For additional report pages use the continuation report form with the relevant serial number and page numbers detailed on each page.

Urgent remedial work recommended for items

Corrective action(s) recommended for items