

Volex consumer units
and the **17th** edition



New VCU range of Consumer Units

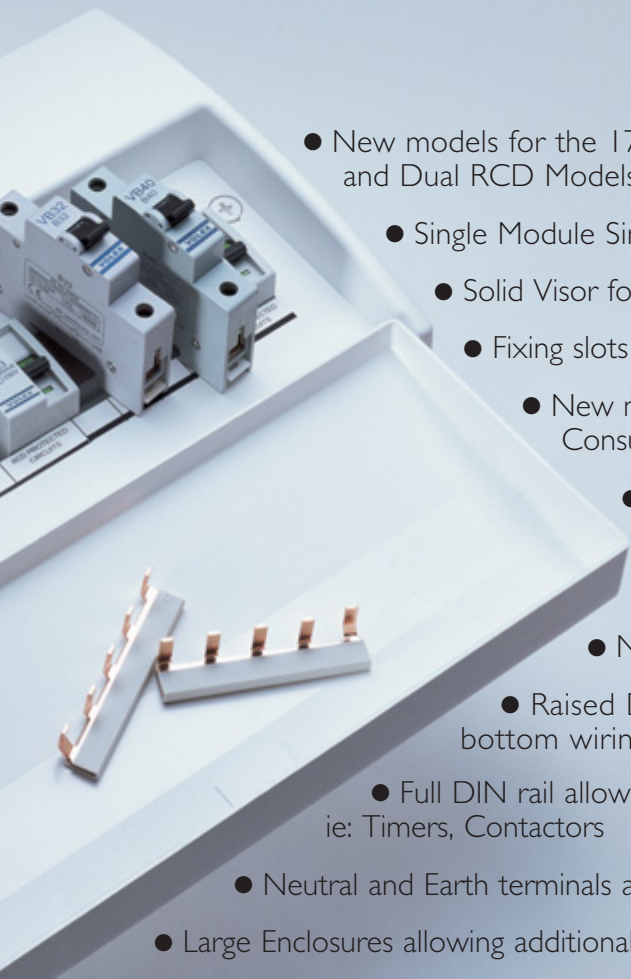
The new range of Volex Protector Consumer units is designed to help installers meet the high demands of the modern domestic installation.

The range includes new insulated and metal cased units that are designed for ease of installation with extra wiring space and symmetrical layout.

The choice of product includes all of the previous popular models such as the split load units plus some additional models designed especially with the 17th edition wiring regulations in mind, such units include High Integrity and Dual RCD boards.

Also added to the range is a single module 18mm 30mA RCBO in ratings from 6 Amp to 40 Amp for the additional protection requirements of individual circuits.





- New models for the 17th Edition ie: High Integrity and Dual RCD Models
 - Single Module Single Pole RCBO's
 - Solid Visor for discreet appearance
 - Fixing slots for level adjustment
 - New modern curved Style Consumer Unit
 - All round cable entry-top, bottom sides and rear
 - Metal Cased units
 - Neutral Colour
 - Raised DIN rail providing top and bottom wiring routes
 - Full DIN rail allows for use of DIN Accessories ie: Timers, Contactors
 - Neutral and Earth terminals all at the top of the enclosure
- Large Enclosures allowing additional wiring space
- Large cable entries for single point cable entry applications
- Flexible Splitload units to allow configuration on site
- Quarter turn screws for quick release of cover

The publication of the 17th edition of the IEE wiring regulations has brought about some new considerations for domestic installations in particular:

Buried Cables

- All cables buried beneath the plaster surface of a wall or partition (at less than 50mm) should be protected by 30mA RCDs
- All cables concealed in metal stud partitions (common in new builds) should be protected by 30mA RCDs



Socket Outlets

All socket outlets for general use by ordinary persons should be protected by a 30mA RCD.

Portable Equipment

All portable equipment for use outdoors should be protected by a 30mA RCD.



Special Locations

All circuits in a room with a fixed bath or shower should be protected by one or more 30mA RCDs. eg: shower, lighting, heating and ventilation.

Circuit Arrangements

Installations should be divided up into circuits so as to take account of danger and inconvenience of a single fault which could cause unwanted tripping of an RCD. eg: a fault on the shower causing the bathroom to fall into darkness.

The High Integrity board shows a circuit arrangement in a typical home. Lighting and socket circuits are separate on their relevant floors. Safety devices such as Smoke Alarms are on a separate dedicated RCBO to avoid unnecessary tripping.



British Standards and IEE regulations are subject to change and amendment. This guide to Volex consumer units is not a substitute for the regulations which should always be used for all types of electrical installation design, and installation work.

MAIN SWITCH CONSUMER UNITS



VCU14MS

INSULATED

LIST NO	DESCRIPTION
VCU2MS	2 way Consumer unit 63A Incomer
VCU5MS	5 way Consumer unit 100A Incomer
VCU8MS	8 way Consumer unit 100A Incomer
VCU11MS	11 way Consumer unit 100A Incomer
VCU14MS	14 way Consumer unit 100A Incomer
VCU19MS	19 way Consumer unit 100A Incomer

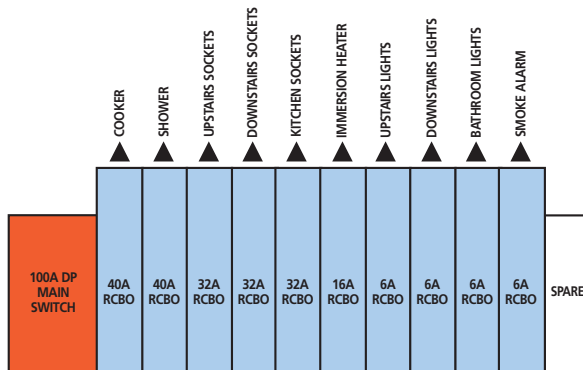


VCU5MMS

METAL

LIST NO	DESCRIPTION
VCU2MMS	2 way Consumer unit 63A Incomer
VCU5MMS	5 way Consumer unit 100A Incomer
VCU8MMS	8 way Consumer unit 100A Incomer
VCU11MMS	11 way Consumer unit 100A Incomer
VCU14MMS	14 way Consumer unit 100A Incomer
VCU19MMS	19 way Consumer unit 100A Incomer

MAIN SWITCH UNIT



Utilising RCBOs throughout would provide a secure dedicated 30mA protected supply to every circuit. Example of a typical Installation where complete 30mA protection and all independent circuits are required.

SPLIT LOAD CONSUMER UNITS



VCU12SLF

INSULATED

LIST NO	DESCRIPTION
VCU6SLF	6 way Flexible Splitload Consumer unit
VCU9SLF	9 way Flexible Splitload Consumer unit
VCU12SLF	12 way Flexible Splitload Consumer unit
VCU17SLF	17 way Flexible Splitload Consumer unit

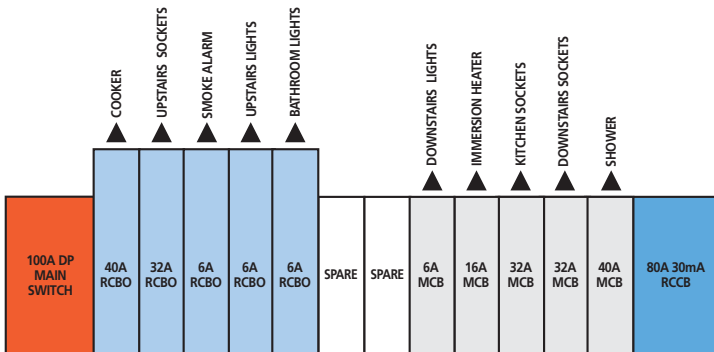


VCU9MSLF

METAL

LIST NO	DESCRIPTION
VCU6MSLF	6 way Flexible Splitload Consumer unit
VCU9MSLF	9 way Flexible Splitload Consumer unit
VCU12MSLF	12 way Flexible Splitload Consumer unit
VCU17MSLF	17 way Flexible Splitload Consumer unit

SPLIT LOAD UNIT



A small group of circuits on the RCD and all others on independent devices (RCBO).
 Example of a typical Installation where complete 30mA protection and some independent circuits are required.

HIGH INTEGRITY CONSUMER UNITS



VCU31

INSULATED

LIST NO	DESCRIPTION
VCU31	10 way High Integrity MS+2 RCD+4 RCD+4
VCU32	10 way High Integrity MS+4 RCD+3 RCD+3
VCU33	15 way High Integrity MS+2 RCD+6 RCD+7
VCU34	15 way High Integrity MS+4 RCD+6 RCD+5
VCU35	15 way High Integrity MS+6 RCD+5 RCD+4



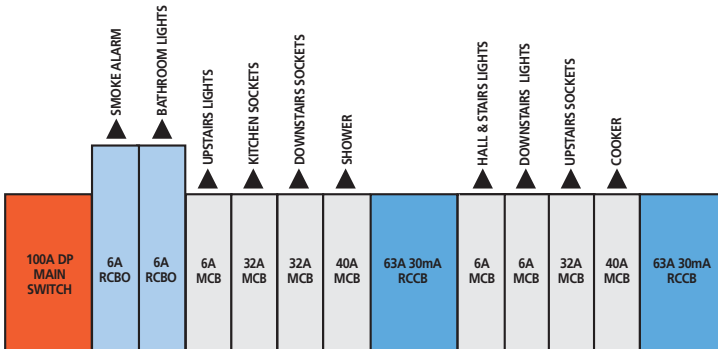
VCU41

METAL

LIST NO	DESCRIPTION
VCU41	10 way High Integrity MS+2 RCD+4 RCD+4
VCU42	10 way High Integrity MS+4 RCD+3 RCD+3
VCU43	15 way High Integrity MS+2 RCD+6 RCD+7
VCU44	15 way High Integrity MS+4 RCD+6 RCD+5
VCU45	15 way High Integrity MS+6 RCD+5 RCD+4

* Metal High Integrity boards are made to order.

HIGH INTEGRITY CONSUMER UNIT



Uses two RCD protected sections and a number of ways for dedicated (High Integrity) circuits using 30mA RCBOs. Example of a typical Installation where complete 30mA protection is required and two independent circuits are necessary.

DUAL RCD CONSUMER UNITS

INSULATED



VCU16

LIST NO	DESCRIPTION
VCU16	5 + 5 Dual RCD Splitload Consumer unit
VCU17	8 + 7 Dual RCD Splitload Consumer unit

METAL

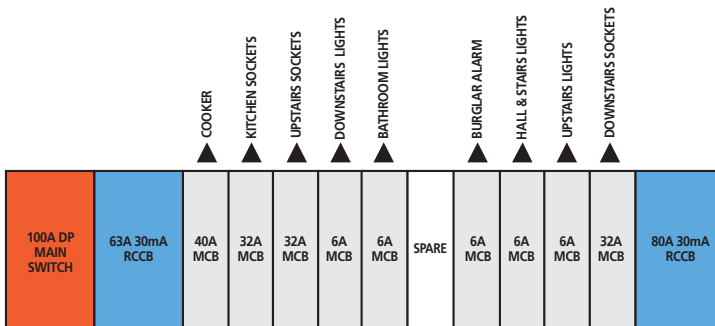


VCU26

LIST NO	DESCRIPTION
VCU26	5 + 5 Dual RCD Splitload Consumer unit
VCU27	8 + 7 Dual RCD Splitload Consumer unit

* Metal Dual RCD boards are made to order.

DUAL RCD CONSUMER UNIT



Comprises of two sections - each protected by a 30mA RCD.

Example of a typical Installation where complete 30mA protection is required, but no independent circuits are necessary.

RCD INCOMER CONSUMER UNITS

INSULATED



VCU14RCD

LIST NO	DESCRIPTION
VCU2RCD	2 way Consumer unit 63A 30mA Incomer
VCU5RCD	5 way Consumer unit 80A 30mA Incomer
VCU8RCD	8 way Consumer unit 80A 30mA Incomer
VCU11RCD	11 way Consumer unit 80A 30mA Incomer
VCU14RCD	14 way Consumer unit 80A 30mA Incomer
VCU19RCD	19 way Consumer unit 80A 30mA Incomer

METAL



VCU8MRCD

LIST NO	DESCRIPTION
VCU2MRCD	2 way Consumer unit 63A 30mA Incomer
VCU5MRCD	5 way Consumer unit 80A 30mA Incomer
VCU8MRCD	8 way Consumer unit 80A 30mA Incomer
VCU11MRCD	11 way Consumer unit 80A 30mA Incomer
VCU14MRCD	14 way Consumer unit 80A 30mA Incomer
VCU19MRCD	19 way Consumer unit 80A 30mA Incomer

SHOWER UNIT



VCUSHOWERKIT

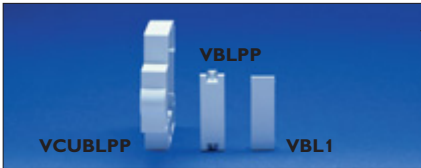
LIST NO	DESCRIPTION
VCUSHOWERKIT	2 way Consumer unit 63A 30mA RCD Incomer populated with 1 x 50A MCB
VCGKIT	2 way IP65 Consumer unit 40A 30mA RCD Incomer populated with 1 x 6A + 1 x 16A MCBs

DEVICES



MCBs

LIST NO	DESCRIPTION
VB06	6A Type B 6kA
VB10	10A Type B 6kA
VB16	16A Type B 6kA
VB20	20A Type B 6kA
VB32	32A Type B 6kA
VB40	40A Type B 6kA
VB50	50A Type B 6kA



BLANKS

LIST NO	DESCRIPTION
VBL	1/2 module Blank
VBL1	1 module Blank
VBLPP	Twist fit 1 module Blank
VCUBLPP	Combined 1 way cover & Busbar Blank



1 MODULE RCBOs

LIST NO	DESCRIPTION
VRCBO06/1	6A 30mA One Module Single Pole RCBO
VRCBO10/1	10A 30mA One Module Single Pole RCBO
VRCBO16/1	16A 30mA One Module Single Pole RCBO
VRCBO20/1	20A 30mA One Module Single Pole RCBO
VRCBO32/1	32A 30mA One Module Single Pole RCBO
VRCBO40/1	40A 30mA One Module Single Pole RCBO



2 MODULE RCBOs

LIST NO	DESCRIPTION
VRCBO0630	6A 30mA Two Module Double Pole RCBO
VRCBO1030	10A 30mA Two Module Double Pole RCBO
VRCBO1630	16A 30mA Two Module Double Pole RCBO
VRCBO2030	20A 30mA Two Module Double Pole RCBO
VRCBO3230	32A 30mA Two Module Double Pole RCBO
VRCBO4030	40A 30mA Two Module Double Pole RCBO



RCDs

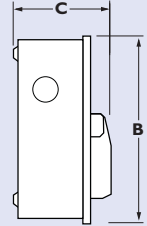
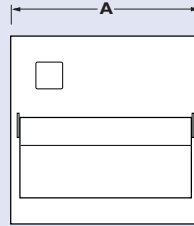
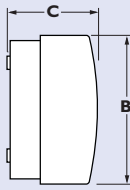
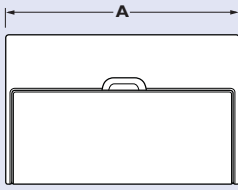
LIST NO	DESCRIPTION
VR25	25A 30mA Double Pole
VR40	40A 30mA Double Pole
VR63	63A 30mA Double Pole
VR80	80A 30mA Double Pole



ENCLOSURES

LIST NO	DESCRIPTION
VRE2	2 Module IP40 Enclosure

DIMENSIONS



Dimensions

Dimensions

INSULATED

Main Switch

List No	A	B	C
VCU2MS	141	225	111
VCU5MS	194	225	111
VCU8MS	248	225	111
VCU11MS	302	225	111
VCU14MS	355	225	111
VCU19MS	445	225	111

METAL

Main Switch

List No	A	B	C
VCU2MMS	126	210	96
VCU5MMS	188	238	123
VCU8MMS	241	238	123
VCU11MMS	292	238	123
VCU14MMS	345	238	123
VCU19MMS	438	238	123

Splitload Board

List No	A	B	C
VCU6SLF	248	225	111
VCU9SLF	302	225	111
VCU12SLF	355	225	111
VCU17SLF	445	225	111

Splitload Board

List No	A	B	C
VCU6MSLF	241	238	123
VCU9MSLF	292	238	123
VCU12MSLF	345	238	123
VCU17MSLF	438	238	123

RCD Incomer

List No	A	B	C
VCU2RCD	141	225	111
VCU5RCD	194	225	111
VCU8RCD	248	225	111
VCU11RCD	302	225	111
VCU14RCD	355	225	111
VCU19RCD	445	225	111

RCD Incomer

List No	A	B	C
VCU2MRCD	126	210	96
VCU5MRCD	188	238	123
VCU8MRCD	241	238	123
VCU11MRCD	292	238	123
VCU14MRCD	345	238	123
VCU19MRCD	438	238	123

Dual RCD

List No	A	B	C
VCU16	335	225	111
VCU17	445	225	111

Dual RCD

List No	A	B	C
VCU26	345	238	123
VCU27	438	238	123

High Integrity

List No	A	B	C
VCU31	355	225	111
VCU32	355	225	111
VCU33	445	225	111
VCU34	445	225	111
VCU35	445	225	111

High Integrity

List No	A	B	C
VCU41	345	238	123
VCU42	345	238	123
VCU43	438	238	123
VCU44	438	238	123
VCU45	438	238	123

TECHNICAL SPECIFICATIONS

CONSUMER UNIT

British Standard:	BSEN 60439-3
IP Rating:	IP2X
Busbar:	Flexible Comb
Cable Entries:	Top, Bottom, Left & Right sides, Back
Cover Fixing:	Quarter turn screws
Visor:	Solid colour; hinged
DIN Rail:	Full DIN Rail



MAIN SWITCH

British Standard:	BSEN 60947-3
Rating:	100A 240V 50Hz
Number of Modules:	2
Isolation:	Double Pole
Category of Duty:	AC22A-100A AC23A-63A
Terminal Capacity:	Min 1 x 6mm ² Max 1 x 50mm ²
Short Circuit resistance without upfront fuse:	7kA
Short Circuit resistance with upfront fuse:	16kA Mechanical service life >20000
Dimensions:	Height: 75mm Width: 36mm Depth: 90mm



TECHNICAL SPECIFICATIONS

RCDs

British Standard:	BSEN 61008 -1
Poles:	Double Pole
Rating:	25, 40, 63 and 80 Amp
Residual Current:	30mA
Number of Modules:	2 (36mm)
IP Rating:	IP2X
Terminal Capacity:	50mm ² Max
Nominal Voltage Un:	240V
Minimum Service Voltage:	117V
Nominal Current Im:	500A
Short Circuit capacity Inc:	10000A at 230/400V
Ambient Temperature:	-5°C up to 40°C
Dimensions:	Height: 90mm Width: 36mm Depth: 75mm



MCBs

British Standard:	BSEN 60898
Curve:	B (3-5 In)
Rating:	6, 10, 16, 20, 32, 40 & 50 Amp
Short Circuit Rating:	6kA
Electrical service life:	20000/10000
Number of Modules:	1 (16mm)
Terminal Capacity:	35mm ² Max
Dimensions:	Height: 86mm Width: 18mm Depth: 75mm



1 MODULE RCBOs

British Standard:	BSEN 61009
Poles:	1 Pole + Solid Neutral
Number of Modules:	1 (18mm)
Rating:	6, 10, 16, 20, 32 and 40 Amp
Short Circuit Rating:	6kA
Residual Current:	30mA
Electrical service life:	20000/10000
Minimum service Voltage:	100V
Curve:	C (5-10 In)
Connection Torque:	4,5 Nm
Terminal Capacity:	16-25mm ²
Dimensions:	Height: 136mm Width: 18mm Depth: 70mm



2 MODULE RCBOs

British Standard:	BSEN 61009
Poles:	Double Pole
Number of Modules:	2 (36mm)
Rating:	6, 10, 16, 20, 32 and 40 Amp
Short Circuit Rating:	6kA
Residual Current:	30mA
Electrical service life:	20000/10000
Minimum service Voltage:	100V
Curve:	C (5-10 In)
Connection Torque:	4,5 Nm
Terminal Capacity:	Top: 16-25mm ² Bottom: 25-35mm ²
Dimensions:	Height: 86mm Width: 36mm Depth: 72mm





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Although every effort has been made to ensure accuracy in the compilation of the technical detail within this publication, specifications and performance data are constantly changing. Latest details can be obtained from Volex.

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