

Ready to install

Low voltage power
circuit protection

Panelboards & enclosed equipment



This catalogue provides selection information for the Merlin Gerin ready to install low voltage power circuit protection products, their connection systems and enclosures.

Selection information for other products in the Merlin Gerin range can be found in the following catalogues which can be found on our website www.schneider.co.uk

- Ready to install distribution boards, DIN rail mounted equipment, enclosures and connection systems
Order reference: MGLV5750
- Compact LV circuit breakers and switch disconnectors 80-3200A
Order reference: MGLV5730
- Canalis Busbar trunking
Order reference: CAN5309

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Safepact 2

Enclosed MCCBs 63 to 630A



MGE1003C

Application

- For use in commercial and industrial applications, providing protection isolation and control of motors and power circuits
- MCCBs can be fitted with adjustable Vigi earth leakage module for improving disconnection times and providing fire protection
- Suitable for switching inductive loads, AC23 contact rating and high mechanical endurance
- Security of isolation, positive contact indication in accordance with BS 7671 and padlockable rotary handle or toggle padlocking options

Offer

- ASTA certification of breaking capacity to BS EN 60947-2
- Supplied with terminal shields
- Removable front cover provides all round cabling access
- Removable gland plates with optional extension boxes
- Trip indication and test button
- Shrouded disconnectable neutral with 3 pole device
- Steelwork finished in polyester epoxy powder, cream colour RAL9001

Accessories (See page 9)

- Voltage releases for remote tripping
- Auxiliary change over contacts for remote indication
- Connection accessories for ease of wiring
- Rotary handle provides padlocking and ease of operation
- Earth leakage

Technical data

- Enclosure ingress protection IP42
- Rated operational voltage Ue 415V
- Rated current at 40°C
- Rated ultimate short-circuit breaking capacity Icu = 70kA
- Rated service short-circuit breaking capacity Isu = 100% Icu = 70kA
- Motor ratings see page 52
- Earth leakage module settings - see page 8

C-O operations in 000's	100A	160A	250A	400A	630A
Electrical endurance	30	40	20	12	8
Mechanical endurance	In/2	40	20	12	8
	In	30	20	6	4



MGE1003C

Range

MCCB Rating	Adjustment	Two Pole	3 pole + neutral	4 pole
63A	50 - 63	MGE0632C	MGE0633C	MGE0634C
100A	80 - 100	MGE1002C	MGE1003C	MGE1004C
125A	100 - 125	MGE1252C	MGE1253C	MGE1254C
160A	125 - 160	MGE1602C	MGE1603C	MGE1604C
200A	160 - 200		MGE2003C	MGE2004C
250A	200 - 250		MGE2503C	MGE2504C
400A	160 - 400		MGE4003C	MGE4004C
630A	250 - 630		MGE6303C	MGE6304C

MCCB + earth leakage

MCCB Rating	4 pole
63A	MGE0634EC
100A	MGE1004EC
125A	MGE1254EC
160A	MGE1604EC
200A	MGE2004EC
250A	MGE2504EC
400A	MGE4004EC
630A	MGE6304EC



MGE1003SC

Application

- For use in commercial and industrial applications, providing isolation and control of motors and power circuits
- Suitable for switching inductive loads, AC23 contact rating and high mechanical endurance
- Security of isolation, positive contact indication in accordance with BS 7671 and padlockable rotary handle

Offer

- Supplied with terminal shields
- Removable front cover provides all round cabling access
- Removable gland plates and optional extension boxes
- Trip indication and test button
- Shrouded disconnectable neutral with 3 pole device
- Steelwork finished in polyester epoxy powder, cream colour RAL9001

Accessories (See page 9)

- Voltage releases for remote tripping
- Auxiliary change over contacts for remote indication
- Connection accessories for ease of wiring
- Rotary handle provides padlocking and ease of operation
- Earth leakage

Technical data

- Enclosure ingress protection IP42
- Rated operational voltage Ue 415V
- Rated current at 40°C
- Earth leakage module settings - see page 8

C-O operations in 000's	100A	160A	250A	400A	630A
Electrical endurance	30	40	20	12	8
Mechanical endurance	In/2 50	40	20	12	8
	In 30	20	10	6	4



MGE1003SC

Range

Switch disconnecter

Rating	3 pole + neutral	4 pole
100A	MGE1003SC	MGE1004SC
160A	MGE1603SC	MGE1604SC
250A	MGE2503SC	MGE2504SC
400A	MGE4003SC	MGE4004SC
630A	MGE6303SC	MGE6304SC

Switch disconnecter + earth leakage (RCCB)

Rating	4 pole
100A	MGE1004SEC
160A	MGE1604SEC
250A	MGE2504SEC
400A	MGE4004SEC
630A	MGE6304SEC

Safepact 2

Earth leakage



MGE1003EC



29211

Application

- The vigi earth leakage module option disconnects the circuit breaker when an electrical earth fault is detected
- Used to overcome high earth fault loop impedance and associated excessive disconnection times eg long cable runs
- Enhanced personal and equipment protection

Offer

- Adjustable sensitivity and time delay settings for discrimination with other RCDs
- Protection against nuisance tripping due to transient overvoltages etc. to IEC255-4 and IEC801-2 - 5
- Class A immunity to DC components of up to 6mA

Accessories (See page 9)

- Remote indication of tripping using optional changeover contact SDV

Technical data

Rating	Sensitivity settings (A)
Up to 160A	0.03*, 0.3, 1, 3 and 10
200 - 250	0.03*, 0.3, 1, 3, and 10
400 - 630	0.3, 1, 3, 10 and 30

Time delay settings (ms)

0, 60, 150 and 310

* If the sensitivity is set to 30mA there is no time delay whatever the time delay setting.

Extension boxes

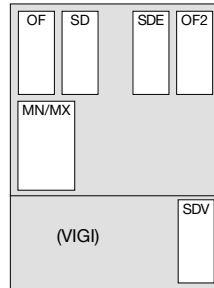
- Provide extra cabling space when using oversized cables. Colour RAL9001

Size	To fit rating	Part N°.
100mm	63 - 250A	MGEX160C
200mm	63 - 250A	MGEX250C
120mm	400 - 630A	MGEX630C

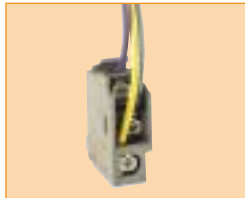
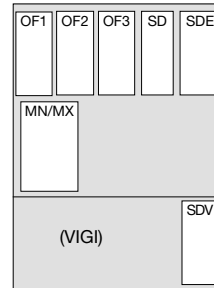
Application

These diagrams show the position of auxiliaries when fitted inside the MCCB or switch disconnecter.

MGE 100/160/250



MGE 400/630



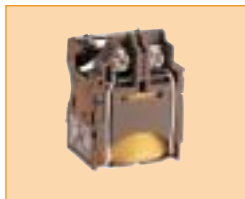
29450

Changeover contact

Auxiliary switch used for remote indication, electrical interlocking etc. Function is dependent upon position fitted within device.

- OF indicates contact position 'ON' and 'OFF'
- SD indicates device is in trip position
- SDE indicates device has tripped due to overcurrent or earth fault (100/160/250 requires SDE adaptor **29451**)
- SDV indicates device has tripped due to earth fault

	Part N°.
OF/SD/SDE/SDV	29450
SDE adaptor for MGE 100/160/250	29451



29387

Shunt trip (MX)

- Enables remote tripping on application of voltage from coil
- Coil permanently rated

Aux. supply voltage (V)	Part N°.
220/240	29387
380/415	29388



29407

Undervoltage release (MN)

- Enables remote tripping on removal of voltage to coil
- Coil permanently rated
- Prevents reclosing of device before restoration of supply to undervoltage release

Aux. supply voltage (V)	Part N°.
220/240	29407
380/415	29408



29337

Rotary handle

- Permits the device to be padlocked in OFF position by 1 - 3 padlocks, 5 - 8mm hasp
- Maintains indication of ON/OFF and TRIPPED positions
- Maintains access to 'push to trip' button
- Ronis/Profalux keylocks available on 400/630A

	Part N°.
For MGE 100/160/250	29337
For MGE 400/630	32597



29243

Cable clamp

- For bare (uncrimped) cable connections
- See technical data for cable terminations in detail
- Other options available: refer to NS catalogue, or consult us

	Part N°.
For MGE 100/160	
up to 95mm ² (set of 4)	29243
120 to 185mm ² (set of 4)	29260
For MGE 250	
25 to 95mm ² (set of 4)	29228
120 to 185mm ² (set of 4)	29260
For MGE 400/630	
up to 2x240mm ² (set of 4)	32482

Enclosed Interpact switch disconnectors

12

Enclosed Interpact

Switch disconnectors



MGES063

Application

Heavy duty sheet steel enclosures for use in commercial and industrial applications, providing isolation and control of electrical loads. Suitable for switching highly inductive loads without derating. For use in environments where a superior degree of protection is required. Four pole isolation with positive contact indication. Padlockable handle. Alternative red/yellow handle for use in industrial applications. 480V 3 ph 4 wire 50/60Hz systems.

Technical data

- Degree of protection IP55 to BS EN 60529
- Sheet steel, epoxy/polyester powder coated, beige colour
- Door interlocked rotary handle, padlockable
- Black handle as standard, with Red/yellow handle option
- Removable bottom gland plate
- Switch disconnector manufactured and tested to BS EN 60947-3
- 4 pole switching with fully rated neutral
- Rated operational current at AC23A = nominal rating up to 480V
- Rated operational voltage 690V 50/60Hz (500V for 63A)

For further details of the switch disconnectors refer to Interpact catalogue Ref No. PB-W1043

Terminations

- 63A: clamp connections accepting 1.5 - 16mm² rigid cable
- 100 - 630A flat pads for crimped lugs
- For details of maximum lug dimensions refer to table on page 55
- Termination details are identical to those of the Compact MCCBs

	Black rotary handle	Red rotary handle with yellow surround
Rating	Part N°.	Part N°.
63A	MGES063	MGES063R
100A	MGES100	MGES100R
160A	MGES160	MGES160R
250A	MGES250	MGES250R
320A	MGES320	MGES320R
400A	MGES400	MGES400R
500A	MGES500	MGES500R
630A	MGES630	MGES630R

Accessories

Rating	63A	100-160A	250A	320-630A
Auxiliary switch	29450	29450	29450	29450
Pair long terminal shields	28957	28958	29324	32565
Set of 4 crimp cable lugs for Cu cables c/w 3 phase barriers				
	95mm ²	28952		
	120mm ²		29256	
	150mm ²		29257	
	185mm ²		29258	
	240mm ²			32501
	300mm ²			32503

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MGF Fusegear

Switch disconnecter fuse

Switch disconnecter



Application

Heavy duty fuse products for use in commercial and industrial environments, providing isolation and traditional fuse protection for electrical loads.

Features

- Rated for 240/415V 50/60Hz
- Ratings 20A, 32A, 63A, 100A, SP&SwN, TP&N
- Utilisation category AC20A, AC21A, AC22A, AC23B at rated current
- Degree of protection IP41
- Handle position provides positive contact indication
- Door handle prevents door being opened when switch is ON or padlocked
- Handle padlockable in ON and OFF positions
- Fuse links supplied as standard



Construction

- Live terminals fully shrouded
- Door interlock has integral defeat mechanism allowing door to be opened without switching OFF. This feature is not operable when the handle is padlocked
- Removable gland plates with cable knockouts
- Lift off door provides greater access for installation and cabling
- Door opens within the width of the unit allowing units to be mounted adjacent
- Neutral has disconnectable link and capacity for 3 outgoing cables
- Keyhole slots in the enclosure base allow easy installation
- Earthing kit provided as standard
- Easy access to fuse links
- Steelwork finished in polyester epoxy powder, cream colour RAL9001

Technical data

- Standard BS EN 60947-3
- Rated operational voltage 415V 50/60Hz

MGFA, MGFL

Rating	20A	32A	63A	100A
Rated current at 40°C, A	20	32	63	100
Rated impulse voltage	6kV	6kV	6kV	6kV
Rated short time withstand I _{cw} , A	416	416	756	1300
Rated short circuit making capacity I _{cm}	1.35kA	1.35kA	1.35kA	3.5kA
Rated short circuit breaking capacity I _{cn}	50kA	50kA	50kA	50kA
Utilisation category at rated current	AC-20A/ 21A/ 22A/ 23B			
Kilowatt rating	11kW	15kW	30kW	55kW
Cable size, maximum mm ²	10mm ²	10mm ²	25mm ²	50mm ²

Fuse link data

Rating (A)	BS88 reference	Bussman reference
20	A1, A2	NITD20
32	A1, A2	AA032
63	A2, A3	BA063
100	A2, A3, A4	CEO100

References

Rating (A)	Switch disconnecter fuse Part N°.	Switch disconnecter Part N°.
Single pole and switched neutral		
20	MGFA0201C	MGFL0201C
32	MGFA0321C	MGFL0321C
63	MGFA0631C	MGFL0631C
100	MGFA1001C	MGFL1001C
Three pole and neutral		
20	MGFA0203C	MGFL0203C
32	MGFA0323C	MGFL0323C
63	MGFA0633C	MGFL0633C
100	MGFA1003C	MGFL1003C

MGF Fusegear

Fuse switch disconnecter

Switch disconnecter



Application

Heavy duty fuse products for use in commercial and industrial environments, providing isolation and traditional fuse protection for electrical loads.

Features

- Rated for 240/415V 50/60Hz
- Ratings 100A, 160A, 200A, 250A, 315A, 400A, 500A, 630A TP&N
- Utilisation category AC20A, AC21A, AC22A, AC23B at rated current, AC23A for ratings up to 160A
- Handle position provides positive contact indication
- Door handle prevents door being opened when switch is ON or padlocked
- Handle padlockable in ON and OFF positions
- Device may be fed to either top or bottom terminals
- Fuse links or copper links supplied as standard

Construction

- All terminals are fully shrouded
- Quick make and break silver plated contacts
- Door interlock has defeat mechanism allowing switch to be closed with door open
- Removable plain gland plates are fitted at top and bottom
- Cabling space may be increased by the addition of the cable boxes
- Lift off door provides greater access for installation and cabling
- Door opens within the width of the unit allowing units to be mounted adjacent
- Neutral is fitted with disconnectable link
- Earthing kit provided as standard
- Easy access to fuse links
- Removable cross rails allow cables to be laid in easily
- Direct front access to terminals without dismantling the mechanism
- Clear shrouds allow easy access for inspection and visual indication of contact position
- Steelwork finished in polyester epoxy powder, cream colour RAL9001

Technical data

- Standard BS EN 60947-3
- Rated operational voltage 415V 50/60Hz

MGFS, MGFD

Rating	100A	160A	200A	250A	315A	400A	500A	630A
Rated current at 40°C, A	100	160	200	250	315	400	500	630
Rated impulse voltage	8kV	8kV	8kV	8kV	8kV	8kV	8kV	8kV
Rated short time withstand I _{cw} , A	3.4kA	3.4kA	5.23kA	5.23kA	12kA	12kA	12kA	12kA
Rated short circuit making capacity I _{cm}	5kA	5kA	8kA	8kA	24kA	24kA	24kA	24kA
Rated short circuit breaking capacity I _{cn}	50kA	50kA	50kA	50kA	50kA	50kA	50kA	50kA
Utilisation category at rated current	AC-23A	AC-23A	AC-23B	AC-23B	AC-23B	AC-23B	AC-23B	AC-23B
Kilowatt rating	55kW	90kW	110kW	130kW	175kW	220kW	250kW	300kW
Terminal stud	M8	M8	M10	M10	M12	M12	M12	M12
Terminal lug, maximum palm width	20mm	20mm	30mm	30mm	50mm	50mm	50mm	50mm
Maximum cable size	50mm ²	50mm ²	120mm ²	120mm ²	400mm ²	400mm ²	400mm ²	400mm ²

References

Rating (A)	Fuse switch disconnecter Part N°.	Switch disconnecter Part N°.	Cable box Part N°.
Three pole and neutral			
100	MGFS1003C	MGFD1003C	MGFX100C
160	MGFS1603C	MGFD1603C	MGFX160C
200	MGFS2003C		MGFX250C
250	MGFS2503C	MGFD2503C	MGFX250C
315	MGFS3153C		MGFX500C
400	MGFS4003C	MGFD4003C	MGFX500C
500	MGFS5003C	MGFD5003C	MGFX500C
630	MGFS6303C	MGFD6303C	MGFX630C

Fuse link data

Rating (A)	BS88 reference	Bussman reference	Cu links (Set of 3)
100	B1	CD100	MGFQ100
160	B2	DD160	MGFQ160
200	B2	DD200	MGFQ250
250	B3	ED250	MGFQ250
315	C1	EF315	MGFQ400
400	C1	EF400	MGFQ400
500	C2	FF500	MGFQ630
630	C2	FF630	MGFQ630

MGF Fusegear

Busbar chambers



MGFB20007C

Application

The wall mounting busbar chambers provide an easy means of mounting and interconnecting fusegear products.

Range

Three ratings and three busbar lengths are available. Connection kits enable busbar chambers to be linked and all devices connected to the bars.

Technical data

- Manufactured to BS EN 60439-1
- Rated voltage 415V 50/60Hz
- Solid copper busbars rated at 200, 400 and 630A
- Neutral bar is fully rated
- Busbar chamber lengths: 750, 1200 and 1800mm
- Chambers have common depth (200mm) and common height (450mm)
- End plates, top plates and bottom plates are fully removable for connections and for access
- Steelwork finished in polyester epoxy powder, cream colour RAL9001

Rating	Length (mm)	Length (mm)	Length (mm)
	750	1200	1800
	Part N°.	Part N°.	Part N°.
200	MGFB20007C	MGFB20012C	MGFB20018C
400	MGFB40007C	MGFB40012C	MGFB40018C
630	MGFB63007C	MGFB63012C	MGFB63018C

Busbar connection kits

Each kit comprises connections for three phases and neutral

Rating	Busbar interconnections to link busbar chambers*	Cable connections to connect to busbars**
	Part N°.	Part N°.
200	MGFK200	MGFC200
400	MGFK400	MGFC400
630	MGFK630	MGFC630

* The busbar connection kits allow 2 or more busbar chambers to be electrically and mechanically joined together providing facilities for a greater number of outgoing circuits.

** The cable connection kits comprise 4 bolts, nuts and washers to connect a set of cables fitted with crimped lugs to the busbars.

Fuse switch connection kits

Each kit comprises connections for three phases and neutral

Rating	Top mounted	Bottom mounted
	Part N°.	Part N°.
100, 160	MGFZ160	MGFZ160
200, 250	MGFZ250	MGFZ250
315 - 630	MGFZ630T	MGFZ630

Fuse switch connection kits comprise 4 copper links with connection hardware to connect a fuse switch to the busbars.

Note: the kit required for fitting devices of 315A or greater differs dependent on whether it is mounted above or below the busbar chamber.

Selection table	18
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400/630A panelboard	26
800A panelboard	28
1600A panelboard	30
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Powerpact 4

Introduction

The Merlin Gerin range of wall and floor mounted Powerpact 4 panelboards is designed, manufactured and tested to BS EN 60439-1. The structures are rigid sheet steel finished in a cream colour epoxy powder (RAL 9001).

All the boards contain a unique connection system that ensures that all busbar/breaker connections are tightened to the correct torque. The system comprises a tightening bolt head which shears off when the correct torque is reached. Facilities are provided to enable the breaker to be repositioned at a later time if so required.

The breaker range comprises single pole, single pole with switched neutral, double pole, triple pole and three pole with switched neutral and four pole. Incoming device ratings up to 1600A and outgoing ratings up to 630A.

The extremely flexible board design allows 1, 2, 3 and 4 pole breakers to be positioned in any order on the busbar stack thus allowing maximum use of the available space and also allowing breakers feeding associated loads to be positioned together. For this reason the number of outgoing ways in the table below is expressed in single pole ways as well as three pole ways.

Special breakers

Details of the standard breakers that may be fitted into the various sizes of panelboard are given on the following pages.

The full range of Compact NS moulded case circuit breakers includes a wide range of breakers for special applications, higher breaking capacities, additional ratings and adaptations including rotary handles and motor mechanisms for remote operation. Most of these breakers, of ratings up to 630A, can be adapted for use in the Powerpact 4 panelboards.

To order these special breakers add the words "...for use in Powerpact 4 panelboard" to your ordering description of the breaker.



Powerpact 4

Selection table

		250A	250A	400/630A	800A	1600A
		Powerboard	Panelboard	Panelboard	Panelboard	Panelboard
Busbar short circuit withstand		36kA, 1s	36kA, 1s	36kA, 1s	50kA, 1s	50kA, 1s
Number of outgoing ways	13SP inc incomer	■				
	17SP inc incomer	■				
	15SP (5TP)		■			
	18SP (6TP)			■	■	
	21SP (7TP)		■			
	27SP (9TP)		■			
	36SP (12TP)			■	■	
	39SP (13TP)		■			
	42SP (14TP)					■
54SP (18TP)			■	■		
Incoming device	100A MCCB	<input type="checkbox"/>	<input type="checkbox"/>			
	160A MCCB	<input type="checkbox"/>	<input type="checkbox"/>			
	250A MCCB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	400A MCCB			<input type="checkbox"/>		
	630A MCCB			<input type="checkbox"/>		
	800A MCCB				■	
	1250A MCCB					<input type="checkbox"/>
	1600A MCCB					<input type="checkbox"/>
250A fuse switch		<input type="checkbox"/>				
Incomer - field installable		■	■	■	■	■
Two incomers, mechanically interlocked		<input type="checkbox"/>				
Main incoming cable entry	Top		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Bottom	■	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Incoming metering				<input type="checkbox"/>	<input type="checkbox"/>	■
Outgoing metering		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Top/bottom extension boxes			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Side extension boxes		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Integrated control and distribution unit				<input type="checkbox"/>	<input type="checkbox"/>	
Earth leakage protection on outgoing circuits				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Standard		■				
Option		<input type="checkbox"/>				

Merlin Gerin Powerpack 4 Panelboard

The easy steps to install a circuit breaker



The 4 pole busbar system ready to accept the circuit breaker.



The circuit breaker is placed in the panelboard and pushed up to the busbars. 1P, 2P, 3P and 4 pole breakers may be mixed in any order on the busbars.



The circuit breaker fixing screw is fitted and tightened to retain the breaker in the board.

Merlin Gerin Powerpact 4 Panelboard

The easy steps to install a circuit breaker



The connections to the busbars are tightened until the tops of the connection bolts shears off. This ensures that the correct torque has been applied to the connections.



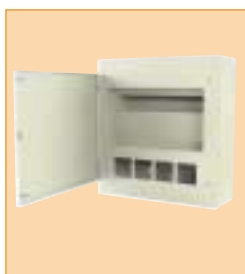
The circuit breaker is now mechanically & electrically connected in the panel board. It is now ready for the outgoing cables. Note how the breaker cassette fully shrouds the busbars. Unused positions must be fitted with blanking plates.

Powerpact 4

250A powerboards



MG25C2



MG25C2M

Application

The wall mounted Powerpact 4 powerboard is perfectly suited to installations where space is restricted or only a few outgoing circuits are required. They make ideal sub-main splitter boards and, by adding a mechanical interlock can be used for manual changeover applications.

These powerboards are also available in versions having metering facility. There are cut-outs to accept 96mm square meters. Metering can easily be installed on site by the use of current transformer modules fitted to the required circuits. The necessary wiring looms are supplied with the board. For full details refer to page 37.

Technical data

- Manufactured and tested to BS EN 60439-1
- Busbar rated at 250A at 415V, 50Hz
- **Short circuit withstand:** 36kA for 1 second
- Rigid folded sheet steel construction with removable gland plates and end walls
- **Degree of protection:** IP4X
- Form 3b type 2 as standard
- Form 4b types 2 & 6 can be achieved by use of individual disconnectable neutral links adjacent to breakers or by the use of 4 pole breakers. Tunnel terminals are to be fitted on the breaker outgoing terminals and shrouded by short terminal shields.
- Steelwork finished in polyester epoxy powder, cream RAL9001
- Lockable overall sheet steel door as standard

Neutral bar

- **Incoming:** M12
- **Outgoing:** 9 - 12 way terminal bar + 6/8 M8 bolted connections (bolts provided)

Earth connection

- **Outgoing:** 12 way terminal bar

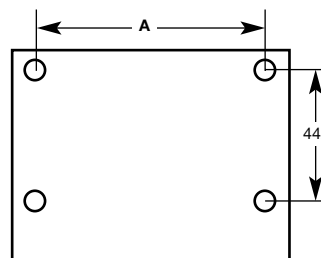
Main earth connection

- Reversible M10 bolt

■ Dimensions: in mm

	9 way	13 way
Width	600	778
Height	650	650
Depth	268	268
A (fixing centres)	306	484
Weight kg	32	57

■ Incoming cabling space 260mm



NS moulded case circuit breakers

Application

Powerpact 4 powerboard has a unique interconnection system which automatically gives the correct torque settings. 1, 2, 3, or 4 pole devices may be mixed to suit the installation needs without loss of space.

Technical data

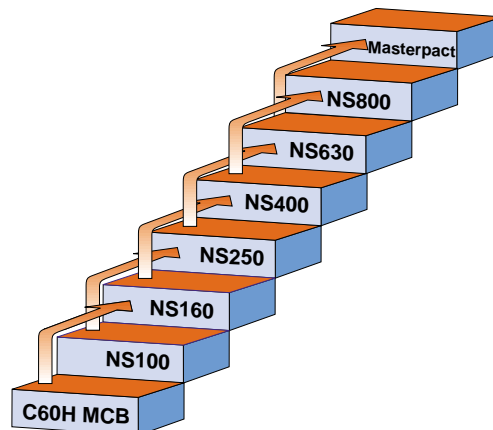
- Manufactured and tested to BS EN 60947-2.
- $I_{cs} = 100\% I_{cu}$
- **Calibration temperature:** 40°C
- **Thermal adjustment:** (3 and 4 pole) 0.8 - 1 x I_n

MCCB	Icu	Terminal size
16 - 100A	36kA	6mm bolt
160 - 250A	36kA	8mm bolt

Full technical specifications can be obtained from Compact NS moulded case circuit breaker catalogue ref. No. MGLV5558.

If you require higher breaking capacities, electronic trip or motor protection MCCBs refer to the note on page 18.

Full discrimination simply by missing a step.



3 pole outgoing MCCB



MG25C2

Step 1. Select powerboard required

MG25C2	13 SP positions. Accepts 4 pole incoming breaker & 9 SP outgoing poles
MG25C4	17 SP positions. Accepts 4 pole incoming breaker & 13 SP outgoing poles
MG25C2M	as MG25P2 plus the facility to add 4 meters
MG25C4M	as MG25P4 plus the facility to add 5 meters

Step 2. Select incoming and outgoing MCCBs

Current rating (A)	Part N°.			
	SP	2P	3P	4P
16	MGP0161 (1)	MGP0162 (2)	MGP0163	MGP0164
25	MGP0251 (1)	MGP0252 (2)	MGP0253	MGP0254
30/32 (3)	MGP0301 (1)	MGP0302 (2)	MGP0323	MGP0324
40	MGP0401 (1)	MGP0402 (2)	MGP0403	MGP0404
63	MGP0631 (1)	MGP0632 (2)	MGP0633	MGP0634
80	MGP0801 (1)	MGP0802 (2)	MGP0803	MGP0804
100	MGP1001 (1)	MGP1002 (2)	MGP1003 (4)	MGP1004 (4)
125	MGP1251 (1)	MGP1252 (2)	MGP1253	MGP1254
160	MGP1601 (1)	MGP1602 (2)	MGP1603	MGP1604
200			MGP2003	MGP2004
250			MGP2503	MGP2504

(1) Add suffix L1, L2, L3 when selecting single pole MCCBs

(2) Add suffix L1N, L2N, L3N, L12, L23, L31 when ordering double pole MCCBs

(3) 30A for SP and DP, 32A for 3 and 4P.

(4) For full discrimination with downstream C60H MCBs use **MGP1013** (3 pole) or **MGP1014** (4 pole).

Switch disconnecter up to 250A	MGP2503NA	MGP2504NA
Disconnectable neutral links (occupies one SP way)	MGP250NL	

Step 3. Select powerboard accessories

Single pole blanking plate	MGPBBP
Each powerboard is supplied with 3 blanks.	
Side extension box	MG25EXC
2 spare door keys	MGK33
Metering position blanking plate	03908

One 3P terminal shield for 250A breaker is supplied as standard for the main incoming terminals.

Step 4. Select MCCB accessories

Mechanical interlock (5)	29354
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(5) Between toggle operated breakers. Not suitable for rotary handles.

For the range of MCCB accessories, refer to pages 32 to 34.

For fully dimensioned drawings see section 8.

Powerpact 4

250A panelboards



MG2C5

Application

The wall mounted Powerpact 4 gives maximum flexibility to the installer. It will accept top or bottom entry main cable without modification.

Range

- Incoming 250A
- Outgoing - 15, 21, 27, or 39 single pole ways
- Busbar rating - 250A 4 pole

Technical data

- Manufactured and tested to BS EN 60439-1
- Busbar rated at 250A at 415V 50Hz
- Short circuit withstand 36kA for 1s
- Rigid folded sheet steel construction with removable gland plates
- Degree of protection - IP4X
- Form 3b type 2 as standard
- Form 4b types 2 & 6 can be achieved by use of individual disconnectable neutral links adjacent to breakers or by the use of 4 pole breakers. Tunnel terminals are to be fitted on the breaker outgoing terminals and shrouded by short terminal shields. The incoming breaker should be 4 pole breaker or have a disconnectable link fitted adjacent to the 3 pole breaker.
- Steelwork finished in polyester epoxy powder cream colour RAL9001
- Lockable overall sheet steel doors as standard

Incoming devices

- The main incoming device is side mounted at the bottom right hand side
- If a 4 pole incomer is used, the number of outgoing ways available is reduced by one single pole way
- The main incoming terminal shroud can be positioned to suit a 3P or 4P incoming breaker

Neutral bar

- Incoming M8 bolted connection
- Outgoing - one connection per single pole way: 10mm dia

Earth bar

- Incoming M8 bolted connection
- Outgoing - one connection per single pole way: 10mm dia

NS moulded case circuit breakers

A range of low breaking capacity 3 pole devices covers the fault levels encountered at this level of distribution. Powerpact 4 panelboards have a unique interconnection system which automatically gives the correct torque settings. 1, 2, 3 and 4 pole devices may be mixed to suit the installation needs without loss of space.

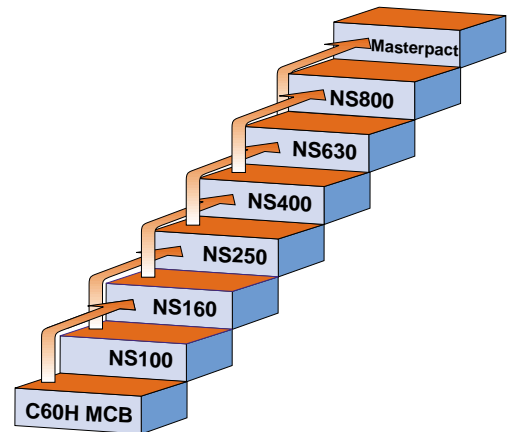
Technical data

- Manufactured and tested to BS EN 60947-2
- Ics = 100% Icu
- Calibration temperature 40°C
- Thermal adjustment (3 and 4 pole)
16 - 250A = 0.8 - 1x In

Type	Rating	Icu	Terminal
MGPE	16 - 125	16kA	M6 bolt
MGP	16 - 100	36kA	M6 bolt
MGP	125 - 250	36kA	M8 bolt

Full technical specifications can be obtained from Compact NS moulded case circuit breaker catalogue Ref. No. MGLV5558.

Full discrimination simply by missing a step.



Dimensions

- In mm

	15 (5-TP) way	21 (7-TP) way	27 (9-TP) way	39 (13-TP) way
Width	853	853	853	853
Height	680	785	890	1075
Depth	270	270	270	270
Weight kg	40	44	50	60

Gland plate to incomer terminals

- 198 mm to first pole

Step 1. Select panelboard required

MG2C5	15 outgoing single pole ways
MG2C7	21 outgoing single pole ways
MG2C9	27 outgoing single pole ways
MG2C13	39 outgoing single pole ways

Step 2. Select incoming device

Rating (A)	100A	160A	250A
MCCB 3 pole	MGP1003	MGP1603	MGP2503
MCCB 4 pole	MGP1004	MGP1604	MGP2504
Switch Disconnecter			
3 pole	MGP1003NA	MGP1603NA	MGP2503NA
Switch disconnecter			
4 pole	MGP1004NA	MGP1604NA	MGP2504NA
Fuse switch (5)			MG2C250FS
Lug unit 3 pole (6)			MGP2503LL
Lug unit 4 pole (6)			MGP2504LL

Step 3. Select outgoing device

Current rating (A)	Part N°.		16kA	36kA	36kA
	SP	2P	3P	3P	4P
16	MGP0161 (1)	MGP0162 (2)	MGPE0163	MGP0163	MGP0164
25	MGP0251 (1)	MGP0252 (2)	MGPE0253	MGP0253	MGP0254
30/32 (3)	MGP0301 (1)	MGP0302 (2)		MGP0323	MGP0324
40	MGP0401 (1)	MGP0402 (2)	MGPE0403	MGP0403	MGP0404
50	MGP0501 (1)	MGP0502 (2)		MGP0503	MGP0504
63	MGP0631 (1)	MGP0632 (2)	MGPE0633	MGP0633	MGP0634
80	MGP0801 (1)	MGP0802 (2)	MGPE0803	MGP0803	MGP0804
100	MGP1001 (1)	MGP1002 (2)	MGPE1003	MGP1003 (4)	MGP1004 (4)
125	MGP1251 (1)	MGP1252 (2)	MGPE1253	MGP1253	MGP1254
160	MGP1601 (1)	MGP1602 (2)		MGP1603	MGP1604

(1) Add suffix L1, L2, L3 when selecting single pole MCCBs

(2) Add suffix L1N, L2N, L3N, L12, L23, L31 when ordering double pole MCCBs

(3) 30A for SP and 2P, 32A for 3P and 4P

(4) For full discrimination with downstream C60H MCBs use **MGP1013** (3 pole) or **MGP1014** (4 pole)

(5) This incoming unit is an additional enclosure that fits above or below the standard panelboard. It comes complete with all connections and accessories to electrically and mechanically join the enclosures

(6) Protection must be provided upstream by a suitably rated breaker.

Disconnectable neutral link (occupies one SP way) 250A **MGP250NL**

Step 4. Select panelboard accessories

Single pole blanking plate (3 supplied with each board)	MGPBBP
Top/bottom 200mm extension box	MG6CEX
2 spare door keys	MGK33

Step 5. Select MCCB accessories

For the range of MCCB accessories available refer to pages 32 to 34.

For fully dimensioned drawings see section 8.



1P & 2P MCCB



3 Pole MCCB

Powerpact 4

400/630A panelboards



MG6C6

Application

The wall mounted Powerpact 4 gives maximum flexibility to the installer. It can be arranged for top or bottom entry without the use of kits.

Range

- Incoming up to 250, 400 or 630A
- Outgoing - 18, 36 or 54 single pole ways
- Busbar rating - 630A 4 pole

Technical data

- Manufactured and tested to BS EN 60439-1
- Busbar rated at 630A at 415V, 50Hz
- Short circuit withstand 36kA for 1 second
- Rigid folded sheet steel construction with removable gland plates and end walls
- Degree of protection - IP4X
- Form 3b type 2 as standard
- Form 4b types 2 & 6 can be achieved by use of individual disconnectable neutral links adjacent to breakers or by the use of 4 pole breakers. Tunnel terminals are to be fitted on the breaker outgoing terminals and shrouded by short terminal shields. The main neutral bar either side of the incomer should be removed and discarded together with the connecting copper bar. The incoming breaker should be 4 pole breaker or have a disconnectable link fitted to the left of a 3 pole breaker.
- Steelwork finished in polyester epoxy powder cream colour RAL9001
- Lockable overall sheet steel doors as standard

Neutral bar

- Incoming M12 bolted connection
- Outgoing (all bolts provided)
 - 18 way = 10 x M8 bolts
 - 36 way = 16 x M8 bolts
 - 54 way = 22 x M8 bolts

Earth bar

- Outgoing 24 x 25mm² tunnel terminal

Main earth connections

- 2 x reversible M10 bolt

Top entry

For top entry main cables the board may be inverted. The spare set of labels supplied should be used to correctly label the board. Ensure that a "top entry" incomer is selected

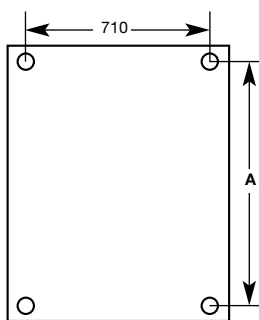
Dimensions

- In mm

	6 way	12 way	18 way
Width	850	850	850
Height	1178	1493	1808
Depth	270	270	270
A fixing centres	1035	1350	1665
Weight kg	66	89	98

Gland plate to incomer terminals

- 250A - 375mm
- 400A - 290mm
- 630A - 290mm



NS moulded case circuit breakers

Powerpact 4 panelboards have a unique interconnection system which automatically gives the correct torque settings. 1, 2, 3, and 4 pole devices may be mixed to suit the installation needs without loss of space.

Technical data for circuit breakers

- Manufactured and tested to BS EN 60947-2
- Ics = 100% Icu
- Calibration temperature 40°C
- Thermal adjustment (3 and 4 pole)
 - 16 - 250A = 0.8 - 1 x In
 - 400 - 630A = 0.4 - 1 x In

MCCB size	Icu	Terminal
16 - 100A	36kA	6mm bolt
160 - 250A	36kA	8mm bolt
400 - 630A	50kA	10mm bolt

Earth fault protection

- May be added to any 4 pole MCCB
- Sensitivities 30, 300mA, 1, 3 and 10A
- Time delay 0, 60, 150, 310 milli-seconds

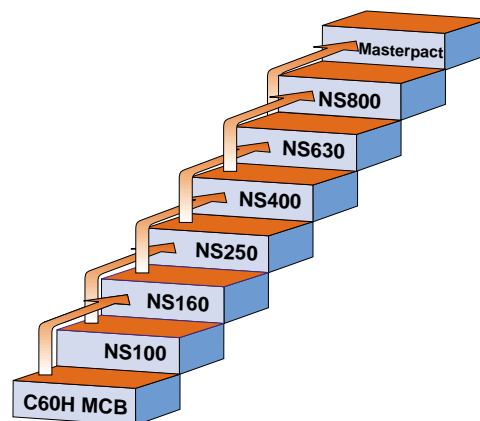
Metering

- The design of these PP4 panelboards allows the easy, site installation of metering facilities to incoming and outgoing supplies. For details please refer to the metering section on page 37.

Full technical specifications can be obtained from our MCCB catalogue

If you require higher breaking capacities, electronic trip or motor protection MCCBs refer to the note on page 18.

Full discrimination simply by missing a step.



Powerpact 4

How to order 400/630A panelboards

Step 1. Select panelboard required (Ways in number at ≤250A)

MG6C6	18 outgoing single pole ways
MG6C12	36 outgoing single pole ways
MG6C18	54 outgoing single pole ways

Step 2. Select incoming device

Rating (A)	Bottom entry			Top entry		
	250A	400A	630A	250A	400A	630A
MCCB 3 pole	MGP2503	MGP4003	MGP6303	MGP2503T	MGP4003T	MGP6303T
MCCB 4 pole	MGP2504	MGP4004	MGP6304	MGP2504T	MGP4004T	MGP6304T
Switch disconnecter 3 pole	MGP2503NA	MGP4003NA	MGP6303NA	MGP2503NAT	MGP4003NAT	MGP6303NAT
Switch disconnecter 4 pole	MGP2504NA	MGP4004NA	MGP6304NA	MGP2504NAT	MGP4004NAT	MGP6304NAT
Direct connection	-	-	MGPINC	-	-	-

For cables greater than 240mm² the use of a top/bottom extension box is recommended

The line (supply) terminals on the incoming device must be suitably shrouded. The board is supplied with 1 - 3 pole shroud for a 400/630A breaker. For other breakers suitable terminal shields should be ordered separately

250A 3 pole	29323
250A 4 pole	29324
400/630A 4 pole	32565

Note: These terminal shields are supplied in pairs.

Step 3. Select outgoing MCCBs

Current rating (A)	Part N°.	2P	3P	4P
16	MGP0161 (1)	MGP0162 (2)	MGP0163	MGP0164
25	MGP0251 (1)	MGP0252 (2)	MGP0253	MGP0254
30/32 (6)	MGP0301 (1)	MGP0302 (2)	MGP0323	MGP0324
40	MGP0401 (1)	MGP0402 (2)	MGP0403	MGP0404
63	MGP0631 (1)	MGP0632 (2)	MGP0633	MGP0634
80	MGP0801 (1)	MGP0802 (2)	MGP0803	MGP0804
100	MGP1001 (1)	MGP1002 (2)	MGP1003 (7)	MGP1004 (7)
125	MGP1251 (1)	MGP1252 (2)	MGP1253	MGP1254
160	MGP1601 (1)	MGP1602 (2)	MGP1603	MGP1604
200			MGP2003	MGP2004
250			MGP2503	MGP2504
400 (5)			MGP4003 (3)	MGP4004 (4)
630 (5)			MGP6303 (3)	MGP6304 (4)

(1) Add suffix L1, L2, L3 when selecting single pole MCCBs

(2) Add suffix L1N, L2N, L3N, L12, L23, L31 when ordering double pole MCCBs

(3) 4 SP ways used, requires shrouding kit, see page 34.

(4) 6 SP ways used, requires shrouding kit, see page 34, **MGPBB25** 1/2 pole shrouding plate.

(5) When fitting 400A & 630A breakers a side extension box will almost certainly be required.

(6) 30A for SP and DP, 32A for 3 and 4P.

(7) For full discrimination with downstream C60H MCBs use **MGP1013** (3 pole) or **MGP1014** (4 pole)

Disconnectable neutral link	250A MGP250NL (1 SP way)	630A MGP630NL (2 SP ways and requires MGPBB25 1/2 pole shrouding plate)
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Step 4. Select panelboard accessories

Single pole blanking plate **MGPBBP** (each panelboard is supplied with 3 blanks)

Side extension box for	MG6P6	MG6P12	MG6P18
250mm	MGPXC206	MGPXC212	MGPXC218
500mm	MGPXC506	MGPXC512	MGPXC518

Top/bottom extension box 200mm	MG6CEX	MG6CEX	MG6CEX
Shrouding kit	MGPCH6	MGPCH12	MGPCH18
2 spare door keys	MGK33		

Corner units

For squaring off a panelboard when a top or bottom extension and side extension is used together.

Extension box		
Top/bottom	Side	Part N°.
200	250	MGPC2025
200	500	MGPC2050

Step 5. Select MCCB accessories

For the range of MCCB accessories available refer to pages 32 to 34.

For fully dimensioned drawings see section 8.

Powerpact 4

800A panelboards



MG8C6

Application

The wall mounted Powerpact 4 gives maximum flexibility to the installer. It can be supplied suitable for top or bottom entry.

Range

- Incoming 800A
- Outgoing - 18, 36 or 54 single pole ways
- Busbar rating - 800A 4 pole

Technical data

- Manufactured and tested to BS EN 60439-1
- Busbar rated at 800A at 415V, 50Hz.
- Short circuit withstand 50kA for 1 second
- Rigid folded sheet steel construction with removable gland plates and end walls
- **Degree of protection:** IP4X
- Form 3b type 2 as standard
- Form 4b types 2 & 6 can be achieved by use of individual disconnectable neutral links adjacent to breakers or by the use of 4 pole breakers. Tunnel terminals are to be fitted on the breaker outgoing terminals and shrouded by short terminal shields.
- The main neutral bar either side of the incomer should be removed and discarded together with the connecting copper bar. The incoming breaker should be 4 pole breaker.
- Steelwork finished in polyester epoxy powder cream colour RAL9001
- Lockable overall sheet steel doors as standard

Neutral bar

- Incoming M12 bolted connection
- Outgoing (all bolts provided)
 - 18 way = 10 x M8 bolts
 - 36 way = 16 x M8 bolts
 - 54 way = 22 x M8 bolts

Earth bar

- Incoming M10 bolted connection
- Outgoing 24 x 25mm² tunnel terminal

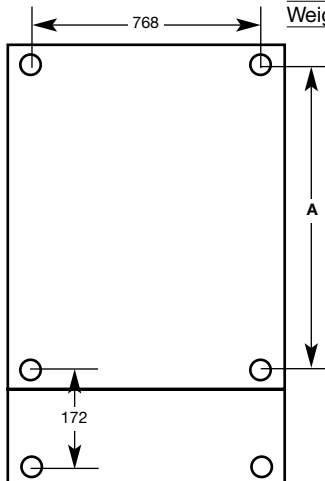
Main earth connections

- 2 x reversible M10 bolt

Dimensions

- In mm

	6 way	12 way	18 way
Width	850	850	850
Height	1580	1896	2210
Depth	270	270	270
A	1035	1350	1665
Weight kg	86	104	122



Gland plate to incomer terminals

- 800A - 490mm
- Main connection M12 bolt

NS outgoing moulded case circuit breakers

Powerpact 4 panelboards have a unique interconnection system which automatically gives the correct torque settings. 1, 2, 3, and 4 pole devices may be mixed to suit the installation needs without loss of space.

Technical data for circuit breakers

- Manufactured and tested to BS EN 60947-2
- Ics = 100% Icu
- Calibration temperature 40°C
- Thermal adjustment (3 and 4 pole)
 - 16 - 250A = 0.8 - 1 x In
 - 400 - 630A = 0.4 - 1 x In
 - 800A = 0.4 - 1 x In

MCCB	Icu	Terminal size
16 - 100A	25kA	6mm bolt
160 - 250A	36kA	8mm bolt
400 - 630A	45kA	10mm bolt
800A	50kA	2 x 12mm bolt

Earth fault protection

- May be added to any 4 pole MCCB
- Sensitivities 30, 300mA 1, 3, and 10A
- Time delay 0, 60, 150, 310 milli - seconds

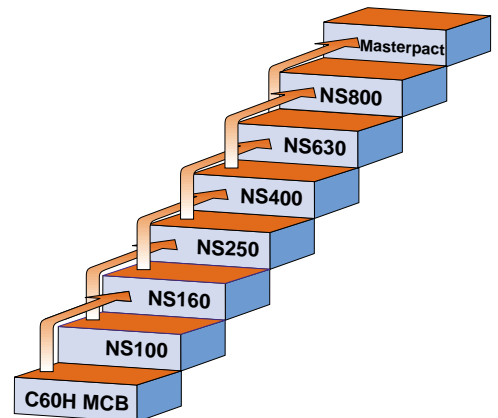
Metering

- The design of these PP4 panelboards allows the easy, site installation of metering facilities to incoming and outgoing supplies. For details please refer to the metering section on page 37.

Full technical specifications can be obtained from our MCCB catalogue.

If you require higher breaking capacities, electronic trip or motor protection MCCBs refer to page 18.

Full discrimination simply by missing a step.



Powerpact 4

How to order 800A panelboards

Step 1. Select panelboard required (supplied with top/bottom extension box fitted)

Main cable entry	18 way (6 TP ways)	36 way (12 TP ways)	54 way (18 TP ways)
Bottom	MG8C6	MG8C12	MG8C18
Top	MG8C6T	MG8C12T	MG8C18T

Step 2. Select incoming device (all boards accept 3 or 4 pole incomers)

	3 pole	4 pole
NS800N MCCB with Micrologic 5.0 control unit	MGP8003B5	MGP8004B5
NS800NA switch disconnecter	MGP8003NA	MGP8004NA

NS800 breakers with alternative control units, motor operators, rotary handles and internal accessories may be fitted as incomers to these boards. For full details refer to our Compact LV circuit breaker and switch-disconnectors catalogue. When specifying these alternative breakers you must include one long terminal shield and one set of phase separators.

Step 3. Select outgoing MCCBs

Current rating (A)	Part N°			
	SP	2P	3P	4P
16	MGP0161 (1)	MGP0162 (2)	MGP0163	MGP0164
25	MGP0251 (1)	MGP0252 (2)	MGP0253	MGP0254
30/32 (6)	MGP0301 (1)	MGP0302 (2)	MGP0323	MGP0324
40	MGP0401 (1)	MGP0402 (2)	MGP0403	MGP0404
63	MGP0631 (1)	MGP0632 (2)	MGP0633	MGP0634
80	MGP0801 (1)	MGP0802 (2)	MGP0803	MGP0804
100	MGP1001 (1)	MGP1002 (2)	MGP1003 (7)	MGP1004 (7)
125	MGP1251 (1)	MGP1252 (2)	MGP1253	MGP1254
160	MGP1601 (1)	MGP1602 (2)	MGP1603	MGP1604
200			MGP2003	MGP2004
250			MGP2503	MGP2504
400 (5)			MGP4003 (3)	MGP4004 (4)
630 (5)			MGP6303 (3)	MGP6304 (4)

- (1) Add suffix L1, L2, L3 when selecting single pole MCCBs
 (2) Add suffix L1N, L2N, L3N, L12, L23, L31 when ordering double pole MCCBs
 (3) 4 SP ways used, requires shrouding kit, see page 00.
 (4) 6 SP ways used, requires shrouding kit, see page 00, **MGPBB25** 1/2 pole shrouding plate.
 (5) When fitting 400A & 630A breakers a side extension box will almost certainly be required.
 (6) 30A for SP and DP, 32A for 3 and 4P.
 (7) For full discrimination with downstream C60H MCBs use **MGP1013** (3 pole) or **MGP1014** (4 pole)

Disconnectable neutral link	250A	630A
	MGP250NL (1 SP way)	MGP630NL (2 SP ways and requires MGPBB25 1/2 pole shrouding plate)



3 Pole MCCB

Step 4. Select panelboard accessories

Single pole blanking plate	MGPBBP (each panelboard is supplied with 3 blanks)			
Side extension box for	6 way	12 way	18 way	
	250mm	MGPXC206	MGPXC212	MGPXC218
	500mm	MGPXC506	MGPXC512	MGPXC518
Top/bottom 200mm ext. box	MG6CEX	MG6CEX	MG6CEX	
Shrouding kit	MGPCH6	MGPCH12	MGPCH18	
2 spare door keys	MGK33			

Step 5. Select MCCB accessories

For the range of MCCB accessories available, refer to page 32 to 34.

For fully dimensioned drawings see section 8.

Corner units

For squaring off a panelboard when a top or bottom extension and side extension is used together.

Extension box		
Top/bottom	Side	Part N°
200	250	MGPC2025
200	500	MGPC2050
400	250	MGPC4025
400	500	MGPC4050

A 400mm extension box is fitted as standard at the incoming end of the board.

Powerpact 4

1600A panelboards

Application

The floor mounted Powerpact 4 is the easy answer to large power requirements. It provides an off-the-shelf solution to switchboard style standard distribution applications.

Range

- Incoming: up to 1600A
- Outgoing: 14TP ways (42 SP ways)
- Top or bottom main cable entry
- Incoming metering included as standard. Outgoing metering an option.

Technical data

- Manufactured and tested to BSEN60439-1
- Busbars rated at 1600A at 415V, 50Hz
- Short circuit withstand 50kA for 1s
- Rigid folded sheet steel construction with removable gland plates and end covers
- Steelwork finished in polyester epoxy powder, cream colour RAL9001
- Degree of protection: IP30
- Form 3b type 2 as standard
- Form 4b types 2 & 6 can be achieved by use of individual disconnectable neutral links adjacent to breakers or by the use of 4 pole breakers. Tunnel terminals are to be fitted on the breaker outgoing terminals and shrouded by short terminal shields.
- A side extension cubicle is available as an option for handling large cables

Metering

- A PowerLogic PM700PMG multi function digital meter is fitted as standard to monitor the incoming supply. Readings available voltage, current, frequency, power, energy, demand values and harmonic distortion. The meter also provides a pulse output for kWh and kVAh.
- A side extension cubicle may be fitted that has provision for metering all outgoing circuits. For details see Section 5. This cubicle also acts as a cable extension box.

Dimensions

- mm

	Panelboard	with extension cubicle
Width	1256	1656
Height	2106	2106
Depth	450	450
Weight	375kg	+30kg

Dimension of main terminals from gland plate 708mm
Main terminals will accept up to 3 lugs 400mm² per phase



1600A panelboard with plain extension cubicle

NS moulded case circuit breakers

Powerpact 4 panelboards have a unique interconnection system which automatically gives the correct torque settings. 1, 2, 3, and 4 pole devices may be mixed to suit the installation needs without loss of space.

Technical data for circuit breakers

- Manufactured and tested to BS EN 60947-2
- Ics = 100% Icu
- Calibration temperature 40°C
- Thermal adjustment (3 and 4 pole)
 - 16 - 250A = 0.8 - 1 x In
 - 400 - 630A = 0.4 - 1 x In
 - 1250 - 2000A = 0.4 x In

MCCB	Icu	Terminal size
16 - 100A	25kA	6mm bolt
160 - 250A	36kA	8mm bolt
400 - 630A	45kA	10mm bolt

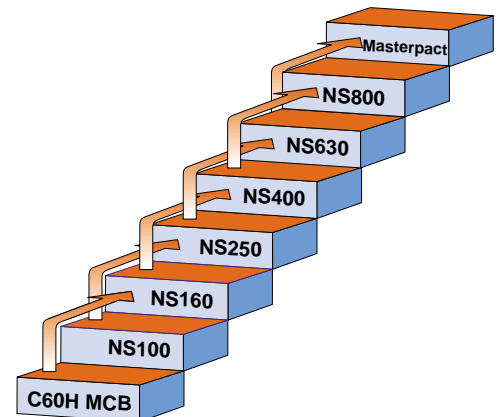
Earth fault protection

- May be added to any 4 pole MCCB
- Sensitivities 30, 300mA 1, 3, 10A
- Time delay 0, 60, 150, 310 milli - seconds

Full technical specifications can be obtained from our Compact NS moulded case circuit breaker catalogue Ref. No. MGLV5558.

If you require higher breaking capacities, electronic trip or motor protection MCCBs refer to page 18.

Full discrimination simply by missing a step.



Step 1. Select panelboard required

Main cable entry	14 TP ways	Plain extension cubicle	Metering extension cubicle
Bottom	MG16C14	MG16CEX4	MG16CEM4
Top	MG16C14T	MG16CEX4	MG16CEM4

Step 2. Select incoming device

	All boards accept 3 or 4 pole incomers	
	3 pole	4 pole
NS1250N MCCB with Micrologic 5.0 control unit	33564	33566
NS1600N MCCB with Micrologic 5.0 control unit	33568	33570
NS1250NA switch disconnecter	33489	33494
NS1600NA switch disconnecter	33490	33495

Many other options are available for these incoming units including rotary handles, electrical operators, auxiliary switches, voltage releases and other control units. Please specify at time of order.
The Micrologic 5.0 unit is recommended to ensure discrimination with outgoing breakers

Step 3. Select outgoing MCCBs

Current rating (A)	Part N° SP	2P	3P	4P
16	MGP0161 (1)	MGP0162 (2)	MGP0163	MGP0164
25	MGP0251 (1)	MGP0252 (2)	MGP0253	MGP0254
30/32 (5)	MGP0301 (1)	MGP0302 (2)	MGP0323	MGP0324
40	MGP0401 (1)	MGP0402 (2)	MGP0403	MGP0404
63	MGP0631 (1)	MGP0632 (2)	MGP0633	MGP0634
80	MGP0801 (1)	MGP0802 (2)	MGP0803	MGP0804
100	MGP1001 (1)	MGP1002 (2)	MGP1003 (6)	MGP1004 (6)
125	MGP1251 (1)	MGP1252 (2)	MGP1253	MGP1254
160	MGP1601 (1)	MGP1602 (2)	MGP1603	MGP1604
200			MGP2003	MGP2004
250			MGP2503	MGP2504
400			MGP4003 (3)	MGP4004 (4)
630			MGP6303 (3)	MGP6304 (4)

(1) Add suffix L1, L2, L3 when selecting single pole MCCBs

(2) Add suffix L1N, L2N, L3N, L12, L23, L31 when ordering double pole MCCBs

(3) 4 SP ways used

(4) 6 SP ways used, requires shrouding kit and **MGPBB25** 1/2 pole shrouding plate.

(5) 30A for SP and DP, 32A for 3 and 4P.

(6) For full discrimination with downstream C60H MCBs use **MGP1013** (3 pole) or **MGP1014** (4 pole)

Disconnectable neutral link	250A	630A
	MGP250NL	MGP630NL
	(1 SP way)	(2 SP ways and requires MGPBB25 1/2 pole shrouding plate)

Step 4. Select panelboard accessories

Single pole blanking plate	MGPBBP	Each board is supplied with 6 blanks
Side extension boxes	see above	More than one extension cubicle may be fitted if required

Step 5. Select MCCB accessories

For the range of MCCB accessories available refer to pages 32 to 33.

Powerpact 4

Accessories



29211

Residual current protection modules

Using 4 pole residual current add-on modules (Vigi block) for incoming or outgoing ways (requires a 4 pole MCCB).

Frame rating	Earth leakage tripping current options (A)	Current rating MCCB	Vigi module Part N°.
Up to 160A	0.03 - 0.3 - 1 - 3 - 10 *	NS100/160	29211
200 - 250A	0.03 - 0.3 - 1 - 3 - 10 *	NS250	31536
400 - 630A	0.3 - 1 - 3 - 10 - 30 *	NS400/630	32456

* Time delay setting (ms) 0 - 60 - 150 and 310 (30mA - instantaneous only).

(i) For combinations of items of RCDs, metering and remote metering please contact us for further information.



29455

Ammeter

3 phase ammeter complete with CT's (mounted on the breaker). Can be fitted on incoming or outgoing device.

Current rating	Part N°.	
	3 Pole	4 Pole
NS100	29455	29456
NS160	30555	30556
NS250	31565	31566
NS400	32655	32656
NS630	32855	32856



Metering facility

3 phase current transformer module with voltage measurement outputs

Fits directly on the terminals of the breaker.

The voltage measurement outputs have inbuilt protection with automatic reset

Suitable for use with the PowerLogic range of meters

Breaker	CT ratio	VA output	Class at VA output	Part No.	
				3 pole	4 pole
NS100	125/5	1.1	1.0	29461	29462
NS160	150/5	1.1	1.0	30561	30562
NS250	250/5	1.1	0.5	31569	31570
NS400	400/5	2.0	0.5	32653	32654
NS630	600/5	2.0	0.5	32861	32862



29457

Current transformer module

3 phase current transformer module

Fits directly on the terminals of the breaker.

Breaker	CT ratio	VA output	Class at VA output	Part No.	
				3 pole	4 pole
NS100	100/5	1.6	3.0	29457	29458
NS160	150/5	3.0	3.0	30557	30558
NS250	250/5	5.0	3.0	31567	31568
NS400	400/5	8.0	3.0	32657	32658
NS630	600/5	8.0	3.0	32857	32858



MCCB + Motor operator

Motor operator module

All 3 pole and 4 pole breakers up to 250A can be fitted with a motor operator mechanism allowing remote opening and closing of the circuit breaker.

Operating voltages

50Hz a.c. 48 - 415V

d.c. 24 - 250V

Specify requirements at time of ordering the breaker.



MCCB + Rotary handle

Rotary handles with inbuilt padlocking facilities

(for 3 or 4 pole devices only)

Current rating	Black	Red/Yellow
Up to 250A	29337	29339
400/630A	32597	32599

Toggle padlocking attachments clip fixing in OFF position

Current rating	Removable	Fixed
250A	29370	29371
630A	29370	32631
800A	44936	32631



29242

Connection accessories

Bare cable connectors

Capacity	Breaker rating (max.)	Part N° set of 3	Part N° set of 4
1.5 - 95mm ²	160	29242	29243
10 - 185mm ²	250	29259	29260
35 - 300mm ²	630	32479	32480
2 x 95 - 240mm ²	630	32481	32482

Crimp cable lugs (supplied with phase barriers)

120mm ² copper	250	29252	29256
150mm ² copper	250	29253	29257
185mm ² copper	250	29254	29258
240mm ² copper	630	32500	32501
300mm ² copper	630	32502	32503
150mm ² aluminium	250	29504	29505
185mm ² aluminium	250	29506	29507
240mm ² aluminium	630	32504	32505
300mm ² aluminium	630	32506	32507



31564

Spreaders

A	Pole pitch mm	Quantity	Part N°
250	45	Set of 3	31563
250	45	Set of 4	31564
630	52.5	Set of 3	32490
630	52.5	Set of 4	32491



29450

Auxiliary switch (for 3 or 4 pole devices only)

For all MCCBs. Used to indicate open, closed or tripped status.

SDE adaptor required for trip unit devices up to 250A TM or MA (to indicate trip on overcurrent).

If you need to indicate open, closed **and** tripped status, **two** auxiliary switches will be needed.

	Part N°
Auxiliary changeover switch	29450
SDE adaptor	29451



29387

Voltage releases to fit all MCCBs 16/630A (for 3 or 4 pole devices)

AC 50/60Hz:

Voltage (V)	Part N° Shunt trip	Part N° Undervoltage release
200/240	29387	29407
380/415	29388	29408

Other voltages available - refer to Compact NS catalogue.



Terminal shields

Terminal shields (supplied in pairs)

Current rating (A)	Part N°
Up to 160 A single pole and 250A neutral link	29320
Up to 160A 2 pole	29320 x 2
Up to 250A 3 pole	29323
Up to 250A 4 pole	29324
Up to 400/630A 3 pole	32564
Up to 400/630A 4 pole	32565

For shielding a TP MCCB with neutral link use the 4 pole terminal shield.



MGPBBP

Single pole shrouding plates

MGPBBP

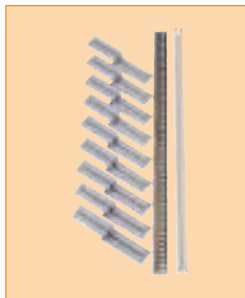
Single pole shrouding plates are required for each unoccupied outgoing way.

MGPBB25

In addition a 25mm shrouding plate is always required when 4 pole 400A or 630A circuit breakers are mounted on the outgoing pan assembly.

Powerpact 4

Accessories



MGPSHR6

Shrouding kit (400/630A and 800A panelboards only)

Provides additional support for device and shrouding for front cover. One shrouding kit must be used per side when fitting either outgoing 400/630AMP MCCBs or outgoing ammeter and/or earth leakage protection. In addition to the shrouding kit an additional 25mm three stage filler piece is required when 4 pole 400A or 630AMP circuit breakers are fitted on the outgoing pan assembly **MGPTSF25**.

Number of outgoing ways		Shrouding kit Part N°.
SP	TP	
18	6	MGPCH6
36	12	MGPCH12
54	18	MGPCH18



MGPEXS6

Extension boxes

Top/bottom

For spreading large cables, mounting current transformers or control gear.

Side

Provides additional cabling space or space for mounting current transformers or metering.

Corner

Allows a board to be squared off when a top/bottom extension and a side extension are fitted to a panelboard.

Note

The use of side extension boxes is recommended when 400/630A outgoers are fitted. When outgoing circuits have earth fault protection or direct ammeters a side extension box and shrouding kit must be fitted.

For ordering references, see Panelboard Selection pages 22 - 29.



Integrated control and distribution system (ICDS)

Side mounted on 400 - 800A panelboards.

The ICDS unit offers the facility to incorporate MCBs, and command and control products into a single integrated unit.

The ICDS has mounting rails to accept:

- An Isobar 4 TP&N pan assembly
- An Isobar 4 SP&N pan assembly or a DIN rail to accept 34 x 9mm modules
- A tray for control gear

Order references

To fit 6 way panelboard	
Enclosure	MGPXCA6
Pan assemblies	
8 way TP&N	MGBN8E
15 way SP&N	MGAN15P

To fit 12 way panelboard	
Enclosure	MGPXCA12
Pan assemblies	
16 way TP&N	MGBN16E
15 way SP&N	MGAN15P

The Isobar 4c pan assemblies need to be ordered seperately

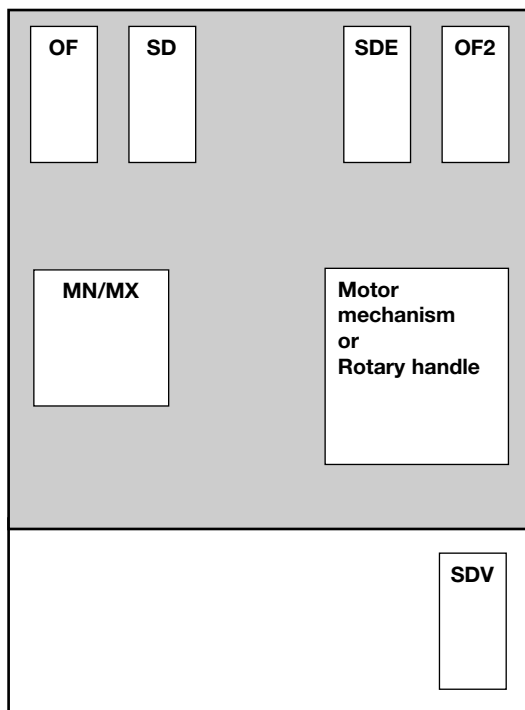
Replacement items

Door and cover assembly		
250A powerboard	9 way	MG25FCC2
	13 way	MG25FCC4
	9 way + metering	MG25FCC2M
	13 way + metering	MG25FCC4M
400/630A panelboard	18 way	MG6FCC6
	36 way	MG6FCC12
	54 way	MG6FCC18
800A panelboard	18 way	MG8FCC6
	36 way	MG8FCC12
	56 way	MG8FCC18
Gland plate for 400/630/800A panelboard		MGPGPC8
Door lock kit up to 800A		MGPP4S007
2 spare door keys		MGK33
Touch up paint RAL9001	Spray	08962
	Brush	08961
Adhesive drawing pocket	RAL9001	08963

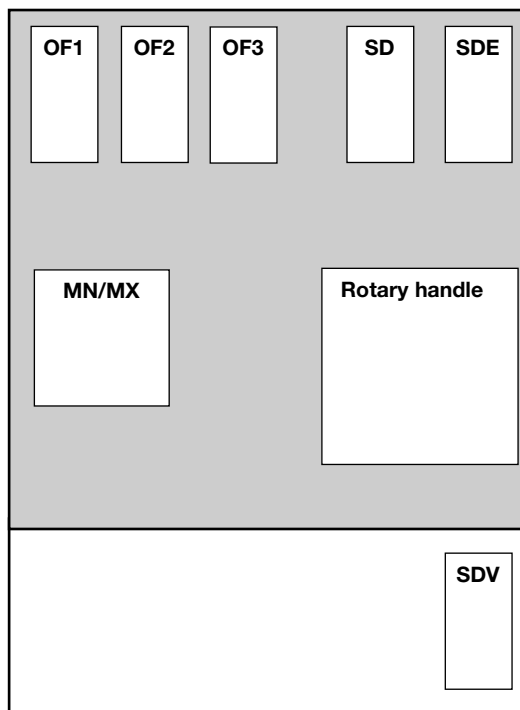
Powerpact 4

Auxiliary function possibilities

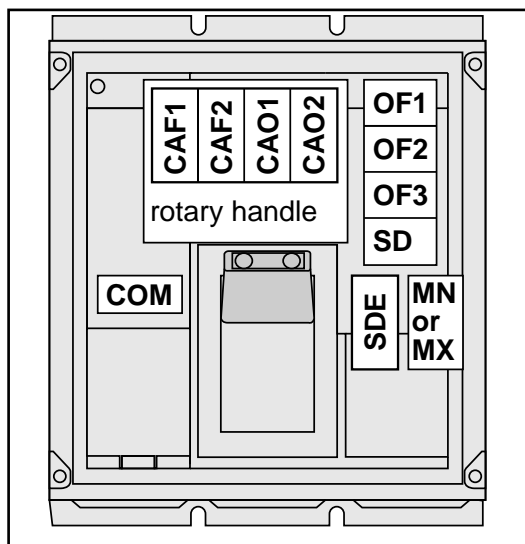
NS100/160/250



NS400/630



NS800/1600



Manually operated device

- OF** - Changeover auxiliary contact
- SD** - Changeover alarm switch
- MX** - Shunt trip
- MN** - Undervoltage release
- SDE** - Fault alarm
- SDV** - Earth fault alarm
- CAF** - Early make auxiliary contacts (with rotary handle)
- CAO** - Early break auxiliary contacts (with rotary handle)
- COM** - Communications function

All accessories are capable of being fitted on site.
Full details may be obtained from the Compact NS
moulded case circuit breaker catalogue
Ref. No. PB 5079.



Metering facilities for incoming & outgoing devices	38
PowerLogic power meter series PM700MG	41

Powerpact 4

Metering facilities for incoming and outgoing circuits

The Merlin Gerin range of panelboards includes the facilities for metering incoming and outgoing circuits of panelboards, using standard components that can be added to boards during installation. No longer is there a need to have panels specially manufactured on long lead times.

Application

To meet the requirements of Part L2 of the Building Regulations it is necessary for building owners and/or occupiers to monitor and control the energy used in every building. It is recommended that electrical distribution boards having a load of 50kW or more should have separate metering. On a three phase 400V supply this equates to 70A per phase so is likely to cover most loads from a panelboard with 630A incoming supply.



Power meter

All kits either use or recommend the use of Merlin Gerin PM700 range of multi-function power meters. There are 3 models

- PM700MG** Basic meter
- PM700PMG** as the PM700MG but with pulse outputs for kWh and kVarh
- PM710MG** as the PM700MG but with MODBUS communications.

For full details of these meters please refer to page 41

As standard, the meter fitted into incoming meter kits is the PM700PMG with pulse outputs. The meter accuracy is 0.5% of reading from 20% to 120% for current and voltage and 1% for power. The real energy reading complies with IEC 62053-21 Class 1.

The meter is in a DIN sized 96 mm sq. case fitting into a 92 mm sq. aperture.

Power meter inputs

The NS moulded case circuit breakers up to 630A have current transformer modules that fit directly on to the load terminals of the breaker. As well as the current transformer coils they also have self protected voltage connections off each phase. This eliminates the need to have additional overcurrent protection on these circuits. The meter is wired direct from this CT module without the need for any intermediate devices.



MG25C2M

Panelboard configurations

250A Powerboard.

There are two versions of this equipment, basic or with the facility to have metering.

The meter versions allow metering to be added to any 3 or 4 pole MCCB fitted in the board. All components are easily fitted; there are no extension boxes to fit or apertures to cut.

The meters are positioned behind the overall lockable door preventing unauthorised access to the meters. MG25P2M has 4 apertures, MG25P4M has 5.

Note: the meters and CT modules must be ordered separately. The wiring looms to link the CT modules to the meters are included with the panelboards

Metering options are not available for the 250A panelboard. It is recommended that a MG6Pxx board is used with a 250A incomer

Ordering references

250A Powerboard with metering facility

13 SP positions	MG25C2M
17 SP positions	MG25C4M

630 & 800A Panelboards

Incoming metering

This is easily added to a board when it is first being installed. The kit comprises an extension box that houses the meter and, when fitted to the same end of the board as the incomer, provides additional space for the main incoming cables. All components including the meter, CTs and wiring is included in the kit. The meter is fully set up for the CT ratio and the voltage configuration.

Outgoing circuit metering

Metering can be fitted to some or all of the three phase outgoing circuits on 630A & 800A boards whether the boards are fitted with incoming metering or not.

Metering facilities for incoming and outgoing circuits

The arrangement consists of side extension boxes that house the meters and also provide additional cabling space. Meters and current transformers are ordered separately to meet the needs of the installation. The necessary cable looms are included with the steelwork.

The meters are mounted on hinged doors. The box also contains the auxiliary busbar that provides the 240V control supply for the meters.

The left hand extensions have sufficient meter positions for half the number of outgoing ways. The right hand extensions have positions for half the number of outgoing ways plus three additional positions. These extra positions may be used for additional metering or mounting surge arresters, control fuses etc. The lower two positions have a transparent window and DIN rail. This can be removed if not required.

Note: the meters, CT modules and surge arresters must be ordered separately

Incoming and outgoing metering for boards up to 630A

(This arrangement is not applicable for boards fitted with MG PINC direct connections).

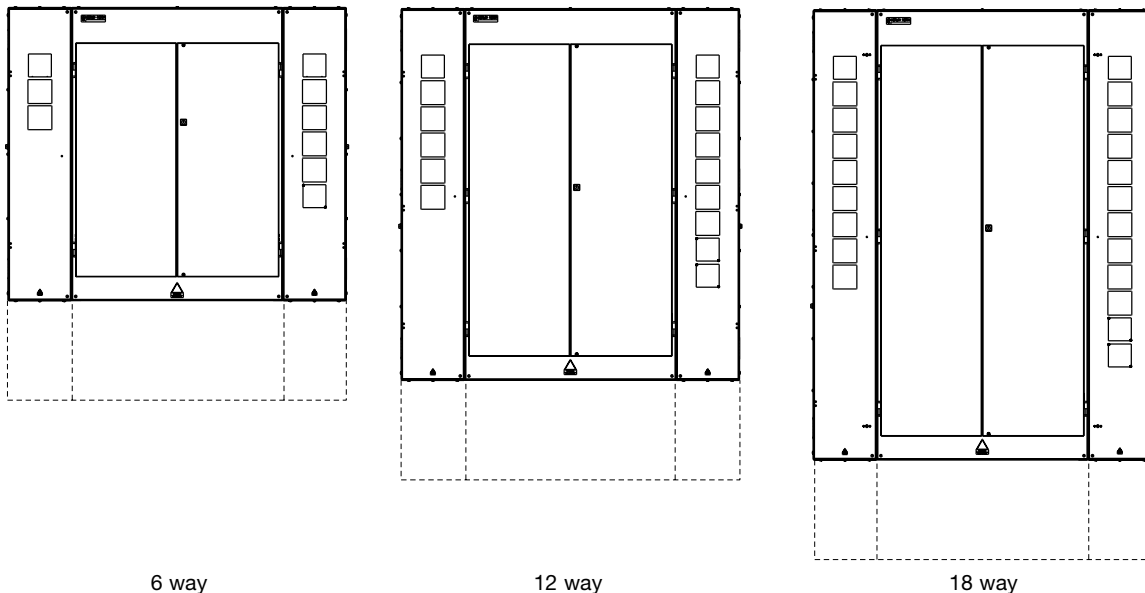
When both incoming and outgoing metering is required there is a very cost effective solution by incorporating the incoming metering into the right hand side extension box. Components required are

- Standard extension box MG6PEX to provide the required cable spreading space
- Current transformer module to fit on line side of incoming breaker. See details on page 40.
- PM700 meter.
- Two MSPP12 corner units, optional

The meter should be cabled to the CT module according to the diagram supplied. (loom not supplied)

The auxiliary supply to the meter should be taken from one phase and neutral and must be suitably fused.

Note. A warning notice should be placed in the board as the voltage connections are taken off the live side of the main breaker.



MG6Pxx 630A board

Incoming metering kit	400A	MG64M
	630A	MG66M

MG8Pxx 800A board

Incoming metering kit	800A	MG88M
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630A & 800A outgoing metering side extension boxes

6 way board	left hand side (*)	3 meter positions	MGPCM6L
	right hand side (*)	6 meter positions	MGPCM6R
12 way board	left hand side (*)	6 meter positions	MGPCM12L
	right hand side (*)	9 meter positions	MGPCM12R
18 way board	left hand side (*)	9 meter positions	MGPCM18L
	right hand side (*)	12 meter positions	MGPCM18R

(*) When the board is inverted for top entry main cables these side extensions fit on the other side of the board

Powerpact 4

Metering facilities for incoming and outgoing circuits

1600A Panelboards

Incoming metering

A PM700PMG meter is fitted as standard in the boards. The meter is fully set up for use on a 415V 3ph 4 wire system and for use with the 1600/5 current transformers that are installed on the busbars.

Outgoing circuit metering

Metering can be fitted to some or all of the three phase outgoing circuits in these boards. The arrangement consists of a side extension cubicle that houses the meters and also provides additional cabling space. Meters and current transformers are ordered separately to meet the needs of the installation. The necessary cable looms are included with the cubicle.

The meters are mounted on the front, hinged cover of the cubicle and can be aligned with their associated breaker.

The cubicle also contains the auxiliary busbar that provides the 240V control supply for the meters

1600A Panelboard

Side extension cubicle

MG16CEM4



1600A panelboard with metering on side extension

Current transformer modules for direct fitting to NS breakers in all boards

Breaker	Poles	CT ratio	Reference
NS100	3	125/5	29461
NS100	4	125/5	29462
NS160	3	150/5	30561
NS160	4	150/5	30562
NS250	3	250/5	31569
NS250	4	250/5	31570
NS400	3	400/5	32653
NS400	4	400/5	32654
NS630	3	600/5	32861
NS630	4	600/5	32862

Unused 92 x 92 metering apertures can be blanked off using Part No. **03908**

The PowerLogic power meter series 700 is an inexpensive and compact 96 x 96 mm unit that offers all the basic measurement capabilities required to monitor an electrical installation. With its large easy-to-read display, the meter can display all three phases and neutral at the same time. The anti-glare and scratch resistant display features an intuitive interface with self-guiding menus. A unique green back light and large numbers make it easy to read even in extreme lighting conditions and viewing angles.

The PM700 product offering consists of three models, each with an integrated display and providing metering measurements including THD and min/max values. The unit models include a basic metering unit, a unit with an RS 485 Modbus communication port, or a unit with 2 pulse outputs.



Applications

- Panel instrumentation
- Submetering and cost allocation
- Remote monitoring of an electrical installation
- Harmonic monitoring (THD)
- Contract optimisation and load profiling

Characteristics

Large, easy-to-read display

- Multiple values displayed at the same time on an anti-glare display featuring a green back-light

Easy to operate

- Intuitive navigation with context-sensitive menus for easy use

Only 50mm deep

- Measures 96 x 96 x 50 mm including connectors and Modbus communications

Energy class 1 as defined by IEC 61036

- Sufficient accuracy for submetering and cost allocation

Power, current demand, THD, min/max

- Expanded metering data for the cost of analog metering

Description	Part number
PM700/700P/710	
Power Meter with THD, min/max	PM700MG
Power Meter with THD, min/max, 2 pulse outputs	PM700PMG
Power Meter with THD, min/max, RS 485 communications	PM710MG

Instantaneous rms values

Current	I	per phase, neutral, average of 3 phases
Voltage	V	per phase, average of 3 phases
Frequency	F	45 to 65 Hz
Active power	W	total and per phase
Reactive power	VAr	total and per phase
Apparent power	VA	total and per phase
Power factor	PF	0 to 1

Energy values

Active energy	Wh	up to 1.84×10^{18} Wh
Reactive energy	VAr	up to 1.84×10^{18} Wh
Apparent energy	VA	up to 1.84×10^{18} Wh

Demand values

Current	I	per phase (thermal)
Active power	W	total in time block
Reactive power	VAr	total in time block
Apparent power	VA	total in time block

Maximum demand values

Current	I	phase
Active power	W	total
Reactive power	VAr	total
Apparent power	VA	total

Power quality values

Total harmonic distortion	%	current and voltage (L-L & L-N)
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PM700PMG, as PM700MG plus

Pulse outputs	pulse duration and weight adjustable
Active energy	solid state relay
Reactive energy	solid state relay

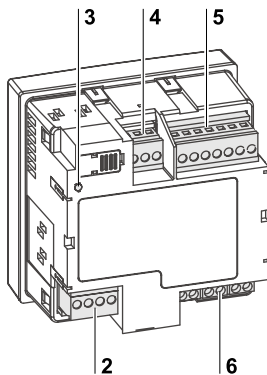
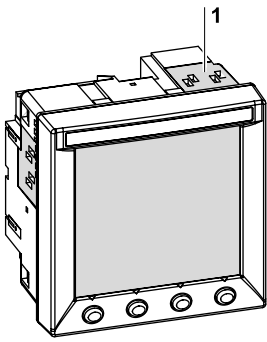
PM710MG, as PM700MG plus

Communicating meter	
RS485 link	2 - wire
Communication protocol	MODBUS RTU



PM700 series back view

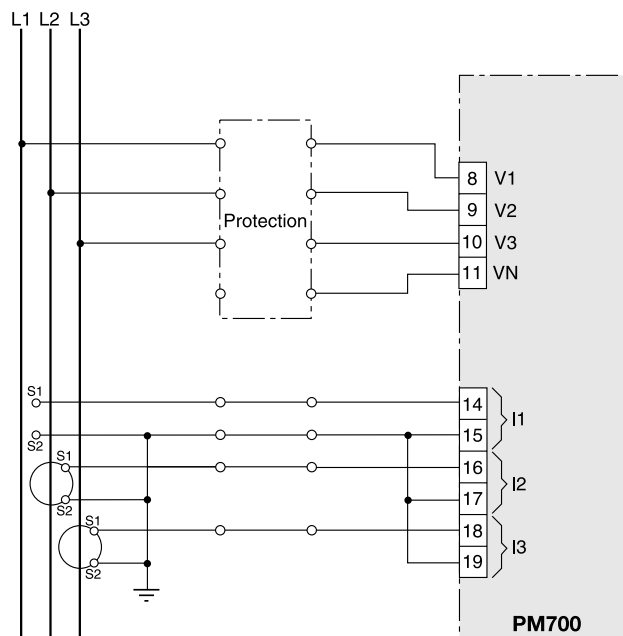
Electrical characteristics		
Type of measurement		True rms up to the 15th harmonic On three-phase AC system (3P 3P + N) 32 samples per cycle
Measurement accuracy	Current and voltage	0.5 %
	Power	1 %
	Frequency	± 0.01 Hz from 45 to 65 Hz
	Real Energy	IEC 61036 Class 1
	Reactive Energy	IEC 61036 Class 2
Data update rate		1 s
Input-voltage characteristics	Measured voltage	10 to 480 V AC (direct L-L) 10 to 277 V AC (direct L-N) 0 to 3.2 MV AC (with external VT)
	Metering over-range	1.2 Un
	Impedance	2 MΩ (L-L) / 1 MΩ (L-N)
	Frequency range	45 to 65 Hz
Input-current characteristics	CT ratings	Primary Adjustable from 5A to 65534 A Secondary 5 A starting at 10 mA
	Measurement input range	0 to 6 A
	Permissible overload	15 A continuous 50 A for 10 seconds per hour 120 A for 1 second per hour
	Impedance	< 0.1 Ω
Control Power	Load	< 0.15 VA
	AC	110 to 415 ±10 % V AC, 5 VA
	DC	125 to 250 ±20 % V DC, 3 W
	Ride-through time	100 ms at 120 V AC
Output	Pulse output	PM700P Static output (240 ±10 % V AC or 300 ± 10% V DC, 100 mA max. @ 25 °C, derate 0.56 mA per °C above 25°C) 2.41 kV rms isolation
Mechanical characteristics		
	Weight	0.37 kg
	IP degree of protection (IEC 60529)	IP52 front display, IP30 meter body
	Dimensions	96 x 96 x 88 mm (meter with display) 96 x 96 x 50 mm (behind mounting surface)
Environmental conditions		
Operating temperature	Meter	-0 °C to +60 °C
	Display	-10 °C to +50 °C
Storage temp.	Meter + display	-40 °C to +85 °C
Humidity rating		5 to 95 % RH at 50 °C (non-condensing)
Pollution degree		2
Metering category		III, for distribution systems up to 277 V L-N / 480 V AC L-L
Dielectric withstand		As per EN61010, UL508
Electromagnetic compatibility		
Electrostatic discharge		Level III (IEC 61000-4-2)
Immunity to radiated fields		Level III (IEC 61000-4-3)
Immunity to fast transients		Level III (IEC 61000-4-4)
Immunity to impulse waves		Level III (IEC 61000-4-5)
Conducted immunity		Level III (IEC 61000-4-6)
Immunity to magnetic fields		Level III (IEC 61000-4-8)
Immunity to voltage dips		Level III (IEC 61000-4-11)
Conducted and radiated emissions		CE commercial environment/FCC part 15 class B EN55011
Harmonics emissions		IEC 61000-3-2
Flicker emissions		IEC 61000-3-3
Safety		
Europe		CE, as per IEC 61010-1
U.S. and Canada		UL508
Communication		
RS 485 port 2-wire, up to 19200 bauds, Modbus RTU		
Firmware characteristics		
Min./max.		Worst min. and max. with phase indication for voltages, currents, voltage unbalance, and THD. Min. and max. values for power factor (True and Displacement), power (P, Q, S) and frequency
Firmware update		Update via the communication ports
Display characteristics		
Dimensions 73 x 69mm		Back-lit green LCD (6 lines total, 4 concurrent values)



- 1 Mounting slots
- 2 RS485 communications (450C) or 2 pulse outputs (450P)
- 3 Heartbeat LED
- 4 Control power
- 5 Voltage inputs
- 6 Current inputs

Selection guide		PM700	PM710	PM700P
General				
Use on LV and HV systems		■	■	■
Current and voltage accuracy		0.5%	0.5%	0.5%
Energy and power accuracy		1.0%	1.0%	1.0%
Instantaneous rms values				
Current, voltage, frequency		■	■	■
Active, reactive, apparent power	Total and per phase	■	■	■
Power factor	Total	■	■	■
Energy values				
Active, reactive, apparent energy		■	■	■
Demand values				
Current	Present and max.	■	■	■
Active, reactive, apparent power	Present and max.	■	■	■
Setting of calculation mode	Block, sliding block, rolling block	■	■	■
Data recording				
Min/max of instantaneous values		■	■	■
Display and I/O				
Backlit LCD Display		■	■	■
Pulse output		-	-	2
Communication				
RS 485 port		-	2 wire	-
Modbus protocol		-	■	-

4 wire connection with 3 CT's and no VT



Outgoing devices	46
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Powerpact 4 pan assemblies

630A or 800A busbar ratings

Outgoing devices



3 pole outgoing MCCB

Application for outgoing MCCBs

Outgoing MCCBs are supplied complete with totally shrouded busbar connections and the following trip units as standard: Up to 250A - thermal magnetic (TM) trip units. 400 to 630A - STR225E electronic trip units. Other trip units (motor, generator, earth fault & transformer applications) are available on request. Please contact us for further information. One MCCB direct connection can be used as an incomer when used with incoming pan assembly.

Outgoing MCCBs

Current rating (A)	Part N°.			
	SP	2P	3P	4P
16	MGP0161 (1)	MGP0162 (2)	MGP0163	MGP0164
25	MGP0251 (1)	MGP0252 (2)	MGP0253	MGP0254
30/32 (6)	MGP0301 (1)	MGP0302 (2)	MGP0323	MGP0324
40	MGP0401 (1)	MGP0402 (2)	MGP0403	MGP0404
63	MGP0631 (1)	MGP0632 (2)	MGP0633	MGP0634
80	MGP0801 (1)	MGP0802 (2)	MGP0803	MGP0804
100	MGP1001 (1)	MGP1002 (2)	MGP1003 (7)	MGP1004 (7)
125	MGP1251 (1)	MGP1252 (2)	MGP1253	MGP1254
160	MGP1601 (1)	MGP1602 (2)	MGP1603	MGP1604
200			MGP2003	MGP2004
250			MGP2503	MGP2504
400 (5)			MGP4003 (3)	MGP4004 (4)
630 (5)			MGP6303 (3)	MGP6304 (4)

(1) Add suffix L1, L2, L3 when selecting single pole MCCBs.

(2) Add suffix L1N, L2N, L3N, L12, L23, L31, when ordering double pole MCCBs.

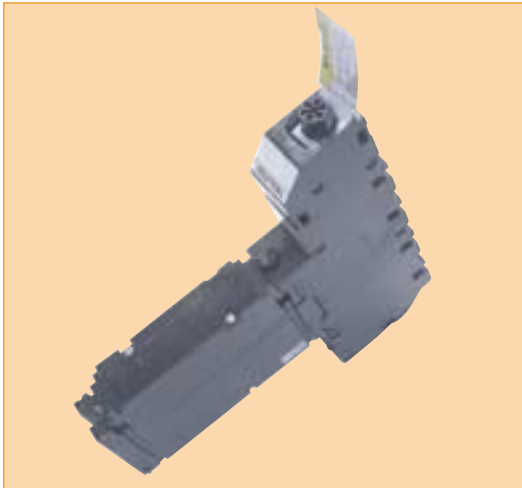
(3) 4 SP ways used, requires shrouding kit, see page 49.

(4) 6 SP ways used, requires shrouding kit, see page 49, **MGPBB25** 1/2 pole shrouding plate.

(5) When fitting 400A & 630A breakers a side extension box may be required.

(6) 30A for SP and DP, 32A for 3 and 4P.

(7) For full discrimination with downstream C60H MCBs, use **MGP1013** (3 pole) or **MGP1014** (4 pole).



MGP250NL

Outgoing disconnectable neutral link Offers SP&N and TP&N facility

Current rating (A)	Part N°.
100/250	MGP250NL (1 SP way)
400/630 (4)	MGP630NL (2 SP ways)

(4) Requires **MGPBB25** 1/2 pole shrouding plate.



Outgoing pan assembly

Pan assemblies provide easy to connect high density connection independent of device mix for mounting of moulded case circuit breakers into a low voltage power distribution switchboard. Can be fed from the side or bottom fed using incoming pan assembly.

Outgoing pan assembly

SP ways	Part N°.	
	630A busbar	800A busbar
18	MG6PAC6	MG8PAC6
36	MG6PAC12	MG8PAC12
54	MG6PAC18	MG8PAC18
72	MG6PAC24	MG8PAC24
90	MG6PAC30	MG8PAC30

Powerpact 4 pan assemblies

630A or 800A busbar ratings

Incoming devices



4 pole incoming MCCB

Incoming device

Current rating (A)	Part N°.		Part N°.	
	MCCBs		Switch disconnectors	
	3P	4P	3P	4P
250	MGP2503	MGP2504	MGP2503NA	MGP2504NA
400	MGP4003	MGP4004	MGP4003NA	MGP4004NA
630	MGP6303	MGP6304	MGP6303NA	MGP6304NA
800	33466	33469	33487	33492

Direct connection

Rating	Part N°.
630A	MGPINC + MG6PACN

Technical data

- Trip units: 250A -630A - (as outgoing devices)
800A - Micrologic 2.0 electronic trip unit. Other trip units available on request. Please contact us for further information
- 250 to 630A units can be mounted directly to the pan assembly or mounted vertically at the bottom, in conjunction with the incoming pan assembly (**MG6PACN**)
- Pan assemblies can be fed at the top using a top entry breaker, refer to page 37
- 800A unit can only be mounted vertically in conjunction with the incoming pan assembly **MG8PACN3** (3 pole) or **MG8PACN4** (4 pole)
- Incoming terminal shields should always be fitted with MCCB or switch disconnector incoming devices
- Manual source changeover system can be achieved with rotary handles/key interlocks. Please contact us for further information
- Top entry incoming devices available on request. Please contact us for further information

Incoming pan assembly

Incoming section including mounting tray metal shroud and copper busbar 'T' section to allow cassetted breakers to feed pan from bottom.

Current rating (A)	Part N°.	
	3P	4P
630	MG6PACN	MG6PACN
800	MG8PACN3	MG8PACN4



Incoming pan assembly



Neutral bar kit

18 way neutral bar kit

Mounts on either side of incoming device when using incoming pan assembly. Includes disconnectable neutral link.

Type	Part N°.
630A	MG6PANKIT
800A	MG8PANKIT



Terminal shields

Terminal shields (supplied in pairs)

Current rating (A)	Part N°.
Up to 160 A single pole & 250A neutral link:	29320
Up to 160A 2 pole	29320 x 2
Up to 250A 3 pole	29323
Up to 250A 4 pole	29324
400/630A 3 pole	32564
400/630A 4 pole	32565

For shielding a TP MCCB with neutral link use the 4 pole terminal shield.



MGPBBP

Single pole shrouding plates

MGPBBP	MGPBB25
Single pole shrouding plates are always required for each unoccupied outgoing way.	In addition a 25mm shrouding plate is always required when 4 pole 400A or 630A circuit breakers are mounted on the outgoing pan assembly.

Powerpact 4 pan assemblies

630A or 800A busbar ratings

Accessories



29211

Residual current protection modules

Using 4 pole residual current add-on modules (Vigi block) for incoming or outgoing ways (requires a 4 pole MCCB).

Frame rating	Earth leakage tripping current options (A)	Current rating MCCB	Vigi module Part N°.
Up to 160A	0.03 - 0.3 - 1 - 3 - 10 *	NS100/160	29211
200 - 250A	0.03 - 0.3 - 1 - 3 - 10 *	NS250	31536
400 - 630A	0.3 - 1 - 3 - 10 - 30 *	NS400/630	32456

* Time delay setting (ms) 0 - 60 - 150 and 310 (30mA - instantaneous only).

(i) For combinations of items of RCDs, metering and remote metering please contact us for further information.



29455

Ammeter

3 phase ammeter complete with CT's (mounted on the breaker). Can be fitted on incoming or outgoing device.

Current rating	Part N°.	
	3 pole	4 pole
NS100	29455	29456
NS160	30555	30556
NS250	31565	31566
NS400	32655	32656
NS630	32855	32856



29457

Metering facility

3 phase current transformer module with voltage measurement outputs

Fits on directly on the terminals of the breaker.

The voltage measurement outputs have inbuilt protection with automatic reset

Suitable for use with the PowerLogic range of meters

Breaker	CT ratio	VA output	Class at VA output	Part No.	
				3 pole	4 pole
NS100	125/5	1.1	1.0	29461	29462
NS160	150/5	1.1	1.0	30561	30562
NS250	250/5	1.1	0.5	31569	31570
NS400	400/5	2.0	0.5	32653	32654
NS630	600/5	2.0	0.5	32861	32862



29457

Current transformer module

3 phase current transformer module

Fits directly on the terminals of the breaker.

Breaker	CT ratio	VA output	Class at VA output	Part No.	
				3 pole	4 pole
NS100	100/5	1.6	3.0	29457	29458
NS160	150/5	3.0	3.0	30557	30558
NS250	250/5	5.0	3.0	31567	31568
NS400	400/5	8.0	3.0	32657	32658
NS630	600/5	8.0	3.0	32857	32858



MCCB + Motor operator

Motor operator module

All 3 pole and 4 pole breakers up to 250A can be fitted with a motor operator mechanism allowing remote opening and closing of the circuit breaker.

Operating voltages

50Hz a.c.	48 - 415V
d.c.	24 - 250V

Specify requirements at time of ordering the breaker.



MCCB + Rotary handle

Rotary handles with inbuilt padlocking facilities

(for 3 or 4 pole devices only)

Current rating	Black	Red/Yellow
Up to 250A	29337	29339
400/630A	32597	32599

Toggle padlocking attachments clip fixing in OFF position

Current rating	Removable	Fixed
250A	29370	29371
630A	29370	32631
800A	44936	32631

Powerpact 4 pan assemblies

630A or 800A busbar ratings

Accessories



29242

Connection accessories

Bare cable connectors

Capacity	A	Quantity	Part N°.
1.5mm ² to 95mm ²	160	Set of 3	29242
1.5mm ² to 95mm ²	160	Set of 4	29243
10mm ² to 185mm ²	250	Set of 3	29259
10mm ² to 185mm ²	250	Set of 4	29260
35mm ² to 300mm ²	630	Set of 3	32479
35mm ² to 300mm ²	630	Set of 4	32480
2 x 95mm ² to 240mm ²	630	Set of 3	32481
2 x 95mm ² to 240mm ²	630	Set of 4	32482

Spreaders

A	Pole pitch mm	Quantity	Part N°.
250	45	Set of 3	31563
250	45	Set of 4	31564
630	52.5	Set of 3	32490
630	52.5	Set of 4	32491



29450

Auxiliary switch (for 3 or 4 pole devices only)

For all MCCBs up to 630A. Used to indicate open, closed or tripped status. SDE adaptor required for trip unit TM or MA (to indicate trip on overcurrent).

If you need to indicate open, closed **and** tripped status, **two** auxiliary switches will be needed.

	Part N°.
Auxiliary changeover switch	29450
SDE adaptor	29451



29387

Voltage releases to fit all MCCBs 100/630A

(for 3 or 4 pole devices)

AC 50/60Hz:

Voltage (V)	Part N°.	
	Shunt trip	Undervoltage release
200/240	29387	29407
380/415	29388	29408

Other voltages available - refer to Compact NS catalogue.



Front cover

Front cover (up to 18TP ways only)

Number of outgoing ways		Part N°.	Part N°.
SP	TP	630A interior	800A interior
18	6	MG6PAFC6	MG6PAFC6
36	12	MG6PAFC12	MG6PAFC12
54	18	MG6PAFC18	MG6PAFC18

Note: If RCD, metering, remote metering or 400/630A outgoing devices are fitted then a shrouding kit must be used.



MGPSHR6

Shrouding kit (with MG6 FC front covers only)

Provides additional support for device and shrouding for front cover. One shrouding kit must be used per side when fitting either outgoing 400/630AMP MCCBs or outgoing ammeter and/or earth leakage protection. In addition to the shrouding kit an addition a 25mm three stage filler piece is required when 4 pole 400A or 630AMP circuit breakers are fitted on the outgoing pan assembly **MGPTSF25**.

Number of outgoing ways		Shrouding kit Part N°.
SP	TP	
18	6	MGPCH6
36	12	MGPCH12
54	18	MGPCH18

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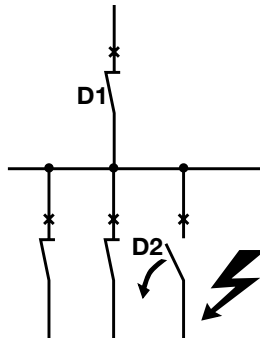
Technical information

Safepact 2 Motor loads

Safepact 2

Discrimination

The table below indicates where total discrimination exists between devices.



Upstream	Compact rating (A)		MGE1003	MGE1253	MGE1603	MGE2003	MGE2503	MGE4003	MGE6303
Downstream circuit breaker									
		Rating (A)							
multi 9	C60H	10 - 16	■	■	■	■	■	■	■
		20 - 25		■	■	■	■	■	■
		32 - 40		■	■	■	■	■	■
		50 - 63		■	■	■	■	■	■
Compact	NS80H	2.5 - 6.3	■	■	■	■	■	■	■
		12.5		■	■	■	■	■	■
		25 - 80			■	■	■	■	■
	NS100N	16 - 100				■	■	■	■
	NS160N	125 - 160						■	■
	NS250N	200 - 250							■

Note: For further information on this product range: consult us.

Guidance for motor loads

Specific “magnetic only” MCCBs are available for short circuit protection of motors. However, the standard MCCB may be used, as detailed below.

	Max motor size (kW)	Running current (A) @ 415V
16A	2.2	5.0
25A	3.7	7.5
40A	4	8.4
63A	9	17
80A	15	28
100A	22	40
125A	25	47
160A	33	60
200A	45	80
250A	69	128

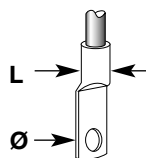
Note:

- These tables offer guidance only, for DOL starting assuming:
 - A starting current of 7 x FLC
 - Run-up time =8 seconds for motors
 - < 3kW
 - 10 seconds for motors
 - > 3kW
- The running current is a typical value and may vary from manufacturer to manufacturer.

Technical information

Powerpact 4 panelboards

Technical data



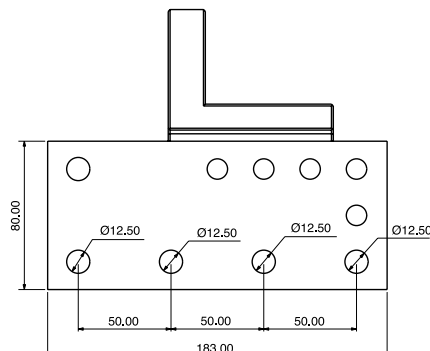
Possible terminal capacity for crimped lug (mm) @ L

Breaking capacity 415V

Current	device		Ø	@ L	Breaking capacity 415V
100A	MGP100	MCCB SP	6	25	25,000A @ 240V
100A	MGP100	MCCB TP	6	25	36,000A
100A	MGP125	MCCB TP	6	25	16,000A
160A	MGP160	MCCB TP	6	25	36,000A
250A	MGP250	MCCB	8	25	36,000A
	MGP250NA	Switch disconnector	8	25	-
400A	MGP400	MCCB	10	32	50,000A
	MGP400A	Switch disconnector	10	32	-
630A	MGP630	MCCB	10	32	50,000A
	MGP630NA	Switch disconnector	10	32	-
800A	NS800		12	44	50,000A
	NS800NA	Switch disconnector	12	44	-
	MGP INC	Direct connection	10	32	-
Outgoing	Earth connection	6	25mm tunnel	-	
Outgoing	Neutral connection	6	25	-	
Incoming	Earth connection	10	32	-	
Incoming	Neutral connection	12	40	-	

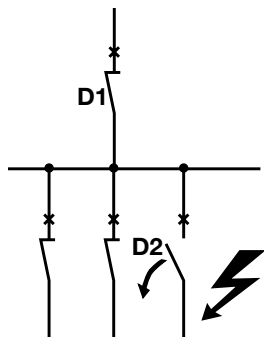
1600A Panelboard

Incoming connection details
 4 - Ø12.5 holes on 50 mm pitch
 Pole pitch = 70mm
 Distance to gland plate = 708mm

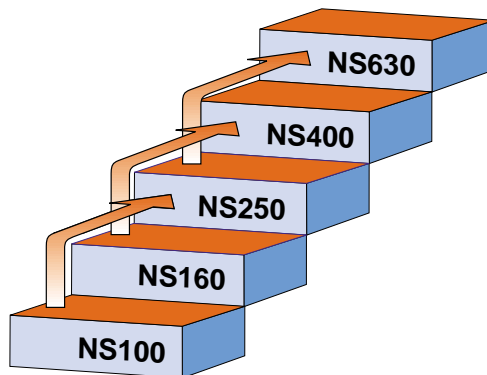


Other connections available on request. If you require higher breaking capacity, consult us.

Discrimination



Total discrimination on the standard range



Simple rule for the standard range: just take a step between each frame rating to obtain total discrimination.

All the circuit breakers are equipped with standard trip units.

Consult us for full details of discrimination/cascading.

Busbar connections

The Powerpact 4 panelboards have a unique connection system which gives the correct torque settings when connecting the cassetted breakers to the busbars. If necessary the breakers can be removed from the bars and fitted elsewhere. In this case the correct torque must be applied to the connections.

Breakers up to 250A **20Nm**
 Breakers 400 & 630A **28Nm**

Technical information

Degrees of protection provided by enclosures

External influences

In many national and international standards, a large number of external influences to which an electrical installation can be subjected are indexed and coded: presence of water, presence of solid objects, risk of impact, vibrations, presence of corrosive substances, etc. These influences may be present with variable intensity depending on the conditions of installation: The presence of water may be in the form of a few drops or total immersion.

Protection index

Standard BSEN 60529 gives a protection code (IP) which characterises the ability of equipment to withstand the following external influences:

- Presence of solid bodies,
- Presence of water.

This code comprises two digits, depending on these external influences. The protection index is assigned to the equipment following a series of tests laid down in the respective standards.

Test according to BSEN60529

1st digit

Protection against solid bodies

0	No protection
1	Protection against solid bodies greater than 50mm
2	Protection against solid bodies greater than 12.5mm or DC
3	Protection against solid bodies greater than 2.5mm
4	Protection against solid bodies greater than 1mm
5	Protection against dust (no harmful deposits)
6	Total protection against dust

2nd digit

Protection against liquids

0	No protection
1	Protection against vertical drops of water (condensation)
2	Protection against drops of water falling up to 15° from vertical
3	Protection against rainwater up to 60° from vertical
4	Protection against water projected from all directions
5	protection against hosing with water from all directions
6	Protection against swamping with water
7	Protection against immersion

Example

IP 55

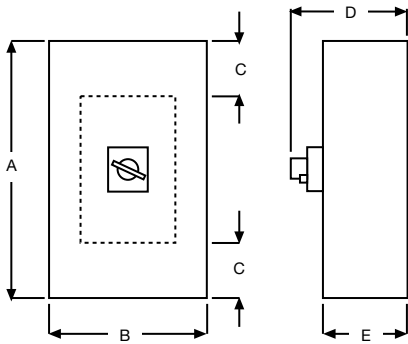
- Protection against dust (no harmful deposits)
- Protection against hosing with water from all directions

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Dimensions (mm)

Safepact 2

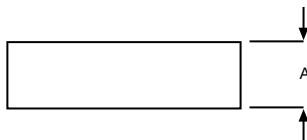
Safepact 2 MCCB or switch disconnecter general purpose enclosure IP40



		Height	Width	Cable space	Overall depth	Enclosure depth
Rating		A	B	C*	D	E
Up to	100A	420	230	140	211	145
	160A					
	250A					
	400A	700	356	236	235	169
	630A					

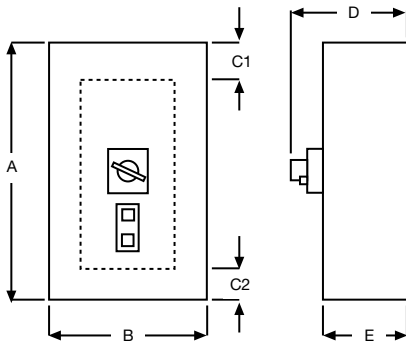
Note: C* - we recommend fitting cable extension boxes on each end of the 160, 250 and 630A ratings, unless utilising trunking

Extension boxes for Safepact 2 MCCB enclosures



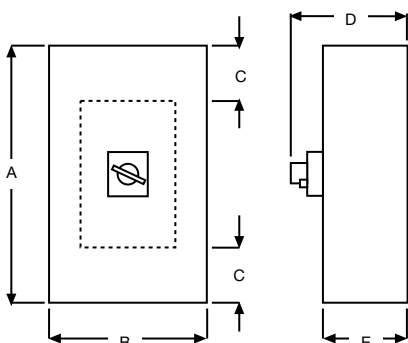
Height (A)	Part N°.
100	MGEX 160C
200	MGEX 250C
120	MGEX 630C

Safepact 2 MCCB or switch disconnecter general purpose enclosure IP40 including earth leakage protection



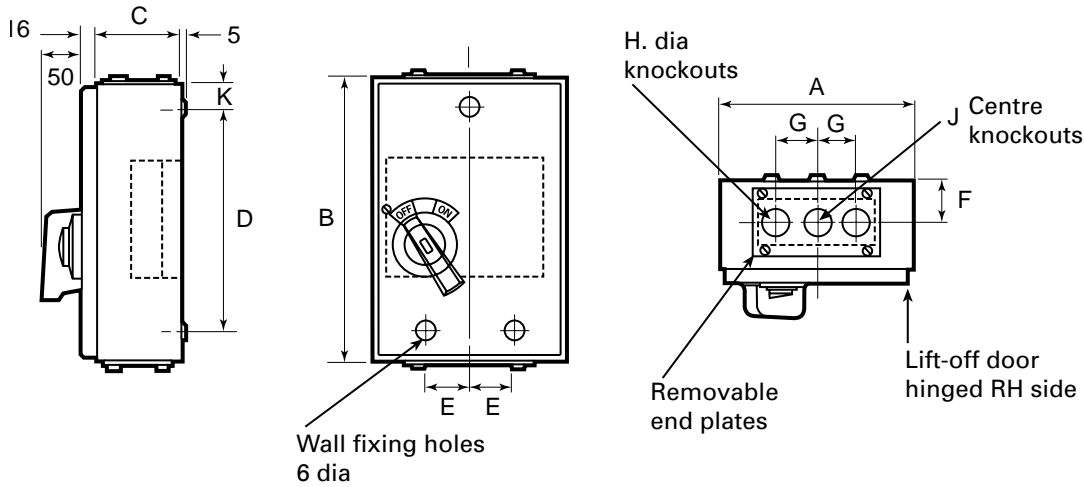
		Height	Width	Cable space		Overall depth	Enclosure depth
Rating		A	B	C1	C2	D	E
Up to	100A	420	230	140	65	211	145
	160A	520	230	140	165		
	250A	620	230	140	265		
	400A	820	356	236	256	235	169
	630A						

Enclosed Interpact



		Height	Width	Cable space	Overall depth	Enclosure depth
Rating		A	B	C	D	E
63A		350	350	130	300	250
100A		350	350	125	300	250
160A		350	350	125	300	250
250A		450	350	165	300	250
320A		650	350	235	300	250
400A		650	350	235	300	250
500A		650	350	235	300	250
630A		650	350	235	300	250

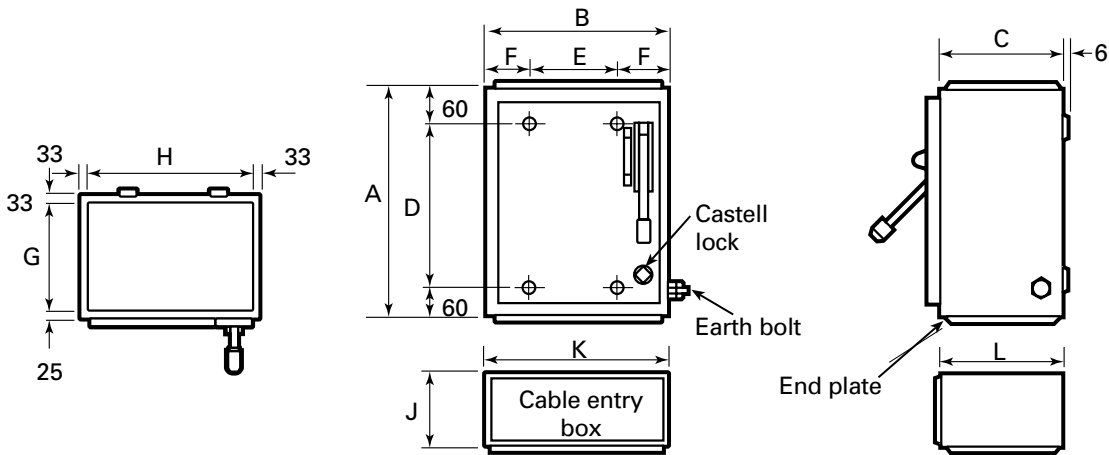
Switch disconnecter fuse MGFA
Switch disconnecter MGFL



Rating	A	B	C	D	E	F	G	H	J	Weight Kg*
20A	210	240	105	160	50	51	44	20	25	4.10
32A	210	240	105	160	50	51	44	20	25	4.82
63A	235	350	105	270	55	51	50	32	32	5.34
100A	260	400	120	320	65	51	60	38	40	7.37

* Weights do not include the fuse links

Fuse switch disconnecter MGFS
Switch disconnecter MGFD

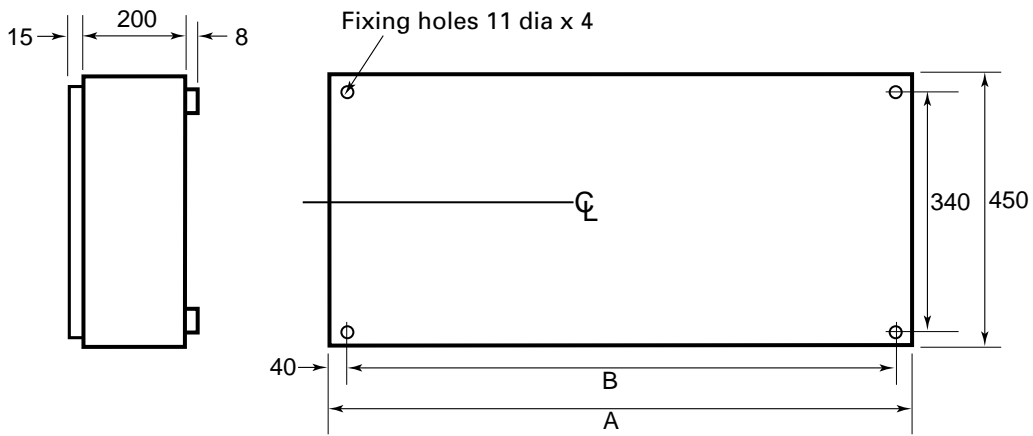


Rating	A	B	C	D	E	F	G	H	J	K	L	Weight Kg*
100A	380	292	200	260	130	81	142	226	100	292	220	15.6
160A	380	292	200	260	130	81	142	226	150	292	220	15.6
200/250A	380	340	200	260	180	80	142	274	180	340	220	19.5
400A	455	489	270	335	289	100	212	423	300	489	290	36.2
500A	455	489	270	335	289	100	212	423	300	489	290	36.2
630A	455	489	270	335	289	100	212	423	400	489	290	36.2

* Weights do not include the fuse links

Dimensions (mm)

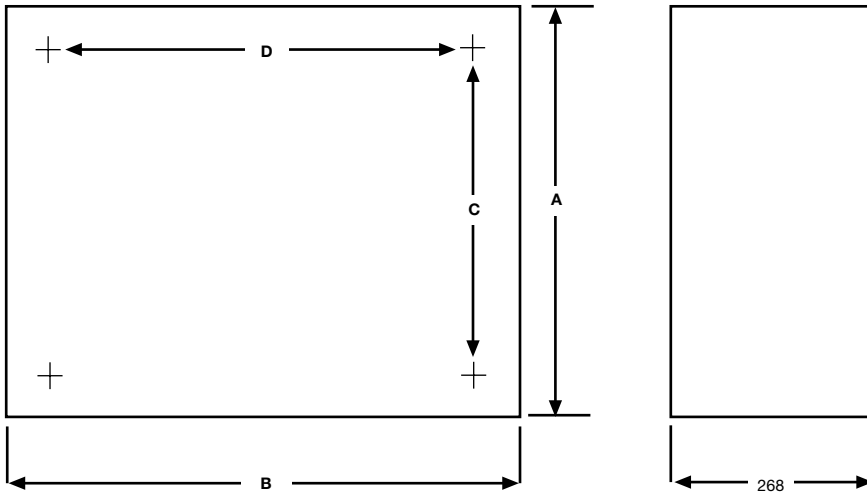
Busbar chamber



Type	A	B
MBFB...07TN	750	670
MBFB...12TN	1200	1120
MBFB...18TN	1800	1720

Powerpact 4 powerboards and panelboards 250A and 400/630

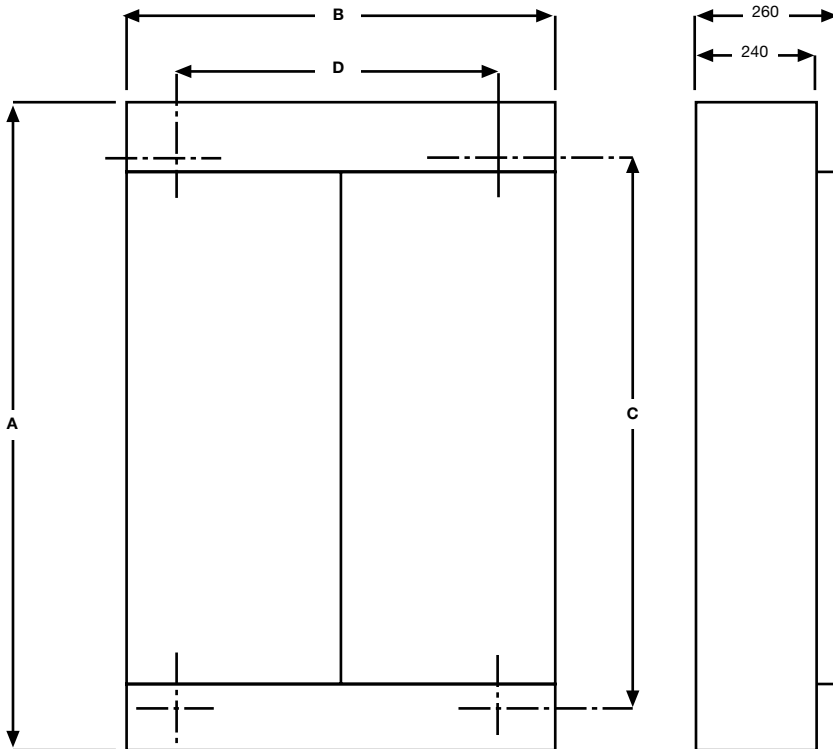
250A powerboard



Board ref.	A	B	C	D
MG25C2 & MG25C2M	650	600	442	306
MG25C4 & MG25C4M	650	778	442	484
MG25EXC	650	600	442	306

C and D are the fixing dimensions about the centre line

250, 400/630A panelboard



Board ref.	A	B	C	D
MG2C5	679	850	541	670
MG2C7	784	850	646	670
MG2C9	889	850	751	670
MG2C13	1074	850	920	670
MG6C6	1178	850	1035	710
MG6C12	1493	850	1350	710
MG6C18	1808	850	1665	710

C and D are the fixing dimensions about the centre line

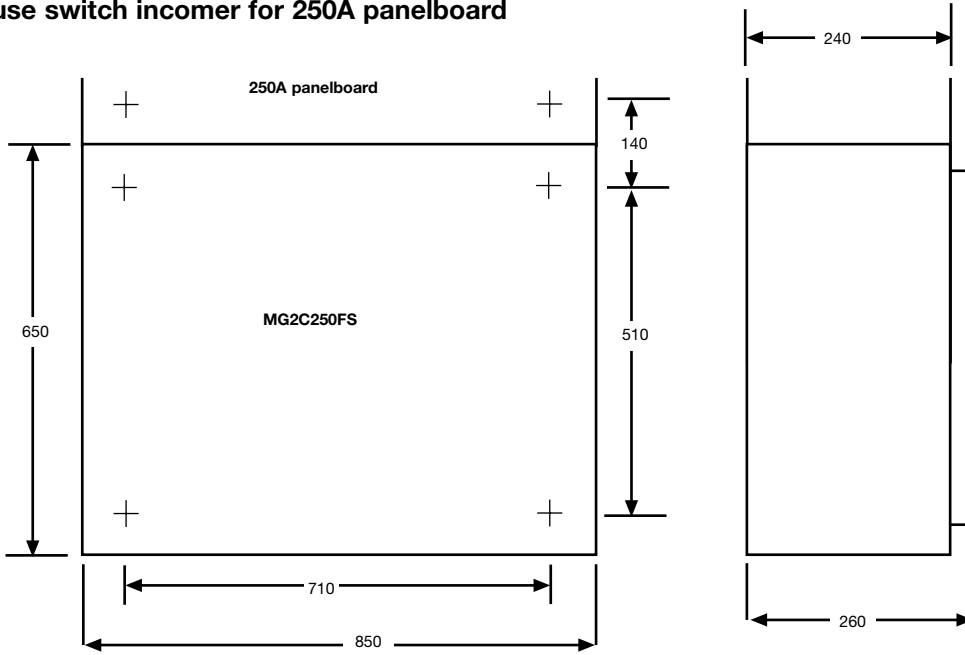
Material thickness

- 1.2mm cover
- 1.6mm enclosure

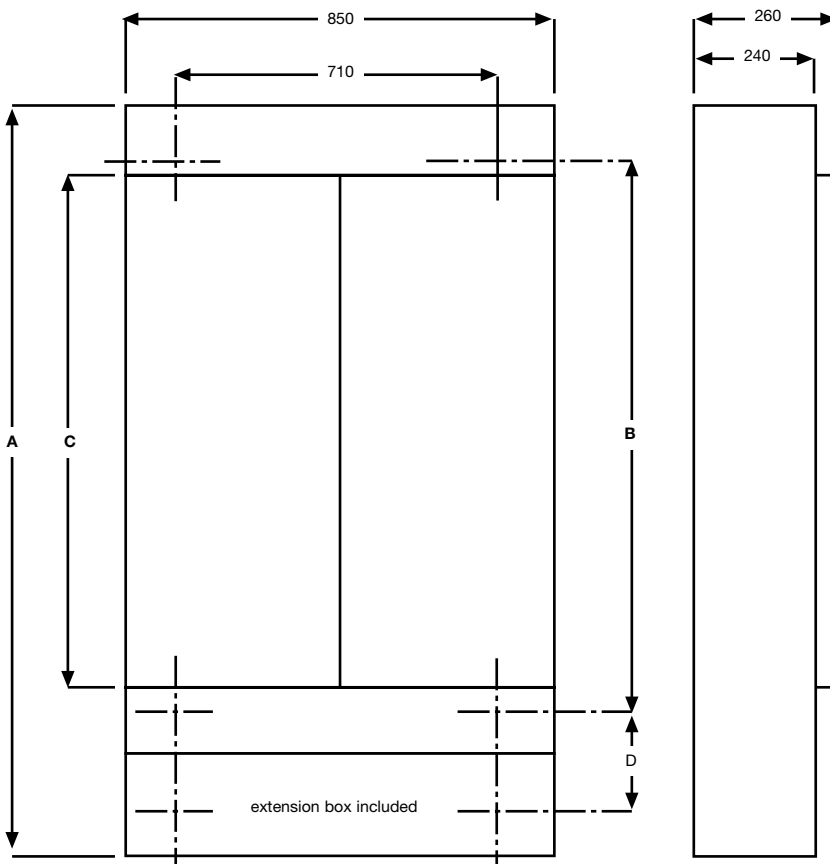
Dimensions (mm)

Powerpack 4 panelboards 250, 400/630 and 800A

Fuse switch incomer for 250A panelboard



800A panelboard

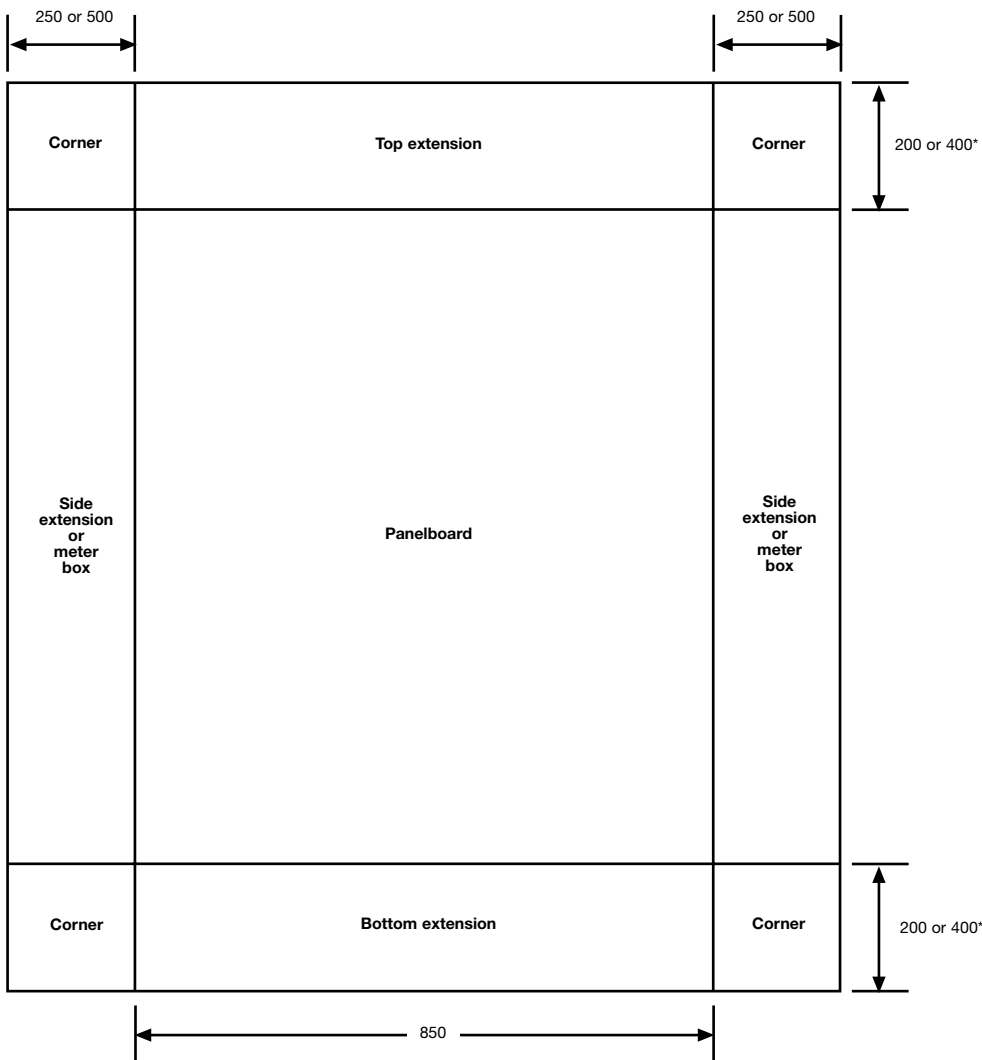


Board ref.	A	B	C	D
MG8C6	1578	1035	991	172
MG8C12	1893	1350	1306	172
MG8C18	2208	1665	1621	172

Material thickness
1.2mm cover
1.6mm enclosure

Dimensions (mm)

Powerpact 4 extension boxes



All extension boxes are the same depth as the main board - 240mm.

* 400mm extension box is fitted as standard at the incoming end of the 800A panelboard.

Corner units are available to suit all combinations of top/bottom and side extension boxes.

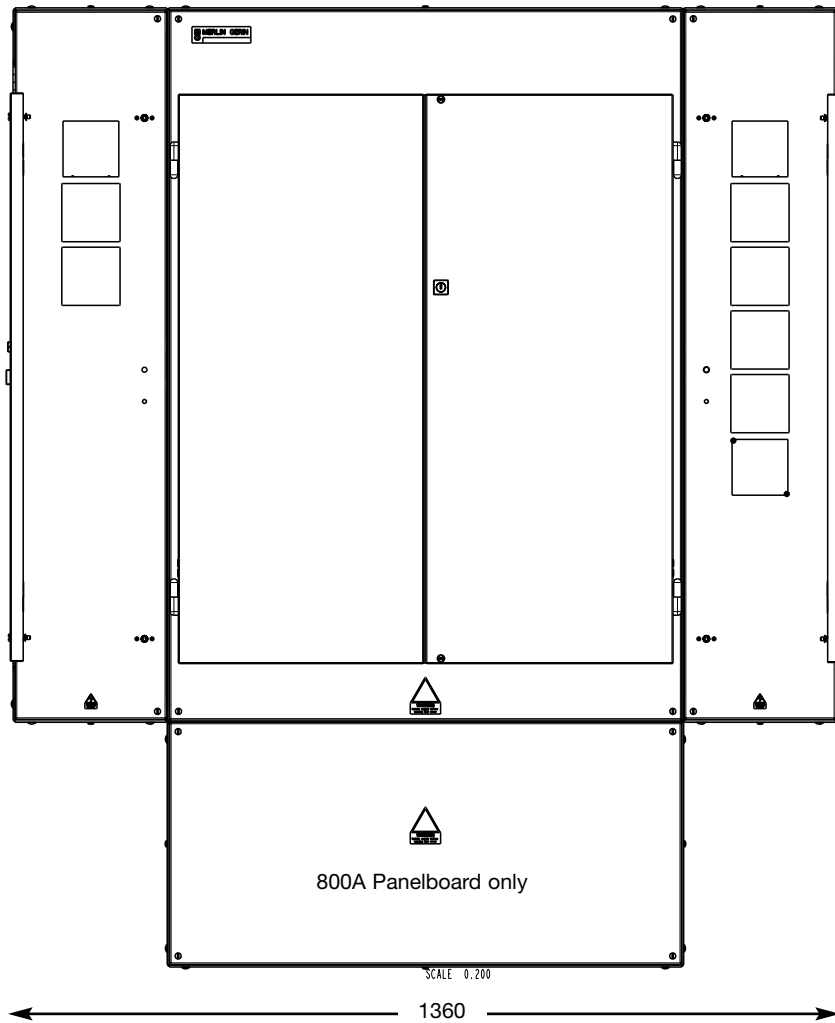
Overall dimension table

	Panelboard Part No.	MG25C2	MG25C2M	MG25C4	MG25C4M	MG2C5	MG2C7	MG2C9	MG2C13	MG6C6	MG6C12	MG6C18	MG8C6	MG8C12	MG8C18
Height	Standard	653	653	653	653	679	784	889	1074	1178	1493	1808	1583	1898	2213
	With 1 top or bottom ext box					883	988	1093	1278	1382	1697	2012	1787	2102	2417
	with top & bottom ext box					1087	1192	1297	1482	1586	1901	2216	1991	2306	2621
Width	Standard	600	600	778	778	850	850	850	850	850	850	850	850	850	850
	with 1-250mm side ext box									1105	1105	1105	1105	1105	1105
	with 1-500mm side ext box									1360	1360	1360	1360	1360	1360
	with 1-600mm side ext box	1200	1200	1378	1378										
	with 1-250 & 1-500mm side ext box									1615	1615	1615	1615	1615	1615
	with 2-250mm side ext boxes									1360	1360	1360	1360	1360	1360
	with 2-500mm side ext boxes									1870	1870	1870	1870	1870	1870
Depth		263	263	263	263	263	263	263	263	263	263	263	263	263	263

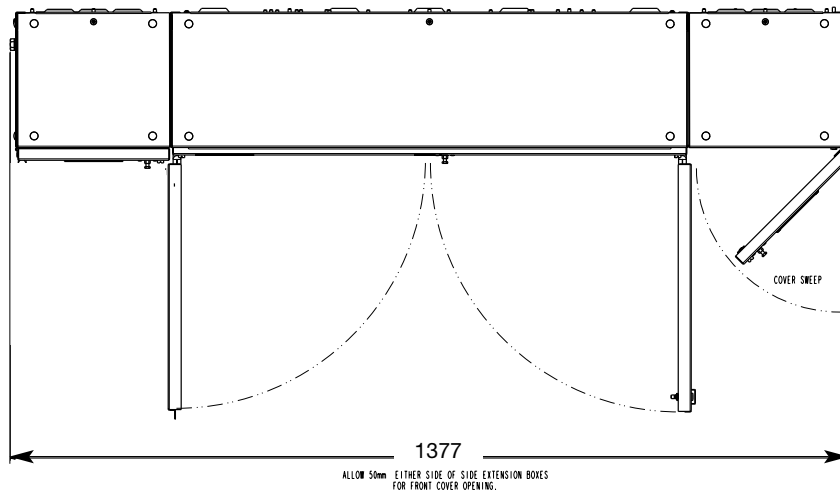
Dimensions (mm)

Powerpact 4 metering extensions

630, 800A panelboard with side extension metering boxes



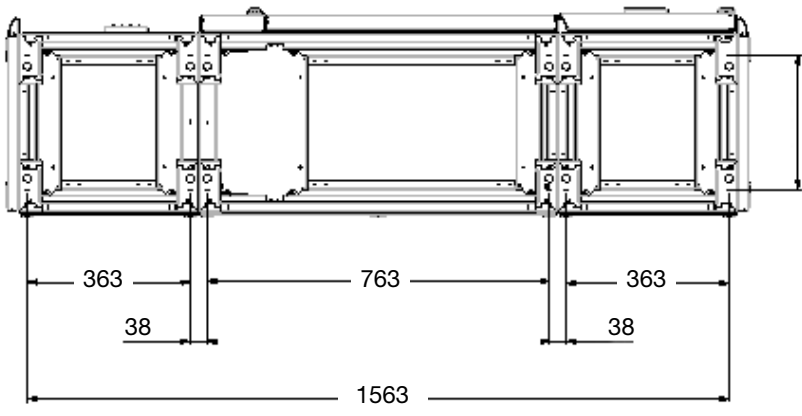
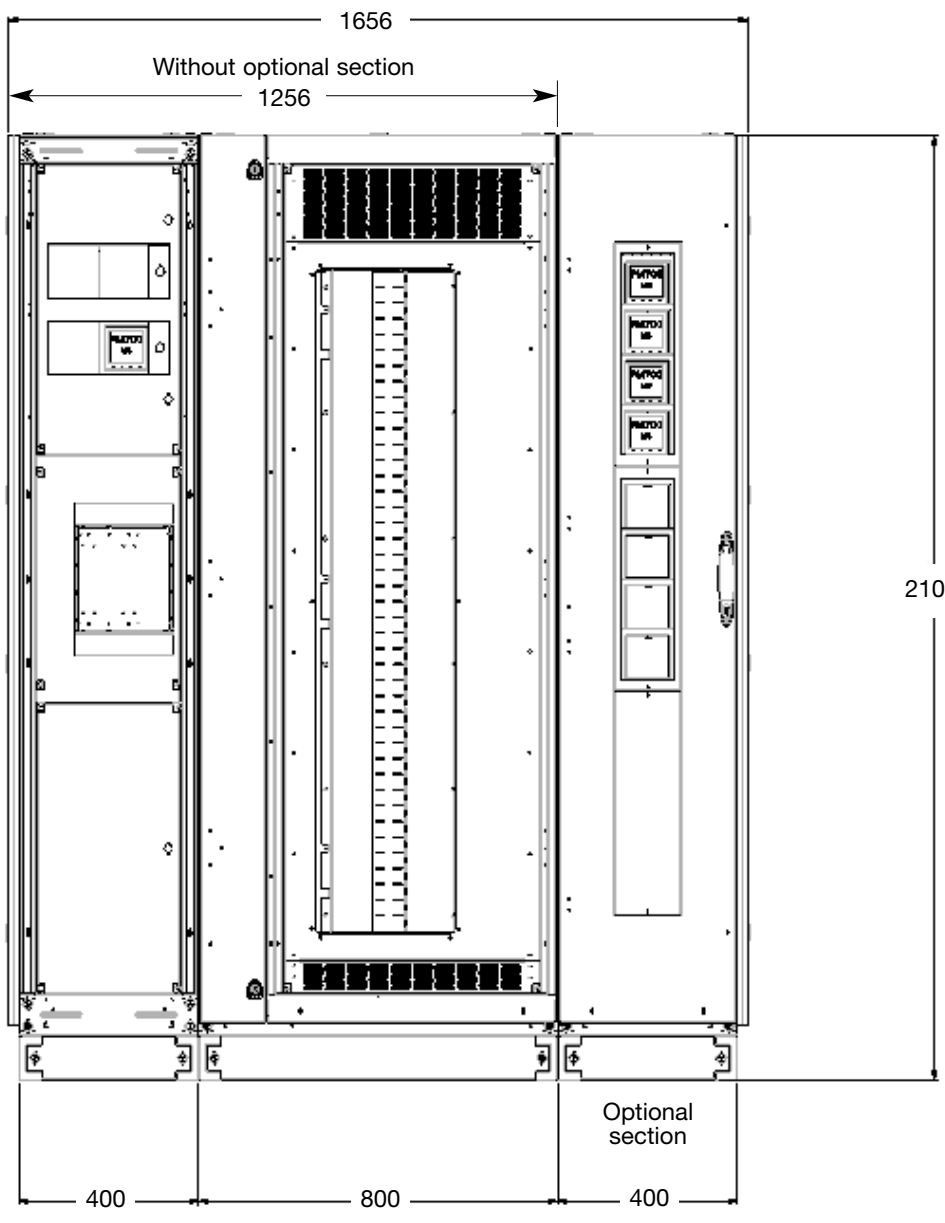
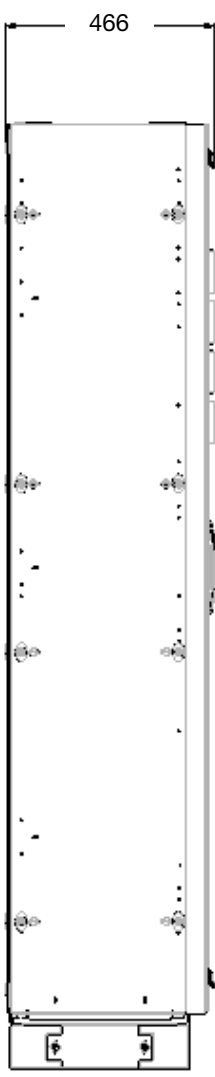
The side extensions with metering are dimensionally the same as standard 250mm side extensions



All apertures are 92mmsq. to accept standard DIN 96 meters.

Dimensions (mm)

1600A panelboard



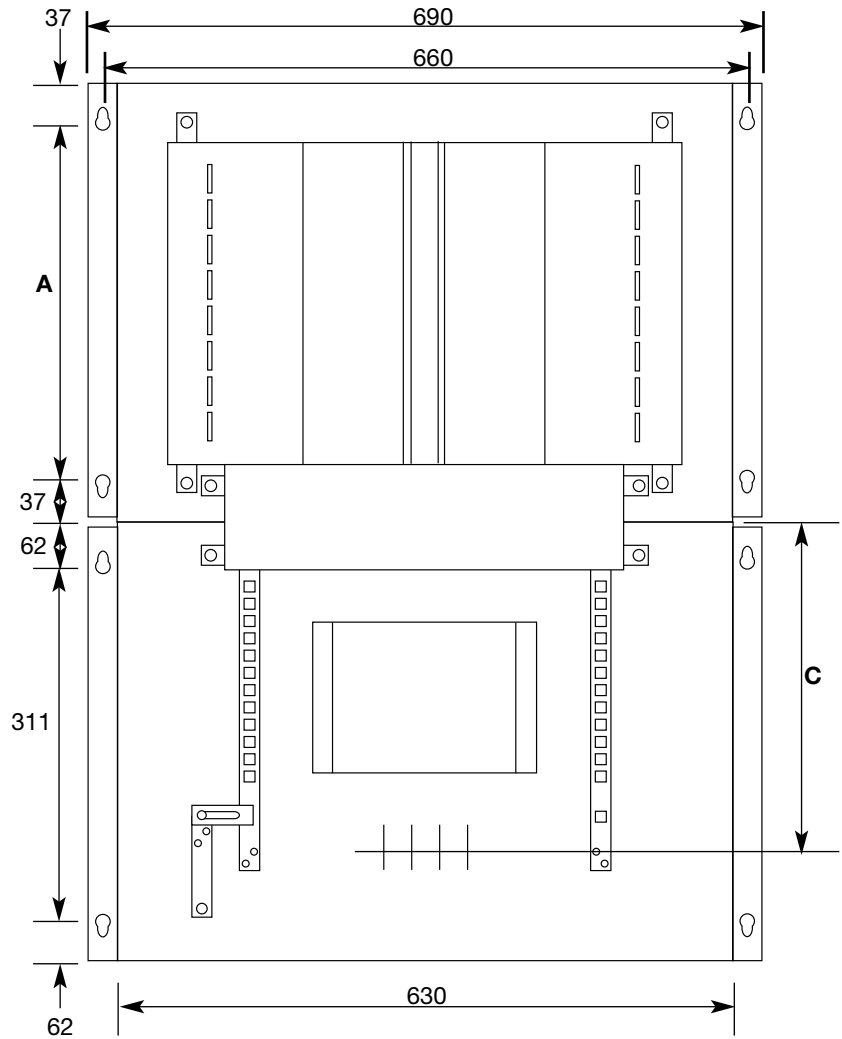
Dimensions (mm)

Powerpack 4 pan assembly and incoming MCCB

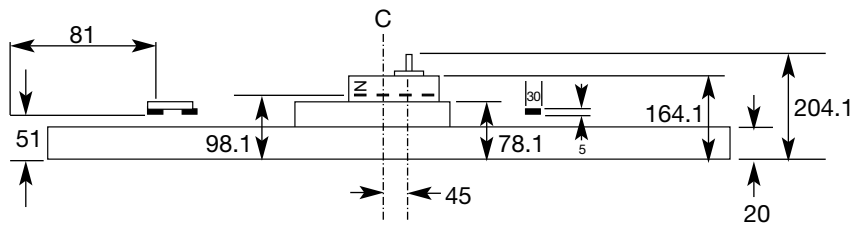
Reference	A
6 way	346
12 way	661
18 way	976
24 way	1291
30 way	1606

Reference	C
NS800	475
NS630	330
NS250	228

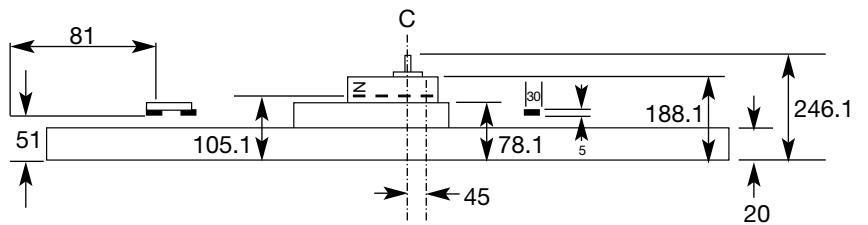
Dimension C = centre line of incoming breaker terminals (plan view).



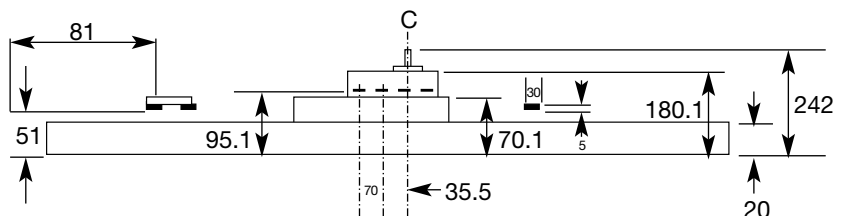
NS250 incoming MCCB connections



NS630 incoming MCCB connections



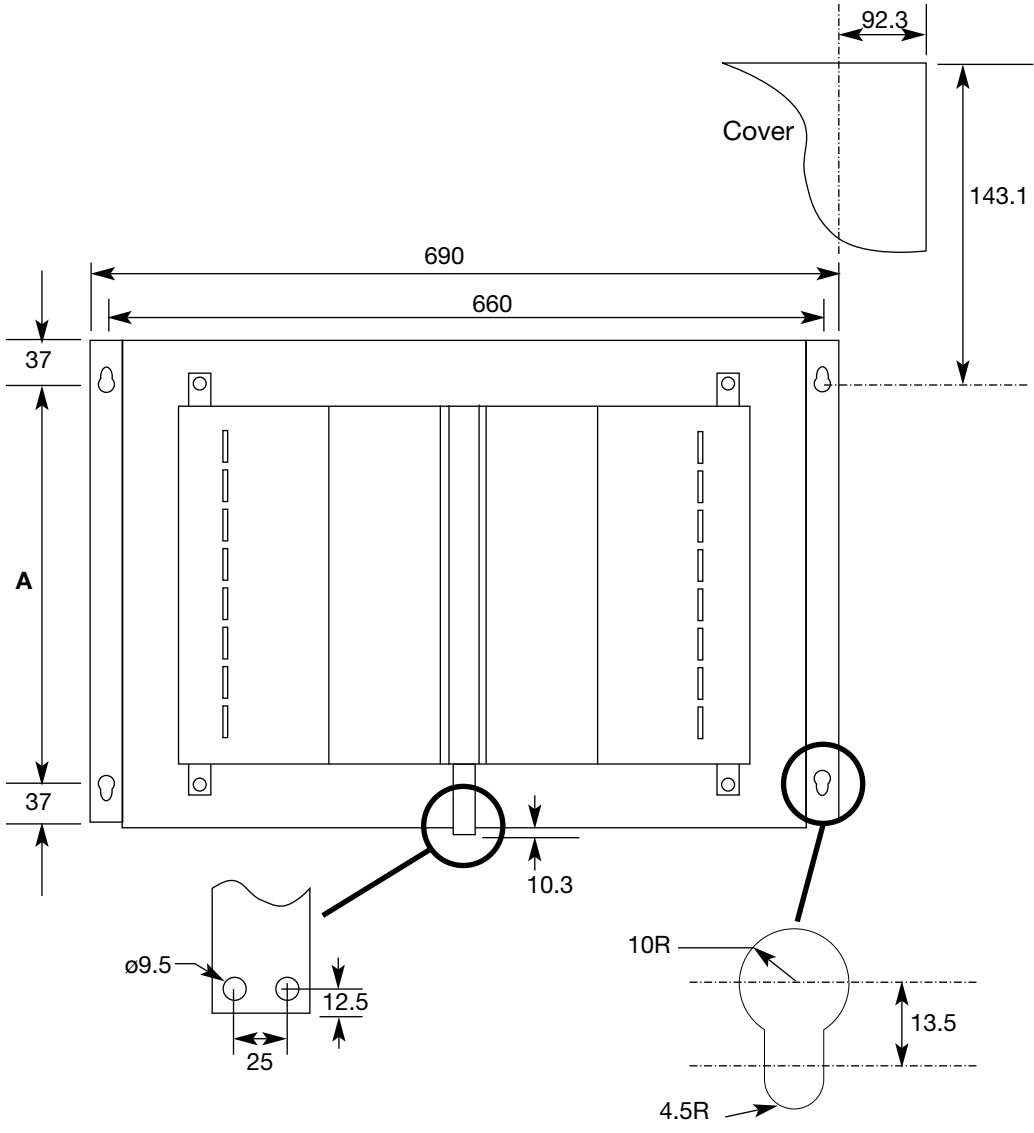
NS800 incoming MCCB connections



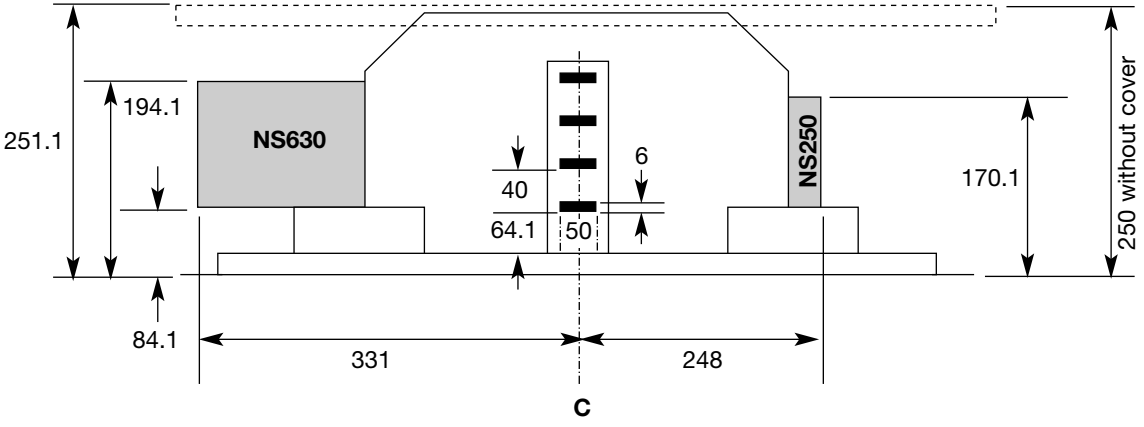
Dimensions (mm)

630A outgoing pan assembly only

Reference	A
6 way	346
12 way	661
18 way	976
24 way	1291
30 way	1606



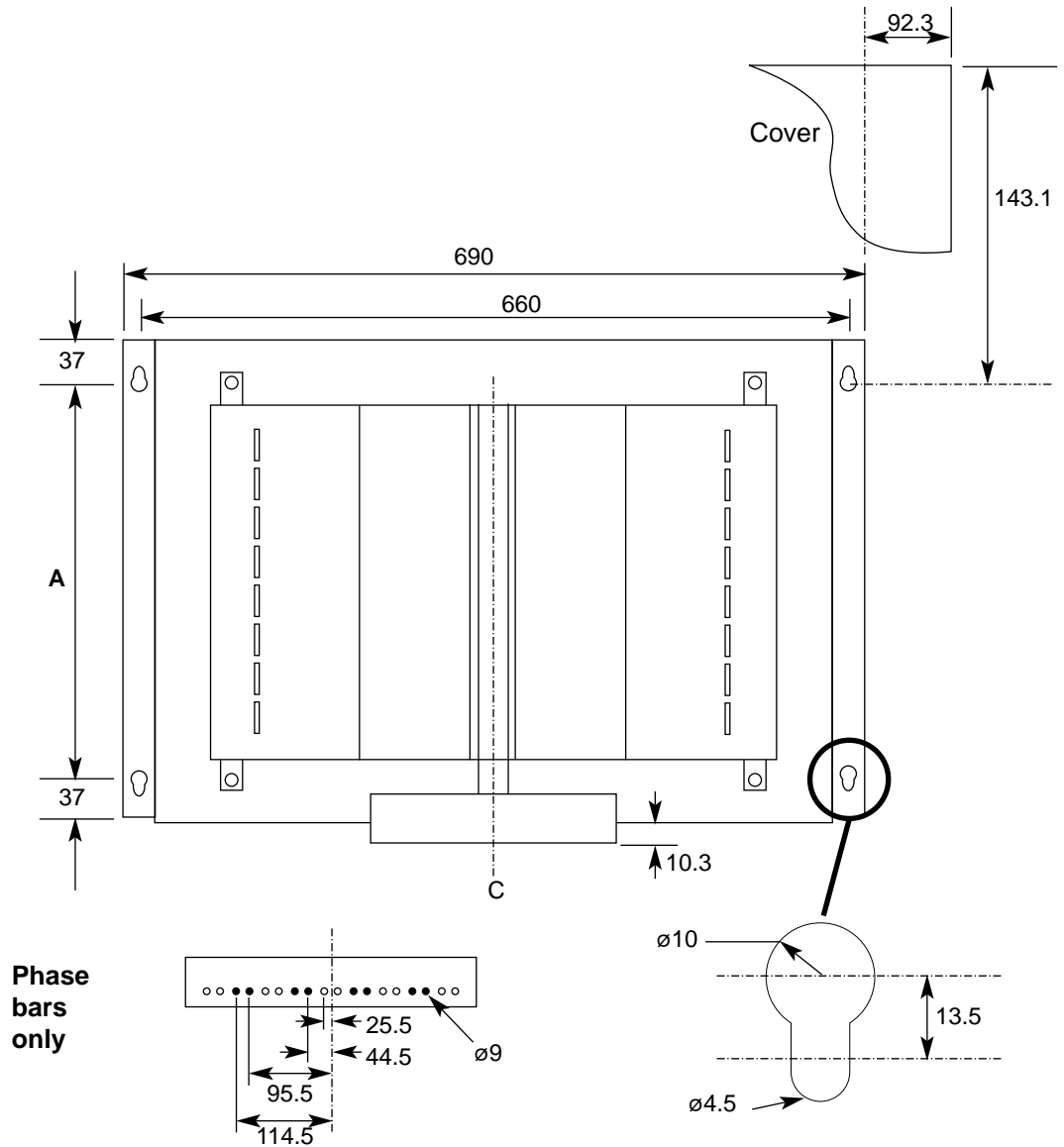
Incoming busbar connections direct to outgoing pan assembly



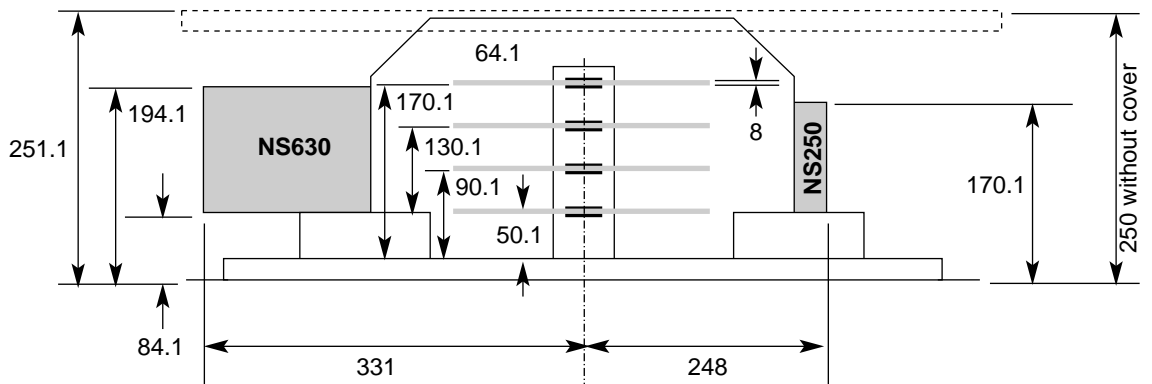
Dimensions (mm)

800A outgoing pan assembly only

Reference	A
6 way	346
12 way	661
18 way	976
24 way	1291
30 way	1606



Incoming busbar connections direct to outgoing pan assembly



Fully assembled and custom built distribution panels
and switchboards

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Advantage

Fully assembled and custom built distribution panels and switchboards



Merlin Gerin Advantage is a service which provides assembled distribution equipment delivered to any location in main land UK within just 3-4 weeks

The Advantage service means:

- **Less installation time**
All products are supplied fully assembled and delivered to site
- **Tailor-made solution**
Equipment can be designed and constructed specifically to your requirements
- **Delivery**
Order via your authorised Merlin Gerin distributor and we will deliver direct to site anywhere in main land UK
- **Total project assistance**
Fully detailed drawings and test certificates for all assembled distribution equipment
- **Convenience**
It could not be easier, let us assemble, test and deliver all of your distribution boards to site when you need them reducing storage and minimising risk of loss or damage

Assembled standard product – delivered within 3 weeks*

The assembly of standard boards:

- Type A SP and N boards.
- Isobar 4c TP and N boards.
- Powerpact 4 MCCB panelboards.
- Isobar 4c distribution boards joined together.
- Powerpact 4 panelboards joined together.
- Combined MCB distribution boards and MCCB panelboards.
- All complete with incoming and outgoing devices and traffolyte labels (if required).

Engineered standard product - delivered within 4 weeks*

Large and more complex installations may require the assembly of Merlin Gerin products plus the incorporation of other equipment within one composite enclosure. The additional equipment could include:

- Isobar 4c distribution boards or Powerpact 4 panelboards incorporating control equipment.
- Isobar 4c TP and N boards fitted with incoming contactor devices.
- Power factor correction equipment.
- Facilities for building management systems.
- Change over contactors.
- Automatic source changeover systems.
- Protective devices such as earth fault relays.
- Instrumentation.

* subject to customer requirements

Note: all Advantage products are manufactured and tested to BS EN 60439-1 and in accordance with ISO 9001 procedures before leaving the Merlin Gerin production facility.



Schneider Electric

An overview



Schneider Electric's expertise is founded on its three international brands – Merlin Gerin, Square D and Telemecanique.

With over 100 years experience in the electrical industry, Schneider Electric has established itself as a world and UK leader in the supply and manufacture of products for the distribution, monitoring and control of electrical power.

Schneider Electric regards its customers as commercial partners, who, like us, demand the highest standards of excellence in terms of products, projects and services.

Schneider Electric is proud to provide the solutions to meet their needs.

Schneider Electric operates the largest, dedicated sales force in the UK electrical industry.

Sales engineers have specialist expertise and an understanding of the customer needs within each of the following market sectors:

- Building systems and solutions
- Industrial systems and solutions
- Energy and infrastructure systems and solutions





The real reason for putting technology into buildings is to simplify tasks, enhance safety and improve the quality of life.

Schneider Electric knows this and has created attractive, functional products for the residential building sector. Well being comfort and entertainment are key concepts in this area.

The same objectives apply to commercial buildings such as offices, hotels, shopping centres, hospitals, schools and care facilities for the elderly.

Schneider Electric offer a wide range of solutions in the area of building management services and uses its expertise in all of these buildings to protect people and equipment.



Schneider Electric means greater comfort, lower operating costs and enhanced safety.

Related industries

- Retail
- Education
- Health
- Entertainment centres
- Offices
- Warehouses
- Agriculture
- Factory
- Private residential
- Public residential

Principal customers in the construction market

- Contracting authorities
- Main contractors
- Building engineers

Schneider Electric

An overview

Industrial systems and solutions

Schneider Electric focus on performance in all areas of industry.

Our products and services adapt to each specific business and environment, from discrete manufacturing and production lines to continuous processes in a wide variety of industries such as:

- Automotive
- Food and beverage
- Pharmaceuticals
- Construction materials
- Waste management



Across a wide range of applications including:

- Conveyors
- Packaging
- Materials handling
- Hoisting

Energy infrastructure systems and solutions

Schneider Electric is involved in the entire electrical distribution chain from power plants to end users. Customer demand for complete availability, uncompromising quality and absolute safety has made the search for excellence our key mission.

Today, electrical substation and network protection, monitoring and control are highly effective in reducing outage time.

Proven technologies offer a wide range of simple, efficient and flexible solutions for optimised, step by step investments.



Infrastructure

Schneider Electric is involved in developing infrastructure and transportation systems around the world. In areas where no failures can be tolerated, such as road and rail equipment, harbour installations and airports, Schneider Electric provides solutions in electrical distribution, control and monitoring, automation and supervision.



Key markets

- Electricity distribution
- Water
- Rail
- Airports
- Seaports
- Defence
- Gas
- Telecommunications
- Road

Principal customers in the electric power market

- Power suppliers involved in generation and distribution
- Utility companies
- Major contractors
- Large end user sites
- Government departments

Schneider Electric

An overview

Projects and services - delivering tailored solutions for your business

We provide solutions enabling you to reduce the total cost and lifetime ownership risk of your electrical distribution and automation systems, whilst fulfilling your ongoing quality, safety and environmental obligations.

Choice of services

Our services aim to add value to each project phase, but the choice of services you use is entirely yours. You may want a full set of services that together provide a package of support covering the entire lifecycle of your project, or you can select a combination of services to complement your resources or knowledge.

If you are not sure of what you need, our consultation services will help you to define the parameters of your solution.

Consultation

These services provide you with an assured way to road map your project. We take your ideas and requirements and apply our wide range of application experience and technical competence to produce conceptual designs and indicative costings.

Design

Using the analysis from the consultation phase, or information that you may provide, the design phase selects the most suitable equipment and provides detailed drawings and technical specifications.

Implementation

This is often the most time-pressured stage of a project when schedules demand fast implementation and commissioning. These services provide high quality installation and commissioning, preceded by thorough preparation.

Operation

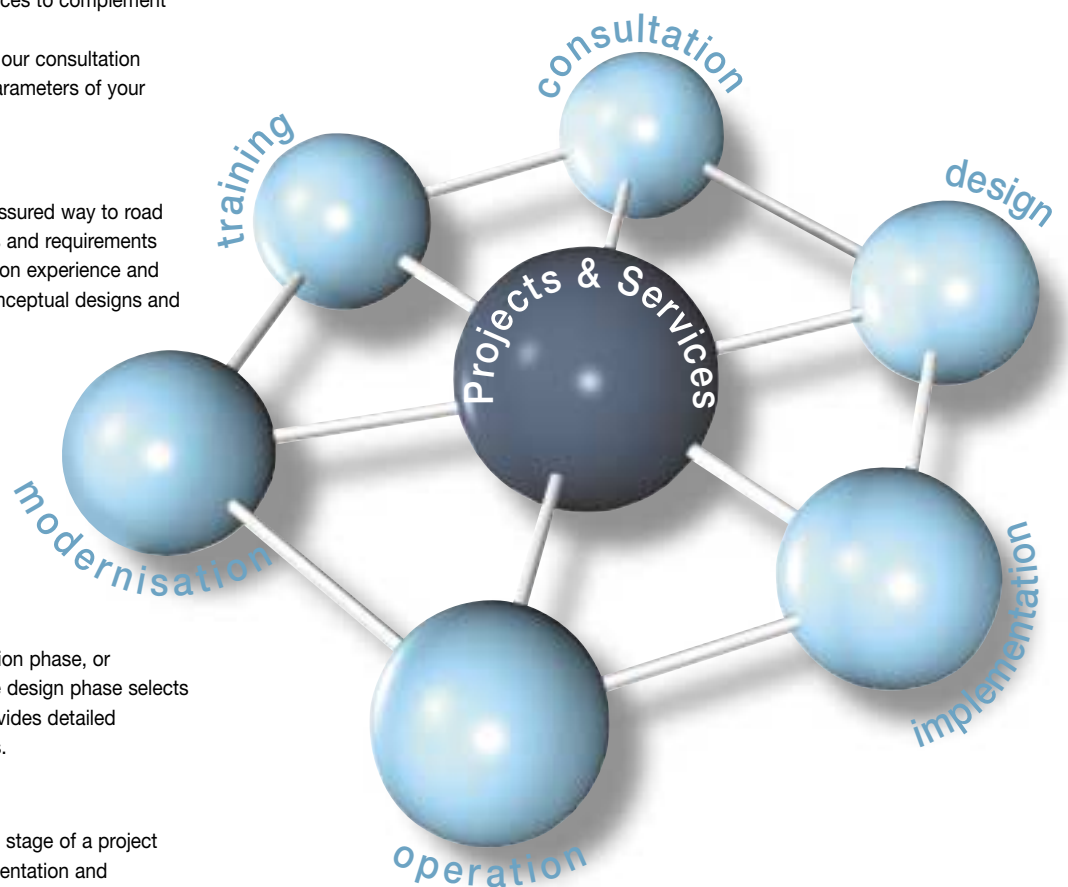
Efficient operation is vital to derive the best value from your investment. These services ensure that installations achieve the highest operational efficiency and are cost effectively maintained with minimum downtime.

Modernisation

Faulty or ageing equipment can be refurbished and repaired if this is the most cost effective action.

Training

A wide range of training services are available including product standards and legislation. Each is regularly updated to stay current with the latest technology. Training can be delivered at a Schneider Electric training facility, or at a customer's own site.



Note

This index includes all products in both this catalogue and in the Ready to install distribution boards catalogue

Ref N°. **MGLV5750**.

This contains information on distribution boards, DIN rail mounted equipment, enclosures and connection systems. This can be ordered by calling 0870 608 8 608 or to download the catalogue please visit www.schneider.co.uk

Items listed but without a page number are in **MGLV5750**

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By part number

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C60HB104	1P 4A mcb type B		C60HC310	3P 10A mcb type C	
C60HB106	1P 6A mcb type B		C60HC316	3P 16A mcb type C	
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C60HB125	1P 25A mcb type B		C60HC32R30	RCBO 32A 30mA Type C	
C60HB132	1P 32A mcb type B		C60HC32RA30	RCBO 32A 30mA Class A Type C	
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C60HB202	2P 2A mcb type B		C60HC45R100	RCBO 45A 100mA Type C	
C60HB204	2P 4A mcb type B		C60HC45R30	RCBO 45A 30mA Type C	
C60HB206	2P 6A mcb type B		C60HC45RA30	RCBO 45A 30mA Class A Type C	
C60HB210	2P 10A mcb type B		C60HC6R100	RCBO 6A 100mA Type C	
C60HB216	2P 16A mcb type B		C60HC6R30	RCBO 6A 30mA Type C	
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C60HC101	1P 1A mcb type C		C60HD320	3P 20A MCB	
C60HC102	1P 2A mcb type C		C60HD325	3P 25A MCB	
C60HC104	1P 4A mcb type C		C60HD332	3P 32A MCB	
C60HC106	1P 6A mcb type C		C60HD340	3P 40A MCB	
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MGAN12PS	pan ass 12 way SP&N black sliders		MGBN8PE	pan ass 8 way TP+ E and N on mtg. plate	
MGAN15	15 way SP Distribution Board		MGBN8PS	pan ass 8 way TP&N black sliders	
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15011	32A 3P (I) switch disconnecter		15515	32A 1P 230 - 240Vac coil TL relay	
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29407	Undervoltage release 240V	9, 33, 49	7797P	Prisma Front cover 12 way	
29408	Undervoltage release 380/415V	9, 33, 49	7798P	Prisma Front cover 16 way	
29450	Auxiliary switch	9, 12, 33, 49	7799P	Prisma Front cover 24 way	
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