Date 12/08/2016 | Certificate Serial No/Ref: 75744536

Intelligent Electrical Solutions
DOMESTIC ELECTRICAL INSTALLATION CERTIFICATE
(Requirements for Electrical Installations – BS 7671 IET Wiring Regulations)

DETAILS OF THE CLIENT

Client and address: Marriotts Estate Agents, Clarendon Street, Nottingham

Postcode: NG1 5HS

ADDRESS OF THE INSTALLATION

Installation address: 11 Park View Court, Sneinton, Nottingham

Postcode: NG1 1DD

DETAILS OF THE INSTALLATION

Extent of the installation work covered by this certificate: New consumer unit

The Installation Is

New	N/A
An addition	N/A
An alteration	✓

DESIGN, CONSTRUCTION, INSPECTION AND TESTING

* BS 7671 amended to : 2016

I being the person/s responsible for the design, construction, inspection and testing of the electrical installation (as indicated by my signature) particulars of which are described above, having exercised reasonable skill and care when carrying out the design, construction, inspection and testing hereby Certify that the design, construction, inspection and testing work for which I/we have been responsible is, to the best of my knowledge and belief, in accordance with BS 7671: amended to* except for the departures, if any, detailed as follows:

Details of departures from BS 7671: as amended (Regulations 120.3 & 133.5)

N/A

The extent of liability of the signatory/signatories is limited to work described above as the subject of this certificate. For the DESIGN, CONSTRUCTION, INSPECTION & TESTING of the installation.

Signature		**Name (Capitals)**	DAVID SALVIN	**Date**	12/08/2016

The results of the inspection and testing reviewed by

Signature		**Name (Capitals)**	DAVID SALVIN	**Date**	12/08/2016

PARTICULARS OF THE CONTRACTOR

Trading title: **Intelligent Electrical Solutions**

2 Chestnut Grove
Gedling
Nottingham

Email **dave@intelligentelectrical.co.uk**

Web **www.intelligentelectrical.co.uk**

Telephone No **07815 410842** | Postcode NG4 3JB

Registration No: (if applicable) 14017 | **Branch No:** (if applicable) N/A

NEXT INSPECTION

* Interval in terms of years, months, or weeks, as appropriate

I RECOMMEND that this installation is further inspected and tested after an interval of not more than * 5 years

COMMENTS ON EXISTING INSTALLATION

Additional information and report notes

N/A

SCHEDULE OF ADDITIONAL RECORDS

See attached schedule

N/A

Risk assessment attached: N/A

SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

System

TN-S	✓
TN-C-S	N/A
TT	N/A
* Other	N/A

Number and Type of Live Conductors

1-phase (2 wire)	✓	1-phase (3 wire)	N/A
2-phase (3 wire)	N/A	3-phase (4 wire)	N/A
other	N/A		

Nature of Supply Parameters

(1) by enquiry
(2) by enquiry or by measurement
(3) where more than one supply, the higher or highest values

AC or DC	A/C	Nominal Voltage U (1)	V	Nominal frequency f (1)	50 Hz
		Uo (1)	230 V	External earth fault loop impedance Ze (2/3)	0.28 Ω
Single-phase	Prospective fault current (2/3)	0.9 kA	3-phase	Prospective fault current (2/3)	N/A kA

*Characteristics of Primary

*Other sources of supply to be detailed on attached schedules

BS(EN)	BS 1361 Fuse HBC		
Type	Lim		
Rated current	Lim A	Short-circuit capacity	Lim kA

PARTICULARS OF INSTALLATION AT THE ORIGIN

Means of earthing

Distributor's facility	✓
Installation earth electrode	N/A

Details of installation Earth Electrode (where applicable)

Type: (e.g rod(s), tape, etc)	N/A	Method of measurement:	N/A
Electrode resistance to Earth	N/A	Location:	N/A

Measured Ze	0.28	Ω
Maximum demand: (load)		kVA/ Amps
Number of smoke alarms	1	
Protective measures for fault protection	ADS	

Main Switch/Switch-Fuse/Circuit-Breaker/RCD

Type BS(EN)	BS EN 60947-3 Isolator	Voltage rating	400 V
No of poles	2	Rated Current	100 A
Supply conductor material	Copper	*RCD operating current IΔn	N/A mA
Supply conductor csa	25 mm²	*RCD rated time delay	N/A ms
* If RCD main switch		*RCD operating time (at IΔn)	N/A ms

Earthing conductor

Conuctor material:	Copper		
Conuctor csa:	16 mm²	Continuity check ✓	✓

Main protective bonding conductors and bonding of extraneous conductive parts (✓)

Conductor material	Copper	Conductor csa	10	Location: (where not obvious)			
Gas installation pipes	N/A	Water installation pipes	✓	Oil installation pipes	N/A	Structural steel	N/A
To other Specifiy	N/A						

SCHEDULE OF ITEMS TESTED

✓	External earth loop impedance, Ze	✓	Polarity	✓	Protection by separation of circuits
N/A	Installation earth electrode resistance, Ra	✓	Earth fault loop impedance Zs	N/A	Other (*Please note below)
✓	Continuity of protective conductors	N/A	Verification of phase sequence		
✓	Continuity of ring final circuit conductors	✓	Operation of residual current device(s)		
✓	Insulation resistance between live conductors	✓	Functional testing of assemblies		
✓	Insulation resistance between live conductors and earth	✓	Verification of voltage drop		

*** Further notes for items tested, if applicable**

N/A

SCHEDULE OF INSPECTIONS (for new installation work only)

Item No	DESCRIPTION	OUTCOME
1.0	**DISTRIBUTOR'S / SUPPLY INTAKE EQUIPMENT**	
1.1	Condition of service cable	✓
1.2	Condition of service head	✓
1.3	Condition of distributor's earthing arrangement	✓
1.4	Condition of meter tails - Distributor/Consumer	✓
1.5	Condition of metering equipment	✓
1.6	Condition of isolator (where present)	N/A
2.0	**PARALLEL OR SWITCHED ALTERNATIVE SOURCES OF SUPPLY**	
2.1	Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)	N/A
2.2	Presence & adequacy of earthing & protective bonding arrangements:	N/A
3.0	**AUTOMATIC DISCONNECTION OF SUPPLY**	
3.1	**Presence, adequacy of earthing & protective bonding arrangement**	
	• Installation earth electrode (where applicable) (542.1.2.3)	N/A
	• Earthing conductor and connections, including accessibility (542.3; 543.3.2)	✓
	• Main protective bonding conductors and connections, including accessibility (411.3.1.2; 543.3.2)	✓
	• Provision of safety electrical earthing/bonding labels at all appropriate locations (514.13)514.13)	✓
	• RCD(s) provided for fault protection (411.4.9; 411.5.3)	✓
4.0	**BASIC PROTECTION**	
4.1	**Presence and adequacy of measures to provide basic protection (prevention of contact with live parts) within the installation:**	
	• Insulation of live parts e.g. conductors completely covered with durable insulating material (416.1)	✓
	• Barriers or enclosures e.g. correct IP rating (416.2)	✓
5.0	**ADDITIONAL PROTECTION**	
5.1	**Presence and effectiveness of additional protection methods:**	
	• RCD(s) not exceeding 30 mA operating current (415.1; Part 7), see Item 8.14 of this schedule	✓
	• Supplementary bonding (415.2; Part 7)	N/A

Item No	DESCRIPTION	OUTCOME
6.0	**OTHER METHODS OF PROTECTION**	
6.1	**Presence and effectiveness of methods which give both basic and fault protection:**	
	• SELV system, including the source and associated circuits (Section 414)	N/A
	• PELV system, including the source and associated circuits (Section 414)	N/A
	• Double or reinforced insulation i.e. Class II or equivalent equipment and associated circuits (Section 412)	N/A
	• Electrical separation for one item of equipment e.g. shaver supply unit (Section 413)	✓
7.0	**CONSUMER UNIT(S) / DISTRIBUTION BOARD(S):**	
7.1	Adequacy of access and working space for items of electrical equipment including switchgear (132.12)	✓
7.2	Presence of linked main switch(s) (537.1.4; 537.1.5; 537.1.6)	✓
7.3	Isolators, for every circuit or group of circuits and all items of equipment (537.2)	✓
7.4	Suitability of enclosure(s) for IP and fire ratings (416.2; 421.1.6; 421.1.201)	✓
7.5	Protection against mechanical damage where cables enter equipment (522.8.1; 522.8.11)	✓
7.6	Confirmation that ALL conductor connections are correctly located in terminals and are tight and secure (526.1)	✓
7.7	Avoidance of heating effects where cables enter ferromagnetic enclosures e.g. steel (521.5)	✓
7.8	Selection of correct type and ratings of circuit protective devices for overcurrent and fault protection (411.3.2; 411.4, .5, .6; Sections 432, 433)	✓
7.9	**Presence of appropriate circuit charts, warning and other notices:**	
	• Provision of circuit charts/schedules or equivalent forms of information (514.9)	✓
	• Warning notice of method of isolation where live parts not capable of being isolated by a single device (514.11)	✓
	• Periodic inspection and testing notice (514.12.1)	✓
	• RCD quarterly test notice; where required (514.12.2)	✓
	• Warning notice of non-standard (mixed) colours of conductors present (514.14)	✓
7.10	Presence of labels to indicate the purpose of switchgear and protective devices (514.1.1; 514.8)	✓
8.0	**CIRCUITS**	
8.1	Adequacy of conductors for current-carrying capacity with regard to type and nature of the installation (Section 523)	✓
8.2	Cable installation methods suitable for the location(s) and external influences (Section 522)	N/A

Item No	DESCRIPTION	OUTCOME
8.0	**CIRCUITS continued**	
8.3	Segregation/separation of Band I (ELV) and Band II (LV) circuits, and electrical and non-electrical services (528)	✓
8.4	Cables correctly erected and supported throughout including escape routes, with protection against abrasion (Sections 521, 522)	N/A
8.5	Provision of fire barriers, sealing arrangements where necessary (527.2)	✓
8.6	Non-sheathed cables enclosed throughout in conduit, ducting or trunking (521.10.1; 526.8)	N/A
8.7	Cables concealed under floors, above ceilings or in walls/partitions, adequately protected against damage (522.6.201, .202, .204)	✓
8.8	Conductors correctly identified by colour, lettering or numbering (Section 514)	✓
8.9	Presence, adequacy and correct termination of protective conductors (411.3.1.1; 543.1)	✓
8.10	Cables and conductors correctly connected, enclosed and with no undue mechanical strain (Section 526)	✓
8.11	No basic insulation of a conductor visible outside enclosure (526.8)	✓
8.12	Single-pole devices for switching or protection in line conductors only (132.14.1; 530.3.2)	✓
8.13	Accessories not damaged, securely fixed, correctly connected, suitable for external influences (134.1.1; 512.2; Section 526)	✓
8.14	**Provision of additional protection by RCD not exceeding 30mA:**	
	• Socket-outlets rated at 20 A or less, unless exempt (411.3.3)	✓
	• Mobile equipment with a current rating not exceeding 32 A for use outdoors (411.3.3)	✓
	• Cables concealed in walls at a depth of less than 50 mm (522.6.202, .203	✓
	• Cables concealed in walls/partitions containing metal parts regardless of depth (522.6.202; 522.6.203)	N/A
8.15	**Presence of appropriate devices for isolation and switching correctly located including:**	
	• Means of switching off for mechanical maintenance (537.3)	N/A
	• Emergency switches (537.4)	N/A
	• Functional switches, for control of parts of the installation and current-using equipment (537.5)	N/A
	• Firefighter's switches (537.6)	N/A

SCHEDULE OF INSPECTIONS (for new installation work only) continued

Item No	DESCRIPTION	OUTCOME
9.0	**CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED)**	
9.1	Equipment not damaged, securely fixed and suitable for external influences (134.1.1; 416.2; 512.2)	N/A
9.2	Provision of overload and/or undervoltage protection e.g. for rotating machines, if required (Sections 445, 552)	N/A
9.3	Installed to minimize the build-up of heat and restrict the spread of fire (421.1.4; 559.4.1)	N/A
9.4	Adequacy of working space. Accessibility to equipment (132.12; 513.1)	✓

Item No	DESCRIPTION	OUTCOME
10.0	**LOCATION(S) CONTAINING A BATH OR SHOWER (SECTION 701)**	
10.1	30 mA RCD protection for all LV circuits, equipment suitable for the zones, supplementary bonding (where required) etc	✓

Item No	DESCRIPTION	OUTCOME
11.0	**OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS**	
11.1	List all other special installations or locations present, if any (Record separately the results of particular inspections applied)	N/A

Inspected By	Date
DAVID SALVIN	16/08/2016

TEST INSTRUMENTS USED

Earth fault loop impedance	N/A	Insulation resistance	N/A
Continuity	N/A	RCD	N/A
MFT	8102191	Other	N/A

Details of circuits and/or installed equipment vulnerable to damage when testing and/or remarks:

N/A

DISTRIBUTION BOARD DETAILS FOR	11 Park View Court Sneinton, Nottingham NG1 1DD																						
DB ref:	DB1	Zs at this board (Ω):	0.28	Ipf at this board (kA):	0.9	Main switch type BSEN	60947-3 Isolator	Rating:	100	**Amps**	Supply	25	**mm²**	Earth:	16	**mm²**							
Distribution board location:	Hall	Phase Sequence Confirmed (where appropriate)	N/A	Supplied from:	Sub Mains	No. Of phases:	Single	Supply protective device type BSEN reference:	LIM					Rating:	LIM	**Amps**							

CIRCUIT DETAILS													TEST RESULTS																
					Circuit conductors			Over current devices			RCD		Continuity Ω					Insulation resistance							RCD		
													Ring final circuits only (Measured end to end)			All circuits (At least one column to be completed)												
Circuit Reference	Circuit Designation	Type of wiring	Reference method	Number of points served	Live (mm^2)	cpc (mm^2)	Max disconnection time permitted	Type BS EN	Rating (A)	Short circuit capacity (kA)	IΔn mA	Max Zs(Ω) Permitted by BS7671	r_1 (line)	r_n (neutral)	r_2 (cpc)	(R1 + R2)	R_2	Live/Live M Ω	Line/Neutral M Ω	Live/Earth M Ω	Neutral/Earth M Ω	Polarity Insert ✓ or X	Measured Zs Ω	Test button functionality	At IΔn ms	At 5 x IΔn ms
1	Cooker	A	101	1	6.0	2.5	0.4	60898 type B	32	6	30	1.1	N/A	N/A	N/A	0.04	N/A	N/A	2000	2000	2000	✓	0.32	✓	53	12
2	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3	Immersion Heater	A	101	1	2.5	1.5	0.4	60898 type B	16	6	30	2.2	N/A	N/A	N/A	0.08	N/A	N/A	2000	2000	2000	✓	0.36	✓	53	12
4	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5	Bathroom fan	A	101	1	1.0	1.0	0.4	60898 type B	6	6	30	5.87	N/A	N/A	N/A	0.27	N/A	N/A	2000	2000	2000	✓	0.55	✓	53	12
6	Ring Circuit	A	101	7	2.5	1.5	0.4	60898 type B	32	6	30	1.1	0.42	0.43	0.71	0.27	N/A	N/A	2000	2000	2000	✓	0.55	✓	56	14
7	Shower	A	101	1	6.0	2.5	0.4	60898 type B	32	6	30	1.1	N/A	N/A	N/A	0.05	N/A	N/A	2000	2000	2000	✓	0.33	✓	56	14
8	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10	Lights	A	101	5	1.0	1.0	0.4	60898 type B	6	6	30	5.87	N/A	N/A	N/A	0.59	N/A	N/A	2000	2000	2000	✓	0.87	✓	56	14

CODES FOR TYPES OF WIRING							
A	B	C	D	E	F	G	
PVC/PVC CABLES	PVC CABLES IN METALLIC CONDUIT	PVC CABLES IN NON-METALLIC CONDUIT	PVC CABLES IN METALLIC TRUNKING	PVC CABLES IN NON-METALLIC TRUNKING	PVC/SWA CABLES	XLPE/SWA CABLES	Reference Methods are methods of installation for which the current-carrying capacity has been determined by test or calculation

NOTES FOR RECIPIENT

THIS CERTIFICATE IS A VALUABLE DOCUMENT AND SHOULD BE RETAINED FOR FUTURE REFERENCE

This safety certificate has been issued to confirm that the electrical installation work to which it relates has been designed, constructed and inspected and tested in accordance with British Standard 7671 (The IET Wiring Regulations).

You should have received an original Certificate and the contractor should have retained a duplicate Certificate. If you were the person ordering the work, but not the owner of the installation, you should pass this certificate, or a full copy of it including the schedules immediately to the user.

The original certificate should be retained in a safe place and be 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 owner that the electrical installation complied with the requirements of British Standard 7671 at the time the certificate was issued 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 health and safety documentations.

For safety reasons, the electrical installation will need to be inspected at appropriate intervals by a competent person. The maximum time interval recommended before the next inspection is stated in the certificate under "Next Inspection."

This certificate is intended to be issued only for a new electrical installation or for new work associated with an alteration or addition to a existing installation. It should not have been issued for the inspection of an existing electrical installation. An “Electrical Installation Condition Report” should be issued for such an inspection.

The certificate is only valid if a Schedule of Inspection of Test Results is attached.