

Signature SE Motor Control Centre



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Features

- Protection rating – IP43 & IP55
- Fully ASTA certified to comply with:
AS/NZS 3439.1:2002
BS EN 60439.1:1999
IEC 60439.1:2004
- Short circuit rating – up to 100kA for 1 second and 63kA for 3 seconds
- Main bus current rating – <3400 Amp
- Impulse voltage withstand up to 16kV
- Dielectric withstand of 3.5kV
- Up to 12 drive modules per tier
- <400mm vertical cable zones



OVERVIEW

This modular switchboard system is designed to provide a range of configurations to suit the most stringent specifications and complex applications. Each tier is fully assembled to customer requirements and supplied individually packaged to the switchboard builder for easy final assembly into a complete multi-tier switchboard or MCC unit.

APPLICATION

Designed to offer a type-tested certified solution for heavy-duty Switchboard and MCC applications. The Signature SE range has been installed extensively in numerous mining, industrial and commercial operations throughout Australia and SE Asia.

MATERIALS

- Body – Zinc coated steel
- Body thickness – 2.0mm
- Gasket – FIP polyurethane
- Surface finish – polyester powdercoated

ACCESSORIES

- Busbar supports
- Equipment Modules
- Module escutcheons
- Module mounting pans
- 3P and 4P bus plugs



Signature SE

TECHNICAL INFORMATION – BUSBAR RATINGS

Withstand Current	Main Busbar (Amps)							Vertical Busbar (Amps)			
	700	1250	1400	2000	2500	3200	3400	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	1	1	1	1
Busbar width (mm)	30	80	30	80	80	100	80	40	50	63	80
Busbar thickness (mm)	10	10	10	10	10	10	10	6.3	6.3	6.3	6.3

TECHNICAL INFORMATION – TYPE-TESTS

- The Signature SE range has been extensively type-tested and ASTA certified to AS/NZS3439.
- Type tests include a series of internal arc fault containment (standard) tests to AS/NZS3439.1:1993 APP EE and AS/NZS3439.1:2002 Annex ZD.
- Such tests have been conducted on a number of outgoing feeder and DOL starter circuits in various cell sizes to verify the structural capacity to contain an arc fault within the functional unit. Pressure relief is provided by an exhaust chute and relief flap in the top of the board.

ELECTRONIC DATA

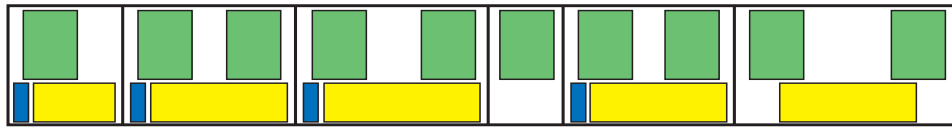
Description	Details
Rated Operating Voltage (Ue)	< 690VAC
Rated Insulation Voltage (Ui)	1000VAC
Impulse Withstand Voltage (Uimp)	< 16kVa
Phases Configuration	3P and 4P
Main Bus Current Rating	< 3400A
Vertical Bus Current Rating	< 1000A
Bus Rated Short Time Withstand Current	< 65kA for 3 seconds 80kA for 1 second
Arc Fault Containment (Standard Tests)	Annex ZD
Form of Segregation	< 4b
Connection Type	Fixed / Demountable

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Townsville P +61 7 4727 1900
Sydney P +61 2 9915 9555
Newcastle P +61 2 4961 4433
Victoria P +61 3 9552 0552
South Australia P +61 8 8417 6222

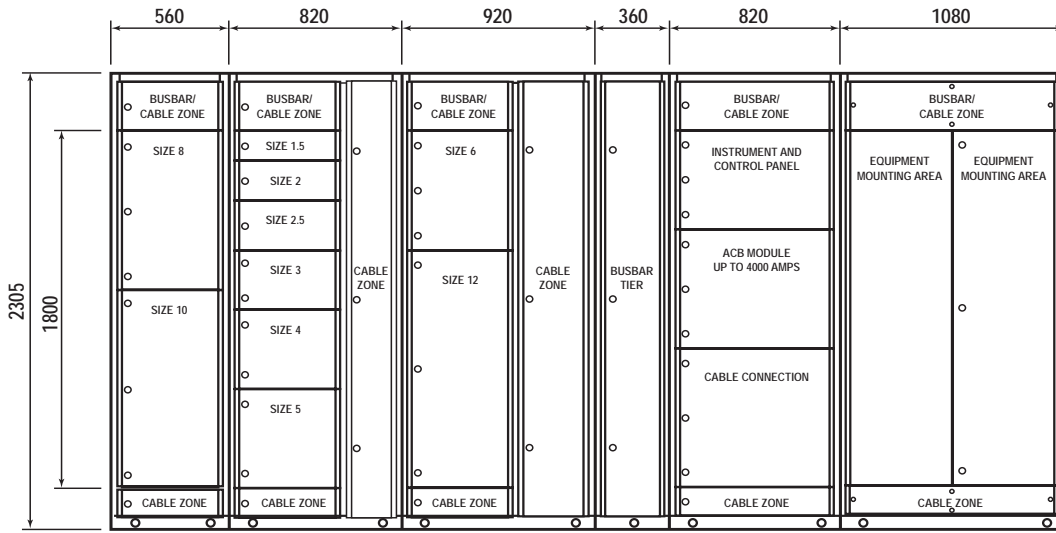
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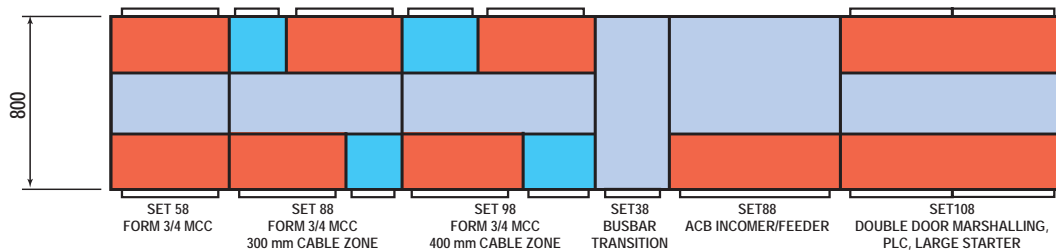
Technical Drawings



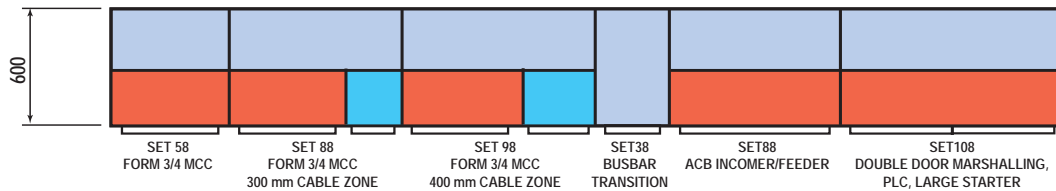
PLAN VIEW ROOF DETAIL



TYPICAL MCC TIERS



STANDARD DOUBLE FRONTED TIER CONFIGURATIONS



STANDARD SINGLE FRONTED TIER CONFIGURATIONS

