Mains Distribution Guide

V33 - Q3 2026

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NEUTRIK
NEUTRIK
ZRN-F 213

Contents

e-Contents 4

Naming Convention 5

Styles 5

Single Phase Distros 6

Three Phase Distros 40

Hot Power Soca 104

Hybrid Dimmer-Distro 143

Reference Section

Mains Calculations 153

Cable Guide 155

Variable RCDs 158

e-Contents

When viewing this document on an electronic device, the links below will allow you to quickly jump to information about a specific unit.

Single Phase

111 1312
112 161
113 162
114 163
115 164
116 165
117 166
118 167
132 168
133 1610
134 1611
135 1121
136 1122
137
138
139
1310
1311

Three Phase

312 3313 3121
331 361 3122
332 362 3123
332a 364 3123a
332b 365 3123b
333 366 3124
333a 367 3126
334 367a 3129
334a 368 3P1
335 369 3P4
336 369a 3P6
336b 3610 3P6a
337 3612 3P7
337a 3613 3P7a
338 3614 3P8
338a 3615 3P9
339 3616
3312 3617

Hot Power Soca

HP18 HP42a
HP18a HP42d
HP18b HP48
HP18c HP72
HP18d HP72a
HP18e HP72b
HP18h HP72c
HP18i HP72e
HP36b HP72f
HP36c HP72g
HP36d
HP42

Dimmer-Distro

HPD24 HPD60

Naming convention

TSL distros are named in a manner that provides some information about the input and output capabilities of the unit. Each name consists of 3 (or occasionally 4) characters.













Input phasing

"1" - Single phase

"3" - Three phrase

Input type

"1" - 16A

"3" - 32A

"6" - 63A

"12" - 125A

"P" - Powerlock

Counter

Used simply to denote which variant of the product line

Styles

TSL distros are categorised into one of four styles:

1. **Rubber box:** A small, free-standing unit with a rubber based exterior and (often) a handle on top, suitable for outdoor use.
2. **HDPE:** A slightly larger unit constructed of hardwearing plastic with integrated side handles.
3. **Rack mount**: Suitable for mounting in standard sized 19-inch rack unit enclosures.
4. **Flightcase:** A complete unit, permanently installed into a single flight case; often the largest units in our range.

Single Phase


18H
tsl
SWL100Kg
18H
tsl
SWL100Kg
18H
tsl
SWL100Kg
Use with
MAX
650W
lamps
MAX

Type 111

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	16A / 1	1	-
Output:	13A / 1	14	16A C-type 30mA RCBO x1
Through:	16A / 1	1	-
Notes:	-		





Type 112

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	16A / 1	1	-
Output:	13A / 1	6	-
Through:	16A / 1	1	-
Notes:	-		



Type 113

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	16A / 1	1	-
Output:	16A / 1	4	-
Through:	-	-	-
Notes:	-		



Type 114

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	True1	1	-
Output:	13A / 1	8	-
Through:	True1	-	-
Notes:	-		



Type 115

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	True1	1	-
Output:	13A / 1	8	16A C-Type 30mA RCBO x1
Through:	True1	-	-
Notes:	-		





Type 116

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	16A/1	1	-
Output:	16A/1	1	16A C-Type 30mA RCBO x1
Through:	-	-	-
Notes:	-		



Type 117

Style: 2u Rack Mount

	Connection/Type	Quantity	Protection
Input:	16A/1	1	-
Output:	13A/1	5	-
Through:	16A/1	1	-
Notes:	1x 13A/1 on rear of unit Can be mounted in standard 19" Rack Case		



Type 118

Style: Cased

	Connection/Type	Quantity	Protection
Input:	16A/1	1	-
Output:	13A/1	8	-
Through:	16A/1	1	-
Notes:	Has indicator lights to show correct input configuration		



Type 132

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	32A / 1	1	-
Output:	16A / 1	8	16A C-type 30mA RCBO x8
Through:	-	-	-
Notes:	-		





Type 133

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	32A / 1	1	32A C-type 30mA RCBO
Output:	13A / 1	14	-
Through:	-	-	-
Notes:	-		





Type 134

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	32A / 1	1	32A C-type 30mA RCBO
Output:	16A / 1	6	16A C-Type MCB x6
Through:	-	-	-
Notes:	-		



Type 135

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	32A / 1	1	-
Output:	16A / 1	4	16A C-Type MCB x2
Through:	-	-	-
Notes:	-		



Type 136

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	32A / 1	1	-
Output:	16A / 1	4	16A C-Type MCB x4
Through:	-	-	-
Notes:	-		



Type 137

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	32A / 1	1	32A C-Type 30mA RCBO
Output:	16A / 1	4	16A C-Type MCB x4
Through:	-	-	-
Notes:	-		



Type 138

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	32A / 1	1	-
Output:	32A / 1	1	32A C-Type 30mA RCBO
Through:	-	-	-
Notes:	-		



Type 139

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	32A / 1	1	-
Output:	True1	8	16A B-Type 30mA RCBO x8
Through:	-	-	-
Notes:	-		



Type 1310

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	32A / 1	1	-
Output:	16A / 1	4	16A C-Type 30mA RCBO x4
Notes:	-		



Type 1311

Style: Rubber Box

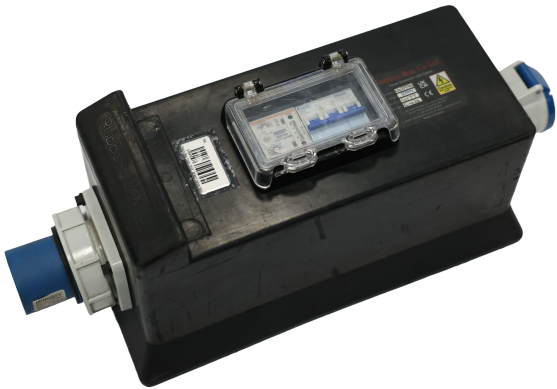
	Connection/Type	Quantity	Protection
Input:	32A / 1	1	-
Output:	32A / 1	1	16A B-Type 30mA RCBO
Notes:	-		



Type 1312

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	32A / 1	1	-
Output:	32A / 1	1	32A C-type MCB & Variable/ Switchable RCD
Notes:	-		



Type 161

Style: HDPE

	Connection/Type	Quantity	Protection
Input:	63A / 1	1	-
Output:	32A / 1	2	32A C-type 30mA RCBO x6
	16A / 1	6	16A C-type 30mA RCBO x6
Through:	63A / 1	1	-
Notes:	-		





Type 162

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	63A / 1	1	63A D-Type MCB & 30mA RCD
Output:	16A / 1	8	16A C-Type MCB x8
Through:	-	-	-
Notes:	-		



Type 163

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	63A / 1	1	63A C-Type MCB
Output:	63A / 1	1	63A C-Type 30mA RCBO x2
	32A / 1	2	32A C-Type 30mA RCBO x2
	16A / 1	4	16A C-Type 30mA RCBO x4
Through:	-	-	-
Notes:	-		





Type 164

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	63A / 1	1	63A C-Type MCB
Output:	Socapex	2 (Paired)	16A C-Type 30mA RCBO x6
Through:	-	-	-
Notes:	-		



Type 165

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	63A / 1	1	-
Output:	32A / 1	2	32A C-Type 30ma RCBO x2
Through:	-	-	-
Notes:	-		



Type 166

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	63A/1	1	63A C-Type MCB
Output:	32A/1	3	32A C-Type 30ma RCBO x3
	16A/1	6	16A C-Type 30ma RCBO x6
	Socapex	1	See Above-
Through:	63A/1	1	-
Notes:	The Socapex and 16A outputs are paired across this output		





Type 167

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	63A/1	1	-
Output:	63A/1	1	63A C-type MCB & Variable/ Switchable RCD
Through:	-	-	-
Notes:	-		



Type 168

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	63A/1	1	-
Output:	32A/1	2	16A B-Type MCB
Through:	-	-	-
Notes:	-		



Type 1610

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	63A/1	1	63A C-type MCB & 30mA RCD
Output:	32A/1	4	32A C-Type MCB
	16A/1	4	16A C-Type MCB
Through:	-	-	-
Notes:	-		



Type 1611

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	63A/1	1	
Output:	16A/1	6	16A C-Type 30mA RCBO
	13A/1	1	-
	Socapex	1	-
Through:	-	-	-
Notes:	The Socapex and 16A outputs are paired across this output		





Type 1121

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	125A / 1	1	-
Output:	63A / 1	2	63A C-type MCB x 2
Notes:	-		



Type 1122

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	125A / 1	1	-
Output:	125A / 1	1	125A C-type MCB & Variable/ Switchable RCD
Notes:	-		





Three Phase



Type 312

Style: HDPE

	Connection/Type	Quantity	Protection
Input:	16A / 3	1	-
Output:	16A / 3	1	100mA RCD
Notes:			



Type 331

Style: Rubber box / HDPE

	Connection/Type	Quantity	Protection
Input:	32A / 3	1	-
Output:	32A / 1	3	32A C-type 30mA RCBO x3
Through:	32A / 3	1	-
Notes:	1 outlet per phase, stickered on the individual sockets		



Type 332

Style: Rubber box / HDPE

	Connection/Type	Quantity	Protection
Input:	32A / 3	1	-
Output:	16A / 1	6	16A C-Type 30mA RCBO x6
Notes:	Sockets are phased L1, L2, L3 (x2) and stickered accordingly		



Type 332a

Style: Rubber box / HDPE

	Connection/Type	Quantity	Protection
Input:	32A / 3	1	30mA RCD
Output:	16A / 1	6	16a C-Type MCB x6
Notes:	Sockets are phased L1, L2, L3 (x2) and stickered accordingly		





Type 332b

Style: Rubber box / HDPE

	Connection/Type	Quantity	Protection
Input:	32A / 3	1	-
Output:	16A / 1	6	16A C-Type 30mA RCBO x6
Notes:	Sockets are phased L1, L2, L3 (x2) and stickered accordingly		





Type 333

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	32A / 3	1	-
Output:	32A / 1	3	32A C-type 30mA RCBO x3
Notes:	1 output per phase, stickered on breakers		



Type 333a

Style: Rubber box

	Connection/Type	**Quantity**	**Protection**
Input:	32A / 3	1	-
Output:	32A / 1	3	UnProtected-
Notes:	1 output per phase, stickered on outputs		



Type 334

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	32A / 3	1	-
Output:	16A / 1	6	16A C-type 30mA RCBO x6
Through:	32A / 3	1	-



Type 334a

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	32A / 3	1	-
Output:	True1	6	16A C-type 30mA RCBO x6
Through:	32A / 3	1	-





Type 335

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	32A / 3	1	32A C-Type MCB
Output:	16A / 1	6	16A C-Type 30mA RCBO x6
Through:	32A / 3	1	-



Type 336

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	32A / 3	1	-
Output:	16A / 3 (4 pin)	2	16A C-Type MCB
Notes:	Motor Distro		



Type 336b

Style: HDPE

	Connection/Type	Quantity	Protection
Input:	32A / 3	1	-
Output:	16A / 3 (4 pin)	4	tbc
Notes:	Motor Distro. Features phase indication LEDs and the ability to phase reverse by rotating/swapping pins in the input connector		





Type 337

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	32A / 3	1	-
Output:	16A / 3	2	16A C-type 30mA RCBO x2
Notes:			



Type 337a

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	32A / 3	1	-
Output:	16A / 3	2	16a C-Type MCB x2
Notes:			



Type 338

Style: HDPE

	Connection/Type	Quantity	Protection
Input:	32A / 3	1	-
Output:	32A / 3	1	32A C-type MCB & Variable/ Switchable RCD
Notes:	-		



Type 338a

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	32A / 3	1	-
Output:	32A / 3	1	32A C-Type 30mA RCBO
Notes:			



Type 339

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	32A / 3	1	-
Output:	True1	6	16A B-Type 30mA RCBO x6
Notes:	-		





Type 3312

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	32A / 3	1	32A C-Type MCB
Output:	16A/1	6	16A C-Type 30mA RCBO x6
	32A/1	3	32A C-Type 30mA RCBO x3
	32A/3	1	32A C-Type MCB
Notes:	This unit has an External Earthing Point		





Type 3313

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	32A / 3	1	-
Output:	16A/1	6	16A C-Type 30mA RCBO x6
	Socapex	1	-
Notes:	The Socapex and 16A outputs are paired across outputs 1>6.		



Type 361

Style: HDPE

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	-
Output:	63A / 1	3	C-Type MCB & Variable RCD x3
Through:	63A / 3	1	-
Notes:	1 outlet per phase		





Type 362

Style: HDPE

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	-
Output:	32A / 1	6	30mA 32A C-type RCBO
Notes:	2 outputs per phase, stickered accordingly on the sockets. This distro also features an earthing point		



Type 364

Style: HDPE

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	-
Output:	63A / 3	1	63A C-type MCB & Variable/ Switchable RCD



Type 365

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	-
Output:	63A / 3	1	30ma RCD



Type 366

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	-
Output:	63A / 3	2	63A C-Type MCB & 30mA RCD



Type 367

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	63A C-Type MCB
Output:	32A / 1	3	32A C-Type 30mA RCBO x3
	16A / 1	12	16A C-Type 30mA RCBO x12
Notes:	Phasing is stickered on sockets, with 1x 32A/1 and 4x 16A per phase		



Type 367a

Style: HDPE

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	63A C-Type MCB
Output:	32A / 1	3	32A C-Type 30mA RCBO x3
	True1	12	16A C-Type 30mA RCBO x12
Through:	63A/3		
Notes:	Phasing is stickered on sockets, with 1x 32A/1 and 4x True1 per phase Features an earthing point		

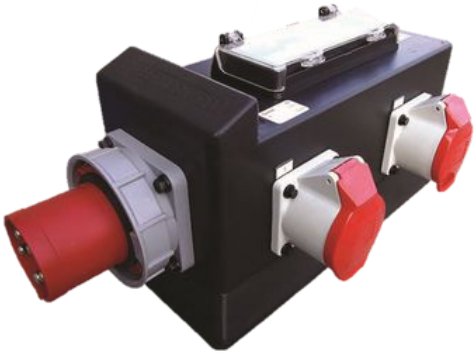




Type 368

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	-
Output:	32A / 3	2	32A C-Type 30mA RCBO x2



Type 369

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	-
Output:	63A / 1	3	30mA RCD x3 & 63A D-Type MCB x3



Type 369a

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	63A C-type MCB & Variable/ Switchable RCD
Output:	63A / 1	3	63A C-Type MCB x3



Type 3610

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	-
Output:	63A / 1	3	30mA RCD x3 & 63A C-Type MCB x3
Through:	63A / 3	1	-





Type 3612

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	
Output:	32A / 3	2	32A C-Type MCB x2
Notes:	Cable Input		



Type 3613

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	
Output:	32A / 3	3	32A C-Type MCB with 30mA RCD x3
Notes:	This Unit also has an external Earthing point		





Type 3614

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	*
Output:	16A/1	6	16A C-Type 30mA RCBO x6
	16A/1	6	16A B-Type 30mA RCBO x6
	32A/1	6	32A C-Type 30mA RCBO x6
	32A/3	2	32A C-type MCB & Variable/ Switchable RCD x2
Through	63A/3	1	-
Notes:	*100A switch disconnector (3P+N) for mains isolation. This unit also has an external Earthing point.		

Type 3614

Style: Rubber Box





Type 3615

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	63A C-Type MCB
Output:	16A/1	6	16A C-Type 30mA RCBO x6
	32A/1	3	32A C-Type 30mA RCBO x3
	32A/1	3	32A C-Type MCB x3
	63A/1	3	63A MCB & Variable RCD
	63A/3	1	63A C-type MCB
-	-	-	-
Notes:	This Unit also has an external Earthing point		

Type 3615

Style: Rubber Box





Type 3616

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	63A C-Type MCB
Output:	16A/1	12	16A C-Type 30mA RCBO x12
	32A/1	6	32A C-Type 30mA RCBO x3 32A C-Type MCB & variable RCD x3
	32A/3	1	32A C-Type MCB & variable RCD
Through	63A/3	1	-
Notes:	This Unit also has an external Earthing point		

Type 3616

Style: Rubber Box





Type 3617

Style: Rubber Box

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	
Output:	16A/1	6	16A C-Type 30mA RCBO x6
	32A/1	3	32A C-Type 30mA RCBO x3
	32A/3	2	32A D-Type MCB x2
Through	63A/3	1	-
Notes:	This Unit also has an external Earthing point		

Type 3617

Style: Rubber Box





Type 3121

Style: HDPE

	Connection/Type	Quantity	Protection
Input:	125A / 3	1	-
Output:	63A / 3	2	63A C-Type MCB & Variable/ Switchable RCD x2
	32A / 3	2	32A C-Type MCB & Variable/ Switchable RCD x2
Through:	125A / 3	1	-





Type 3122

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	125A / 3	1	-
Output:	125A / 3	1	125a C-Type MCB & Variable/ Switchable RCD



Type 3123

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	125A / 3	1	-
Output:	63A / 3	2	63A C-Type MCB & Variable/ Switchable RCD x2



Type 3123a

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	125A / 3	1	125a Switch disconnector for isolation
Output:	63A / 3	2	63A C-Type MCB & Variable/ Switchable RCD x2
Notes	Included external earthing point.		





Type 3123b

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	125A / 3	1	
Output:	63A / 3	2	63A C-Type MCB & Variable/ Switchable RCD x2
Notes	Includes external earthing point and power meter.		



Type 3124

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	125A / 3	1	125A C-Type MCB
Output:	16A/1	18	16A C-Type RCBO x18
	32A/1	6	32A C-Type RCBO x3
	32A/3	1	32A C-Type MCB
	63A/3	1	63A C-Type MCB
	Socapex	3	*
Notes	*The Socapex and 16A outputs are paired across outputs 1>18. Phasing is 3 Phase per socapex and is indicated by stickers on the outlets. This unit also has an external earthing point.		

Type 3124

Style: Rubber box





Type 3126

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	125A / 3	1	125A C-Type MCB
Output:	16A/1	18	16A C-Type RCBO x18
	32A/1	12	32A C-Type RCBO x6 32A C-Type MCB & Variable/ Switchable RCD x6
	32A/3	1	32A C-Type MCB & Variable/ Switchable RCD
	63A/3	1	63A C-Type MCB & Variable/ Switchable RCD
Through	125A / 3	1	-
Notes	This unit has an external earthing point.		

Type 3126

Style: Rubber box





Type 3129

Style: Flight Cased

	Connection/Type	Quantity	Protection
Input:	125A / 3	1	125A C-type MCCB & Variable RCD
Output:	63A/1	1	63A B-Type MCB
	16A/1	1	16A B-Type MCB
	13A/3	1	16A B-Type MCB
	63A/3	3	63A B-Type MCB x3
	32A/3	1	32A C-Type MCB
Notes	This unit has an external earthing point		





Type 3P1

Style: HDPE

	Connection/Type	Quantity	Protection
Input:	Powerlock	1	-
Output:	125A / 3	2	C-Type MCB & variable RCD x2
	63A / 3	1	C-Type MCB & variable RCD x1
	32A / 3	2	C-Type MCB & variable RCD x2
Through:	Powerlock	1	-





Type 3P4

Style: Flightcase

	Connection/ Type	Quantity	Protection
Input:	Powerlock	1	Variable MCCB
Output:	Powerlock	2	200A Variable MCCB with adjustable and switchable Earth Leakage x2
	Powerlock	1	400A Variable MCCB with adjustable and switchable Earth Leakage x1
	63A / 3	3	63A C-Type MCB & Variable/ Switchable RCD x3
	32A / 1	1	32A C-Type 30mA DP RCBO
	16A / 1	1	16A C-Type 30mA DP RCBO
	13A	1	13A C-Type 30mA DP RCBO
Notes:	Phasing: 13A L1, 16A L2, 32A L3 Also Features 2x USB Sockets for Charging		

Type 3P4


LED
USB
1
2
3
4
5
6
7
8
9
RCD
RCD
RCD
7
8
9
MAINS
tsl
TYPE - 3P4


USB
63A 6
63A 8
63A 9
200A MCCB 7
200A MCCB 8
400A MCCB 9
400A MAIN MCCB

Type 3P6

Style: Flightcase

	Connection/Type	Quantity	Protection
Input:	Powerlock	1	Variable MCCB
Output:	Powerlock	2	250A Variable MCCB with adjustable and switchable Earth Leakage x2
	Powerlock	1	400A Variable MCCB with adjustable and switchable Earth Leakage x1
	32A / 3	1	32A/3 MCB 30mA RCBO
Notes:	Utility Power 1x 32A/1, 1, 13A/1 and 1x True1, all protected with a 30mA RCBO per outlet		

Type 3P6


250A-1 ELR
250A-2 ELR
400A ELR
250A POWERLOCK 1
250A POWERLOCK 2
400A POWERLOCK
MAINS
tsl
3P6


13A
TRUE1
32A/1
32A/3
250A POWERLOCK 1
250A POWERLOCK 2
400A POWERLOCK

Type 3P6a

Style: Flightcase

	Connection/Type	Quantity	Protection
Input:	Powerlock	1	Variable MCCB
Output:	Powerlock	2	200A Variable MCCB with adjustable and switchable Earth Leakage x2
	Powerlock	1	400A Variable MCCB with adjustable and switchable Earth Leakage x1
	32A / 3	1	32A/3 MCB 30mA RCBO
Notes:	Utility Power 1x 32A/1, 1x 16A/1 and 1x 13A/1, all protected with a 30mA RCBO per outlet		

Type 3P6a





Type 3P7

Style: Flightcase

	Connection/Type	Quantity	Protection
Input:	Powerlock	1	-
Output:	Powerlock	2	400A MCCB with overall variable/ switchable RCD
Through:	Powerlock	1	-





Type 3P7a

Style: Flightcase

	Connection/Type	Quantity	Protection
Input:	Powerlock	1	-
Output:	Powerlock	2	400A MCCB with Variable/ Switchable RCD
Through:	Powerlock	1	-
Notes	This unit has a External earthing point and is fitted with a Mains Monitoring Protection System (MMPS).		



Type 3P8

Style: HDPE

	Connection/Type	Quantity	Protection
Input:	Powerlock	1	-
Output:	32A / 3	12	C-Type MCB & Variable RCD Per outlet
	63A / 3	1	C-Type MCB & Variable RCD Per outlet
Through:	Powerlock	1	-





Type 3P9

Style: HDPE

	Connection/Type	Quantity	Protection
Input:	Powerlock	1	400A MCCB & Variable/Switchable RCD
Output:	16A/1	6	16A C-Type 30mA RCBO x6
	32A/1	6	32A C-Type MCB & Variable RCD Per outlet
	32A/3	3	32A C-Type MCB & Variable RCD Per outlet
	63A/3	3	63A C-Type MCB & Variable RCD Per outlet
	125A/3	4	125A C-Type MCB & Variable RCD Per outlet
Through:	Powerlock	1	-

Type 3P9

Style: HDPE





Hot Power Soca


SGM
G-Spot

Type HP18

Style: Rackmount

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	-
Output:	Socapex	3	30mA 16A C-type RCBO
	True1	1	30mA 16A C-type RCBO x1
Through:	63A / 3	1	-
Notes:	Phasing: 1 Socapex per phase Labelled L1,L2,L3		





Type HP18a

Style: HDPE

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	-
Output:	Socapex	3	30mA 16A C-type RCBO
	True1	18	30mA 16A C-type RCBO x18
Through:	63A / 3	1	-
Notes:	Phasing: 1 Socapex per phase Labelled L1,L2,L3 Built in metering		





Type HP18b

Style: HDPE

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	63A/3 MCB
Output:	Socapex	3	16A C-Type 30mA RCBO x18
Through:	63A / 3	1	63A MCB
Notes:	This unit features an earthing point and has 1 Socapex per phase		



Type HP18c

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	63A/3 C-Type MCB & Variable RCD
Output:	Socapex	3	16A C-Type 30mA RCBO x 18
	16A / 1	18	
Through:	63A / 3	1	-
Notes:	The Socapex and 16A outputs are paired across this output. Phasing, of 1 Socapex and 6x 16A/1 per phase, is indicated by stickers on the outlets		





Type HP18d

Style: Rackmount

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	-
Output:	Socapex	3	30mA RCD per Socapex & C-Type MCB x18
Through:	63A / 3	1	-
Notes:	1 phase per Socapex, labelled and additional 16A and 13A utility power protected by an overall C-Type MCB		





Type HP18e

Style: HDPE

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	63A/3 C-Type MCB & Variable RCD
Output:	Socapex	3	30mA 16A C-type RCBO
	True1	18	30mA 16A C-type RCBO x18
Through:	63A / 3	1	-
Notes:	Phasing: 1 Socapex per phase Labelled L1,L2,L3 Socapex and True1 outputs are paired		





Type HP18h

Style: HDPE

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	-
Output:	Socapex	3	30mA 16A C-type RCBO x18
	16A/1	3	30mA 16A C-type RCBO x3
	32A/3	1	32A C-Type 30mA RCBO x1
Through:	63A / 3	1	-
Notes:	1 Socapex per phase Labelled L1,L2,L3 This unit has an external earthing point		





Type HP18i

Style: HDPE

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	63A/3 C-Type MCB
Output:	Socapex	3	16A C-type 30mA RCBO x18
Notes:	3 Phase Per Socapex This unit has an external earthing point		





Type HP36b

Style: Flightcase

	Connection/Type	Quantity	Protection
Input:	Powerlock	1	-
Output:	Socapex	6	16A C-Type 30mA RCBO x36
	16A / 1	1	16A C-Type 30mA RCBO x6
	63A / 3	1	63A MCB
Notes:	Utility power 1x 63A/3 and 1x 16A/1 protected with 63A/3 MCB and 16A RCBO respectively Phasing 2 Socapex per phase, labelled on outputs		





Type HP36c

Style: Flightcase

	Connection/Type	Quantity	Protection
Input:	Powerlock	1	400A MCCB
Output:	Socapex	6	C-Type 30mA RCBO x36
Through:	Powerlock	1	-
Notes:	Utility power 1x 63A/3 with Variable Earth Leakage MCB and 1x 16A/1 with 30mA RCBO Phasing This unit has 2 Socapex per phase, labelled on the outlets		





Type HP36d

Style: Flightcase

	Connection/Type	Quantity	Protection
Input:	Powerlock	1	400A MCCB
Output:	Socapex	6	C-Type 30mA RCBO x36
Through:	Powerlock	1	-
Notes:	Utility power 1x 63A/3 with Variable Earth Leakage MCB Phasing This unit has 2 Socapex per phase, labelled on the outlets		





Type HP42

Style: Flightcase

	Connection/Type	Quantity	Protection
Input:	Powerlock	1	400A MCCB
Output:	Socapex	7	16a C-Type | 30ma RCBO x42
	True1	6	16a C-Type | 30ma RCBO x6 | Paired with soca 7
	16A / 1	1	16a C-Type | 30ma RCBO x1
	32A / 3	1	32A D-Type MCB | Variable/Switchable RCD
	63A / 3	1	63A C-Type MCB | Variable/Switchable RCD
Through:	Powerlock	1	200A MCCB | Variable/Switchable RCD
Notes:	Phasing L1: 6x True1 & 1x 16A labelled 1-7, Socapex 1 & 4 L2: Socapex 2 & 5 L3: Socapex 3 & 6 Also Features 2x USB Sockets for Charging & LED Tape for Illumination		

Type HP42


SOCA 7 - TRUE1 / L1
SOCA 1 / L1
SOCA 2 / L2
SOCA 3 / L3
SOCA 4 / L1
SOCA 5 / L2
SOCA 6 / L3
32
63


32A
63A
1 2 3 4 5 6 7
32A RCD 63A RCD P/L RCD N/P
USB
LED
SOCA 1 / L1
SOCA 2 / L2
SOCA 3 / L3
SOCA 4 / L1
SOCA 5 / L2
SOCA 6 / L3
MAINS
PL - OUTPUT
tsl
TYPE - 342

Type HP42a

Style: Flightcase

	Connection/Type	Quantity	Protection
Input:	Powerlock	1	-
Output:	Socapex	7	30mA 16A C-type RCBO
Through:	Powerlock	1	-
Notes:	Utility Power 1x 32A/3, 6x 16A/1 and 1x13A/1 This unit is wired with 2 Socapex per phase. The utility Socapex and single phase utility outputs are also on L1		





Type HP42d

Style: Flightcase

	Connection/Type	Quantity	Protection
Input:	Powerlock	1	250A MCCB with Variable ELR
Output:	Socapex	6	16A C-Type 30mA RCBO x36
	16A/1	6	16A C-Type 30mA RCBO x6
	32A/3	1	32A C-Type MCB with Variable ELR
	63A/3	1	63A C-Type MCB with Variable ELR
Through:	Powerlock	1	-
Notes:	This unit has an external earthing point Phasing This unit is 3 Phase per Socapex outlet		

Type HP42d

Style: Flightcase





Type HP48

Style: Flightcase

	Connection/Type	Quantity	Protection
Input:	Powerlock	1	400A MCCB
Output:	Socapex	8	16A C-Type 30mA RCBO
	16A/1	6	16A C-Type 30mA RCBO
	32A/3	2	32A C-Type MCB
Through:	Powerlock	1	-
Notes:	This unit is wired as 3 Phase per soca and is Labeled accordingly There is an external earthing point on this unit		

Type HP48

Style: Flightcase






SOCAPEX FAN IN ONLY

Type HP72

Style: Flightcase

	Connection/Type	Quantity	Protection
Input:	Powerlock	1	400A MCCB
Output:	Socapex	12	16A C-Type 30mA RCBO x72
	True1	6	16A C-Type 30mA RCBO x6
	32A / 3	1	32A D-Type MCB with variable ELR
	63A / 3	1	63A C-Type MCB with variable ELR
Through:	Powerlock	1	250A MCCB with variable ELR
Notes:	This unit features an Earthing point is wired with 1 Socapex per phase (x4) Also Features 2x USB Sockets for Charging & LED Tape for Illumination		

Type HP72


32A 63A 1 2 3 4 5 6 7 8
32A RCD 63A RCD P/L RCD N/P
SOCA 1 / L1
SOCA 2 / L2
SOCA 3 / L3
SOCA 4 / L1
SOCA 5 / L2
SOCA 6 / L3
SOCA 7 / L1
SOCA 8 / L2
SOCA 9 / L3
SOCA 10 / L1
SOCA 11 / L2
SOCA 12 / L3
PL - OUTPUT
MAINS
tsl
TYPE - 372


SOCA 1 / L1
SOCA 2 / L2
SOCA 3 / L3
SOCA 4 / L1
SOCA 5 / L2
SOCA 6 / L3
SOCA 7 / L1
SOCA 8 / L2
SOCA 9 / L3
SOCA 10 / L1
SOCA 11 / L2
SOCA 12 / L3

Type HP72a

Style: Flightcase

	Connection/Type	Quantity	Protection
Input:	Powerlock	1	400A MCCB with variable ELR
Output:	Socapex	12	16A C-Type 30mA RCBO x72
	True1	6	16A C-Type 30mA RCBO x6
	32A / 3	1	32A C-Type MCB
	63A / 3	1	63A C-Type RCD with variable ELR
Through:	Powerlock	1	250A MCCB
Notes:	This unit features an Earthing point is wired with 1 Socapex per phase (x4) Also Features 2x USB Sockets for Charging & LED Tape for Illumination		

Type HP72a


SOCA 1 - L1
SOCA 2 - L2
SOCA 3 - L3
SOCA 4 - L1
SOCA 5 - L2
SOCA 6 - L3
SOCA 7 - L1
SOCA 8 - L2
SOCA 9 - L3
SOCA 10 - L1
SOCA 11 - L2
SOCA 12 - L3
TRUE 1
32A/3
63A/3
250A POWERLOCK
MAINS
tsl
HP72a


SOCAPEX 1
SOCAPEX 2
SOCAPEX 3
SOCAPEX 4
SOCAPEX 5
SOCAPEX 6
SOCAPEX 7
SOCAPEX 8
SOCAPEX 9
SOCAPEX 10
SOCAPEX 11
SOCAPEX 12
tsl
HP72a
32A/3
63A/3

Type HP72b

Style: Flightcase

	Connection/Type	Quantity	Protection
Input:	Powerlock	1	400A MCCB with variable ELR
Output:	Socapex	12	16A C-Type 30mA RCBO x72
	16a /1	6	16A C-Type 30mA RCBO x6
	32A / 3	1	32A C-Type MCB
	63A / 3	1	63A C-Type MCB
Through:	Powerlock	1	-
Notes:	This unit features an Earthing point is wired with 1 Socapex per phase (x4) Also Features 2x USB Sockets for Charging & LED Tape for Illumination		

Type HP72b


SOCAPEX 1
SOCAPEX 2
SOCAPEX 3
SOCAPEX 4
SOCAPEX 5
SOCAPEX 6
SOCAPEX 7
SOCAPEX 8
SOCAPEX 9
SOCAPEX 10
SOCAPEX 11
SOCAPEX 12
tsl
TYPE 372


RCD
SOCA 1
SOCA 2
SOCA 3
SOCA 4
SOCA 5
SOCA 6
SOCA 7
SOCA 8
SOCA 9
SOCA 10
SOCA 11
SOCA 12
16A/1
32A/3
63A/3
MAINS
tsl
TYPE 372

Type HP72c

Style: Flightcase

	Connection/ Type	Quantity	Protection
Input:	Powerlock	1	-
Output:	Socapex	12	16A C-Type 30mA RCBO x72
	16A / 1	7	16A C-Type 30mA RCBO x7
	Schuko	1	16A C-Type 30mA RCBO x1
	13A	1	13A C-Type 30mA RCBO x1
	63A / 3	1	63a C-Type MCB & Variable ELR
	32A / 3	1	32a C-Type MCB & Variable ELR
Through:	Powerlock	1	-
Notes:	Phasing: L1: Outputs: 1,4,9 (All 16a) L2: Outputs: 2 (Schuko), 5 (16a), 8 (16a) L3: Outputs, 3 (13a), 6 (16a), 9 (16a) Socapex outputs 4 per phase Also Features 2x USB Sockets for Charging & LED Tape for Illumination		

Type HP72c





Type HP72e

Style: Flightcase

	Connection/Type	Quantity	Protection
Input:	Powerlock	1	400A MCCB with variable ELR
Output:	Socapex	12	16A C-Type 30mA RCBO x72
	True1	6	16A C-Type 30mA RCBO x6
	32A / 3	1	32A C-Type MCB
	63A / 3	1	63A C-Type MCB with variable ELR
Through:	Powerlock	1	250A MCCB
Notes:	This unit features an Earthing point is wired with 1 Socapex per phase (x4) Also Features 2x USB Sockets and "smart", real-time metering of voltage & current for each circuit on the unit		

Type HP72e


SOCA 1 - L1
SOCA 2 - L2
SOCA 3 - L3
SOCA 4 - L1
SOCA 5 - L2
SOCA 6 - L3
SOCA 7 - L1
SOCA 8 - L2
SOCA 9 - L3
SOCA 10 - L1
SOCA 11 - L2
SOCA 12 - L3
TRUE 1
32A/3
63A/3
250A POWERLOCK
MAINS
tsl
HP72e


SOCAPEX 1
SOCAPEX 2
SOCAPEX 3
SOCAPEX 4
SOCAPEX 5
SOCAPEX 6
SOCAPEX 7
SOCAPEX 8
SOCAPEX 9
SOCAPEX 10
SOCAPEX 11
SOCAPEX 12
tsl
HP72e
32A/3
63A/3

Type HP72f

Style: Flightcase

	Connection/Type	Quantity	Protection
Input:	Powerlock	1	400A MCCB with Variable ELR
Output:	Socapex	12	16A C-Type 30mA RCBO x16
	16A/1	6	16A C-Type 30mA RCBO x6
	32A/3	1	32A C-Type MCB with variable ELR
	63A/3	1	63A C-Type MCB with variable ELR
	Front Connectors 13A/1, 16A/1, Shuko	1	16A C-Type 30mA RCBO x3
Through:	Powerlock	1	-
Notes:	This unit has a External earthing point and is fitted with a Mains Monitoring Protection System (MMPS). This unit has 3 Phases per Socapex		

Type HP72f

Style: Flightcase





Type HP72g

Style: Flightcase

	Connection/Type	Quantity	Protection
Input:	Powerlock	1	400A MCCB + Variable ELR
Output:	Socapex	12	16A C-Type 30mA RCBO x72
	16A/1	6	16A C-Type 30mA RCBO x6
	32A/3	1	32A C-Type MCB with variable ELR n
	63A/3	1	63A C-Type MCB with variable ELR
Through:	Powerlock	1	-
Notes:	This unit has an external earthing point Phasing This unit is 3 Phases per Socapex		

Type HP72g

Style: Flightcase





Hybrid Dimmer-Distro



Type HPD24

Style: Flightcase

	Connection/Type	Quantity	Protection
Input:	Powerlock	1	125A/3 C-Type MCB
Output:	Socapex	8 (24 channels Paired)	Each Dimmer: 63A/3 C-Type MCB Each End Circuits: 16A C-Type 30mA RCBO
	16A / 1	1	16A C-Type 30mA RCBO

Type HPD24

Style: Flightcase

	Connection/Type	Quantity	Protection
	32A / 1	1	32A C-Type 30mA RCBO
	32A / 3	1	32A C-Type 30mA RCBO
Through:			
Notes:	Phasing is marked on the dimmers and goes incrementally i.e.. Ch 1 = L1, Ch 2 = L2, Ch 3 = L3, Ch 4 = L1 The Socapex outputs are paired and the unit has an Earthing point. **This unit has the ability for any channel to be hot or dimmed.** Also Features 2x USB Sockets for Charging Aux 32a/1 wired to L1		

Type HPD24





Type HPD60

Style: Flightcase

	Connection/Type	Quantity	Protection
Input:	Powerlock	1	Switched
Output:	Socapex	16	Patchable
	16A / 1	4	
	16A / 1	1	16A C-Type 30mA RCBO
	32A / 1	1	32A C-Type 30mA RCBO
	32A / 3	1	32A C-Type 30mA RCBO

Type HPD60

Style: Flightcase

	Connection/Type	Quantity	Protection
Patchable Dimmers	12 Channels Each	4	Each Dimmer: 63A/3 C-Type MCB Each End Circuits: 16A C-Type= 30mA RCBO
Patcable Hot		12	16A C-Type 30mA RCBO
Through:	Powerlock	1	Switched, with variable RCD
Notes:	This unit features an Earthing point and **has the ability for any channel to be hot or dimmed** with the Socapex and 4x 16A/1 outputs. Phasing is marked on the dimmers and goes incrementally i.e.. Ch 1 = L1, Ch 2 = L2, Ch 3 = L3, Ch 4 = L1 Patchable hot power is 4x L1 followed by 4x L2 and 4x L3		

Type HPD60


SOCA A
SOCA B
SOCA C
SOCA D
SOCA E
SOCA F
SOCA G
SOCA H
SOCA I
SOCA J
SOCA K
SOCA L
SOCA M
SOCA N
SOCA O
SOCA P


tsl
TYPE 380
MAINS
POWER DOCK
AUX

Reference Section

Martin
Performance

Mains Calculations

All calculations are for guidance only and should be used in conjunction with BS7909 guidelines.

Watts to Amps (at 230V)				
Watts	Amps		Watts	Amps
5	0.02		50	0.22
10	0.04		100	0.43
15	0.07		500	2.17
20	0.09		1000	4.35
25	0.11		2000	8.70

Mains Calculations

All calculations are for guidance only and should be used in conjunction with BS7909 guidelines.

Amps to Watts (at 230V)	
Amps	Watts
13	2990
16	3680
32	7360
63	14,490
125	28,750

Generator KVA Ratings (at 400V, 3-Phase, 50Hz and 0.8 power factor)		
kVA	kW	Amps
100	80	144
150	120	217
200	160	289
300	240	433
400	320	577

Cable Guide

All calculations are for guidance only and should be used in conjunction with BS7909 guidelines.

Mains Cable ratings – H07RN-F (based on max Amps in free air)	
Conductor cross-sectional area (mm^2)	Amps
25	142
35	162
50	198
70	256
95	314
120	365
150	422

Cable colour coding		
1m	Brown	
2m	Blue	
3m	White	
5m	Green	
10m	Yellow	
15m	Yellow	Green
20m	Red	
25m	Red	Green
30m	Red	Yellow
40m	Grey	
50m	Grey	Yellow
60m	Grey	Red

Cable Guide

All calculations are for guidance only and should be used in conjunction with BS7909 guidelines.

Connectors	
	16A, 32A or 63A single phase (size dependent)
	16A 4-pin Motor cable (power)
	16A 4-pin Motor cable (signal)
	32A, 63A or 125A 3-phase (size dependent)
	Powerlock (in and out)
	Socapex (in and out)

Cable Guide

All calculations are for guidance only and should be used in conjunction with BS7909 guidelines.

Connectors	
	Socapex (in and out)
	Powercon (in and out)
	True1 (in and out)

Variable RCDs

All standard variable RCDs will be set with the following settings. These devices are often show critical and should be checked by a suitable competent person(s) prior to energising

Selec 900ELR		
		Rating of circuit
		125A, 400A & Higher
RL1	RNG	550mA
	SV	300mA
	INS	OFF
	MOD	OFF
	LCH	OFF

Variable RCDs

All standard variable RCDs will be set with the following settings. These devices are often show critical and should be checked by a suitable competent person(s) prior to energising

Selec 900ELR			
TM1	TRP	0.1s	0.3s
	REC	0.1s	0.3s
	P.ON	0.5s	0.5s
Default Password: 753			

Variable RCDs

All standard variable RCDs will be set with the following settings. These devices are often show critical and should be checked by a suitable competent person(s) prior to energising

Hobut RCR-V30/SES ELR600-2			
	Rating of circuit		
	32A	63A	125A, 400A & Higher
Trip Current	100mA	100mA	300mA
Time Delay	150mS	150mS	250mS

