



APPROVED
CONTRACTOR

Contractor's Reference Number

N/A

charlwoodelectrical

10 The Street
Charlwood
Surrey RH6 0BY
Mobile: 07802 668147
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Part P reference

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www.charlwoodelectrical.co.uk

This certificate is not valid if the serial
number has been defaced or altered **DCN8/0351157**

ELECTRICAL INSTALLATION CERTIFICATE FOR SMALL INSTALLATIONS NOT EXCEEDING 100 A

Issued in accordance with British Standard 7671 - Requirements for Electrical Installations by an Approved Contractor or Conforming Body enrolled with NICEIC, Warwick House, Houghton Hall Park, Houghton Regis, Dunstable, LU5 5ZX

TYPE OF INSTALLATION	Domestic Dwelling ☒	Highway Installation ☐	Leisure Accommodation Vehicle ☐	Modular Dwelling ☐	Transportable Unit ☐
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DETAILS OF THE CLIENT/MANUFACTURER		ADDRESS OF THE INSTALLATION/LOCATION	
Client and address	Mr J Bowers N/A	Installation address	The Studio Study Cophorne Road Cophorne Crawley West Sussex
	Postcode:		Postcode: RH10 3PB

DETAILS OF THE INSTALLATION		The installation is:
Extent of the installation work covered by this certificate	Electrical works carried out to The Studio Study Kitchen & Shower.	New ☐
		An addition ☒
		An alteration ☐

DESIGN, CONSTRUCTION, INSPECTION AND TESTING		Relevant risk assessment(s) have been attached to this certificate (Regulation 411.3.3 indent (a)) ☐	
I, being the person responsible for the design, construction, inspection and testing of the electrical installation (as indicated by my signature adjacent), 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 have been responsible is, to the best of my knowledge and belief, in accordance with BS 7671, 2008 ammended to 2015 (date) except for the departures, if any, detailed as follows:		The extent of liability of the signatory is limited to the work described above as the subject of this certificate. For the DESIGN the CONSTRUCTION and the INSPECTION AND TESTING of the installation.	
Details of departures from BS 7671, as amended (Regulations 120.3,133.5) None		Signature	Name (CAPITALS) SEAN NEVILLE Date 08/08/2016
		Signature	Name (CAPITALS) GARY LOCKYER Date 08/08/2016

PARTICULARS OF THE APPROVED CONTRACTOR		NEXT INSPECTION	
Trading Title	Charlwood Electrical Ltd	Enter interval in terms of years, months or weeks, as appropriate	
Address	10 The Street Charlwood Surrey	I RECOMMEND that this installation is further inspected and tested after an interval of not more than 5 yrs	
	Postcode: RH6 0BY	COMMENTS ON EXISTING INSTALLATION	
		NONE	
		In the case of an alteration or additions see section 633 of BS7671	
		SCHEDULE OF ADDITIONAL RECORDS*	
		See attached schedule	
		N/A	

* Where the electrical work to which this certificate relates includes the installation of a fire detection/alarm system (or a part of such a system), this electrical safety certificate should be accompanied by the particular certificate for the system.

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Please see the 'Notes for Recipients'

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SUPPLY CHARACTERISTICS

System type(s)

TN-S

TN-C-S

TT

Number and type of live conductors

1-phase (2-wire)

1-phase (3-wire)

3-phase (3-wire)

3-phase (4-wire)

Other

Nature of supply parameters

Number of sources

1

Nominal voltage(s)

N/A

U₀ (1)

230

Prospective fault current, I_{pf} (2)(3)

6

Nominal frequency, f (1)

50

External earth fault loop impedance, Z_e (1)

28

Prospective fault current, I_{pf} (2)(3)

N/A

Characteristics of primary supply overcurrent protective device(s)

BS(EN)

BS 1362

Type

N/A

Rated current

100

Short-circuit capacity

16

Confirmation of supply polarity

PARTICULARS OF INSTALLATION AT THE ORIGIN

Means of earthing

Distributor's facility

Installation earth electrode

Details of installation earth electrode (where applicable)

Type (eg rod(s), tape etc)

LIM

Location

LIM

Electrode resistance R_a

N/A

Method of measurement

N/A

Protective measure(s) for fault protection

ADS

Measured Z_e

28

Maximum demand (Load)

80

Number of smoke alarms

0

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

Type BS(EN)

BS 1362

No of poles

2

Supply conductors material

Copper

Supply conductors csa

25

Voltage rating

230

Rated current, I_n

80

RCD operating current, I_{Δn}*

N/A

RCD operating time (at I_{Δn})*

N/A

Rated time delay*

N/A

VEHICLE DETAILS

Type

Touring

Static

Motorhome

Year of manufacture

N/A

Model

N/A

Registration (motorhome)

N/A

VIN

N/A

PARTICULARS OF VEHICLE INSTALLATION

Hook-up connection

Flexible supply cable

Length

N/A

I₂

N/A

System type: TT

For static (fixed) vehicles

Installation earth electrode details:

Type (e.g. rods(s), Tapes(s))

N/A

Electrode resistance, R_a

N/A

Location

N/A

System type: TN-S

Maximum tolerable upstream earth fault loop impedance, Z_T

N/A

Maximum tolerable fault current

N/A

Maximum demand (Load) per phase provision

N/A

Earth and protective bonding conductors

Earth conductor (for static vehicles)

N/A

Conductor Material

N/A

Conductor csa

N/A

Connection/continuity verified

N/A

Chassis

N/A

Water service

N/A

Gas service

N/A

TRANSPORTABLE UNIT DETAILS

Model name

N/A

Description

N/A

Maximum tolerable upstream earth fault loop impedance, Z_T

N/A

Maximum tolerable fault current

N/A

Maximum demand (Load) per phase provision

N/A

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SCHEDULE OF ITEMS INSPECTED

1.0

CONDITION/ADEQUACY OF DISTRIBUTOR'S/SUPPLY INTAKE EQUIPMENT
(the Distributor should be notified of any unsatisfactory equipment)

1.1

Service cable

✓

1.2

Service head

✓

1.3

Distributor's earthing arrangement

✓

1.4

Meter tails - Distributor/Consumer

✓

1.5

Metering equipment

✓

1.6

Means of main isolation (where present)

✓

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

N/A

2.2

Adequate arrangements where a generating set operates in parallel with the public supply

N/A

2.3

Presence of alternative/additional supply warning notice(s)

N/A

3.0

AUTOMATIC DISCONNECTION OF SUPPLY

3.1

Presence and adequacy of protective earthing/ bonding arrangements as follows:

a)

Distributor's earthing arrangement or installation earth electrode arrangement

✓

b)

Earthing conductor and connections

✓

c)

Main protective bonding conductors and connections

✓

d)

Earthing/bonding labels at all appropriate locations

✓

3.2

Accessibility of:

a)

Earthing conductor connections

✓

b)

All protective bonding connections

✓

4.0

BASIC PROTECTION

4.1

Presence and adequacy of measures to provide basic protection (prevention of contact with live parts) within the installation:

a)

Insulation of live parts e.g. conductors completely covered with durable insulating materials

✓

b)

Barriers or enclosures e.g. correct IP rating

✓

5.0

ADDITIONAL PROTECTION

5.1

Presence and effectiveness of additional protection methods

a)

RCD(s) not exceeding 30 mA operating current

✓

b)

Supplementary bonding

✓

c)

Segregation of safety circuits

✓

6.0

OTHER METHODS OF PROTECTION

6.1

Basic and fault protection

a)

SELV

✓

b)

PELV

✓

c)

Double insulation/Reinforced insulation

✓

d)

Electrical separation for one item of equipment

✓

6.2

Presence of danger notices

✓

7.0

SWITCHGEAR/CONSUMER UNIT(S)

7.1

Adequacy of working space/accessibility

✓

7.2

Security of fixing

✓

7.3

Adequacy/security of barriers

✓

7.4

Insulation of live parts not damaged during erection

✓

7.5

Enclosures not damaged during installation

✓

7.6

Suitability of enclosures for IP and fire ratings

✓

7.7

Presence and operation of main switch(es), linked, where appropriate to verify disconnection

✓

7.8

Switchgear not damaged/deteriorated such as might impair safety

✓

7.9

Operation of circuit-breakers and RCDs to prove functionality

✓

7.10

Correct identification of circuit protective devices

✓

7.11

RCD(s) provided for fault protection, where specified

✓

7.12

RCD(s) provided for additional protection, where specified

✓

7.13

Confirmation overvoltage protection (SPDs) provided and functional where specified

N/A

7.14

Presence of RCD quarterly test notice at or near the origin

✓

7.15

Presence of diagrams, charts or schedules at or near each Consumer unit(s)

✓

7.16

Presence of non-standard (mixed) cable colour warning notice at or near the appropriate distribution board, where required

N/A

7.17

Presence of next inspection recommendation label

✓

7.18

Presence of other required labelling

N/A

7.19

Selection of protective device(s) and base(s); correct type and rating

✓

7.20

Single-pole protective devices in line conductor only

✓

7.21

Protection against mechanical damage where cables enter equipment

✓

7.22

Protection against electromagnetic effects where cables enter ferromagnetic enclosures

N/A

7.23

Confirmation that ALL conductor connections, including connections to busbars are correctly located in terminals and are tight and secure

✓

8.0

CIRCUITS

8.1

Identification of conductors

✓

8.2

Cables adequately supported throughout their length

✓

8.3

Examination of cables for signs of mechanical damage during installation

✓

8.4

Adequacy of cables for current-carrying capacity with regard to the type and nature of installation

✓

8.5

Adequacy of protective devices: type and rated current for fault protection

✓

8.6

Presence and adequacy of circuit protective conductors

✓

8.7

Coordination between conductors and overload protective devices

✓

8.8

Non-sheathed cables enclosed throughout (e.g. in conduit/trunking)

N/A

8.9

Cables installed under floors, above ceilings, in walls/partitions, adequately protected against damage

a)

Installed in prescribed zones

✓

b)

Incorporating earthed armour or sheath, or installed within earthed wiring system, or otherwise protected against mechanical damage by nails, screws and the like

✓

8.10

Provision of additional protection by RCDs having rated residual operating current (IΔn) not exceeding 30 mA

a)

For mobile equipment with a current rating not exceeding 32 A for use outdoors

N/A

b)

For all socket-outlets of rating 20 A or less, unless exempt

✓

c)

For cables installed in walls/partitions at a depth of less than 50 mm

✓

d)

For cables installed in walls/partitions containing metal parts regardless of depth

✓

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SCHEDULE OF ITEMS INSPECTED continued

8.11

Provision of fire barriers, sealing arrangements so as to minimise the spread of fire

✓

8.12

Band II cables segregated/separated from Band I cables

✓

8.13

Cables segregated/separated from non-electrical services

N/A

8.14

Termination of cables at enclosures

a)

Connections under no undue strain

✓

b)

No basic insulation of a conductor visible outside enclosure

✓

8.15

Circuit accessories not damaged during erection

✓

8.16

Single-pole devices for switching or protection in the line conductors only

✓

8.17

Adequacy of connections, including cpcs, within accessories and at fixed and stationary equipment

✓

8.18

Presence of appropriate devices for isolation and switching correctly located

a)

Accessible means of switching off for mechanical maintenance

✓

b)

Correct operation verified (functional check)

✓

8.19

Cables incorporating earthed armour or sheath or run in an earthed wiring system, or otherwise protected against nails, screws and the like

✓

9.0

CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED)

9.1

Adequacy of working space/accessibility

✓

9.2

Suitability of equipment in terms of IP and fire ratings

✓

9.3

Enclosure not damaged/deteriorated during installation so as to impair safety

✓

9.4

Cable entry holes in ceilings above luminaires, sized or sealed so as to restrict the spread of fire

N/A

9.5

Recessed luminaires (downlighters)

a)

Correct type of lamps fitted

✓

b)

Installed to minimise build-up of heat

✓

10.0

LOCATION(S) CONTAINING A BATH OR SHOWER

10.1

Additional protection by RCD not exceeding 30 mA

a)

For low voltage circuits serving the location

✓

b)

For low voltage circuits passing through Zone 1 and Zone 2 not serving the location

✓

10.2

Where used as a protective measure, requirements for SELV or PELV are met

✓

10.3

Shaver sockets comply with BS EN 61558-2-5 formerly BS 3535

✓

10.4

Presence of supplementary bonding conductors unless not required by BS 7671: 2008

✓

10.5

Low voltage (e.g. 230 volts) socket-outlets sited at least 3 m from zone 1

✓

10.6

Suitability of equipment for external influences for installed location in terms of IP rating

✓

10.7

Suitability of electrical equipment for installation in a particular zone

✓

11.0

OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS

11.1

List all other special installations or locations present, if any. (Record separately where the result of particular inspections apply)

SCHEDULE OF ITEMS INSPECTED PARTICULAR TO A LEISURE ACCOMMODATION VEHICLE OR TRANSPORTABLE UNIT

1.

Cables adequately protected against the effects of vibration

N/A

2.

Presence of protection against mechanical damage where cables enter equipment

N/A

3.

Cables segregated/separated from non-electrical services such as LPG compartment (see Regulation 721.528.3.4)

N/A

4.

Accessories/Equipment

-Security of fixing, and suitability for the environment and external influences (e.g. IP rating)

N/A

-Equipment does not constitute a fire hazard

N/A

SCHEDULE OF ITEMS INSPECTED PARTICULAR TO HIGHWAY STREET FURNITURE

1.

The requirements of BS 7671 regarding access to live parts (see Regulation 714.411.2.201) have been met.

N/A

2.

Enclosure(s) securely fixed and not damaged/deteriorated so as to impair safety

N/A

3.

Presence of protection against mechanical damage where cables enter equipment

N/A

4.

Provision of RCD of $I_{\Delta n} \leq 30$ mA for additional protection for lighting of bus shelters, telephone kiosks, town plans and the like

N/A

5.

Connection of conductors adequately enclosed

N/A

6.

Accessories/Equipment

-Security of fixing, and suitability for the environment and external influences (e.g. IP rating)

N/A

-Equipment does not constitute a fire hazard

N/A

SCHEDULE OF ITEMS INSPECTED BY:

Signature

Name

SEAN NEVILLE

Date

08/08/2016

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