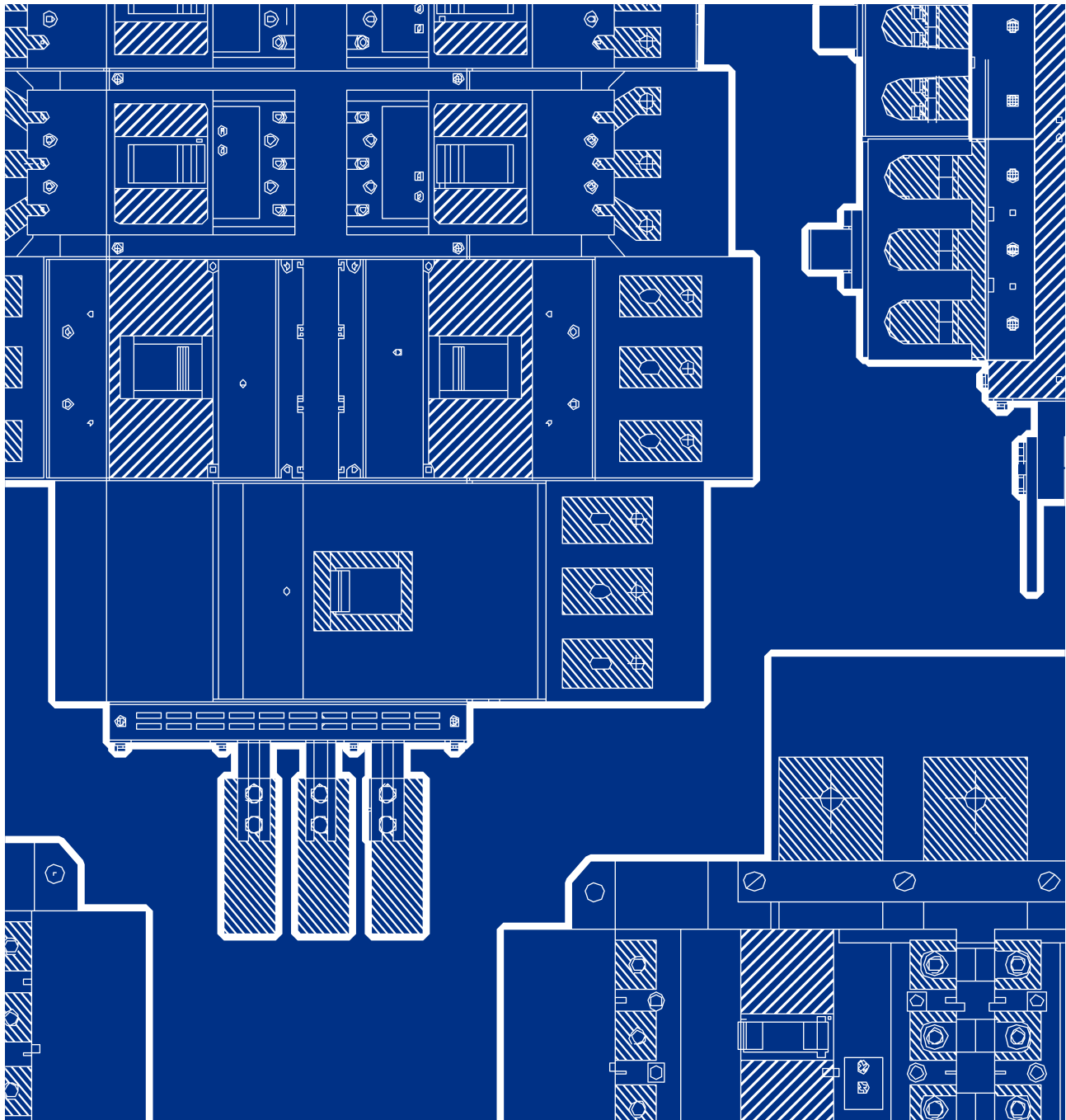


# Power Distribution and Protection

## Circuit Protection



MCCB Chassis Ordering Guide

# TemBreak chassis systems

## Overview

MCCBs are often required to be mounted singly, in the case of a motor control centre, or in groups, as part of a larger power distribution system. To help assist with grouped MCCB power distribution requirements, NHP manufacture standardised bus-bar systems, simply called chassis. NHP stock a range of basic chassis which can be purchased “off the shelf”, while more complex, or higher current chassis, are produced on a custom basis to suit a customer specification.

## Common features

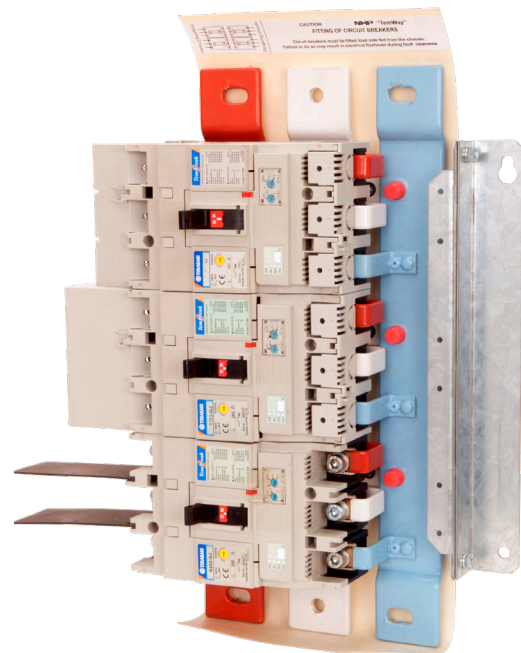
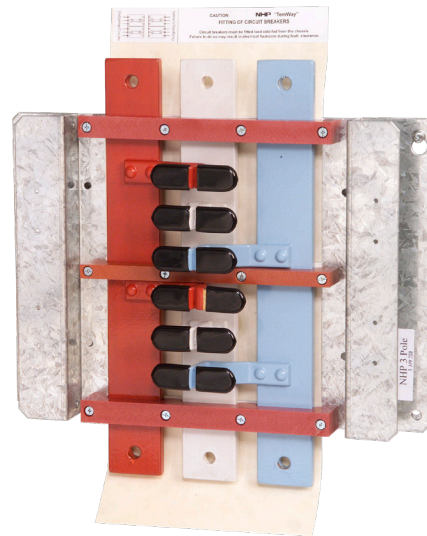
- A mounting channel bracket common to TemWay chassis to make installation quicker and easier
- All chassis suitable for use up to 690 V AC

## TemWay XEP, XAP, XBP, XBPSS, XCP chassis

- 36 kA Icw rating for XEP chassis
- 36 kA Icw rating on TemWay XAP, XBP and XBPSS chassis
- 50 and 65 kA Icw ratings on TemWay XCP chassis
- XCP 1000 A chassis are stocked with 400 A and 250 A tee off combinations
- TemWay 4 pole XAP and XBP chassis, are available suitable for earth leakage MCCBs

## Heavy current “HC” chassis

- HC heavy current chassis for MCCBs, 20 - 1250 A
- HC heavy current chassis, compact single sided version, or double sided
- 11 box sizes – more economical sizing to suit applications. Saves cost
- Common configurations of HC chassis now stocked - fully assembled for quick delivery
- Stocked completely assembled HC chassis types in common requested configurations for
- “Off the shelf” delivery



## Testing



TemWay and HC Chassis have been type tested in Australia, at the short time ratings shown on the next page.



## Selection Guide

Chassis type	Description	Main bar rating (A)	I <sub>cw</sub> fault current withstand rating	Suits MCCB frame size	MCCB types
XEP	Double sided, 3P	630 A	36 kA for 1 sec	25 mm pole centres	A160: 16 – 160 A
XAP	Double sided, 3P or 4P	630 / 800 A	36 kA for 1 sec	30 mm pole centres	P160: to 160 A, ZS125: to 125 A
XBP	Double sided, 3P or 4P	800 A		35 mm pole centres 250AF	A250, P250, ZS250 12 A to 250 A Not for types: B160, B250
XBPSSL	Single sided left connection, 3P	800 A			
XBPSSR	Single sided right connection, 3P	800 A			
XCP	Double sided 3P	1000 A	50 kA for 1 sec	250AF standard, P160, 125AF and 400AF optional	A250, P250, ZS250 12 A to 250 A Not for types: B160, B250 P160, ZS125 tee offs optional P400 tee offs optional
HC	Double or single sided options 3P or 4P (single sided only)	1250 A	65 kA for 1 sec	250AF, 630AF, 1000AF, 1250 A (B1250)	A250, P250, B160, B250 P400, P630, B800, B1250 ZS250 Not suited to B1000 (1000 A)
		1600 A			
		2200 A			

## MCCB types to suit XEP, XAP, XBP, XBPSS, XCP and HC chassis

XEP	XAP	XBP	XBPSS	XCP	HC <sup>1)2)</sup>	MCCB depth (mm)	
<b>Main bar sizes: 630 A</b>	Main bar sizes: 630 A / 800 A	Main bar size: 800 A	Main bar size: 800 A	Main bar size: 1000 A	Main bar sizes: 1250 A, 1600 A, 2200 A	–	
A160E_FF 16 – 125 A	P160F_FF 15 – 125 A	–	–	–	–	68 mm	
A160E_TF 16 – 160 A	P160F 12 – 160 A	–	–	–	–	68 mm	
A160F_TF 16 – 160 A	P160N 12 – 160 A	–	–	–	–	68 mm	
–	P160H 12 – 160 A	–	–	–	–	68 mm	
–	ZS125 12 – 125 A	–	–	–	–	68 mm	
 <p>A160, A250, P160, P250, ZS125, ZS250 MCCBs are 68 mm deep</p>		B160E 16 – 160 A	B160E 16 – 160 A	B160E 16 – 160 A	B160E 16 – 160 A	68 mm	
			A250E 63 – 250 A	A250E 63 – 250 A	A250E 63 – 250 A	A250E 63 – 200 A	68 mm
			A250F 100 – 250 A	A250F 100 – 250 A	A250F 100 – 250 A	A250F 100 – 200 A	68 mm
			P250F 32 – 250 A	P250F 32 – 250 A	P250F 32 – 250 A	P250F 32 – 200 A	68 mm
			P250N 32 – 250 A	P250N 32 – 250 A	P250N 32 – 250 A	P250N 32 – 200 A	68 mm
			P250H 32 – 250 A	P250H 32 – 250 A	P250H 32 – 250 A	P250H 32 – 200 A	68 mm
			ZS250 160 - 250 A	ZS250 160 - 250 A	ZS250 160 - 250 A	ZS250 160 - 200 A	68 mm
 <p>B160, B250 MCCBs are 103 mm deep, with different terminal heights compared to A and P series MCCBs.</p>					B160 12 – 160 A	103 mm <sup>1)</sup>	
						B250_TM 100 – 200 A	103 mm <sup>1)</sup>
						B250_BE 16 – 200 A	103 mm <sup>1)</sup>
						B250_SE 16 – 200 A	103 mm <sup>1)</sup>
					P400_TM 160 – 400 A	–	103 mm
					P400_BE 100 – 400 A	P400_BE 100 – 400 A	103 mm
					P400_SE 100 – 400 A	P400_SE 100 – 400 A	103 mm
						P630_BE 252 – 630 A	103 mm
						P630_SE 252 – 630 A	103 mm
						B800_TM 396 – 800 A	103 mm
					B800_BE 252 – 800 A	103 mm	
					B800_SX/SE 252 – 800 A	103 mm	
					B1250N 500A – 1250 A	103 mm	
					B1250HL 500A – 1250 A	103 mm	

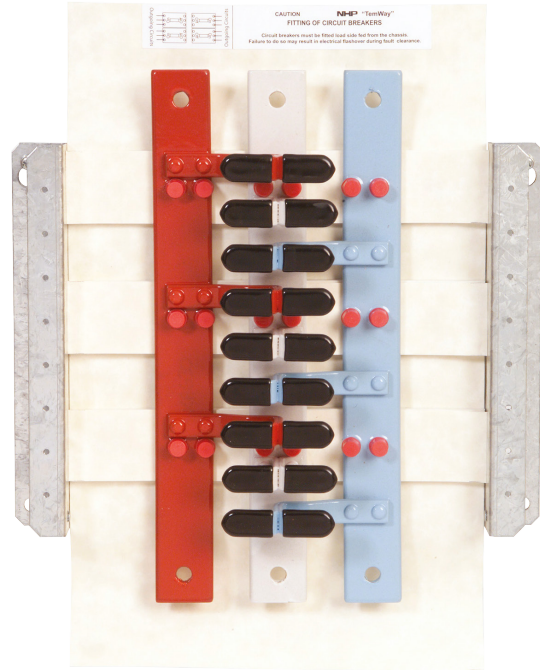
### Notes:

- B160 and B250, 250 AF MCCBs are deeper and have different terminal heights compared P and A series MCCBs, and cannot therefore be used with XAP, XBP, XBPSS, XCP chassis.
  - B160 / B250 MCCB tee offs must be specified for HC Chassis. A and P series MCCBs use different tee offs on HC chassis. All MCCB types must be specified for correct tee-off fitment.
- HC Chassis will not accept TemBreak 1, 125 AF, 250 AF and 400 AF MCCBs.
  - TemWay XAP, XBP, XBPSS and XCP chassis will accept TemBreak 2, 125 AF, 250 AF, 400 AF MCCBs.
  - A250, P250, B250 MCCBs with a 250 A trip unit are limited to operate at a maximum of 200 A.

## XEP Chassis for A160E, A160F: 16 - 160 A MCCBs 3 Pole Double sided

### Features

- Complies with AS/NZS 61439, AS/NZS 3000 - 2018
- Suits TemBreak PRO Thermal Magnetic A160 MCCBs
- 16 A to 160 A
- 3 Pole, Double sided
- Top and bottom fed
- Side mounting rail for quick mounting of chassis
- 630 A main busbars, fully insulated
- XEP chassis rated: 36 kA for 1 second



### XEP 630 (25 mm pole centres) – Suits A160\_FF, A160E\_TF, A160F\_TF

No. of Poles	Cut-out height <sup>1)</sup> (mm)	Pan height <sup>2)</sup> (mm)	Catalogue No. 630 A
12	182	180	XEP630 12U
18	272	270	XEP630 18U
24	362	360	XEP630 24U
30	452	450	XEP630 30U
36	542	540	XEP630 36U
42	632	630	XEP630 42U
48	722	720	XEP630 48U
60	902	900	XEP630 60U
72	1082	1080	XEP630 72U

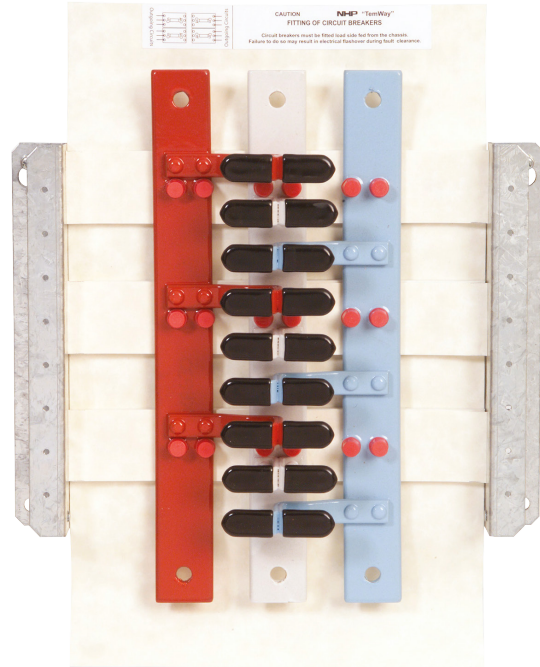
#### Notes:

- 1) The length of the escutcheon cut-out.
- 2) Busbars extend 50 mm beyond the pan length at the top and bottom on XEP chassis.

## XAP / XBP Chassis for 12 A – 250 A MCCBs 3 Pole Double sided

### Features

- Complies with AS/NZS 61439, AS/NZS 3000 - 2018
- Suits TemBreak PRO thermal magnetic and electronic MCCBs 20 A to 250 A <sup>7)</sup>
- Top and bottom fed
- XAP chassis has 630 A or 800 A main busbars, fully insulated
- XBP chassis has 800 A main busbars, fully insulated
- Side mounting rail for quick mounting of chassis
- XAP and XBP chassis rated:
  - 36 kA for 1 second
- Optional side rails can be added to an XAP chassis to allow installation of ZS125 ELCBs and previous TemBreak 1 and 2 MCCBs



### XAP630 and XAP800 (30 mm pole centres) – Suits P160\_FF, P160, ZS125 MCCBs (not B160<sup>6)</sup>) <sup>3) 4) 5)</sup>

No. of Poles	Cut-out height <sup>1)</sup> (mm)	Pan height <sup>2)</sup> (mm)	Catalogue No. 630 A	Catalogue No. 800 A	Side mount add-on bracket for 125AF MCCB mtg <sup>3)</sup>
12	182	180	XAP630 12U	XAP800 12U	TBP SXAP TB2 6 12
18	272	270	XAP630 18U	XAP800 18U	TBP SXAP TB2 6 18
24	362	360	XAP630 24U	XAP800 24U	TBP SXAP TB2 6 24
30	452	450	XAP630 30U	XAP800 30U	TBP SXAP TB2 6 30
36	542	540	XAP630 36U	XAP800 36U	TBP SXAP TB2 6 36
42	632	630	XAP630 42U	XAP800 42U	TBP SXAP TB2 6 42
48	722	720	XAP630 48U	XAP800 48U	TBP SXAP TB2 6 48
60	902	900	XAP630 60U	XAP800 60U	TBP SXAP TB2 6 60
72	1082	1080	XAP630 72U	XAP800 72U	TBP SXAP TB2 6 72

### XBP800 (35 mm pole centres) – Suits A250, P250, ZS250 MCCBs (not B250<sup>6)</sup>) <sup>4) 5)</sup>

No. of Poles	Cut-out height <sup>1)</sup> (mm)	Pan height <sup>2)</sup> (mm)	Catalogue No. 630 A	Catalogue No. 800 A
12	212	210	–	XBP800 12U
18	317	315	–	XBP800 18U
24	422	420	–	XBP800 24U
30	527	525	–	XBP800 30U
36	632	630	–	XBP800 36U
42	737	735	–	XBP800 42U
48	842	840	–	XBP800 48U
60	1052	1050	–	XBP800 60U
72	1262	1260	–	XBP800 72U

#### Notes:

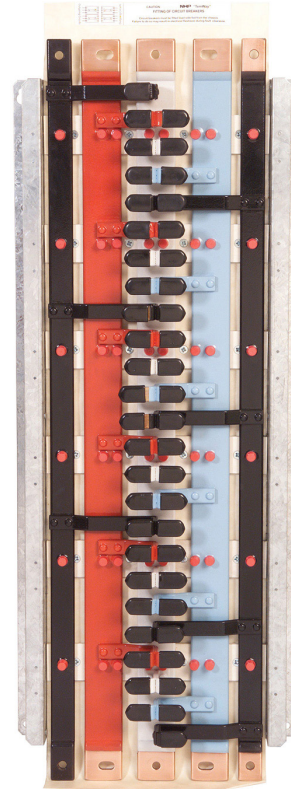
- 1) The length of the escutcheon cut-out.
- 2) Busbars extend 50 mm beyond the pan length at the top and bottom on XAP, XBP chassis.
- 3) Brackets are available which mount on each side an XAP chassis which allow the fitting of ZS125 ELCBs and previous TemBreak 2, 125 AF MCCBs, which are 155 mm long compared to P160 MCCBs which are 130 mm long. TBPSXAPTB side mount brackets are to be ordered separately when ordering a standard XAP chassis. The brackets are supplied as single brackets, so for double sided use, order 2. For single sided use, order 1. Further details can be found by referring to the XAP dimensions.
- 4) XAP chassis + side brackets will suit TemBreak 2, 125AF MCCBs and XBP chassis as standard will suit TemBreak 2, 250AF MCCBs.
- 5) TemBreak 2 125AF MCCBs when fitted to an XAP chassis will have different escutcheon cutout position centres compared to P160 MCCBs.
- 6) A HC chassis will allow fitting of B160 or B250 MCCBs, due to their depth and terminal heights. B type MCCBs will not fit onto XAP, XBP or XCP chassis.
- 7) TemBreak PRO P160, A250, P250 and ZS125/250 earth leakage, thermal magnetic and electronic MCCB have the same 68 mm depth.
- For Chassis to suit 103 mm deep TemBreak 2 MCCBs, refer NHP.



## XAP / XBP Chassis for 12 A – 250 A MCCBs 4 Pole Double Sided

### Features

- Complies with AS/NZS 61439, AS/NZS 3000 - 2018
- Suits TemBreak PRO thermal magnetic and electronic MCCBs 20 A to 250 A <sup>7)</sup>
- Top and bottom fed
- XAP chassis has 630 A main busbars, fully insulated
- XBP chassis has 800 A main busbars, fully insulated
- Side mounting rail for quick mounting of chassis
- XAP and XBP chassis rated:
  - 36 kA for 1 second
- 630 A 4P chassis have one neutral bar, 800 A 4P types have 2 neutral bars
- XAP 4 pole chassis will allow fitting of P160 and ZS125 MCCBs, with no side rail being required <sup>3)</sup>



### XAP630 and XAP800 (30 mm pole centres) – Suits P160\_FF, P160, ZS125 MCCBs (not B160<sup>6)</sup>) <sup>4) 5)</sup>

No. of Poles	Cut-out height <sup>1)</sup> (mm)	Pan height <sup>2)</sup> (mm)	Catalogue No. 630 A	Catalogue No. 800 A
16	242	270	XAP630 16U 4POLE	XAP800 16U 4POLE
24	362	390	XAP630 24U 4POLE	XAP800 24U 4POLE
32	482	510	XAP630 32U 4POLE	XAP800 32U 4POLE
40	602	630	XAP630 40U 4POLE	XAP800 40U 4POLE
48	722	750	XAP630 48U 4POLE	XAP800 48U 4POLE
56	842	850	XAP630 56U 4POLE	XAP800 56U 4POLE
64	962	990	XAP630 64U 4POLE	XAP800 64U 4POLE

### XBP800 (35 mm pole centres) – Suits A250, P250, ZS250 MCCBs (not B250<sup>6)</sup>) <sup>4) 5)</sup>

No. of Poles	Cut-out height <sup>1)</sup> (mm)	Pan height <sup>2)</sup> (mm)	Catalogue No. 630 A	Catalogue No. 800 A
16	282	315	–	XBP800 16U 4POLE
24	422	455	–	XBP800 24U 4POLE
32	562	595	–	XBP800 32U 4POLE
40	702	735	–	XBP800 40U 4POLE
48	842	875	–	XBP800 48U 4POLE

#### Notes:

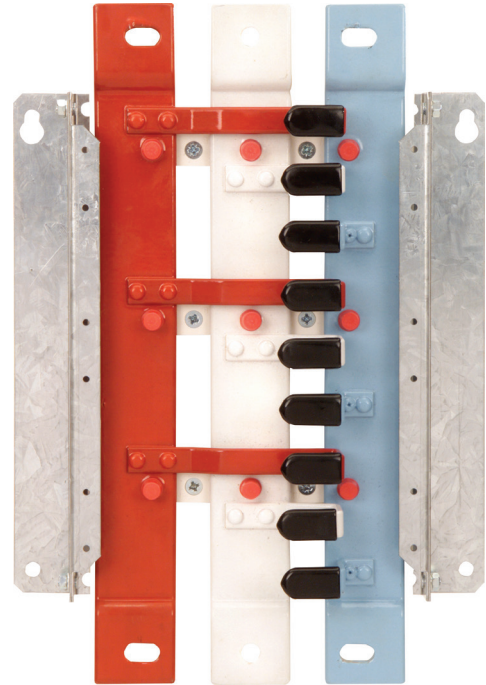
- 1) The length of the escutcheon cut-out.
- 2) Busbars extend 50 mm beyond the pan length at the top and bottom on XAP, XBP chassis.
- 3) XAP 4 pole chassis do not require a special side rail to be fitted for installing ZS125 ELCBs, unlike XAP 3 pole chassis. This is because XAP 4 pole chassis have sets of parallel holes for either P160 or ZS ELCB mounting. The escutcheon cut-outs will be different - see cut-out details.
- 4) XAP 4 pole chassis will suit TemBreak 2, 125AF MCCBs and XBP chassis as standard will suit TemBreak 2, 250AF MCCBs.
- 5) TemBreak 2 MCCBs when fitted to an XAP chassis will have a different escutcheon cutout position compared to P160 MCCBs.
- 6) A HC chassis will allow fitting of B160 or B250 MCCBs, due to their depth and terminal heights. B type MCCBs will not fit onto XAP, XBP or XCP chassis.
- 7) TemBreak PRO P160, A250, P250 and ZS125/250 earth leakage, thermal magnetic and electronic MCCB have the same 68 mm depth.
  - For Chassis to suit 103 mm deep TemBreak 2 MCCBs, refer NHP.
  - XAP800\_4POLE and XBP800\_4POLE chassis have 2 neutral bars. This is to keep the same width pan as 630 A 4P types, which have one wider neutral bar only.



## XBP SS Chassis for 12 A – 250 A MCCBs 3 Pole Single Sided

### Features

- Single sided MCCB mounting
- Different chassis for left or right side MCCB mounting
- Complies with AS/NZS 61439, AS/NZS 3000 - 2018
- Suits TemBreak PRO thermal magnetic and electronic MCCBs 20 A to 250 A <sup>6)</sup>
- Current ratings of MCCBs range 12 A to 250 A
- Top and bottom fed
- 800 A main busbars, fully insulated
- Side mounting rail for quick mounting of chassis
- XBP SS chassis rated:
  - 36 kA for 1 second



### XBP SSL 800 (35 mm pole centres) LEFT hand single sided 3 pole (MCCB load side connections at LEFT) Suits A250, P250, ZS250GJ MCCBs (not B250) <sup>4)</sup>

No. of Poles	Cut-out height <sup>1)</sup> (mm)	Pan height <sup>2)</sup> (mm)	Catalogue No. 800 A
6	212	210	XBPSSL 800 6U
9	317	315	XBPSSL 800 9U
12	422	420	XBPSSL 800 12U
15	527	525	XBPSSL 800 15U
18	632	630	XBPSSL 800 18U
21	737	735	XBPSSL 800 21U
24	842	840	XBPSSL 800 24U
30	1052	1050	XBPSSL 800 30U
36	1262	1260	XBPSSL 800 36U

### XBP SSR 800 (35 mm pole centres) RIGHT hand single sided 3 pole (MCCB load side connections at RIGHT) Suits A250, P250, ZS250GJ MCCBs (not B250) <sup>4)</sup>

No. of Poles	Cut-out height <sup>1)</sup> (mm)	Pan height <sup>2)</sup> (mm)	Catalogue No. 800 A
6	212	210	XBPSSR 800 6U
9	317	315	XBPSSR 800 9U
12	422	420	XBPSSR 800 12U
15	527	525	XBPSSR 800 15U
18	632	630	XBPSSR 800 18U
21	737	735	XBPSSR 800 21U
24	842	840	XBPSSR 800 24U
30	1052	1050	XBPSSR 800 30U
36	1262	1260	XBPSSR 800 36U

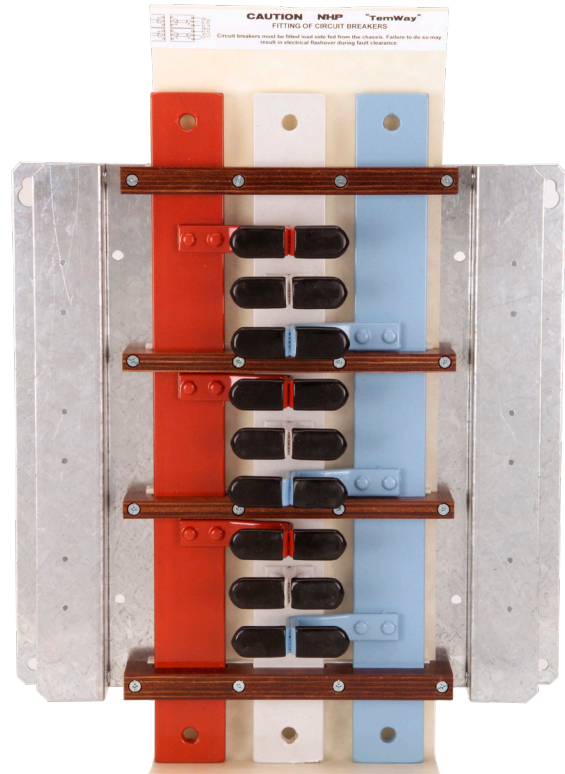
#### Notes:

- 1) The length of the escutcheon cut-out.
- 2) Busbars extend 50 mm beyond the pan length at the top and bottom on XAP, XBP chassis.
- 3) XBPSS chassis also suit TemBreak 2, 250AF MCCBs.
- 4) A HC chassis will allow fitting of B160 or B250 MCCBs, due to their depth and terminal heights. B type MCCBs will not fit onto XBPSS chassis.
- 5) TemBreak PRO A250, P250 and ZS250 earth leakage, thermal magnetic and electronic MCCB have the same 68 mm depth.
  - For Chassis to suit 103 mm deep TemBreak 2 MCCBs, refer NHP.

## XCP Chassis: 16 - 400A MCCBs<sup>3)</sup> 3 Pole Double Sided

### Features

- Complies with AS/NZS 61439, AS/NZS 3000 - 2018
- Suits TemBreak PRO thermal magnetic and electronic MCCBs 16 A to 250 A
- P160 - 30 mm pole centre, ZS125 (125AF) tee-offs and P400 - 400 A tee-offs optional<sup>5)</sup>
- Common combinations of 250 A and 400 A tee off versions are stocked
- Top and bottom fed
- 1000 A main busbars, fully insulated
- Side mounting rail for quick mounting of chassis
- XCP chassis rated:
  - 50 kA for 1 second



### XCP1000 Suits MCCB types: A250, P250, ZS250 MCCBs (not B160 or B250)<sup>3) 4) 5) 6)</sup>

No. of Poles	Cut-out height <sup>1)</sup> (mm)	Pan height <sup>2)</sup> (mm)	Catalogue No. 1000 A
12	212	210	XCP 1000 12U
18	317	315	XCP 1000 18U
24	422	420	XCP 1000 24U
30	527	525	XCP 1000 30U
36	632	630	XCP 1000 36U
42	737	735	XCP 1000 42U
48	842	840	XCP 1000 48U

#### Notes:

- 1) The length of the escutcheon cut-out.
  - 2) Busbars extend 50 mm beyond the pan length at the top and bottom on an XCP chassis.
  - 3) XCP chassis also suit TemBreak 2, 250AF and 400AF MCCBs.
  - 4) XCP chassis can be custom built for alternate combinations of 250 A MCCBs, and up to 2 x 400 AF MCCBs.
  - 5) XCP chassis can be built with 30 mm pole centre tee offs to allow P160 or ZS125 (3 pole) ELCB installation.
  - 6) A HC chassis will allow fitting of B160 or B250 MCCBs, due to their depth and terminal heights. B type MCCBs will not fit onto XCP chassis.
- TemBreak PRO A250, P250 and ZS250 earth leakage, thermal magnetic and electronic MCCB have the same 68 mm depth.



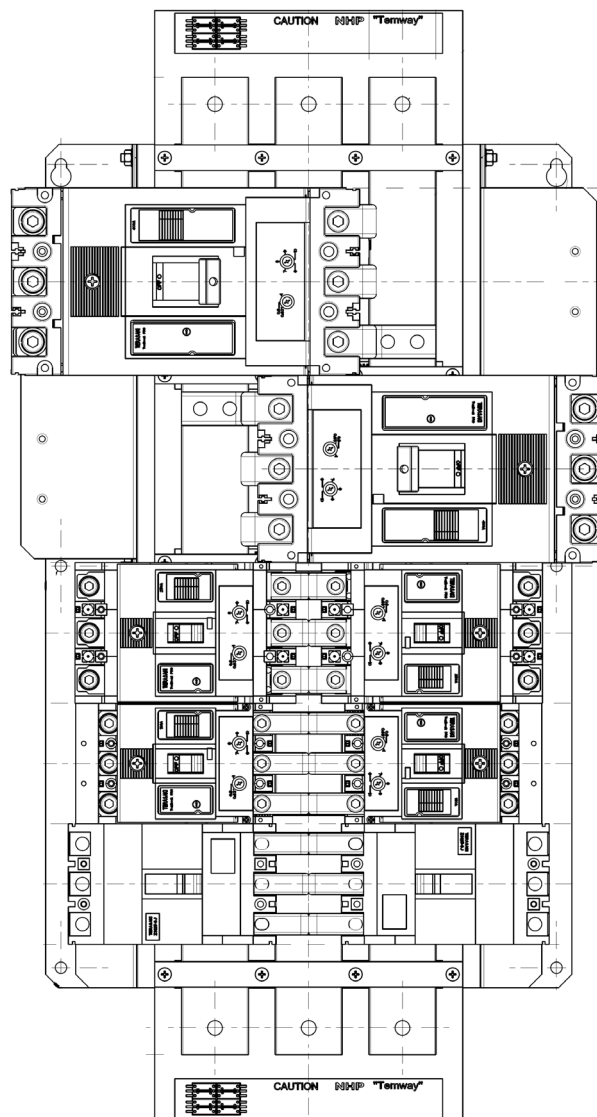
## Standard stock configuration of XCP 1000 Chassis for 250 A and 400 A MCCBs

As an alternative to using a larger HC high current chassis, where up to 2 x 400 A and up to 6 x 68 mm deep 250 A MCCBs need to be installed, common configurations of stocked XCP chassis can be used. Alternative versions can be ordered on a custom basis using the TemWay custom chassis ordering form on the following pages, and by contacting NHP to obtain a quote to order.

### 400 A Tee-Offs

400 Amp tee offs are located at the top of the chassis, unless specified.

The stocked XCP chassis with 400 A MCCB tee offs, will mount the 400 A MCCB in a right hand, single sided configuration – for user right side load side connection. Other connection types are optional.



### XCP1000

Suits MCCB types: A250, P250, ZS250 MCCBs (not B160 or B250) <sup>3) 4) 5) 6)</sup>

No. of Poles	Pan Height (mm)	Chassis configured for MCCBs below	Catalogue No. 3 Pole, 1000 A
Refer to the quantity of 250 A or 400 A MCCBs that can be installed on the chassis for an indication of available poles	415	1 x 400 A and 4 x 250 A	XC1000 1X4R 12U
	625	1 x 400 A and 8 x 250 A	XC1000 1X4R 24U
	835	1 x 400 A and 12 x 250 A	XC1000 1X4R 36U
	555	2 x 400 A and 4 x 250 A	XC1000 2X4R 12U
	765	2 x 400 A and 8 x 250 A	XC1000 2X4R 24U
	975	2 x 400 A and 12 x 250 A	XC1000 2X4R 36U

#### Notes:

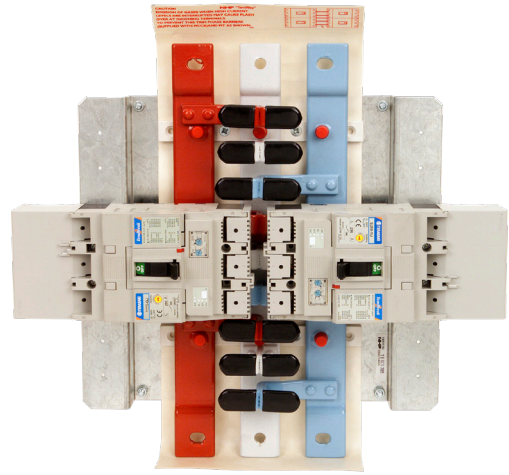
- The length of the escutcheon cut-out.
  - Busbars extend 50 mm beyond the pan length at the top and bottom on an XCP chassis.
  - XCP chassis also suit TemBreak 2, 250AF and 400AF MCCBs.
  - XCP chassis can be custom built for alternate combinations of 250 A MCCBs, and up to 2 x 400 AF MCCBs.
  - XCP chassis can be built with 30mm pole centre tee offs to allow P160 or ZS125 (3 pole) ELCB installation.
  - A HC chassis will allow fitting of B160 or B250 MCCBs, due to their depth and terminal heights. B type MCCBs will not fit onto XCP chassis.
- \* TemBreak PRO A250, P250 and ZS250 earth leakage, thermal magnetic and electronic MCCB have the same 68 mm depth.



## Terminal cover options for XEP, XAP, XBP, XBPSS, XCP chassis

### Installation considerations

- MCCBs on the chassis are to be reverse connected, that is, connect the “bottom” of breaker to the chassis tee offs
- Terminal covers or interpole barriers or other insulation material, must be fitted at MCCB load side, (top of MCCB) which is the end of the MCCB that vents fault interruption exhaust



Above: XB80018U double sided chassis

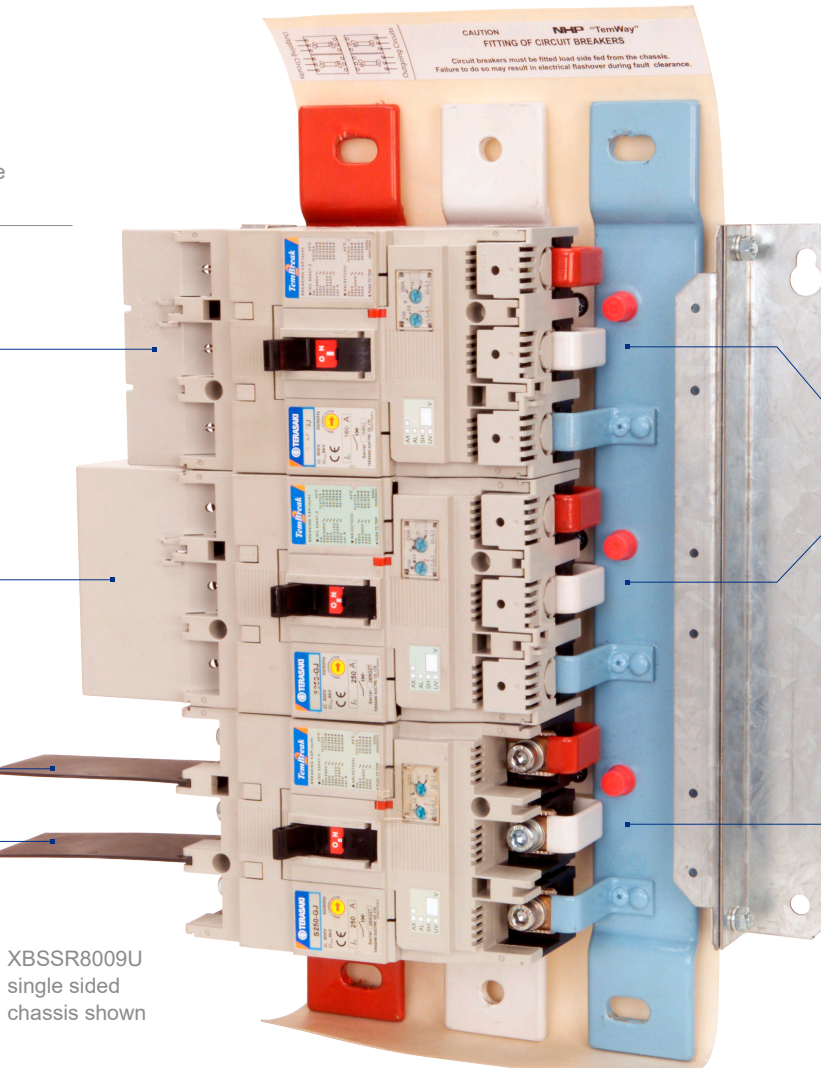
#### Load Side

Terminal or interpole barriers below:

T2CF Short terminal cover

T2CF Standard terminal cover

T2BA Interpole barriers



XBSSR8009U single sided chassis shown

#### Line Side

OPTIONAL covers below:

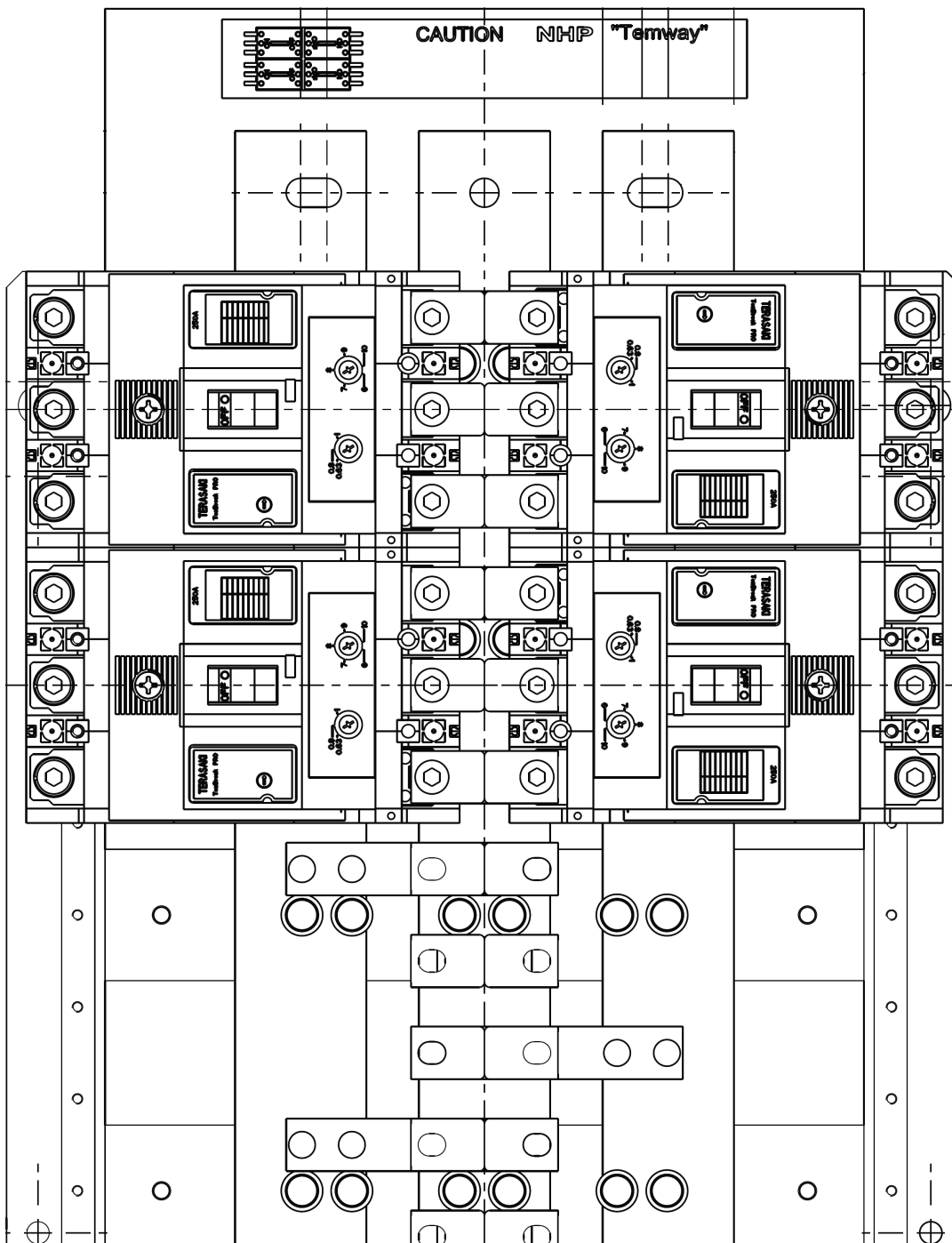
T2CS flush terminal covers

No cover option



P250 MCCBs mounted on an XBP chassis. Note correct reverse connection installation label at the top of the chassis assembly.

(Line and load side terminal covers yet to be installed)





# TemWay MCCB special chassis order form

XEP, XAP, XBP, XBPSS, XCP specials, double sided and single sided chassis

### Temway MCCB Special Chassis | Order Form

XEP, XAP, XBP, XBPSS, XCP specials, Double-sided and Single-sided chassis

Ordering Branch / Agent:	Branch contact:
Branch Sales Order No.:	
Branch transfer Order No.:	

**CUSTOMER DETAILS**

Customer:	Customer order number:
	Contact name:
Deliver to:	Project:
	Request delivery date:

	L RED	L2 WHITE	L3 BLUE	N BLACK	
Double/ single sided tee off quantities					<div style="background-color: #0056b3; color: white; padding: 2px; margin-bottom: 5px;"><b>Application</b></div> <input type="checkbox"/> DC chassis (2 pole) <input type="checkbox"/> 1 Phase and neutral <input type="checkbox"/> 2 Phase <input type="checkbox"/> 2 Phase and neutral <input type="checkbox"/> 3 Phase <input type="checkbox"/> 4 Pole (3P + N: XBP only)
12/6					<div style="background-color: #0056b3; color: white; padding: 2px; margin-bottom: 5px;"><b>Type and entry</b></div> <input type="checkbox"/> XEP <input type="checkbox"/> Top feed <input type="checkbox"/> XAP <input type="checkbox"/> Bottom feed <input type="checkbox"/> XBP <input type="checkbox"/> XBPSSL (Left side) <span style="font-size: small;">(show location on the drawing)</span> <input type="checkbox"/> XBPSSR (Right side) <input type="checkbox"/> XCP <input type="checkbox"/> Dual feed (standard)
18/6					<div style="background-color: #0056b3; color: white; padding: 2px; margin-bottom: 5px;"><b>MCCB type</b></div> <input type="checkbox"/> A160 3 Pole = 75 mm <input type="checkbox"/> P160 3 Pole = 90 mm <input type="checkbox"/> ZS125 3 Pole = 90 mm <input type="checkbox"/> A250,P250,ZS250 3 Pole = 105 mm <input type="checkbox"/> B250 3 Pole = 105 mm <input type="checkbox"/> P400 3 Pole = 140 mm <input type="checkbox"/> P160 4 Pole = 120 mm <input type="checkbox"/> ZS125 4 Pole = 120 mm <input type="checkbox"/> A250,P250,ZS250 4 Pole = 140 mm
24/12					<div style="background-color: #0056b3; color: white; padding: 2px; margin-bottom: 5px;"><b>Busbar rating</b></div> <input type="checkbox"/> 630 Amp <input type="checkbox"/> 800 Amp <input type="checkbox"/> 1000 Amp (XCP only)
30/15					<div style="background-color: #0056b3; color: white; padding: 2px; margin-bottom: 5px;"><b>Notes</b></div> <div style="border: 1px solid #ccc; height: 30px; width: 100%;"></div>
36/18					
42/21					
48/24					
60/30					
72/36					

Description _____	Quantity _____	<b>Delivery</b>
Due date _____	Supplier reference No. _____	<input type="checkbox"/> Customer <input type="checkbox"/> Workshop
NHP Ref. No. _____	Works order No. _____	

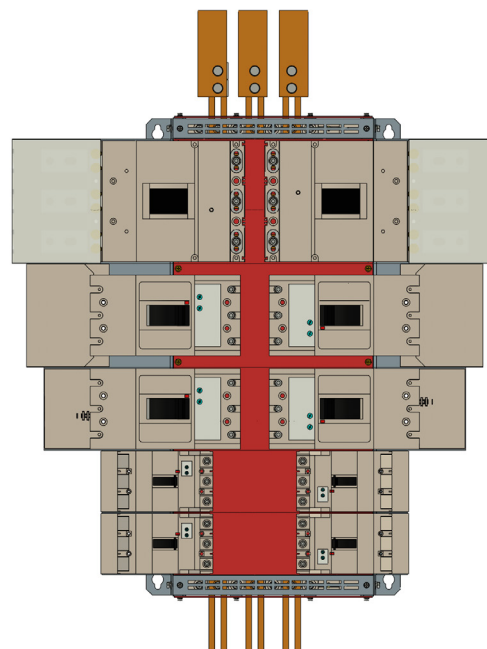
Please send this request form to NHP Electrical Engineering Products (Australia) Pty Ltd  
[gst@nhp.com.au](mailto:gst@nhp.com.au) or by fax on 1300 NHP FAX

Chassis

## HC High Current chassis for 250AF to 1250AF MCCBs

### General Features (stocked and custom types)

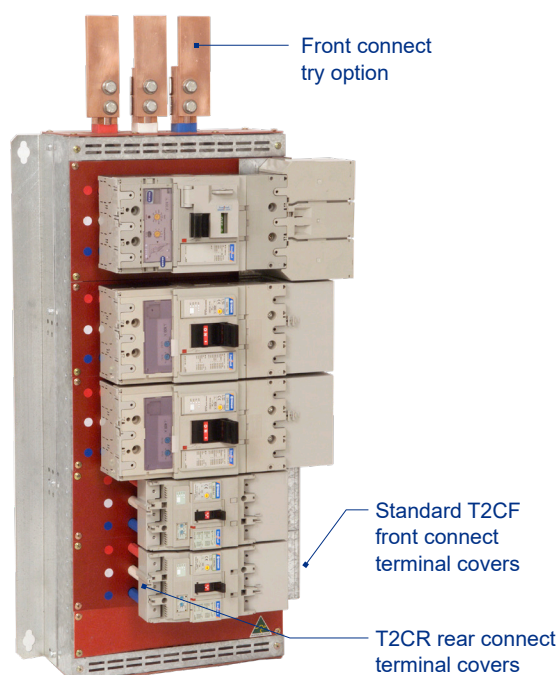
- Double sided 3 pole MCCB chassis
- Compact single sided chassis 3 or 4 pole
- 1250 A, 1600 A or 2200 A rated main bars
- 11 enclosure sizes for more economical chassis sizing
- Front connect tags supplied as standard
- Complies with AS/NZS 61439, AS/NZS 3000 - 2018
- Form of separation 4bih. AS/NZS 62439.1 : 2018
- Circuit breakers are reverse fed as standard
- 4th pole neutral bars 100 % rated
- Accepts MCCBs rated 12 A to 1250 A
- Ordering: choose from pre-assembled types, or custom assembly
- The HC chassis has been type tested in Australia, at a short time rating of 65 kA for 1 second.



### Stocked assembled chassis selection - Suit MCCB amp frames shown below

Main bar rating	Chassis size	800 A 6 units	630 A 5 units	400 A 4 units	250 A 3 units	Catalogue number 3 Pole
1600	DS	–	2 x 630	2 x 400	4 x 250	HCSTD1DS16153
1600	DS	–	4 x 630	–	8 x 250	HCSTD2DS16243
1600	SS left	–	1 x 630	1 x 400	2 x 250	HCSTD3SS16153
1600	SS right	–	1 x 630	1 x 400	2 x 250	HCSTD4SS16153
1600	SS left	–	1 x 630	1 x 400	4 x 250	HCSTD5SS16213
1600	SS right	–	1 x 630	1 x 400	4 x 250	HCSTD6SS16213
2200	SS left	1 x 800	1 x 630	1 x 400	3 x 250	HCSTD7SS22243
2200	SS right	1 x 800	1 x 630	1 x 400	3 x 250	HCSTD8SS22243

Example of a single side HC chassis with MCCBs and terminal covers fitted







# HC High Current chassis – Special Assembly Order Form

## HC High Current Chassis Special Assembly | Order Form



### CUSTOMER DETAILS

Customer:	Account No:
Deliver to:	Order No.:
Contact:	Quantity:
	Price:
	Request delivery date:

UNITS			
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
Size 1	15		610mm
	16		
Size 2	17		718mm
	18		
	19		
Size 3	20		826mm
	21		
	22		
Size 4	23		934mm
	24		
	25		
Size 5	26		1042mm
	27		
	28		
Size 6	29		1150mm
	30		
	31		
Size 7	32		1258mm
	33		
	34		
Size 8	35		1366mm
	36		
	37		
Size 9	38		1474mm
	39		
	40		
Size 10	41		1582mm
	42		
	43		
Size 11	44		1690mm
	45		

Chassis box sizes above  
(Mark MCCB layout above)

### Chassis Specification - Cross (X) boxes for selection

Poles and type	3 Pole	Double-sided
	3 Pole	Single-sided right hand load
	3 Pole	Combination double and RH single-sided
	3 Pole	Single-side left hand load
	3 Pole	Combination double and LH single-sided
	4 Pole	Single-sided right hand load
Entry	4 Pole	Single-sided left hand load
	Top Entry only	
	Bottom Entry only	
	Dual Feed	
Rating 65kA for 1 second	No Extended Bar - Connect via MCCB	
	1250 Amp	2-10 x 20 mm
	1600 Amp	2-10 x 30 mm
	2200 Amp	2-10 x 50 mm

### Ordering TEE OFFs and understanding UNITS:

- One Double-sided Tee Off fits two MCCBs: 1 right sided / 1 left sided
- One Single-sided Tee Off fits one MCCB. Specify left OR right sided
- Add up MCCB unit heights: E.g. 2 x Double-sided 250 A MCCBs = 3 units, whereas 2 single sided 250 A MCCBs = 2 x (3 units) = 6 units high.
- Add up MCCB units to determine total chassis box height required.

### 3 Pole Tee Offs - Double or Single-sided

Qty.	Units	Total	Type
x 3 =		250	A250 / P250 - max rating 200 A
x 3 =		250	B160 / B250 - max rating 200 A
x 4 =		400/630	P400/P630 narrow cover, single sided only
x 5 =		400/630	P400/P630 wide cover, single sided only <sup>1)</sup>
x 6 =		630	B800 (630 A)
x 6 =		800	B800 (800 A)
x 6 =		1250	B1250 (1 per tee-off)

Total Units Indicate 1250A load side Left Right

1) 18mm gap needed on each side of 630 amp frame MCCB's

### 4 Pole Tee Offs - Single-sided Only

Qty.	Units	Total	Type
x 4 =		250	A250 / P250 - max rating 200 A
x 4 =		250P	B160 / B250 - max rating 200 A
x 6 =		400/630	P400 / P630 narrow cover
x 7 =		400/630	P400/P630 wide cover <sup>1)</sup>
x 8 =		630	B800 (630 A)
x 8 =		800	B800 (800 A)
x 8 =		1250	B1250 (1 per tee-off)

Total Units  
1) Change note to 18 mm gap needed on each side of P400 and P630 MCCBs

### Ordering Notes

- NOTE: \*\* 250P Tee Offs Suit B160 and B250 Only  
 \* Chassis are supplied crated and without MCCB's fitted  
 \* All circuit breakers to be fitted reverse fed by customer  
 \* Depth = 269 mm from rear to escutcheon  
 \* Pan Width = 440 mm including mounting channel  
 \* 1 Unit = 36 mm

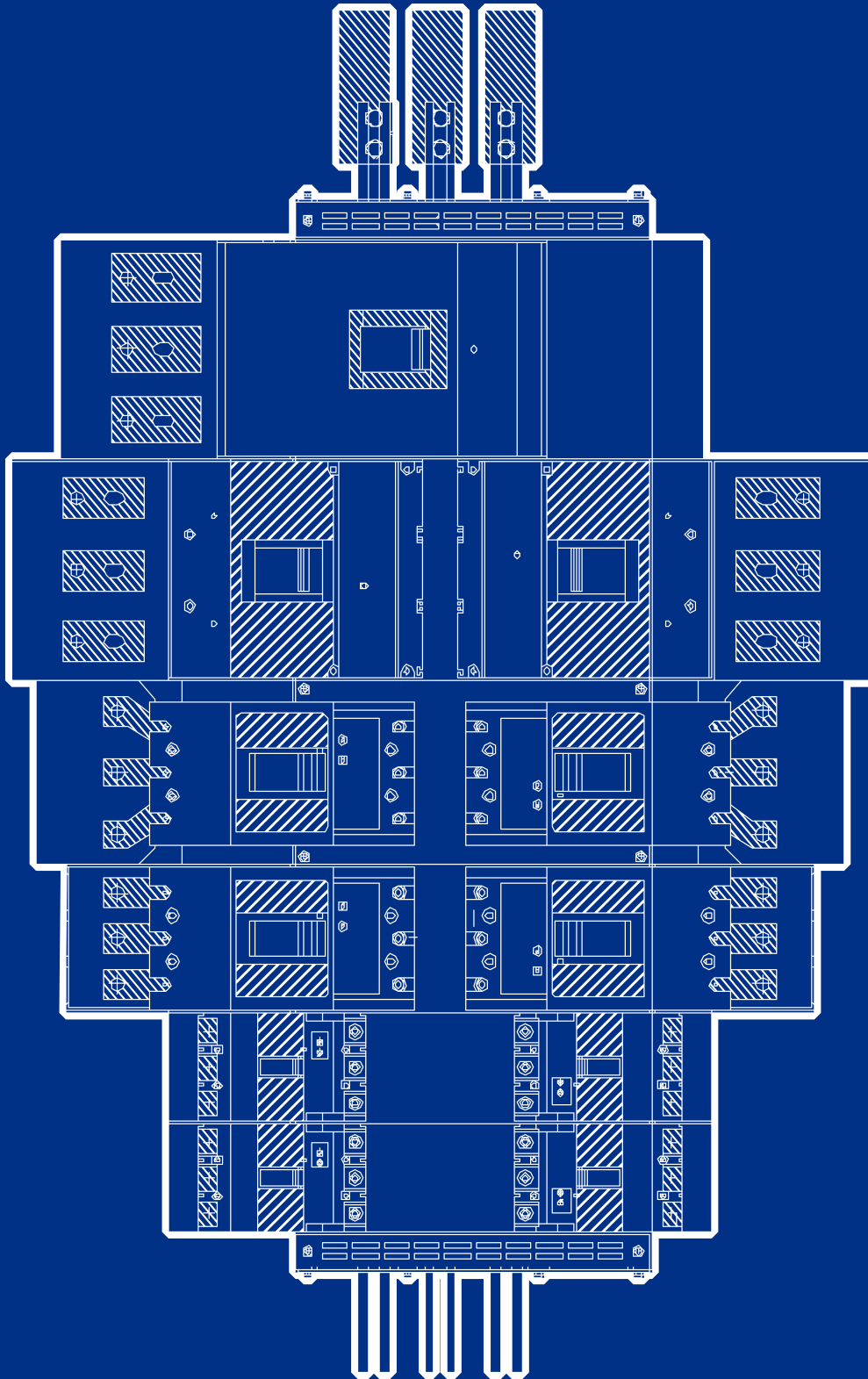
Torque Settings		
MCCB Line Side Bolts		
250 Amps	M6	7Nm
400 - 1000 Amps	M8	14Nm
1250 Amps	M10	30Nm
Main Bar Connections	M10	44Nm

Customer Reference Drawings	
Mounting, Cut Out and Connection Details	
3 Pole Double Sided:	MD-L002584
3 Pole Single Sided:	MD-L002585
4 Pole Left Hand Single Sided:	MD-L002586
4 Pole Right Hand Single Sided:	MD-L002587

INTERNAL USE ONLY
NHP Branch
NHP Contact
Sales Order
Works Order
Requested Ex works Date:



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SALES 1300 NHP NHP  
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## NEW ZEALAND

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sales@nhp-nz.com

## NHP Electrical Engineering Products

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NHP-TECH-PDP-CP-2021-10-20-EN-3.3  
Chassis Ordering Guide V.2021-12-22  
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