

ELECTRICAL INSTALLATION CERTIFICATE

BS 7671:2008 - single signature

Certificate number: **4555**

Registration number: **55139** (optional)



DETAILS OF CLIENT:

3 BRINE COURT
MARLB ROAD
SUNBURY
KT6 4AS

INSTALLATION ADDRESS:

3 BRINE COURT
MARLB ROAD
SUNBURY
KT6 4AS

JOB NUMBER (optional)

Sheet **1** of **3**

DESCRIPTION AND EXTENT OF INSTALLATION COVERED BY THIS CERTIFICATE

RECIPIER INSTALLATIONS IN PROPERTY
POWER AND WATER

New installation Addition Alteration

FOR DESIGN, CONSTRUCTION, INSPECTION AND TEST

I/We being the person responsible for design, construction, inspection and testing of the electrical installation (as indicated by my signature below), 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 said work for which I/we have been responsible is, to the best of my knowledge and belief, in accordance with BS 7671:2008 as amended to 2011, except for the departures, if any, detailed as follows:

Departures and comments on existing installations (120.3; 133.5)

Name: **K. F. ...**
 For: **D.M.O. ...**
 Position: **... ELECTRICAL SERVICES LTD**
 Signature: **...**
 Date: **20-12-19**
 Next inspection: **20-12-19**
 74 ASHBY AVENUE KT9 2RH
 077 38 88 35 45

I/We recommend that the installation be further inspected and tested after an interval of not more than **5** years.

SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

Nominal voltage U_o: **230** V
 Frequency F: **50** Hz
 Alternative source of supply: **d.c.**
 Prospective fault current, I_{pf}: **6.1** kA
 External loop impedance, Z_e: **0.13** Ohms

Number and type of live conductors

1-phase, 2-wire:
 3-phase, 3-wire:
 3-phase, 4-wire:

Supply protective device characteristics

Type/BS (EN): **i.c.s.**
 Rated Current: **63** A
 Other: **TT**

Earthing arrangements

Installation earth electrode Type: **TN-S**
 Location: **TN-C-S**
 Resistance: **TT**

Distributor's facility

Installation earth electrode Type: **(Rad, plate, tape, etc.)**
 Location: **...**
 Resistance: **...** Ohms

PARTICULARS OF INSTALLATION REFERRED TO IN THIS CERTIFICATE

Maximum demand

35 Amps

Main switch or circuit breaker

BS: **2-2-1-7-3** Current rating: **63** A
 Type: **2** No. of poles: **2**
 Location: **...**
 Voltage Rating: **240** V or setting: **63** A
 RCD trip time: **...** ms RCD 1_{Δn}: **...** mA
 (Applicable only where RCD is suitable and is used as a main circuit breaker)

Location of main protective bonding connections

6.7.6

Earthing conductor

Copper
 Steel
 Aluminium

Main protective bonding conductor

CSA: **6** mm²
 Connections: **verified**

Main protective conductors

CSA: **6** mm²
 Connections: **verified**

Main protective bonding conductor

CSA: **6** mm²
 Connections: **verified**
 Main bonding: **Water** **Gas** **Other**

NOTES:

- ✓ to indicate an inspection has been carried out and the result is satisfactory
 - N/A to indicate that the inspection is not applicable to a particular item
- NOTE – items on the right are seldom relevant in a domestic setting**

METHODS OF PROTECTION AGAINST ELECTRIC SHOCK	PREVENTION OF MUTUAL DETRIMENTAL INFLUENCE	CABLES AND CONDUCTORS (continued)	ADDITIONAL SCHEDULE OF ITEMS INSPECTED (where applicable)
<p>Basic protection:</p> <p><input checked="" type="checkbox"/> (i) Insulation of live parts</p> <p><input checked="" type="checkbox"/> (ii) Barriers or enclosures</p>	<p><input checked="" type="checkbox"/> (a) Proximity to non-electrical services and other influences</p> <p><input checked="" type="checkbox"/> (b) Segregation of Band I and Band II circuits or use of Band II insulation</p>	<p><input checked="" type="checkbox"/> Additional protection provided by 30 mA RCD for cables concealed in walls (where required in premises not under the supervision of a skilled or instructed person)</p> <p><input checked="" type="checkbox"/> Connection of conductors</p> <p><input checked="" type="checkbox"/> Presence of fire barriers, suitable seals and protection against thermal effects</p>	<p><input checked="" type="checkbox"/> SELV</p> <p><input type="checkbox"/> PELV</p> <p><input type="checkbox"/> Double insulation</p> <p><input type="checkbox"/> Reinforced insulation</p> <p><input type="checkbox"/> Obstacles</p> <p><input type="checkbox"/> Placing out of reach</p>
<p>Fault protection:</p> <p>(i) Automatic disconnection of supply:</p> <p><input checked="" type="checkbox"/> Presence of earthing conductor</p> <p><input checked="" type="checkbox"/> Presence of circuit protective conductors</p> <p><input checked="" type="checkbox"/> Presence of protective bonding conductors</p> <p><input checked="" type="checkbox"/> Presence of supplementary bonding conductors</p> <p><input checked="" type="checkbox"/> Choice of setting of protective and monitoring devices (for fault and/or overcurrent protection)</p>	<p>IDENTIFICATION</p> <p><input checked="" type="checkbox"/> (a) Presence of diagrams, instructions, circuit charts and similar information</p> <p><input checked="" type="checkbox"/> (b) Presence of danger notices and other warning notices</p> <p><input checked="" type="checkbox"/> (c) Labelling of protective devices, switches and terminals</p> <p><input checked="" type="checkbox"/> (d) Identification of conductors</p>	<p>GENERAL</p> <p><input checked="" type="checkbox"/> Presence of correct location of appropriate devices for isolation and switching</p> <p><input checked="" type="checkbox"/> Adequacy of access to switchgear and other equipment</p> <p><input checked="" type="checkbox"/> Particular protective measures for special installations and locations</p>	<p><input type="checkbox"/> Presence of earthing arrangements for combined protective and functional purposes</p> <p><input type="checkbox"/> Presence of adequate arrangements for alternative source(s), where applicable</p> <p><input type="checkbox"/> FELV</p> <p><input type="checkbox"/> Absence of protective conductors</p>
<p>Additional protection:</p> <p><input checked="" type="checkbox"/> Presence of residual current device(s)</p> <p><input checked="" type="checkbox"/> Presence of supplementary bonding conductors</p>	<p><input checked="" type="checkbox"/> Selection of conductors for current-carrying capacity and voltage drop</p> <p><input checked="" type="checkbox"/> Erection methods</p> <p><input checked="" type="checkbox"/> Routing of cables in prescribed zones</p> <p><input checked="" type="checkbox"/> Cables incorporating earthed armour or sheath, or run within an earthed wiring system, or otherwise adequately protected against nails, screws and the like</p>	<p><input type="checkbox"/> Connection of single-pole devices for protection or switching in line conductors only</p> <p><input checked="" type="checkbox"/> Correct connection of accessories and equipment</p> <p><input type="checkbox"/> Selection of equipment and protective measures appropriate to external influences</p> <p><input checked="" type="checkbox"/> Selection of appropriate functional switching devices</p>	<p><input type="checkbox"/> Presence of earth-free local equipotential bonding</p> <p><input type="checkbox"/> Electrical separation provided for one item of current-using equipment</p> <p><input type="checkbox"/> Electrical separation provided for more than one item of current-using equipment</p> <p><input type="checkbox"/> Segregation of safety circuits</p> <p><input checked="" type="checkbox"/> Presence of undervoltage protective devices</p>

DB Reference no. DF-7
 Location Caravan
 Zs at DB (Ω) 0.17
 I_p at DB (kA) 1.5
 Correct polarity of supply confirmed YES / NO
 Phase sequence confirmed (where appropriate) ✓

Details of circuits and/or installed equipment vulnerable to damage when testing
All electrical devices

Details of test instruments used (state serial and/or asset numbers)
 Continuity S13376
 Insulation resistance
 Earth fault loop impedance
 RCD
 Earth electrode resistance

Tested by: M.A. RIZZO
 Name (CAPITALS) M.A. RIZZO
 Signature [Signature]
 Date 20-12-14

Circuit number	Circuit details										TEST RESULTS										Remarks (continue on a separate sheet if necessary)
	Circuit description	BS (EN)	Type	Rating (A)	Breaking capacity (kA)	Reference method	Live (mm ²)	cpc (mm ²)	Ring final circuit continuity (Ω)	r ₁ (line)	r ₂ (cpc)	(R ₁ + R ₂)*	R _s	Insulation resistance (MΩ)	Live - Live	Live - E	Polarity	Z _s (Ω)	RCD (ms)	Test button operation	
1	RCD	6032	B	15	300	A	6	25	-	0.3	0.06	-	-	100	100	✓	0.22	32	14	✓	nk
2	Switch supply	6032	B	15	300	A	6	25	0.3	0.06	0.19	-	100	100	✓	0.22	32	14	✓	nk	
3	Switch ring	6032	B	15	300	A	6	25	0.3	0.06	0.19	-	100	100	✓	0.22	32	14	✓	nk	
4	Light	6032	B	15	300	A	6	15	-	-	0.26	-	100	100	✓	0.22	32	14	✓	nk	
5	Switch A supply	6032	B	15	300	A	6	15	-	-	0.26	-	100	100	✓	0.22	32	14	✓	nk	
6	RCD	6032	B	15	300	A	6	25	0.34	0.06	0.04	-	100	100	✓	0.34	26	11	✓	nk	
7	Light supply	6032	B	15	300	A	6	25	0.34	0.06	0.04	-	100	100	✓	0.31	26	11	✓	nk	
8	Light	6032	B	15	300	A	6	25	-	-	0.11	-	100	100	✓	0.16	26	11	✓	nk	
9	Light	6032	B	15	300	A	6	15	-	-	0.06	-	100	100	✓	0.07	26	11	✓	nk	

* Where there are no spurs connected to a ring final circuit this value is also the (R₁ + R₂) of the circuit.