



Signature SE

Low Voltage Switchboards & Motor Control Centres

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Signature SE

Low Voltage Switchboards & Motor Control Centres

brenclosures.com.au/se.htm



Signature SE Features

- Fault rating up to 100kA for 1 second & 65kA for 3 seconds
- Current rating from 600 to 3400 Amps (4000 Amps incomer)
- Impulse withstand voltage (Uimp) up to 16kV (busbar system)
- Insulation voltage (Ui) up to 1000V AC
- Operating voltage (Ue) up to 690V
- Dielectric withstand of 3.5kV
- Internal arcing-fault test 50kA up to 690V
- Approvals
 - CE marked
 - Lloyds
- Protection rating - IP43 and IP55

Signature SE Indoor Low Voltage Switchboards and Motor Control Centres (MCCs) offer type-tested certified solutions for any commercial or industrial electrical installation. Manufactured from 2mm zinc coated steel with a powdercoat finish to customer specifications.

Whether you need fixed, demountable or fully withdrawable modules, Signature SE provides quality and performance at a competitive price. Signature SE is designed to make the final assembly of busbars and electrical equipment easy and cost effective.

B&R offers an extensively type tested switchboard building system, tested in Australia to comply with the requirements of:

- Australian Standard AS/NZS 3439.1 - 2002
- British Standard BS EN 60439.1:1999
- International Standard IEC 60439.1:2004

For more information and a copy of our Signature SE Product Brochure, visit our website www.brenclosures.com.au/se.htm or contact your local B&R sales office on the numbers listed on the back cover of this publication.



*Motor Control Centre (MCC)



*Wired Module (starter)

*B&R supply sheet metal components only.

Busbar Ratings and Configurations

Busbar Ratings

Withstand Current	Main Busbar (Amps)								Vertical Busbar (Amps)			
	700	1250	1400	2000	2500	3200	3400	(Incomer) 4000	460	700	800	1000
50kA 1 second	•								•			
50kA 3 second												•
65kA ½ second									•			
65kA 1 second			•					•		•	•	
65kA 3 second		•			•	•						
80kA 1 second		•		•	•	•						•
No of Busbars	1	1	2	2	3	3	4	4	1	1	1	1
Busbar Height (mm)	30	80	30	80	80	100	80	100	40	50	63	80
Busbar Width (mm)	10	10	10	10	10	10	10	10	6.3	6.3	6.3	6.3

Typical Busbar Jointing Details



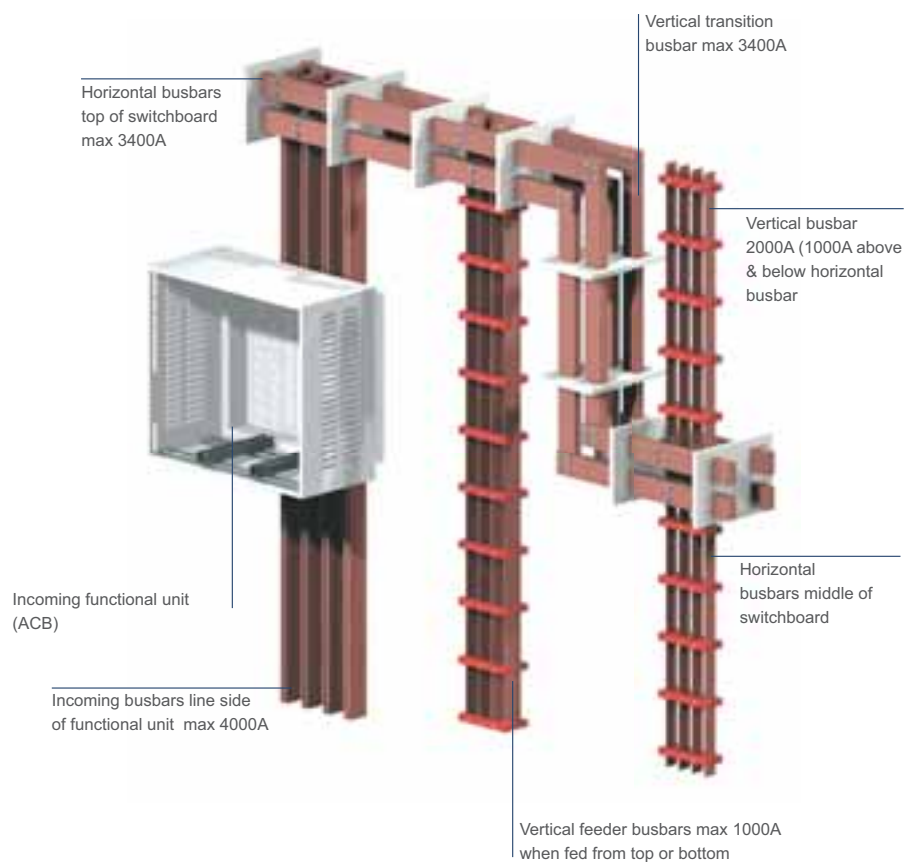
4 pole busbar system,
30x10mm copper busbar



3 pole busbar system,
80x10mm copper busbar



4 pole busbar system,
80x10mm copper busbar



Signature SE

Low Voltage Switchboards & Motor Control Centres



Signature SE Low Voltage Switchboards and Motor Control Centres (MCCs) offer type-tested internationally certified solutions for any commercial or industrial electrical situation.

Whether you need fixed, demountable or fully withdrawable modules, Signature SE provides quality and performance at an internationally competitive price.

Signature SE MCCs are designed to make installation simple, cost-effective and versatile. Signature's type testing programme was undertaken using an extensive range of internationally available switch gear and control assemblies. B&R offers an internationally certified Switchboard Building System that has been extensively type tested by Testing and Certification Australia to comply with the requirements of:

- Australian Standard AS 3439.1 - 1993
- British Standard BS EN 60439.1:1999
- International Standard IEC 439.1:1999

For more information and a copy of our Signature SE Product Brochure, contact your local B&R Technical Sales Representative on the numbers listed on the back cover of this publication.



Signature SE Features

- A protection rating of IP42 and IP55 to ensure the protection against dust and water
- A Zinccaneal® steel, corrosion resistant construction with a powdercoated paint finish to your specifications
- Fully assembled, so no wasted time in building metalwear. This also ensures 100% delivery of components with order
- Type tested to AS3439.1, AS3000 and Australian supply authority requirements. This ensures that there is proof of compliance for the switchboard
- A polyurethane gasket foamed in place for superior sealing, protecting internal equipment
- Modular construction allows tiers to be easily assembled, giving the flexibility of a custom built construction, with the shorter lead times of a standardised product

Approvals

CE marked
Lloyds
AS3439.1/AS3000
BS EN 60439.1:1999
IEC 439.1:1999

Materials

Body - Zinccaneal® steel
Body Thickness - 2mm
Gasket - Polyurethane

Surface Finish - Powdercoat

Protection Rating - IP42 and IP55

Technical Information

- Fault rating up to 100kA for 1 second & 65kA for 3 seconds
- Current rating from 600 to 4000 Amps
- Impulse voltage withstand to 16kV
- Dielectric withstand of 3.5kV
- 19 Drive module sizes
- Up to 12 drive modules per tier
- Arc fault tested to appendix EE

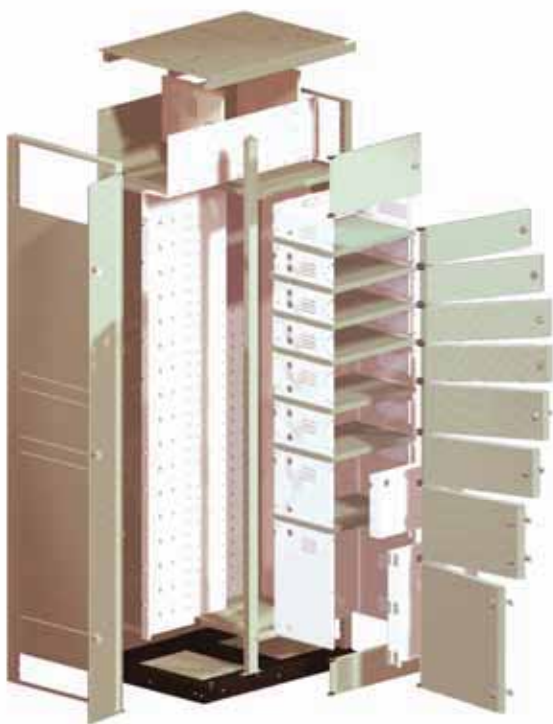
Signature SE Switchboard Building System

B&R Enclosures offer a design solution to meet your requirement, however may switchboard systems require careful evaluation to ensure the most cost effective solution. For that reason details of particular part numbers are beyond the scope of this catalogue. Please consult your local sales engineer when designing your switchboard for more assistance.

The following details typical constructions and shows both the scope and modularity of the system.

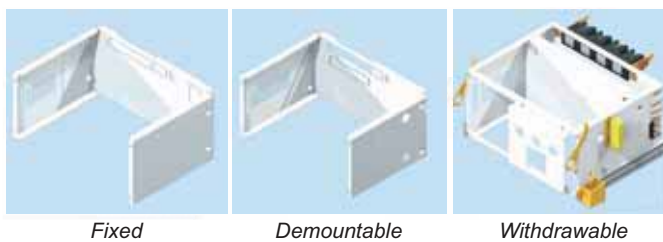
Standard Tier Configurations

Typical Motor Control Tier



- Minimum number of sheet metal components
- Options of top, bottom or middle busbar positions
- Generous bus and cable zones
- Equipment section with room for up to 12 cells per tier
- 35 standard cells in 3 types (see below) with sizes ranging from 150 to 1800 mm in height
- Wide range of standard door sizes opening to 165°
- Unique hinging system built into shelves
- Structural skin allows open space for internal fitout – no space wasted by framework

Cell Types

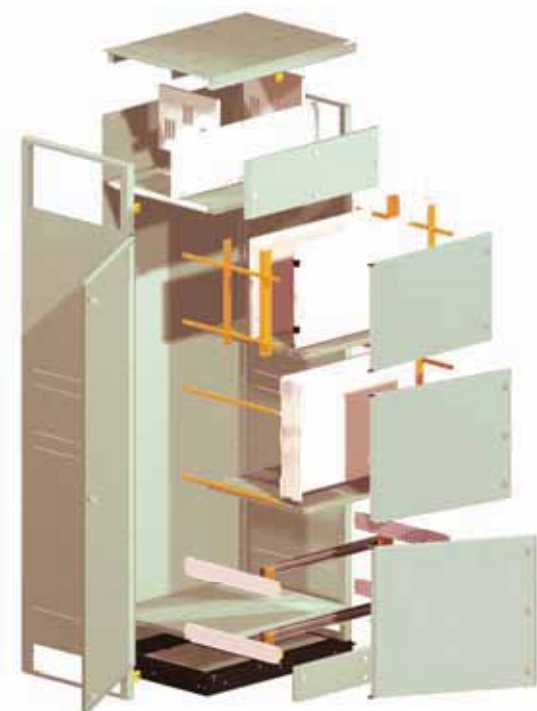


Fixed

Demountable

Withdrawable

Typical Internal Accessories



- Wide range of fixed and hinged door sizes
- Hinged internal escutcheons
- Fixed mounting pans
- Depth adjustable C-Rails
- Hinged insulated panels
- Heavy duty side mounted rails
- Heavy duty Unistrut rails
- Accessories such as DIN rail brackets make fitout easy
- Universal construction rail punched at 25mm increments
- Various busbar configurations available (see below)

Busbar Support





SPECIAL PURPOSE

SIGNATURE SE

Impulse withstand voltage
up to 16kV (busbar system)

Up to 12 drive modules/tier

Current Rating from
600-3400 Amps
(4000 Amps incomer)

Generous bus and cable zones

Foamed in place polyurethane gasket



2mm zinc coated steel construction

Signature SE Indoor Low Voltage Switchboards and Motor Control Centres (MCCs) offer type-tested certified solutions for any commercial or industrial electrical installation. Manufactured from 2mm zinc coated steel with a powdercoat finish to customer specifications.

Whether you need fixed, demountable or fully withdrawable, Signature SE provides quality and performance at an internationally competitive price.

Signature SE MCCs are designed to make installation simple, cost-effective and versatile. Signature SE is designed to make the final assembly of busbars and electrical equipment easy and cost effective.

B&R offers an extensively type tested switchboard building system, tested in Australia to comply with the requirements of:

Australian Standard AS/NZ 3439.1 - 2002

British Standard BS EN 60439.1:1999

International Standard IEC 60439.1:2004

Contact your local B&R office for details
www.brenclosures.com.au

TECHNICAL INFORMATION

- Minimum number of sheet metal components
- Options of top, bottom or middle busbars
- Generous bus and cable zones
- Equipment section with room for up to 12 cells per tier
- 35 standard cells in 3 types (see below) with sizes ranging from 150 mm to 1800 mm in height
- Wide range of standard door sizes
- Unique hinging system built into shelves
- Structural skin allows open space for internal fitout – no space wasted by framework



SPECIAL FEATURES

- Superior quality solution
- Operator safety
- Engineering performance
- Flexibility
- Cost effectiveness
- Reliability
- Availability
- IP43/55 protection rating
- 2 mm zinc coated steel construction
- Foamed in place polyurethane gasket
- Fault rating up to 100 kA for 1 second & 65 kA for 3 seconds
- Current rating from 600 - 3400 Amps (4000 Amps incomer)
- Impulse withstand voltage (Uimp) up to 16 kV (busbar system)
- Dielectric withstand of 3.5 kV
- 10 drive module sizes
- Up to 12 drive modules per tier
- Arc fault tested to appendix EE

ACCESSORIES

- Wide range of fixed and hinged door sizes
- Hinged internal escutcheons
- Fixed mounting pans
- Depth adjustable C-Rails
- Hinged insulated panels
- Heavy duty side mounted rails
- Heavy duty unistrut rails
- Accessories such as DIN rail brackets make fitout easy
- Universal construction rail punched at 25 mm increments
- Various busbar configurations



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