



Size 1

METER CABLEWAYS

Description	Meter				List No
	Knockouts	250	400	800	
Size 1	4	6w	-	-	17VM1MCW
Size 2	6	12w	6w	-	17VM2MCW
Size 3	7	18w	12w	4w	17VM3MCW
Size 4	9	-	18w	8w	17VM4MCW
Size 5	10	-	-	12w	17VM5MCW



Size 2

EARTH LEAKAGE CABLEWAYS

Description	Earth Leakage				List No
	Cut Outs	250	400	800	
Size 1	3	6w	-	-	17VM1ECW
Size 2	4	12w	6w	-	17VM2ECW
Size 3	5	18w	12w	4w	17VM3ECW
Size 4	6	-	18w	8w	17VM4ECW
Size 5	7	-	-	12w	17VM5ECW

POWERSTAR VM160 ENCLOSURES - SELECTION TABLE

Description	250A Panel Board	400A Panel Board	800A Panel Board	Notes
TPN PANEL BOARDS				
6-Way TPN Panelboard	17VM32506	17VM34006	-	Form 3b Type 2
12-Way TPN Panelboard	17VM32512	17VM34012	-	Form 3b Type 2
18-Way TPN Panelboard	17VM32518	17VM34018	-	Form 3b Type 2
4 Pole Panel Boards				
4-Way 4 Pole Panelboard	-	-	17VM48004	Form 4b Type 6 GM
8-Way 4 Pole Panelboard	-	-	17VM48008	Form 4b Type 6 GM
12-Way 4 Pole Panelboard	-	-	17VM48012	Form 4b Type 6 GM
INCOMING KITS - 250A				
Incoming Copper Interconnections 250A TP	17VL3250CK	-	-	(1) Interconnections (+)
Incoming Device 250A TP SW DIS	17VL3250SW	-	-	(2) Device
Incoming Copper Interconnections 250A 4P	17VL4250CK	-	-	(1) Interconnections (+)
Incoming Device 250A 4P SW DIS	17VL4250SW	-	-	(2) Device
Incoming Copper Interconnections 250A TP	17VL3250CK	-	-	(1) Interconnections (+)
Incoming Device 250A 3P MCCB	17VL3250MCCB	-	-	(2) Device
Incoming Copper Interconnections 250A 4P	17VL4250CK	-	-	(1) Interconnections (+)
Incoming Device 250A 4P MCCB	17VL4250MCCB	-	-	(2) Device
250A Direct Connection Kit	17VL4250DC	-	-	(1) Interconnections Only
INCOMING KITS - 400A				
Incoming Copper Interconnections 400A TP	-	17VL3400CK	17VL83400CK	(1) Interconnections (+)
Incoming Device 400A TP SW DIS	-	17VL3400SW	17VL3400SW	(2) Device
Incoming Copper Interconnections 400A 4P	-	17VL4400CK	17VL84400CK	(1) Interconnections (+)
Incoming Device 400A 4P SW DIS	-	17VL4400SW	17VL4400SW	(2) Device
Incoming Copper Interconnections 400A TP	-	17VL3400CK	17VL83400CK	(1) Interconnections (+)
Incoming Device 400A 3P MCCB	-	17VL3400MCCB	17VL3400MCCB	(2) Device
Incoming Copper Interconnections 400A 4P	-	17VL4400CK	17VL84400CK	(1) Interconnections (+)
Incoming Device 400A 4P MCCB	-	17VL4400MCCB	17VL4400MCCB	(2) Device
400A Direct Connection Kit	-	17VL4400DC	17VL8400DC	(1) Interconnections Only
INCOMING KITS - 630A				
Incoming Copper Interconnections 630A TP	-	-	17VL83630CK	(1) Interconnections (+)
Incoming Device 630A TP SW DIS	-	-	17VL3630SW	(2) Device
Incoming Copper Interconnections 630A 4P	-	-	17VL84630CK	(1) Interconnections (+)
Incoming Device 630A 4P SW DIS	-	-	17VL4630SW	(2) Device
Incoming Copper Interconnections 630A TP	-	-	17VL83630CK	(1) Interconnections (+)
Incoming Device 630A 3P MCCB	-	-	17VL3630MCCB	(2) Device
Incoming Copper Interconnections 630A 4P	-	-	17VL84630CK	(1) Interconnections (+)
Incoming Device 630A 4P MCCB	-	-	17VL4630MCCB	(2) Device
630A Direct Connection Kit	-	-	17VL8630DC	(1) Interconnections Only
INCOMING KITS - 800A				
Incoming Copper Interconnections 800A TP	-	-	17VL3800CK	(1) Interconnections (+)
Incoming Device 800A TP SW DIS	-	-	17VL3800SW	(2) Device
Incoming Copper Interconnections 800A 4P	-	-	17VL4800CK	(1) Interconnections (+)
Incoming Device 800A 4P SW DIS	-	-	17VL4800SW	(2) Device
Incoming Copper Interconnections 800A TP	-	-	17VL3800CK	(1) Interconnections (+)
Incoming Device 800A 3P MCCB	-	-	17VL3800MCCB	(2) Device
Incoming Copper Interconnections 800A 4P	-	-	17VL4800CK	(1) Interconnections (+)
Incoming Device 800A 4P MCCB	-	-	17VL4800MCCB	(2) Device
800A Direct Connection Kit	-	-	17VL800DC	(1) Interconnections Only
TERMINAL EXTENSIONS FOR INCOMER DEVICES - TP INCOMERS				
TP Front Connecting Bars	17VL9300-4ED30	17VL9400-4ED30	17VL9600-4ED30	-
TP Box Terminals	17VL9300-4TC30	17VL9400-4TC30	-	-
TP Circular Conductor Terminals	17VL9300-4TD30	17VL9400-4TD30	-	-
TP Multiple Feed In Terminal	-	17VL9460-4TF30	17VL9600-4TG30	-
TP Screw Connection Terminals	17VL9300-4TA30	17VL9300-4TA30	17VL9600-4TA30	-
TERMINAL EXTENSIONS FOR INCOMER DEVICES - 4P INCOMERS				
4P Front Connecting Bars	17VL9300-4ED40	17VL9400-4ED40	17VL9600-4ED40	-
4P Box Terminals	17VL9300-4TC40	17VL9400-4TC40	-	-
4P Circular Conductor Terminals	17VL9300-4TD40	17VL9400-4TD40	-	-
4P Multiple Feed In Terminal	-	17VL9460-4TF40	17VL9600-4TG40	-
4P Screw Connection Terminals	17VL9300-4TA40	17VL9400-4TA40	17VL9600-4TA40	-
METER CABLEWAYS				
Size 1: Four Meter Knock-Out Cableway	17VM1MCW	-	-	250A 6W
Size 2: Six Meter Knock-Out Cableway	17VM2MCW	17VM2MCW	-	250A 12W or 400A 6W
Size 3: Seven Meter Knock-Out Cableway	17VM3MCW	17VM3MCW	17VM3MCW	250A 18W or 400A 12W or 800A 4W
Size 4: Nine Meter Knock-Out Cableway	-	17VM4MCW	17VM4MCW	400A 18W or 800A 8W
Size 5: Ten Meter Knock-Out Cableway	-	-	17VM5MCW	800A 12W
Corner Unit	17VMCU	17VMCU	17VMCU	2 x Required For Any Add-On Enclosure

POWERSTAR VM160 ENCLOSURES - SELECTION TABLE

Description	250A Panel Board	400A Panel Board	800A Panel Board	Notes
EARTH LEAKAGE CABLEWAYS				
Size 1: Three E/L Cut-Out Cableway	17VM1ECW	-	-	250A 6W
Size 2: Four E/L Cut-Out Cableway	17VM2ECW	17VM2ECW	-	250A 12W or 400A 6W
Size 3: Five E/L Cut-Out Cableway	17VM3ECW	17VM3ECW	17VM3ECW	250A 18W or 400A 12W or 800A 4W
Size 4: Six E/L Cut-Out Cableway	-	17VM4ECW	17VM4ECW	400A 18W or 800A 8W
Size 5: Seven E/L Cut-Out Cableway	-	-	17VM5ECW	800A 12W
ADD-ON ENCLOSURES				
Add-on 2 x 250A TP Outgoing MCCBs (3P)	-	17VM3P2502	-	400A Board Only
Add-on 2 x 250A 4P Outgoing MCCBs (4P)	-	-	17VM4P2502	800A Board Only
Add-on Control Module Enclosure - 24 mod	17VM24CME	17VM24CME	17VM24CME	-
Add-on SPN Distribution Board - 19 mod	17VMSPNDB	17VMSPNDB	17VMSPNDB	-
Add-on TPN Distribution Board - 19 mod	17VMTPNDB	17VMTPNDB	17VMTPNDB	-
Add-on Cable Spreader Box	17VM1CSB	17VM1CSB	17VM1CSB	-
INCOMING METERING - STANDARD				
250A 3-Phase Meter Kit - Std	17VM250IMKSTD	-	-	-
400A 3-Phase Meter Kit - Std	-	17VM400IMKSTD	17VM8400IMKSTD	-
630A 3-Phase Meter Kit - Std	-	-	17VM8630IMKSTD	-
800A 3-Phase Meter Kit - Std	-	-	17VM8800IMKSTD	-
INCOMING METERING - MID				
250A 3-Phase Meter Kit - MID	17VM250IMKMID	-	-	-
400A 3-Phase Meter Kit - MID	-	17VM400IMKMID	17VM8400IMKMID	-
630A 3-Phase Meter Kit - MID	-	-	17VM8630IMKMID	-
800A 3-Phase Meter Kit - MID	-	-	17VM8800IMKMID	-
OUTGOING CIRCUITS METERING - STANDARD				
160A Meter Kit - Std	17VM160MKSTD	17VM160MKSTD	17VM160MKSTD	-
250A Meter Kit - Std	-	17VM250MKSTD	17VM250MKSTD	Use with 2W Add-On Only
OUTGOING CIRCUITS METERING - MID				
160A Meter Kit - MID	17VM160MKMID	17VM160MKMID	17VM160MKMID	-
250A Meter Kit - MID	-	17VM250MKMID	17VM250MKMID	Use with 2W Add-On Only
ACCESSORIES				
Meter Pack Voltage Supply Cable Loom	17VMVSLK	17VMVSLK	17VMVSLK	-
Earth Leakage Pack Voltage Supply Loom	17VMVSLK	17VMVSLK	17VMVSLK	-
Additional 160:5 Std CT	17VM160MKCT	17VM160MKCT	17VM160MKCT	-
Additional 250:5 Std CT	-	17VM250MKCT	17VM250MKCT	-
OUTGOING EARTH LEAKAGE PROTECTION				
35mm Internal Diameter	17VMEL35	17VMEL35	17VMEL35	-
70mm Internal Diameter	17VMEL70	17VMEL70	17VMEL70	-
OVERVOLTAGE PROTECTION				
Surge Arrester Kit	17VMTPSA	17VMTPSA	-	-
Surge Arrester Kit 4P	-	-	17VM4PSA	-
Lightning Arrester Kit	17VMTPLA	17VMTPLA	-	-
Lightning Arrester Kit 4P	-	-	17VM4PLA	-
Combo Lightning & Surge Arrester kit	17VMTPLSA	17VMTPLSA	-	-
Combo Lightning & Surge Arrester kit 4P	-	-	17VM4PLSA	-
ACCESSORIES				
SP MCCB Blanking Kit (Door Blank & Busbar Cap)	17VMSPBK	17VMSPBK	17VMSPBK	-
TP MCCB Blanking Kit (Door Blank & Busbar Caps)	17VMTPBK	17VMTPBK	17VMTPBK	-
4P MCCB Blanking Kit (Door Blank & Busbar Caps)	17VM4PBK	17VM4PBK	17VM4PBK	-
SPARES & ACCESSORIES				
Terminal Bar Oversize Cable Clamps - Size 1 (Set of 3)	17VMSPCC	17VMSPCC	17VMSPCC	-
Terminal Bar Oversize Cable Clamps - Size 2 (Set of 3)	17VMSPCC2	17VMSPCC2	17VMSPCC2	-
Gland Plate Panelboard	17VMSPGPP	17VMSPGPP	17VMSPGPP	-
Gland Plate Cableway	17VMSPGPC	17VMSPGPC	17VMSPGPC	-
Aluminium Gland Plate Panelboard (3mm)	17VMSPGPAP	17VMSPGPAP	17VMSPGPAP	-
Aluminium Gland Plate Cableway (3mm)	17VMSPGPAC	17VMSPGPAC	17VMSPGPAC	-
Brass Gland Plate Panelboard (1.6mm)	17VMSPGPBP	17VMSPGPBP	17VMSPGPBP	-
Brass Gland Plate Cableway (1.6mm)	17VMSPGPBC	17VMSPGPBC	17VMSPGPBC	-
Incoming Earth Connection	17VMSPIEK	17VMSPIEK	17VMSPIEK	-
Door Hinge (Set of 2)	17VMSPHG	17VMSPHG	17VMSPHG	-
Lock & Key (Set)	17VMSPLK	17VMSPLK	17VMSPLK	-
Door Latch	17VMSPLD	17VMSPLD	17VMSPLD	-
Set of Replacement Fixings	17VMSPF1	17VMSPF1	17VMSPF1	-
Terminal Bar - 11 Connections	17VMSPTB1	17VMSPTB1	17VMSPTB1	-
Terminal Bar - 21 Connections	17VMSPTB2	17VMSPTB2	17VMSPTB2	-
Terminal Bar - 31 Connections	17VMSPTB3	17VMSPTB3	17VMSPTB3	-
Shield Way Label - 6 Way	17VMSPLW1	17VMSPLW1	17VMSPLW1	-
Shield Way Label - 12 Way	17VMSPLW2	17VMSPLW2	17VMSPLW2	-
Shield Way Label - 18 Way	17VMSPLW3	17VMSPLW3	17VMSPLW3	-
Shield Way Label (4P) - 4 Way	17VMSPLW4	17VMSPLW4	17VMSPLW4	-
Shield Way Label (4P) - 8 Way	17VMSPLW5	17VMSPLW5	17VMSPLW5	-
Shield Way Label (4P) - 12 Way	17VMSPLW6	17VMSPLW6	17VMSPLW6	-

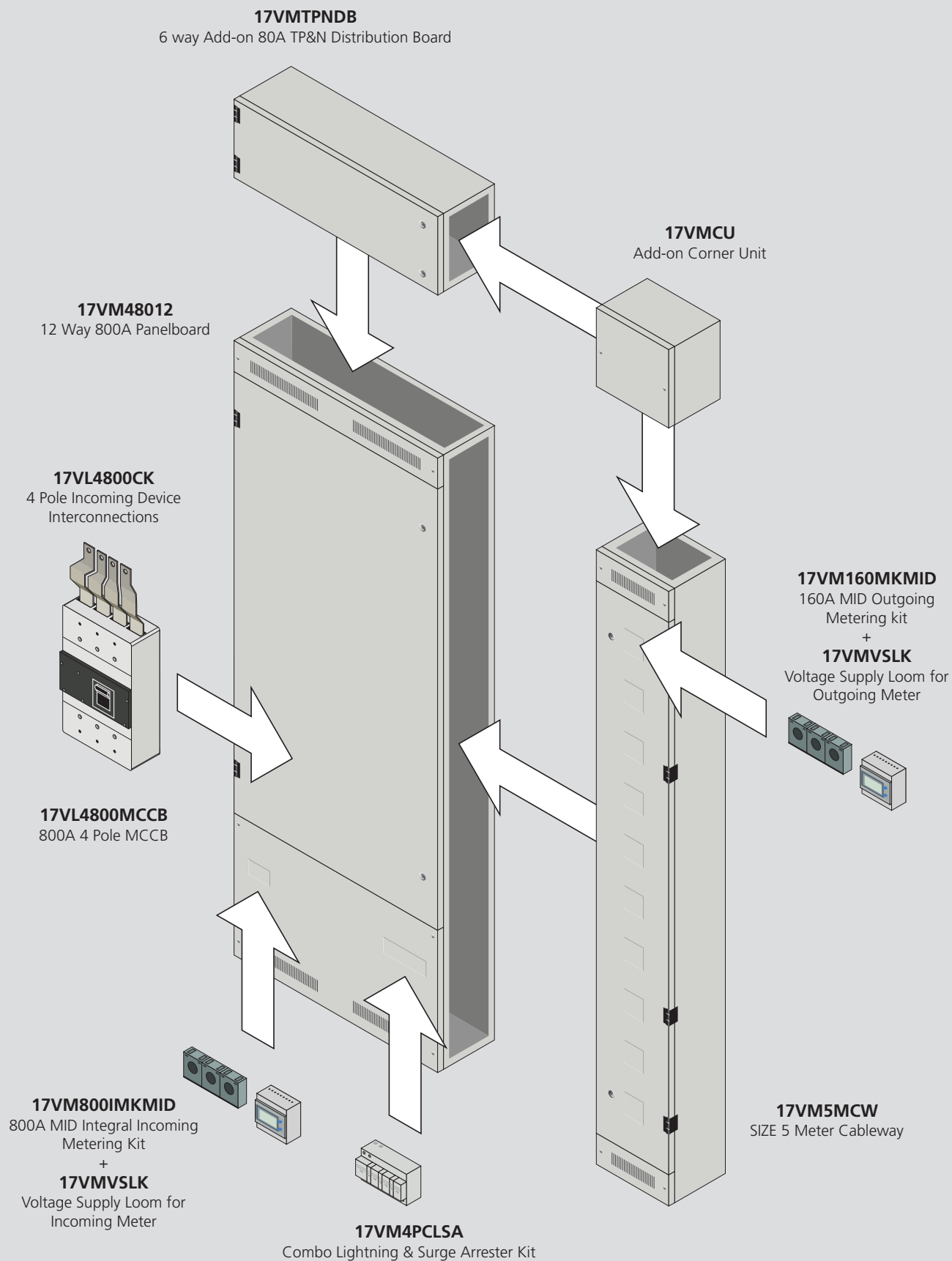
POWERSTAR VM160 DEVICES - SELECTION TABLE

Description	SP	2P	3P	4P
25KA FIXED THERMAL FIXED MAGNETIC				
16A with Box Terminals	7PBVF116	7PBVF216	7PBVF316	7PBVF416
20A with Box Terminals	7PBVF120	7PBVF220	7PBVF320	7PBVF420
25A with Box Terminals	7PBVF125	7PBVF225	7PBVF325	7PBVF425
32A with Box Terminals	7PBVF132	7PBVF232	7PBVF332	7PBVF432
40A with Box Terminals	7PBVF140	7PBVF240	7PBVF340	7PBVF440
50A with Box Terminals	7PBVF150	7PBVF250	7PBVF350	7PBVF450
63A with Box Terminals	7PBVF163	7PBVF263	7PBVF363	7PBVF463
80A with Box Terminals	7PBVF180	7PBVF280	7PBVF380	7PBVF480
100A with Box Terminals	7PBVF1100	7PBVF2100	7PBVF3100	7PBVF4100
125A with Box Terminals	7PBVF1125	7PBVF2125	7PBVF3125	7PBVF4125
160A with Box Terminals	7PBVF1160	7PBVF2160	7PBVF3160	7PBVF4160
25KA ADJUSTABLE THERMAL FIXED MAGNETIC				
16A with Box Terminals	-	-	7PBVN316	7PBVN416
20A with Box Terminals	-	-	7PBVN320	7PBVN420
25A with Box Terminals	-	-	7PBVN325	7PBVN425
32A with Box Terminals	-	-	7PBVN332	7PBVN432
40A with Box Terminals	-	-	7PBVN340	7PBVN440
50A with Box Terminals	-	-	7PBVN350	7PBVN450
63A with Box Terminals	-	-	7PBVN363	7PBVN463
80A with Box Terminals	-	-	7PBVN380	7PBVN480
100A with Box Terminals	-	-	7PBVN3100	7PBVN4100
125A with Box Terminals	-	-	7PBVN3125	7PBVN4125
160A with Box Terminals	-	-	7PBVN3160	7PBVN4160
36KA ADJUSTABLE THERMAL FIXED MAGNETIC				
16A with Box Terminals	-	-	7PBVS316	7PBVS416
20A with Box Terminals	-	-	7PBVS320	7PBVS420
25A with Box Terminals	-	-	7PBVS325	7PBVS425
32A with Box Terminals	-	-	7PBVS332	7PBVS432
40A with Box Terminals	-	-	7PBVS340	7PBVS440
50A with Box Terminals	-	-	7PBVS350	7PBVS450
63A with Box Terminals	-	-	7PBVS363	7PBVS463
80A with Box Terminals	-	-	7PBVS380	7PBVS480
100A with Box Terminals	-	-	7PBVS3100	7PBVS4100
125A with Box Terminals	-	-	7PBVS3125	7PBVS4125
160A with Box Terminals	-	-	7PBVS3160	7PBVS4160
200A with Box Terminals	-	-	7PBVS3200	7PBVS4200
250A with Box Terminals	-	-	7PBVS3250	7PBVS4250
55KA ADJUSTABLE THERMAL FIXED MAGNETIC				
16A with Box Terminals	-	-	7PBVM316	7PBVM416
20A with Box Terminals	-	-	7PBVM320	7PBVM420
25A with Box Terminals	-	-	7PBVM325	7PBVM425
32A with Box Terminals	-	-	7PBVM332	7PBVM432
40A with Box Terminals	-	-	7PBVM340	7PBVM440
50A with Box Terminals	-	-	7PBVM350	7PBVM450
63A with Box Terminals	-	-	7PBVM553	7PBVM463
80A with Box Terminals	-	-	7PBVM380	7PBVM480
100A with Box Terminals	-	-	7PBVM3100	7PBVM4100
125A with Box Terminals	-	-	7PBVM3125	7PBVM4125
160A with Box Terminals	-	-	7PBVM3160	7PBVM4160
200A with Box Terminals	-	-	7PBVM3200	7PBVM4200
250A with Box Terminals	-	-	7PBVM3250	7PBVM4250

Accessories	
MCCB Dolly Locking Device	17VMDLD
Auxiliary Switch 1C/O	17VMAUXCC
Trip Alarm Switch 1C/O	17VMTAS
Undervolts Release 110V 50Hz	17VMAUV/110
Undervolts Release 208...230V 50Hz	17VMAUV/230
Undervolts Release 125...127VDC	17VMAUV/125
Shunt Trip 24VAC, 12...30VDC	17VMAST/24
Shunt Trip 220...250VAC or DC	17VMAST/230
3VM1 TP Terminal Extensions - 150mm ²	17VM3TES150
3VM1 4P Terminal Extensions - 150mm ²	17VM4TES150
3VM TP Front Connection Bars	17VM3160FCB
3VM 4P Front Connection Bars	17VM4160FCB

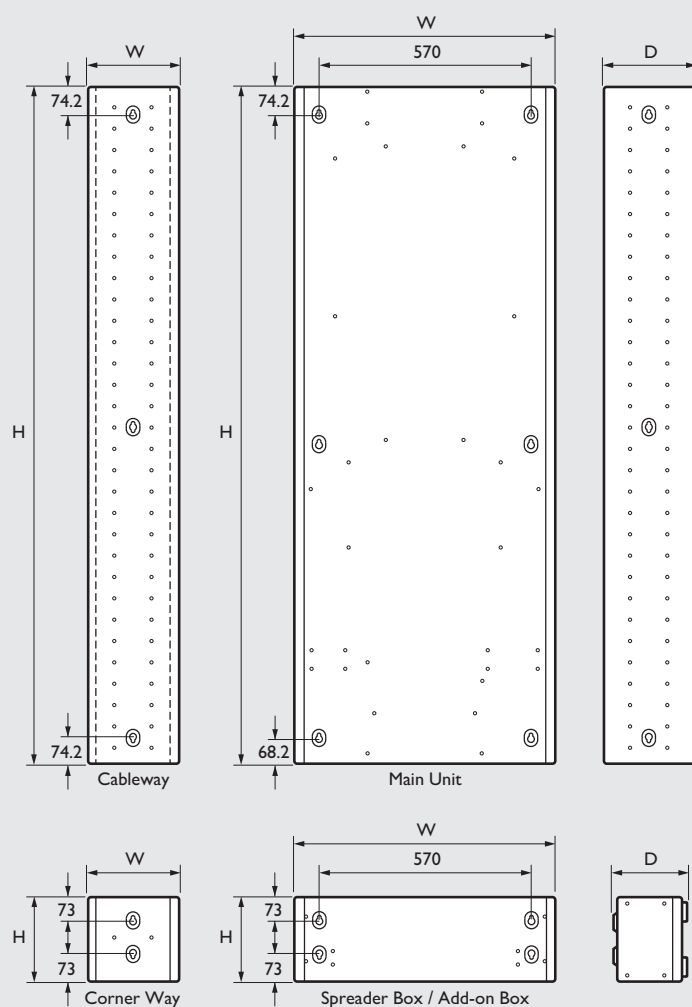
Accessories	
3VM Aux Cable Terminal for Cable Clamp	17VM160CACT
3VM Aux Cable Terminal for Busbar	17VM160BACT
SP 3VM Short Terminal Shroud	17VM9111-0WD10
TP 3VM Short Terminal Shroud	17VM9111-0WD30
4P 3VM Short Terminal Shroud	17VM9111-0WD40
TP 3VM Long Terminal Shroud	17VM9111-0WF30
4P 3VM Long Terminal Shroud	17VM9111-0WF40
160A Neutral Link Outgoing	17VMNL11
250A Neutral Link Outgoing	17VMNL12
250A Neutral Link Incoming	17VMNL22
400A Neutral Link Incoming	17VMNL24

POWERSTAR VM160 SELECTION GUIDE



PANELBOARD AND CABLEWAY DIMENSIONS

		Dimensions (mm)			Distance from Gland Plate to Incoming Terminals
Part No.	Description	H	W	D	
Panelboards					
	250A: 6 way	902	700	198	257mm
	12 way	1132	700	198	257mm
	18 way	1361	700	198	257mm
	400A: 6 way	1132	700	198	342mm
	12 way	1361	700	198	342mm
	18 way	1591	700	198	342mm
	800A: 4 way	1361	700	198	278mm
	8 way	1591	700	198	278mm
	12 way	1820	700	198	278mm
Cableways					
	Corner Unit	230	249	184	
	Size 1	902	249	198	
	Size 2	1132	249	198	
	Size 3	1361	249	198	
	Size 4	1591	249	198	
	Size 5				
Add-on Units					
	2x250A TP Outgoer	230	700	198	
	2x250A 4P Outgoer	230	700	198	
	Control Module	230	700	198	
	SPN Dist Board	230	700	198	
	TPN Dist Board	230	700	198	
	Spreader Box	230	700	184	



Technical Data Sheets available on request from:
crabtree.technical@electrium.co.uk

TECHNICAL DATA

	250A	400A	800A
Standards Compliance	IEC 61439-2; Ed 2 2011-08		
Short Circuit Withstand Strength	25kA for 1s	35kA for 1s	65kA for 1s
Rated Voltage	230/400V 3ph 50Hz		
Mounting	Wall /Floor		
Entry	Bottom		
Access	All Sides		
Form of Separation	F3bT2		F4bT6 (GM)
Degree of Protection	IP3X (door closed)		
Paint Finish	Light Grey RAL7035		

Cable Capacity

Maximum Stranded Cu Cable

	Incoming				Outgoing		
	Sw Disc or MCCB	Direct Connect	Neutral	Earth	160A MCCB	Neutral	Earth
250A Panelboard	25..185mm ²	M8	M10	M10	70mm ²	35mm ²	35mm ²
400A Panelboard	50..300mm ²	M10	M10	M10	70mm ²	35mm ²	35mm ²
800A Panelboard	Lug - 40mm	M12	M10	M10	70mm ²	35mm ²	35mm ²

Available Terminals:

	Neutral Bars			Earth Bars		
	6 way	12 way	18 way	6 way	12 way	18 way
250A Panelboard	22	42	62	22	42	62
400A Panelboard	22	42	62	22	42	62
	4 way	8 way	12 way	4 way	8 way	12 way
800A Panelboard	6	12	16	20	40	60

Meter Cableways

Description	Meter				List No
	Knockouts	250	400	800	
Size 1	4	6w	-	-	17VM1MCW
Size 2	6	12w	6w	-	17VM2MCW
Size 3	7	18w	12w	4w	17VM3MCW
Size 4	9	-	18w	8w	17VM4MCW
Size 5	10	-	-	12w	17VM5MCW

Earth Leakage Cableways

Description	Earth Leakage				List No
	Cut Outs	250	400	800	
Size 1	3	6w	-	-	17VM1ECW
Size 2	4	12w	6w	-	17VM2ECW
Size 3	5	18w	12w	4w	17VM3ECW
Size 4	6	-	18w	8w	17VM4ECW
Size 5	7	-	-	12w	17VM5ECW