

Date 04/10/2023

Certificate Serial No/Ref:

231004

D A Carlton Electrical Installations

Domestic Electrical Installation Certificate

(Requirements for Electrical Installations – BS 7671 IET Wiring Regulations)

DETAILS OF THE CLIENT		ADDRESS OF THE INSTALLATION	
Client and address	Mark Ellwood Paradigm House 2A Malham Grove Heworth, York	Installation address	Paradigm House 2A Malham Grove Heworth, York
	Postcode: YO310QG		Postcode: YO310QG
DETAILS OF THE INSTALLATION		The Installation Is	
Extent of the installation work covered by this certificate	Consumer unit change	New	✓
		An addition	N/A
		An alteration	✓
DESIGN, CONSTRUCTION, INSPECTION AND TESTING		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.	
* BS 7671 amended to : 2018/1			
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:		Signature  Name (Capitals) DAVID A CARLTON Date 04/10/2023	
Details of departures from BS 7671: as amended (Regulations 120.3 & 133.5)		The results of the inspection and testing reviewed by	
N/A		Signature  Name (Capitals) DAVID CARLTON Date 04/10/2023	
PARTICULARS OF THE CONTRACTOR		NEXT INSPECTION	
Trading title	D A Carlton Electrical Installations	* Interval in terms of years, months, or weeks, as appropriate	
35 Southolme Drive York	Email d_carlton@sky.com	I RECOMMEND that this installation is further inspected and tested after an interval of not more than * 5 years	
Web		COMMENTS ON EXISTING INSTALLATION	
Telephone No 07918128093	Postcode YO30 5 RL	Additional information and report notes	
Registration No: (if applicable) EPP57746	Branch No: (if applicable) N/A	N/A	
SCHEDULE OF ADDITIONAL RECORDS		See attached schedule	Risk assessment attached
N/A			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

(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)

230/230

V

Nominal frequency f (1)

50

Hz

Uo (1)

242

V

External earth fault loop impedance Ze (2/3)

0.8

Ω

Single-phase

Prospective fault current (2/3)

16

kA

3-phase

Prospective fault current (2/3)

N/A

kA

*Characteristics of Primary Supply

*Other sources of supply to be detailed on attached schedules

BS(EN)

Unknown

Type

Unknown

Rated current

Unknown

A

Short-circuit capacity

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

0.24

Ω

Maximum demand: (load)

111

Amps

Number of smoke alarms

Protective measures for fault protection

ADS

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

Type
BS(EN)

BS EN 60947-3 Isolator

Voltage rating

230

V

No of poles

2

Rated Current

100

A

Supply conductor material

Copper

*RCD operating current IΔn

N/A

mA

Supply conductor csa

mm²

*RCD rated time delay

N/A

ms

* If RCD main switch

*RCD operating time (at IΔn)

N/A

ms

Earthing conductor

Conductor material:

Copper

Conductor csa:

10

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

✓

Water installation pipes

✓

Oil installation pipes

N/A

Structural steel

N/A

To other Specifiy

N/A

SCHEDULE OF INSPECTIONS

✓ Indicates satisfactory inspection, N/A indicates the inspection is not applicable

Item No

DESCRIPTION

OUTCOME

1.0

Condition of consumer's intake equipment (Visual inspection only)

✓

2.0

Parallel or switched alternative sources of supply

✓

3.0

Protective measure: Automatic Disconnection of Supply (ADS)

✓

4.0

Basic protection

✓

5.0

Protective measures other than ADS

✓

6.0

Additional protection

✓

7.0

Distribution equipment

✓

Item No

DESCRIPTION

OUTCOME

8.0

Circuits (Distribution and Final)

✓

9.0

Isolation and switching

✓

10.0

Current-using equipment (permanently connected)

✓

11.0

Identification and notices

✓

12.0

Location(s) containing a bath or shower

✓

13.0

Other special installations or locations

✓

14.0

Prosumer's low voltage electrical installation(s)

✓

D A Carlton Electrical Installations

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Report pages including inspection and test schedules 2 of 5

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CODES FOR TYPES OF WIRING						
A	B	C	D	E	F	G
Thermoplastic insulated/ sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non-metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non-metallic trunking	Thermoplastic SWA cables	Thermosetting SWA cables

TEST INSTRUMENT(S) USED			
Earth fault loop impedance Continuity MFT	N/A	Insulation resistance RCD Other	N/A
	N/A		N/A
	102119855		N/A

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

Solar,
PIR
LED drivers
Boiler
USB sockets

Distribution Board Details For																				Paradiqm House 2A Malham Grove Heworth, York YO310QG									
DB ref:	DB1			Zs at this board (Ω):	0.24		lpf at this board (kA):	0.95		Main switch type BSEN	60947-3 Isolator			Rating:	100		A	SPD Type(s)	T2		Supply	16		mm ²	Earth:	16		mm ²	
Distribution board location:	Hall			Phase Sequence Confirmed (where appropriate)		N/A		Supplied from:	Mains			No. Of phases:	Single		Supply protective device type BSEN reference:			Unknown			Rating:	Unknown		Amps					
Circuit Details												TEST RESULTS																	

Circuit reference	Circuit designation	Type of wiring	Reference method	Number of points served	Circuit conductors		Max disconnection time	Overcurrent protective device			RCD			Continuity Ω			Insulation resistance				Polarity	Maximum measured Zs Ω	RCD		AFDD
Live (mm²)	cpc (mm²)	Type BS (EN)	Type	Rating	Breaking capacity (kA)	Max permitted Zs (Ω)		100%	Type BS (EN)	Type	IΔn (mA)	Rating (A)	Ring final circuits only (measured end to end)		All circuits (At least 1 column to be completed)	Test voltage V	Live - Live (MΩ)	Live - Neutral (MΩ)	Live - Earth (MΩ)	Neutral - Earth (MΩ)			Disconnection time (ms)	Test button/fucntionality	Manual test button/ functionality
													r ₁ (line)	r _n (neutral)											

1	SPD							61009	N/A				61009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	>299	>299	>299			N/A		
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	N/A	N/A	N/A	N/A	N/A
3	Ring Circuit up	A	101	16	2.5	1.5	0.4	61009	B	32	6	1.37	N/A	N/A	N/A	N/A	0.4	0.4	0.73	0.48	N/A	500v	N/A	>299	>299	>299	✓	1.28	29.4	✓	N/A
4	Ring Circuit down	A	101	11	2.5	1.5	0.4	61009	B	32	6	1.37	N/A	N/A	N/A	N/A	0.84	0.81	1.33	0.73	N/A	500v	N/A	>299	>299	>299	✓	1.53	28.4	✓	N/A
5	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	N/A	N/A	N/A	N/A	N/A
6	Ring Circuit kitchen	A	101	10	2.5	1.5	0.4	61009	B	32	6	1.37	N/A	N/A	N/A	N/A	0.4	0.4	0.74	0.71	N/A	500v	N/A	>299	>299	>299	✓	1.51	33.6	✓	N/A
7	Hob 2	A	101	2	6.0	2.5	0.4	61009	B	32	6	1.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.27	N/A	500v	N/A	>299	>299	>299	✓	1.07	28.3	✓	✓
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	N/A	N/A	N/A	N/A	N/A
9	Hob 1	A	101	2	6.0	2.5	0.4	61009	B	32	6	1.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.21	N/A	500v	N/A	>299	>299	>299	✓	1.01	29.4	✓	N/A
10	Shower up	A	101	1	6.0	2.5	0.4	61009	B	32	6	1.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.49	N/A	500v	N/A	>299	>299	>299	✓	1.29	30.6	✓	N/A
11	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	N/A	N/A	N/A	N/A	N/A
12	Shower down	A	101	1	6.0	2.5	0.4	61009	B	32	6	1.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.1	N/A	500v	N/A	>299	>299	>299	✓	0.90	30.4	✓	N/A
13	Lights	A	101	36	1.0	1.0	0.4	61009	B	6	6	7.28	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.5	N/A	500v	N/A	N/A	N/A	N/A	✓	5.30	40.0	N/A	N/A
14	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	N/A	N/A	N/A	N/A	N/A
15	Solar PV	A	101	1	2.5	1.5	0.4	60898	B	16	6	2.73	61008	AC	30	N/A	N/A	N/A	N/A	0.04	N/A	500v	N/A	>299	>299	>299	✓	0.84	30.5	✓	N/A

Not all SPDs have visible functionality indication. RCD effectiveness is verified using an alternating current test at rated residual operating current (IΔn). Not all AFDDs have a test button

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, inspected and tested in accordance with BS 7671. 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 owner.

This 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 BS 7671 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 electrical installation will need to be inspected at appropriate intervals by a skilled person or persons, competent in such work. The maximum time interval recommended before the next inspection is stated on Page 1 under 'NEXT INSPECTION'.

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. It should not have been issued for the inspection and testing of an existing electrical installation. An 'Electrical Installation Condition Report' should be issued for such an inspection.

This Certificate is only valid if the Schedule of Inspections has been completed to confirm that all relevant inspections have been carried out and where accompanied by Schedule(s) of Circuit Details and Test Results. Where the installation includes a residual current device (RCD) it should be tested six-monthly 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 shall be followed with respect to test button operation. Where the installation includes a surge protective 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. For safety reasons it is important that this instruction is followed. Where the installation includes alternative or additional sources of supply, warning notices should be found at the origin or meter position or, if remote from the origin, at the consumer unit or distribution board and at all points of isolation of all sources of supply.