

Panelboards, Loadcentres and accessories Busbar chassis assemblies

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Panelboards, loadcentres and accessories

Pole covers for Safe-T series MCBs

- Standard AS/NZS 3132
- Degree of protection IP 30
- Surface mounting
- Colour - Black
- Surface mounting



Safe-T pole covers
single and 3 phase

Pole capacity	Cat. No.
1	SAFE-TPC1
3	SAFE-TPC3

Dimensions (mm)

Poles	Height	Width	Depth
1	160	30	64
3	160	80	64

Pole covers for Din-T series MCBs

- Standard AS 3132
- Suits Din-T6, 10, 10H and 15 MCBs and associated DIN equipment
- Made from high impact resistant material
- Degree of protection IP 30
- Surface mounting
- Colour - Grey
- 2 and 4 way lead sealable

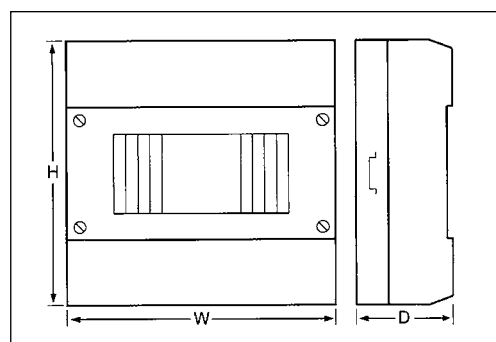


Din-T pole covers
2 and 4 pole

Pole capacity	Cat. No. ¹⁾
2	DTPC2
4	DTPC4
6	DTPC6
8	DTPC8
1 Pole (suits 1P MCB with lockDIN)	DTPC2LD
3 Pole (suits 2P/3P MCB with lockDIN)	DTPC4LD

Dimensions (mm)

Poles	Height	Width	Depth
2	139	51	61
4	139	88	61
6	140	165	72
8	198	200	72



Technical data

Material: Self-extinguishing halogen free polystyrene

Colour: Base: Grey (RAL 7035)

Product extensions	Page
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Notes: ¹⁾ Will not accept DSRCBH single pole RCDs.

Panelboards, loadcentres and accessories

Insulated loadcentres ILC 4S and ILC 8S

2

- Standard AS/NZS 3132
- Suits Din-T6, 10, 10H and 15 MCBs and associated DIN equipment
- IP 43 protection rating
- Surface mounting
- Colour - Grey
- Totally insulated
- Available in 2 versions - 4 and 8 modules
- Made from high impact resistant material
- Comprehensive cable entry facilities at top, bottom, sides and rear
- Modern consumer unit design with attractive styling for new buildings, replacing old units or adding extensions



ILC 4S 4 Module insulated loadcentre

Insulated loadcentres

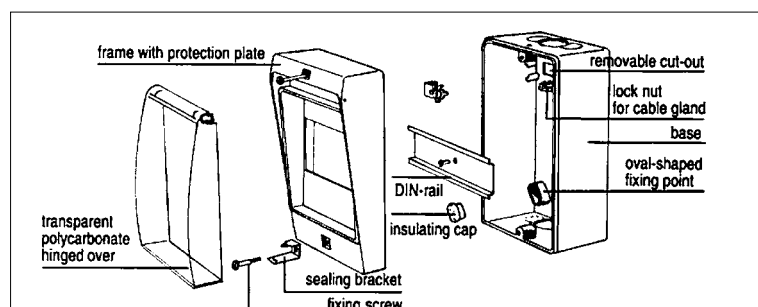
Pole capacity	Cat. No. ¹⁾
4	ILC4S
8	ILC8S
1-3 (suits ≤63 Din-T MCB with LockDin)	ILC4SLD
1-3 (suits 80 - 125 Din-T MCB with LockDin)	ILC4SLD10H

Accessories

Description	Earth	Neutral	Cat. No.
E/N bar kit to suit ILC 4	4 x 10 mm ²	4 x 10 mm ²	ILC4EN
E/N bar kit to suit ILC 8	2 x 16 mm ²	2 x 16 mm ²	ILC8EN
	8 x 10 mm ²	8 x 10 mm ²	
Lead sealing bracket			ILCSB



ILC 8S 8 Module insulated loadcentre, surface mounting



Components

Base

The top and bottom panels have been provided with knockouts for cable or conduit entry, while rectangular cut-outs in the back panel allow for concealed wiring from the rear.

The oval shaped fixing holes allow for perfect horizontal alignment of the enclosure, by allowing final positioning of the box once on the wall.

The insulated caps provided are to be plugged over the fixing screws, thus maintaining the total insulation feature. Provision is made for the incorporation of earth and/or neutral terminal busbars.

DIN rail

A space of 15 mm is left between the rear panel and the DIN rail for easy access to the apparatus. Generous wiring space has also been provided by leaving a large distance between the top and bottom panel of the base and the DIN rail.

Front cover

The front cover is fixed onto the base with quick-fastening screws. The front cover can be sealed to the base with a specially designed bracket when required.

Hinged cover

The enclosure has a hinged cover in transparent polycarbonate allowing easy visual inspection of circuit breaker and other equipment status.

Earth and neutral bar kit

Earth and neutral bars can be ordered separately and are designed to push into the moulded base.

Technical data

Maximum operating voltage:	415 V AC
Materials:	Self-extinguishing halogen free polystyrene
Colours:	Base: Grey RAL 7035 Door: Transparent

Dimensions

Dimensions	2 - 59
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Insulated loadcentres DIN-T – surface mount

- Standard AS/NZS 3439-3
- Suits NHP Din-T MCBs and associated DIN equipment
- Surface mount
- Degree of protection IP 40
- Split earth neutral bars
- Removable earth and neutral bar support
- Transparent or white door
- Door hinged at the top
- Supplied complete with Buscomb



Surface mount

Pole capacity	No. of rows	Neutral bar	Earth bar	Trans. door Cat. No.	White door Cat. No.
12	1	5/3/3	12	CSB12ST	CSB12SW
18	1	9/3/3/3	18	CSB18ST	CSB18SW
24	2	10/3/3/3/3	24	CSB24ST	CSB24SW
36	3	12/12/12	36	CSB36ST	CSB36SW

Neutral bar kit

Pole capacity	Neutral bar	Cat. No.
36	11/3/3/3/3/3/3	CSBN36S

Dimensions Surface mount

Pole capacity	Width (mm)	Height (mm)	Depth (mm)
12	256	200	97
18	363	220	97
24	269	326	97
36	306	473	102

Insulated loadcentres

DIN-T – flush mount

2

- Standard AS/NZS 3439-3
- Suits NHP Din-T MCBs and associated DIN equipment
- Surface mount
- Degree of protection IP 40
- Split earth neutral bars
- Removable earth and neutral bar support
- Transparent or white door
- Door hinged at the top
- Supplied complete with Buscomb



Flush mount

Pole capacity	No. of rows	Neutral bar	Earth bar	Trans. door Cat. No.	White door Cat. No.
12	1	5/3/3	12	CSB12FT	CSB12FW
18	1	9/3/3/3	18	CSB18FT	CSB18FW
24	2	10/3/3/3/3	24	CSB24FT	CSB24FW
36	3	12/12/12	36	CSB36FT	CSB36FW

Neutral bar kit

Pole capacity	Neutral bar	Cat. No.
36	11/3/3/3/3/3/3	CSBN36F

Metal backing plate

Pole capacity	Cat. No.
12	CSB12FMP
18	CSB18FMP
24	CSB24FMP
36	CSB36FMP

Flush mount

Pole capacity	Description	Width (mm)	Height (mm)	Depth (mm)
12	Base	270	211	66
12	Cover	304	246	29
18	Base	380	232	76
18	Cover	412	267	29
24	Base	270	304	76
24	Cover	305	358	29
36	Base	308	470	76
36	Cover	342	503	29

Flush enclosure - cut out dimensions

Enclosure type	Width (mm)	Height (mm)
12 way	258	199
18 way	366	216
24 way	258	311
36 way	294	458

Panelboards, loadcentres and accessories

Din-Modula 150 loadcentres

2

- Standard AS/NZS 3439.3
- Suits Din-T6, 10, 10H and 15 MCBs and associated DIN equipment
- IP 40 protection
- Totally insulated
- Maximum 100 amp load
- The range consists of 36, 54 and 72 pole enclosures
- 150 mm centre distance between DIN rails with 30 mm behind the mounting frame
- Neutral and earth bars rated at 100 amps
- Split neutral bar (54 and 72 pole only) and an earth bar is provided



These enclosures have generous 150 mm wiring space between and 30 mm behind equipment rails. The removable mounting frame serves to ease cabling and wiring greatly. Din-Modula 150 is designed for indoor use and to accept the Din-T6, 10, 10H and 15 MCB range, time switches, contactors and main switches.

A range of accessories consisting of lugs and busbar combs facilitates easy mains connection of larger sized cables up to 35 mm².

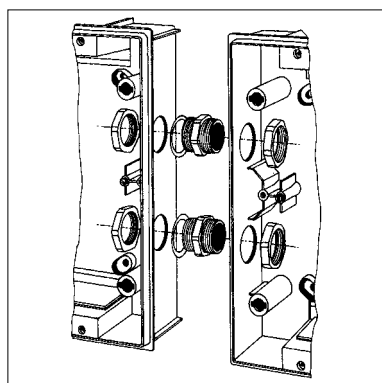
No. of rows	Pole capacity	Neutral bar	Earth bar	Cat. No. ¹⁾
2	36	1 x 18	1 x 18	DM15036
3	54	2 x 18	1 x 24	DM15054
4	72	2 x 18	1 x 36	DM15072

Notes: ¹⁾ Will not accept DSRCBH single pole RCDs.

Accessories

- Circuit identification labels.
- Earth and neutral bars.
- Lock (with 2 keys) available at extra cost.
- Neutral bar extension kits available at extra cost (field fitted).

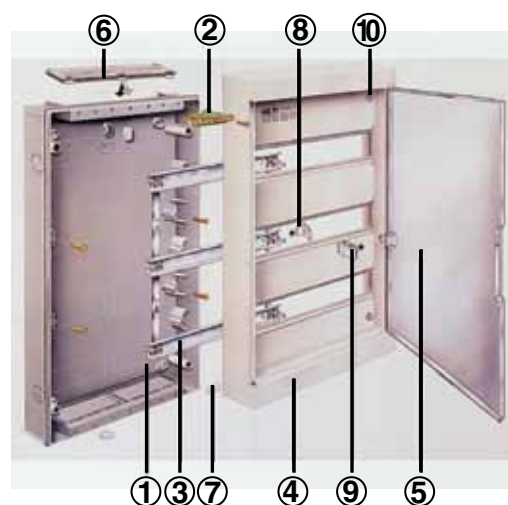
Description	Cat. No.
Neutral bar 19-36 and bracket	DM150NAA
Neutral bar 37-54 and bracket	DM150NAB
Neutral bar 55-72 and bracket	DM150NAC
Locking device with two keys	DM150LD
Flush kit 36 pole	i DM15036FK ¹⁾
Flush kit 54 pole	i DM15054FK ¹⁾
Flush kit 72 pole	i DM15072FK ¹⁾
Coupling kit	DM150JK



Coupling kit – 2 x PG21
Allows Din-Modular 150 enclosures to be coupled together laterally or top and bottom.



Notes: ¹⁾ Minimum order quantities apply.
i Available on indent only



Components

- 1 Shallow base
- 2 Earth bar/Neutral bars
- 3 Removable mounting
- 4 Protective cover
- 5 Transparent door
- 6 Entry plate
- 7 Insulation cap
- 8 Fastener
- 9 Hinge
- 10 Quarter-turn screw

Technical data

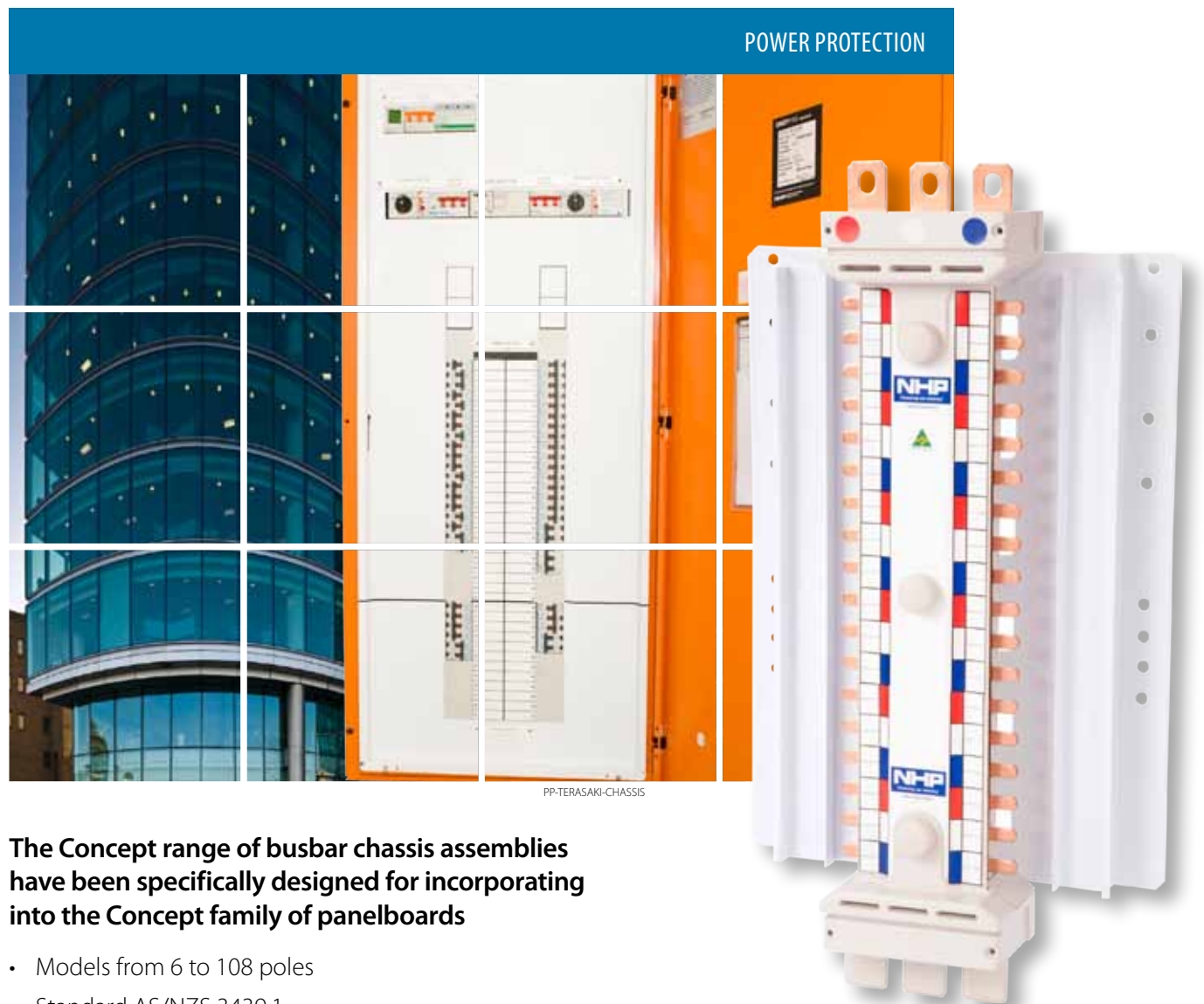
Maximum load:	100 amps
Max. operating voltage:	415 V AC
Material:	Base: Impact resistant polystyrene Door: Polycarbonate Halogen free
Degree of protection:	IP 40
Colours:	Base: Grey Door: Transparent

Cross reference table

Dimensions	Page
	2 - 59

NC BUSBAR CHASSIS

Enclosed busbar distribution system for Din-T, MCBs and RCBOs.



The Concept range of busbar chassis assemblies have been specifically designed for incorporating into the Concept family of panelboards

- Models from 6 to 108 poles
- Standard AS/NZS 3439.1
- 250 A and new 400 A rating
- Improved withstand ratings
- Retrofittable with CD chassis
- Improved form rating

CONCEPT • PLUS

CONCEPT • PREMIER

 **TERASAKI**
Innovators in Protection Technology

Panelboards, loadcentres and accessories

MCE Weatherproof series

- Suits Din-T6, 10, 10H, 15 and DC MCBs
- Suits DSRCBS 1P and DSRCB 2P RCB0s
- IP 65 - IK 08
- Maximum 120 A load
- Totally insulated
- Base polycarbonate, RAL 7035
- Cover polycarbonate, transparent
- UV resistant UL508
- 5, 9, 14, 28, and 42 pole
- Pre-punched knockouts

Perfect
for solar
applications



The MCE weatherproof enclosure was designed to meet the tough demands of Australia's environment. The MCE is ideal for roof mounted applications such as used in solar (photovoltaic) applications. The 14, 28, and 42 pole are available with earth and neutral bars.

Ordering details

No. of rows	Pole cap.	Neutral bar	Earth bar	Cat. No.
1	5	-	-	MCEPCN5MFM
1	9	-	-	MCEPCN9MFM
1	14	-	-	MCE14
2	28	-	-	MCE28
4	42	-	-	MCE42

Dimensions (mm)

Cat. No.	H	W	D
MCE5	200	116	105
MCE9	200	190	105
MCE14	280	306	145
MCE28	430	306	145
MCE42	580	306	145

Panelboards, loadcentres and accessories

Din-Modula weatherproof loadcentres

2

- Standard AS/NZS 3439.3
- Suits Din-T6, 10, 10H and 15 MCBs and associated DIN equipment
- IP 55 protection
- Maximum 120 amp load
- Padlocking possible
- Door changeable for hinging left or right side
- Totally insulated
- 125 mm centre distance between DIN rails



Application

The Din-Modula weatherproof was designed with maximum flexibility in mind. Using the connection set, two or more enclosures can be joined together – maintaining the IP 55 protection rating. A further feature of flexibility is that of the adjustable height DIN rail.

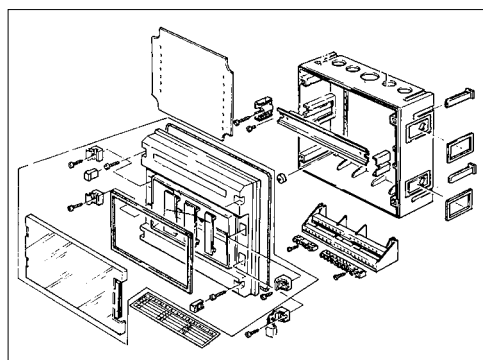
Din-Modula weatherproof was designed for use with the Din-T6, 10, 10H and 15 MCB range in wet area applications, out of direct sunlight. Split neutral and earth bars are provided. A range of accessories including three phase insulated busbar combs and terminal lugs are available for applications up to 120 amps.

No. of rows	Pole capacity	Neutral bar ¹⁾ ²⁾	Earth bar ²⁾	Cat. No. ³⁾
1	12	8/4	8	DMWP12
2	24	18/6	18	DMWP24
3	36	24/12	18	DMWP36

Accessories

	Cat No.
Locking bracket, padlock and three keys	DMWPLD
Connection set for joining enclosures together	DMWPCS

Component schematic



Technical data

Maximum load:	120 amps
Maximum operating voltage:	415 V AC
Colours:	Base - Grey RAL 7035 Door - Transparent
Material:	Base - impact resistant polystyrene Door - polycarbonate

Cross reference table

	Page
Dimensions	2 - 60

- Notes:**
- ¹⁾ Neutral bar indicated as e.g. 8/4 is split for use with RCDs.
 - ²⁾ Neutral bars and earth bars rated at 100 amps.
 - ³⁾ Will not accept DSRCBH single pole RCDs.

Panelboards, loadcentres and accessories

Metal loadcentres NLC

- Suitable for Din-T series circuit breakers up to 125 amps in commercial and light industrial applications
- Suits Din-T6, 10, 10H and 15 MCBs and associated DIN equipment
- Suitable for Din-Safe safety switches and Din-T MCBs fitted with Din-Safe-M earth leakage units
- Supplied with earth and neutral bars, schedule label
- DIN rail fitted
- Australian made



NLC15S

Surface mount enclosures (without door)

Pole capacity	Cat. No. ¹⁾
8	NLC8S
12	NLC12S
15	NLC15S
18	NLC18S
21	NLC21S
24	NLC24S

Flush escutcheon

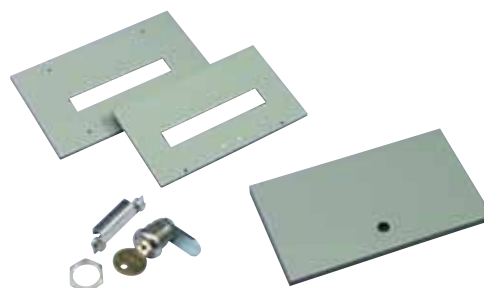
8	NLC8FE
12	NLC12FE
15	NLC15FE
18	NLC18FE
21	NLC21FE

Door with provision for lock

8	LD6/8
12	LD9/12
15	LD12/15
18	LD15/18
21	LD18/21

Accessories

Description	Cat. No.
Locking kit includes bracket & fasteners CL001	DSLK
Special colours	Refer NHP
Traffolite label	Refer NHP



Doors and flush escutcheons supplied loose.

Technical data

Maximum operating voltage:	415 V AC
Recommended maximum current:	125 A
Neutral bar/earth bar rating:	90 A
Circuit identification labels supplied	
Knock-outs:	2x25 mm, 2x32 mm (top, bottom and rear)
Number of mounting holes:	4
Size of mounting holes:	6.5 mm
Material:	Zinc annealed sheet steel 1.0 mm
Protection degree:	IP 30 without door
	IP 40 with door
Finish:	N42 storm grey polyester powder coat

Product extensions	Page
Din-T MCBs	1 - 14 to 1 - 22
Din-Safe-MCBs (RCBO)	1 - 24 to 1 - 26
Din-Safe-RCDs (RCCB)	1 - 23
Din-T main switches	1 - 30
ICL busbars	1 - 40

Cross reference table	Page
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Notes: ¹⁾ Accepts DSRCBH single pole RCDs.

Panelboards, loadcentres and accessories

Metal loadcentres NLC (cont.)

2

Neutral/earth bar size

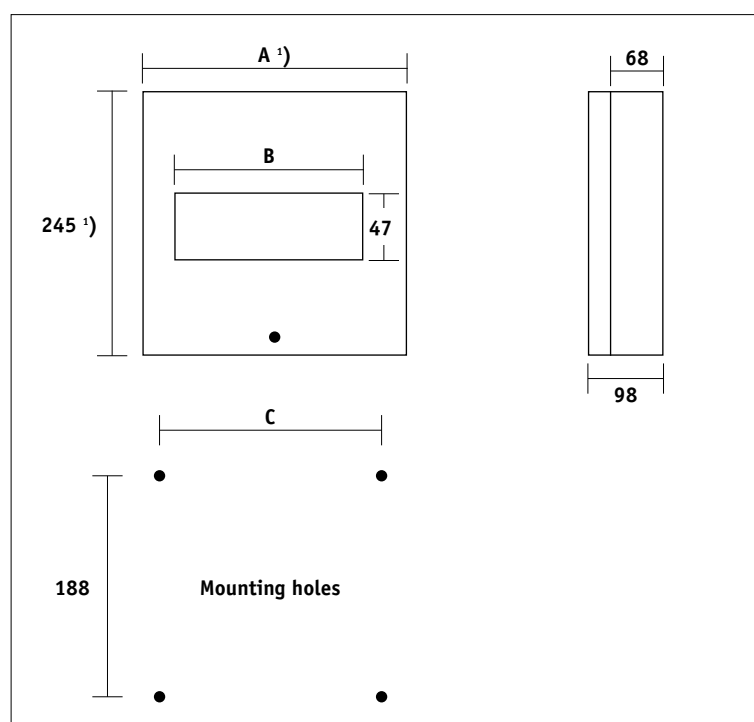
Pole capacity	No. of connections	
	Neutral	Earth
8	9 x 16 mm ²	6 x 16 mm ²
12	12 x 16 mm ²	6 x 16 mm ²
15	15 x 16 mm ²	12 x 16 mm ²
18	18 x 16 mm ²	12 x 16 mm ²
21	21 x 16 mm ²	15 x 16 mm ²



Open view NLC155

Dimensions (mm)

A	B	C	Cat. No.
268	145	192	NLC8S
343	217	267	NLC12S
418	271	342	NLC15S
493	325	417	NLC18S
568	379	492	NLC21S



Notes: ¹⁾ For loadcentres fitted with flush escutcheon add 50 mm.



Panelboards, loadcentres and accessories

Metal loadcentres TLC

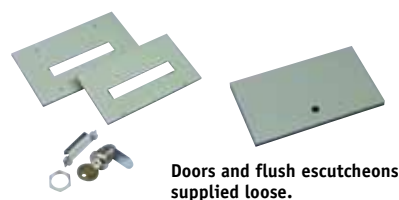
- Suitable for Safe-T MCBs and accessories
- Commercial and light industrial applications
- Supplied with neutral and earth bars and schedule labels
- Manufactured from zinc annealed sheet steel
- High quality powder coat finish
- Suits Safe-T6 MCBs and Safe-T RCDs
- MCB clip tray fitted
- Australian made



TLC12S

Surface mount enclosures (without door)

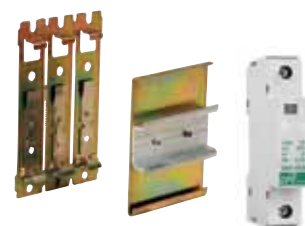
Pole capacity	Cat. No.
6	TLC6S
9	TLC9S
12	TLC12S
15	TLC15S
18	TLC18S
21	TLC21S



Doors and flush escutcheons supplied loose.

Flush escutcheon

6	TLC6FE
9	TLC9FE
12	TLC12FE
15	TLC15FE
18	TLC18FE
21	TLC21FE



DIN mount adaptor Cat. No. TLCDMA

Door with provision for lock

6	LD6/8
9	LD9/12
12	LD12/15
15	LD15/18
18	LD18/21
21	LD21

Accessories

Description	Cat. No.
Lock CL001 with 2 keys	DSLK
DIN mounting adaptor	TLCDMA
Special colours	REFER NHP
Traffolite label	REFER NHP



Technical data

Recommended maximum current: 125 A
Neutral bar/earth bar rating: 90 A
Base operating voltage: 415 V AC
Clip tray provided for mounting Safe-T MCBs
Circuit identification labels provided
Knock-outs 2x25 mm, 2x32 mm (top, bottom and rear)
Number of mounting holes: 4
Size of mounting holes: 6.5 mm
Material: Zinc annealed sheet steel 1.0 mm
Protection degree: IP 30 without door
IP 40 with door
Finish: N42 storm grey polyester powder coat

Product extensions

	Page
Safe-T MCB/RCDs (RCBO)	1 - 9 to 1 - 10
Safe-T main switch	1 - 10
Link bars	1 - 13

Cross reference table

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Panelboards, loadcentres and accessories

Metal loadcentres TLC (cont.)

2

Neutral/earth bar size

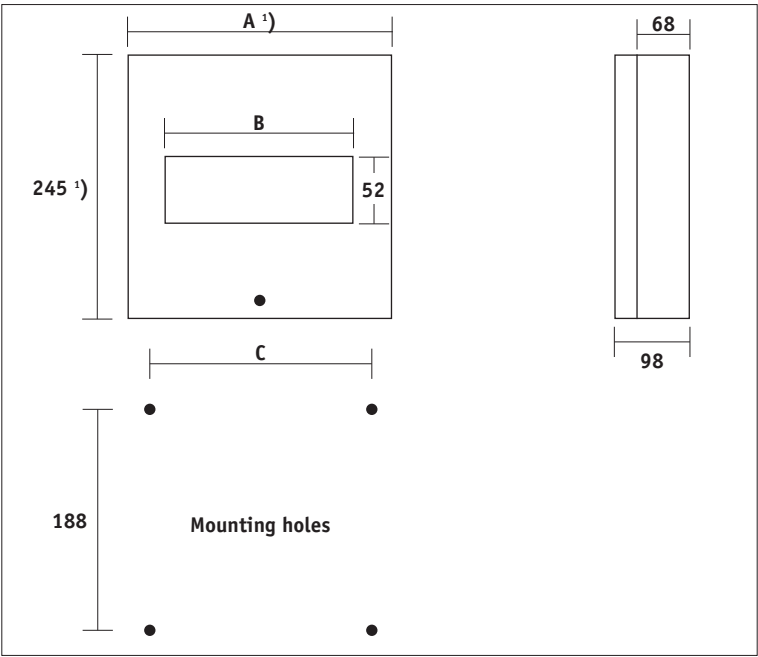
Pole capacity	No. of connections	
	Neutral	Earth
6	6 x 16 mm ²	6 x 16 mm ²
9	9 x 16 mm ²	6 x 16 mm ²
12	12 x 16 mm ²	6 x 16 mm ²
15	15 x 16 mm ²	12 x 16 mm ²
18	18 x 16 mm ²	12 x 16 mm ²
21	21 x 16 mm ²	15 x 16 mm ²



Open view TLC12S

Dimensions (mm)

Cat. No.	A	B	C
TLC6S	268	147	192
TLC9S	343	222	267
TLC12S	418	297	342
TLC15S	493	372	417
TLC18S	568	447	492
TLC21S	693	522	617



Notes: ¹⁾ For loadcentres fitted with flush escutcheon add 50 mm.



Introducing NHP's New Family NHP - The panelboard innovators

The **NHP•CONCEPT** family range of panelboards keeps a common and attractive appearance throughout the range.



CONCEPT

► The economical panelboard

The "CONCEPT" panelboard is designed for those wanting a visually attractive, economical panelboard, but also offering a robust enclosure with an excellent range of standard features. This type of panelboard is designed to be stocked nationally as an "off the shelf" panelboard.



CONCEPT•PLUS

► The multipurpose panelboard

For those wanting an "off the shelf" panelboard which offers a large range of features and options. The CONCEPT•PLUS is a multipurpose panelboard that offers among its many features: indoor rated panelboard with dust seal option, six modular sizes, and accessory boxes that can be added to extend the height or width of the panelboard. CONCEPT•PLUS panelboards are available for either DIN or NEMA (Safe-T) MCBs.



CONCEPT•PREMIER

► The premier panelboard

The CONCEPT•PREMIER panelboard range has all the features of CONCEPT•PLUS, but also includes important additional features, such as a greater box depth, a weatherproof rating, the option of stainless steel enclosures, a floor mounting plinth, plus others.

CONCEPT•PREMIER panelboards are available for Safe-T, Din-T, 125 A and 250 A MCCBs or combinations thereof.



CONCEPT•TOUGH

► The heavy-duty panelboard

The CONCEPT•TOUGH panelboard range has all the features of CONCEPT•PREMIER plus more. The CONCEPT•TOUGH has an increase in depth, width and material thickness for extra strength. The increase in depth allows the use of a wider range of padlock/locking facilities on isolators and circuit breakers between the door and escutcheon. This extra depth also allows larger accessory items to be mounted below the escutcheon such as contactors and changeover switches. The CONCEPT•TOUGH has a vast amount of wiring space and very generously sized glandplate entry and exit points due to the extra width. This package is all put together in a rigid 2 mm fully welded construction for those extra-tough applications.

Panelboards, loadcentres and accessories

The Concept Panelboard Family - Quick Reference Selection Guide

2

Features and options	Concept	Concept•PLUS Series 2	Concept•PREMIER Series 2	Concept•Tough
Circuit Breaker Types	Din-T	Din-T / Safe T	Din-T / Safe T / 125 & 250 A MCCBs	Din-T / 125 & 250 A MCCBs
Enclosure details, Accessory spacing etc				
Width	485 mm	585 mm	640 mm	800 mm
Depth	151 mm	180 mm	240 mm	300 mm
IP Rating	IP 40	IP 42 ¹⁾	IP 66	IP 66
Material	1 mm	1.6 mm	1.6 mm	2.0 mm
Number of sizes available	4	8	8	3
Poles capacity	24 - 60	18 - 96	18 - 96	18 - 96
Colours available (doors)	Grey & Orange	Grey & Orange	Grey & Orange	Grey & Orange
Spare DIN-rail mounting space	12 Poles	18 Poles	18 Poles	18 Poles
Largest contactor under PB escutcheon	CA 7-43	CA 7-85	CA 6-180	CA 6-180
Largest contactor in accessory module	-	CA 6-180	CA 6-420	CA 6-420
Main switches, Busbars, Earth & Neutral bars				
STD Main switch rating	160 A or 250 A	160 or 250 A std	160 or 250 A std	-
Maximum main switch sizes available	250 A	400 A	800 A	800 A
Busbar amp ratings for MCBs	160 A & 250 A	250 A, 355 A, 400 A	250 A, 355 A, 400 A	250 A, 355 A, 400 A
Busbar amp ratings for MCCBs	-	-	400, 630, 800, 1000 A	400, 630, 800 A
Main busbar short time kA rating 415 V AC	20 kA for 0.2 sec	20-30 kA refer chassis	20-50 kA refer chassis	20-50 kA refer chassis
Earth and neutral bars	2 screw	2 screw	2 screw	2 screw
Earth and neutral bar size	13 x 9.5 mm	13 x 9.5 mm	19 x 9.5 mm	19 x 9.5 mm
Dual earth and neutral bars	-	-	✓	✓
Lock type on door (keylock)	Flush	Flush	Metal flush	Metal-L handle
Chassis type	CD DIN chassis	NC or CT	NC-CT-XA-XB-XC	NC-CT-XA-XB-XC
Common features				
Horizontal DIN-rail	✓	✓	✓	✓
Dished escutcheon	✓	✓	✓	✓
Knock-outs for MCBs and accessories	✓	✓	✓	✓
Door reversible RHS to LHS	✓	✓	✓	-
Door hinged independent of escutcheon	✓	Optional	✓	✓
White escutcheon	✓	✓	✓	✓
Optional accessories & features				
Emergency lighting kits - option	✓	✓	✓	✓
Can duct be fitted - option	✓	✓	✓	✓
Split chassis - option	✓	✓	✓	✓
Split neutral link - option	✓	✓	✓	✓
Special colours - option	-	✓	✓	✓
Rain & dust hood - option	✓	-	✓	standard
Custom "modular" assemblies - option	-	✓	✓	-
Accessory / Header boxes - option	-	✓	✓	✓ (Acc only)
Brass or aluminium gland plates - option	-	✓	✓	✓
Removable gland plates - standard	-	✓	✓	✓
Can fit MCCBs - option	-	✓	✓	✓
Fault current limiter DIN fuses - option	-	✓	✓	✓
Flush surround kits - option	✓	✓	✓	✓
Hinged escutcheon	-	optional	standard	standard
Dust seal - option	-	✓	-	-
Floor mounting plinth - option	-	✓	✓	✓
Wall mounting brackets - option	-	-	✓	✓
3 point locking door - (1000 mm and up)	-	-	✓	✓
Stainless steel enclosure - option	-	-	✓	✓

Notes: For a more complete listing of accessory details refer accessory pages relating to individual panelboards.

¹⁾ With dust seal option

Panelboards, loadcentres and accessories CONCEPT

The economical panelboard for Din-T MCBs

- Standard AS/NZS 3439.3
- Commercial and industrial applications
- Type tested busbar system
- Compact 160 A or 250 A switch standard
- Door fitted independent of escutcheon
- Left or right hand door hinging
- Lockable door
- Australian made

Application

The CONCEPT range is an economical panelboard designed for the commercial and light industrial sectors. It will accept Din-T circuit breakers and associated accessory devices.



Features

- Two tone colour scheme, make a colour change by simply changing the door colour.
- The door is field changeable from right to left hinged and is totally independent of the escutcheon.
- Gloss white escutcheon has been dished to allow a wide range of accessories to fit under the door.
- Knock-outs provided in the escutcheon for up to 12 modules of extra standard DIN rail equipment.
- Compact main switch with a 160 A or 250 A rating.
- Earth and neutral bars, circuit identification and schedule cards supplied.

Technical data

Material type	1 mm Steel
Finish	Polyester powder coated
Colour (AS 2700-1995)	Base – Charcoal Gloss (Interpon GL035A) Door – N42 Storm grey (Interpon ML060A) - X15 orange (Interpon MF035A) Escutcheon – Bright white gloss (Interpon GA030A)
Protection degree	IP 30 without door IP 40 with door IP 42 with rainhood
Busbar ratings	160 A or 250 A 20 kA for 0.2 seconds
Main Switch	160 A 3 pole 415 V AC top mount 250 A 3 pole 415 V AC top mount



Panelboards, loadcentres and accessories

CONCEPT

The economical panelboard for Din-T MCBs

2



CONCEPT - Surface mount panelboard with grey door

Suits Din-T MCBs (DIN) refer section one

Pole capacity	Box size	Height (mm)	Main Switch 160 A Cat. No.	Main Switch 250 A Cat. No.
24	1	700	CON 24 M160 G	CON 24 M250 G
36	2	800	CON 36 M160 G	CON 36 M250 G
48	3	900	CON 48 M160 G	CON 48 M250 G
60	4	1000	CON 60 M160 G	CON 60 M250 G

Width = 485 mm Depth = 151 mm includes door. (Door = 20 mm)

CONCEPT - Surface mount panelboard with orange door

Suits Din-T MCBs (DIN) refer section one

Pole capacity	Box size	Height (mm)	Main Switch 160 A Cat. No.	Main Switch 250 A Cat. No.
24	1	700	CON 24 M160 O	CON 24 M250 O
36	2	800	CON 36 M160 O	CON 36 M250 O
48	3	900	CON 48 M160 O	CON 48 M250 O
60	4	1000	CON 60 M160 O	CON 60 M250 O

Width = 485 mm Depth = 151 mm includes door. (Door = 20 mm)



Accessories

Description	Cat. No.
Split chassis kit (supplied loose)	STKCD
Emergency lighting kit (supplied loose)	
Rotary control switch	CPELK1 ¹⁾
Rotary control switch (wired)	CPELK1W
Key operated control switch	CPELK2 ¹⁾
Pole fillers (Din-T)	DTPF
Rain Hood	Suits all sizes CONWC
Flush Kit	Size 1 CONFK1
	Size 2 CONFK2
	Size 3 CONFK3
	Size 4 CONFK4
Spare key (set of 2)	CL001 x 2 KEYCL001
	92268 x 2 KEY92268



MCBs and Technical data	Page		Page
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Din-T10 MCBs	1 - 18 to 1 - 19	Din-Safe-RCD (RCCB)	1 - 23
Din-T15 MCBs	1 - 21	Technical data	Section 3
DSRCBH, DSRCB (RCBOs)	1 - 24, 1 - 25	Dimensions	2 - 60

Notes: ¹⁾ Emergency lighting kits can be field fitted to Concept panelboards utilising horizontal DIN knock-outs at top of board. Kits include control switch, timer, 24 A 4 P N/C contactor, labels and wiring diagram to complete control circuit which complies with to AS 2293.1.

Available on indent only

Panelboards, loadcentres and accessories CONCEPT•PLUS

The multi-purpose panelboard – for Din-T or Safe-T MCBs

CONCEPT•PLUS is an innovative panelboard suitable for commercial and industrial applications. It is designed and manufactured in Australia by NHP. Models are available for Din-T (DIN) or Safe-T (NEMA) MCBs.

Innovation and style

Innovation and style are the result of an exhaustive survey of market needs by NHP. CONCEPT•PLUS has many features as well as full functionality.

Modular

Six modular sizes cover the range from 18-96 pole, from 700 mm to 1700 mm. 400 and 600 mm accessory modules complete the range.

Chassis types

Three phase chassis busbar assemblies available 250 A, 355 A or 400 A, other configurations available to special order.

Degree of protection

A unique gutter system prevents water ingress. An optional dustproof gasket can be fitted.

Standard:

AS/NZS 3439.3.

Features

CONCEPT•PLUS has many outstanding features and options including the exclusive gloss powder coat finish with contrasting tones.

Other features include

- Modular design
- Compact main switch
- Semi-concealed hinges
- Optional hinged escutcheon
- Generous sizing



Door

- Doors stocked in grey and orange
- Colour of door can be changed to match any décor to order
- Removable hinged door independent of escutcheon
- Door is field reversible
- Door is 180° opening
- Flush handle lock code CL001
- A4 legend card and holder

Escutcheon

- White dished escutcheon independent of door hinges
- Horizontal accessory cut-out 18 x DIN modules
- Accessories e.g. Time clocks can be fitted on DIN rail
- Escutcheon knock-outs provided
- Durable lexan numbering schedule
- Escutcheon can be hinged to order

Body

- Main switch 160 A or 250 A
- Flexible mounting system for internal components
- Gutter system prevents water ingress
- Added width and depth for faster installation
- Space for wiring duct maximum 100 x 100 mm
- Deep enough to accept CA 7-85 contactor (85 amps)
- Double screw earth and neutral bars fitted standard
- Provision for split neutral as option
- Flared busbars at top and bottom of chassis - Din-T types

Panelboards, loadcentres and accessories

CONCEPT•PLUS

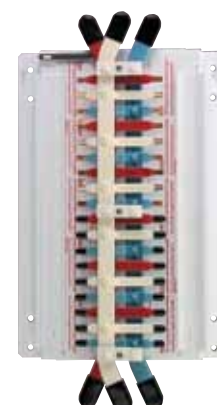
Multi-purpose panelboard – Din-T

2

- Standard AS/NZS 3439.3
- Suits Din-T6, 10, 10H and 15 MCBs and DIN equipment
- Modular design for commercial and industrial applications
- Additional space for DIN rail mounting accessories
- Type tested busbar chassis system
- Removable gland plates
- Degree of protection IP 42
- Splayed busbars at top and bottom of chassis
- Australian Made
- CD chassis



Typical CONCEPT•PLUS
Din-T panelboard



3 pole CD chassis to suit
Din-T MCBs

CONCEPT•PLUS

Din-T Surface mount with Grey door
Suits Din-T MCBs (DIN) refer section one

Pole capacity	Box size	Height (mm)	No Main Switch Cat. No.	160 A Main switch Cat. No.	250 A Main switch Cat. No.
18	1	700	CDT-18-G	CDT-18-M160-G	CDT-18-M250-G
24	1	700	CDT-24-G	CDT-24-M160-G	CDT-24-M250-G
36	2	900	CDT-36-G	CDT-36-M160-G	CDT-36-M250-G
48	2	900	CDT-48-G	CDT-48-M160-G	CDT-48-M250-G
60	3	1100	CDT-60-G	CDT-60-M160-G	CDT-60-M250-G
72	4	1300	CDT-72-G	-	CDT-72-M250-G
84	4	1300	CDT-84-G	-	CDT-84-M250-G
96	5	1500	CDT-96-G	-	CDT-96-M250-G

Width = 585 mm Depth = 185 mm includes door (Door = 20 mm)

CONCEPT•PLUS

Din-T Surface mount with Orange door
Suits Din-T MCBs (DIN) refer section one

Pole capacity	Box size	Height (mm)	No Main Switch Cat. No.	160 A Main switch Cat. No.	250 A Main switch Cat. No.
18	1	700	CDT-180	CDT-18-M-1600	CDT-18-M250-0 ¹⁾
24	1	700	CDT-240	CDT-24-M-1600	CDT-24-M250-0 ¹⁾
36	2	900	CDT-360	CDT-36-M-1600	CDT-36-M250-0 ¹⁾
48	2	900	CDT-480	CDT-48-M-1600 ¹⁾	CDT-48-M250-0
60	3	1100	CDT-600	CDT-60-M-1600 ¹⁾	CDT-60-M250-0
72	4	1300	CDT-720	-	CDT-72-M250-0
84	4	1300	CDT-840	-	CDT-84-M250-0
96	5	1500	CDT-960	-	CDT-96-M250-0 ¹⁾

Width = 585 mm Depth = 185 mm includes door (Door = 20 mm)

Notes: ¹⁾ Main switch supplied loose
e.g., CDT24M250G = CDT24G + CDT250MS.



Accessories

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Panelboards, loadcentres and accessories CONCEPT•PLUS

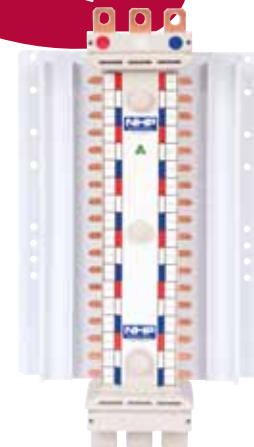
Multi-purpose panelboard – Din-T

NEW
SERIES 2

- Standard AS/NZS 3439.3
- Suits Din-T6, 10, 10H and 15 MCBs and DIN equipment
- Modular design for commercial and industrial applications
- Additional space for DIN rail mounting accessories
- Type tested busbar chassis system
- Removable gland plates
- Degree of protection IP 42 ²⁾
- Splayed busbars at top and bottom of chassis
- Australian Made
- **New NC chassis**
- New flush door handle



Typical CONCEPT•PLUS Din-T panelboard



NC Chassis

CONCEPT•PLUS

Din-T Surface mount with Grey door
Suits Din-T MCBs (DIN) refer section one

Pole capacity	Box size	Height (mm)	No Main Switch Cat. No.	160 A Main switch Cat. No.	250 A Main switch Cat. No.
18	1	700	CDT-18-G-2	CDT-18-M160-G-2	CDT-18-M250-G-2 ¹⁾
24	1	700	CDT-24-G-2	CDT-24-M160-G-2	CDT-24-M250-G-2 ¹⁾
36	2	900	CDT-36-G-2	CDT-36-M160-G-2	CDT-36-M250-G-2
48	2	900	CDT-48-G-2	CDT-48-M160-G-2	CDT-48-M250-G-2
60	3	1100	CDT-60-G-2	CDT-60-M160-G-2	CDT-60-M250-G-2
72	4	1300	CDT-72-G-2	-	CDT-72-M250-G-2
84	4	1300	CDT-84-G-2	-	CDT-84-M250-G-2
96	5	1500	CDT-96-G-2	-	CDT-96-M250-G-2

Width = 585 mm Depth = 185 mm includes door (Door = 20 mm)

CONCEPT•PLUS

Din-T Surface mount with Orange door
Suits Din-T MCBs (DIN) refer section one

Pole capacity	Box size	Height (mm)	No Main Switch Cat. No.	160 A Main switch Cat. No.	250 A Main switch Cat. No.
18	1	700	CDT-18-O-2	CDT-18-M160-O-2	CDT-18-M250-O-2 ¹⁾
24	1	700	CDT-24-O-2	CDT-24-M160-O-2	CDT-24-M250-O-2 ¹⁾
36	2	900	CDT-36-O-2	CDT-36-M160-O-2	CDT-36-M250-O-2
48	2	900	CDT-48-O-2	CDT-48-M160-O-2	CDT-48-M250-O-2
60	3	1100	CDT-60-O-2	CDT-60-M160-O-2 ¹⁾	CDT-60-M250-O-2
72	4	1300	CDT-72-O-2	-	CDT-72-M250-O-2
84	4	1300	CDT-84-O-2	-	CDT-84-M250-O-2
96	5	1500	CDT-96-O-2	-	CDT-96-M250-O-2 ¹⁾

Width = 585 mm Depth = 185 mm includes door (Door = 20 mm)

Notes: ¹⁾ Main switch supplied loose
e.g., CDT24M250G2 = CDT24G2 + CDT250MS
²⁾ With dustproof seal

Accessories

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Panelboards, loadcentres and accessories

CONCEPT•PLUS

Multi-purpose panelboard – Safe-T

- Standard AS/NZS 3439.3
- Suits Safe-T MCBs and Safe-T RCDs
- Modular design for commercial and industrial applications
- Additional space for DIN rail mounting accessories
- Type tested busbar chassis system
- Removable gland plates
- Degree of protection IP 42
- Australian Made
- CT chassis



Typical CONCEPT•PLUS SAFE-T panelboard



CT Chassis

CONCEPT•PLUS

Safe-T Surface mount with Grey door
Suits Safe-T MCBs (Nema) refer section one

Pole capacity	Box size	Height (mm)	No Main Switch Cat. No.	160 A Main switch Cat. No.	250 A Main switch Cat. No.
18	1	700	CST-18-G	CST-18-M160-G	CST-18-M250-G ¹⁾
24	1	700	CST-24-G	CST-24-M160-G	CST-24-M250-G ¹⁾
36	2	900	CST-36-G	CST-36-M160-G	CST-36-M250-G ¹⁾
48	3	1100	CST-48-G	CST-48-M160-G	CST-48-M250-G
60	4	1300	CST-60-G	CST-60-M160-G	CST-60-M250-G
72	5	1500	CST-72-G	-	CST-72-M250-G
84	6	1700	CST-84-G	-	CST-84-M250-G
96	6	1700	CST-96-G	-	CST-96-M250-G

Width = 585 mm Depth = 185 mm includes door (Door = 20 mm)

CONCEPT•PLUS

Safe-T Surface mount with Orange door
Suits Safe-T MCBs (Nema) refer section one

Pole capacity	Box size	Height (mm)	No Main Switch Cat. No.	160 A Main switch Cat. No.	250 A Main switch Cat. No.
18	1	700	CST-18-0	CST-18-M160-0 ¹⁾	CST-18-M250-0 ¹⁾
24	1	700	CST-24-0	CST-24-M160-0 ¹⁾	CST-24-M250-0 ¹⁾
36	2	900	CST-36-0	CST-36-M160-0 ¹⁾	CST-36-M250-0 ¹⁾
48	3	1100	CST-48-0	CST-48-M160-0 ¹⁾	CST-48-M250-0 ¹⁾
60	4	1300	CST-60-0	CST-60-M160-0 ¹⁾	CST-60-M250-0 ¹⁾
72	5	1500	CST-72-0	-	CST-72-M250-0 ¹⁾
84	6	1700	CST-84-0	-	CST-84-M250-0 ¹⁾
96	6	1700	CST-96-0	-	CST-96-M250-0 ¹⁾

Width = 585 mm Depth = 185 mm includes door (Door = 20 mm)

Notes: ¹⁾ Main switch supplied loose
e.g., CST24M250G = CST24G + CST250MS.



Accessories

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Panelboards, loadcentres and accessories

CONCEPT•PLUS Multi-purpose panelboards

Accessory modules

CONCEPT•PLUS

Accessory Modules with Grey door

Box size	Height (mm)	Pole cap	With escutcheon Cat. No.
0	400	24 (1 row 24 way)	CPACC24G
0	400	48 (2 rows of 24 way)	CPACC48G
H	600	72 (3 rows of 24 way)	CPACC72G6

Box size	Height (mm)	No escutcheon Cat. No.	With escutcheon Cat. No. ¹⁾
0	400	CPACCG	CPACCGE
H	600	CPACCG6	CPACCGE6
1	700	-	CPPACCS1GE
2	900	-	CPPACCS2GE
3	1100	-	CPPACCS3GE
4	1300	-	CPPACCS4GE
5	1500	-	CPPACCS5GE
6	1700	-	CPPACCS6GE

Width = 585 mm Depth = 185 mm includes door (Door = 20 mm)

Accessory Modules with Orange door

Box size	Height (mm)	Pole cap	With escutcheon Cat. No.
0	400	24 (1 row 24 way)	CPACC24O
0	400	48 (2 rows of 24 way)	CPACC48O
H	600	72 (3 rows of 24 way)	CPACC72O6

Box size	Height (mm)	No escutcheon Cat. No.	With escutcheon Cat. No. ¹⁾
0	400	CPACCO	CPACCOE
H	600	CPACCO6	CPACCOE6
1	700	-	CPPACCS10E
2	900	-	CPPACCS20E
3	1100	-	CPPACCS30E
4	1300	-	CPPACCS40E
5	1500	-	CPPACCS50E
6	1700	-	CPPACCS60E

Width = 585 mm Depth = 185 mm includes door (Door = 20 mm)

Gear trays to suit accessory module

Height (mm)	Cat. No.
94	CPBGTS1
194	CPBGTS2
294	CPBGTS3
494	CPBGTSH
594	CPBGTS4
994	CPBGTS6

Gear trays for Concept Plus must be 100 mm shorter than enclosure size

Notes: ¹⁾ Supplied with blank escutcheon.



Accessory module CPACC

Panelboards, loadcentres and accessories

CONCEPT•PLUS Multi-purpose panelboards

Accessory modules

CONCEPT•PLUS

Accessory Modules with Grey door

Box size	Height (mm)	Pole cap	With escutcheon Cat. No.
0	400	24 (1 row 24 way)	CPACC24G2
0	400	48 (2 rows of 24 way)	CPACC48G2
H	600	72 (3 rows of 24 way)	CPACC72G2

Box size	Height (mm)	No escutcheon Cat. No.	With escutcheon Cat. No. ¹⁾
0	400	CPACCS0G2	CPACCS0GE2
H	600	CPACCSHG2	CPACCSHGE2
1	700	-	CPPACCS1GE2
2	900	-	CPPACCS2GE2
3	1100	-	CPPACCS3GE2
4	1300	-	CPPACCS4GE2
5	1500	-	CPPACCS5GE2
6	1700	-	CPPACCS6GE2

Width = 585 mm Depth = 185 mm includes door (Door = 20 mm)

Accessory Modules with Orange door

Box size	Height (mm)	Pole cap	With escutcheon Cat. No.
0	400	24 (1 row 24 way)	CPACC24O2
0	400	48 (2 rows of 24 way)	CPACC48O2
H	600	72 (3 rows of 24 way)	CPACC72O2

Box size	Height (mm)	No escutcheon Cat. No.	With escutcheon Cat. No. ¹⁾
0	400	CPACCS0O2	CPACCS0OE2
H	600	CPACCSHO2	CPACCSHOE2
1	700	-	CPPACCS1OE2
2	900	-	CPPACCS2OE2
3	1100	-	CPPACCS3OE2
4	1300	-	CPPACCS4OE2
5	1500	-	CPPACCS5OE2
6	1700	-	CPPACCS6OE2

Width = 585 mm Depth = 185 mm includes door (Door = 20 mm)

Gear trays to suit accessory module

Height (mm)	Cat. No.
94	CPBGTS1
194	CPBGTS2
294	CPBGTS3
494	CPBGTSH
594	CPBGTS4
994	CPBGTS6

Gear trays for Concept Plus must be 100 mm shorter than enclosure size

Notes: ¹⁾ Supplied with blank escutcheon.

**SERIES 2
NEW DOOR
HANDLE**



2

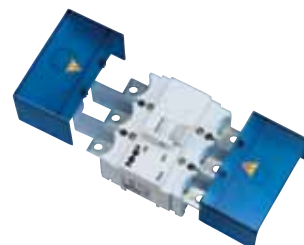
Panelboards, loadcentres and accessories

CONCEPT•PLUS Multi-purpose panelboards

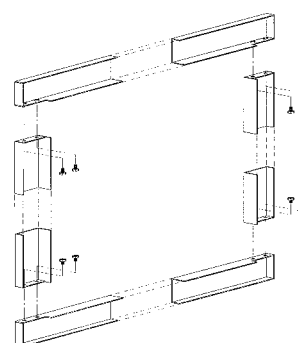
Options and accessories for Din-T or Safe-T MCBs

Accessories

Description				Cat. No.
Top mount main switch kits (supplied loose)	160 A	3 pole	CDT	CDT160MS
			CST	CST160MS
	250 A	3 pole	CDT	CDT250MS
			CST	CST250MS
Chassis mount	80 A	3 pole	CDT	DINTMS803
	100 A	3 pole	CDT	DINTMS1003
main switch	100 A	3 pole	CST	SAFE-T63100NA
Flush surround kit (supplied loose) (45 mm width)			Size 1	CPBFK-1
			Size 2	CPBFK-2
			Size 3	CPBFK-3
			Size 4	CPBFK-4
			Size 5	CPBFK-5
			Size 6	CPBFK-6
Dustproof door seal fits all box sizes				CPDRUBBER
Floor mount plinth (100 mm height) ³⁾				CPPLINTH
Gland plate options				
Open end-cap (cut-out for cable entry)				CPECS
Steel gland plate (suits open end-cap)				CPGPS
Brass gland plate (suits open end-cap) (3 mm)				CPGPB
Aluminium gland plate (suits open end-cap) (3 mm)				CPGPA
Split chassis kit (supplied loose)	CD250 A/CD355 A		CDT	STKCD
	CT250 A		CST	STK250ND/TH
	CT355 A		CST	STK300TH
Emergency lighting kit (supplied loose)				
Rotary control switch				CPELK1 ¹⁾
Rotary control switch (complete wired loom)				CPELK1W ¹⁾
Key operated control switch				CPELK2 ¹⁾
Pole fillers		Din-T	CDT	DTPF
		Safe-T	CST	SAFE-TPF
Door locks (suit Series 2)		CL001		CPDHANDLECL001
		92268		CPDHANDLE92268
		NSW PWD E LOCK		CPDHANDLEELOCK
		Pad lockable		CPDHANDLEPADLOCK
Spare key (set of 2)		CL001 x 2		KEYCL001
		92268 x 2		KEY92268
Escutcheon Hinge Kit ²⁾				CPESC
White liner ⁵⁾				CPWIL_ ⁴⁾
Connection kits	250 A MCCB to CD chassis			CD250CKT2
	250 A MCCB to NC chassis			NCKK250
	400 A MCCB to NC chassis			NCKK400



CDT250MS main switch kit



Flush surround kit CPBFK-



Open end-cap and gland plate

- Notes:** ¹⁾ Emergency lighting kits can be field fitted to Concept•PLUS panelboards utilising horizontal DIN knock-outs at top of board. Kits include control switch, timer, 24 A 4 P N/C contactor, labels and wiring diagram to complete control circuit complying to AS 2293.1.
- ²⁾ Qty 2 required for size 1-4 enclosure, Qty 3 required for size 5-6 enclosure.
- ³⁾ Plinth is designed for bottom cable entry; if panelboard is freestanding additional support is required
- ⁴⁾ Insert enclosure size, e.g. size 5 CPWIL5.
- ⁵⁾ White insert to transform interior of DB white without having to respray; 2 required per DB.

Panelboards, loadcentres and accessories CONCEPT•PLUS

Multi-purpose panelboards for Din-T or Safe-T MCBs

2

Factory fitted options

Description		Cat. No.
Optional main switches	- 160 A DIN fuse switch ¹⁾	IS03160SFH
	- 250 A MCCB non-auto	S250NN3
	- 250 A MCCB	S250NJ
	- 315 A S+S loadbreak	LE 7-315-1753
Feeder circuit breaker	- 125 A 3 pole MCB	DIN-T10H3125C
	- 160 A 3 pole MCCB	5160NJ3160
External lighting kit (Timer, contactor, bypass switch)	- 1 channel, 2 N/O 20 A mini contactor	CPEXTLKC
	- 1 channel, 2 N/O 20 A contactor	CPEXTLK1
	- 2 channel, 2 N/O 20 A mini contactor	CPEXTLK2
Connection kits	- 250 A MCCB to CD chassis	CD250CKT2
	- 200 A MCCB to NC chassis (Direct)	NCCK200
	- 250 A MCCB to NC chassis (TAG)	NCCK250
	- Support bracket 250 MCCB	CPBS250
Fault current limiter (fuses)	- 160 A DIN size 00	REFER NHP
	- 200 A DIN size 1	REFER NHP
355 A busbar (specify by description)		REFER NHP
Split chassis kit (fitted)		REFER NHP
Load shedding / emergency power contactor		REFER NHP
kWh metering		REFER NHP
Cable duct (fitted)	- CDT ... maximum 100 x 100 mm	REFER NHP
	- CST ... maximum 60 x 100 mm	REFER NHP
Special colours (doors)	- Standard powder coat (per Interpon chart)	REFER NHP
	- Non-standard powder coat	REFER NHP
	- Wetspray	REFER NHP



Optional 315 A main switch



Load shedding and switching contactors



Notes: ¹⁾ Refer page 2 - 51 for technical information.

Panelboards, loadcentres and accessories

CONCEPT•PLUS

Multi-purpose panelboards - Technical data

2

Material type	Description
Base and door	1.6 mm sheet steel
Escutcheon	1.2 mm sheet steel

Finish	Polyester powder coat (gloss)
--------	-------------------------------

Colour	
Base	Charcoal gloss (Interpon GL035A)
Door	Transformer grey gloss (Interpon ML060A) Orange X15 (Interpon MF035A)
Escutcheon	Bright white gloss (Interpon GA030A)

Busbar chassis	
Withstand	CDT 250 A - 20 kA for 0.2 sec AS/NZS 3439.3 CST 250 A - 20 kA for 0.2 sec AS/NZS 3439.3 CDT 355 A - 20 kA for 1 sec AS/NZS 3439.3 CST 355 A - 25 kA for 0.3 sec AS/NZS 3439.3
Coating	Polyolefin alloy PPA-441

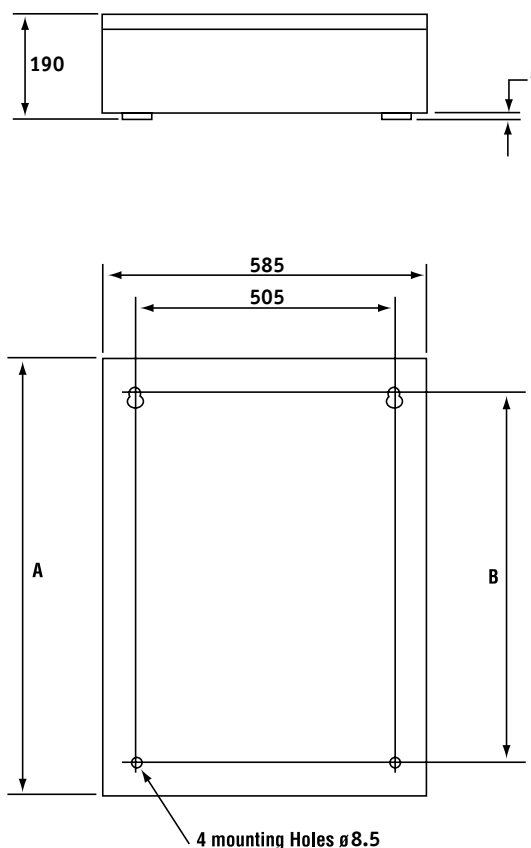
Busbar chassis (Series 2)	
Withstand	CDT 250 A - 25 kA for 0.1 sec AS/NZS 3439.3 CDT 400 A - 30 kA for 0.1 sec AS/NZS 3439.3

Neutral bar	
Current rating	165 A
Withstand	10 kA 1 sec
Main connection	2 x 8 mm stud
Outgoing connection	Tunnel terminal 2 screw 2 x 25 mm ² ; bal. 16 mm ²

Earth bar	
Current rating	165 A
Withstand	10 kA 1 sec
Main connection	2 x 8 mm stud
Outgoing connection	Tunnel terminal 2 screw 2 x 25 mm ² ; bal. 16 mm ²

250 A main switch (if applicable)	
Number of poles	3
Enclosed current rating	250 A
Rated voltage	415 V 50/60 Hz
Utilisation category	AC 21B and AC 22B
Standard	AS/NZS 60947-3

Dimensions (mm)



Modular box size	Dimensions (mm)	
	A	B
Size 0	400	270
Size H	600	470
Size 1	700	570
Size 2	900	770
Size 3	1100	970
Size 4	1300	1170
Size 5	1500	1370
Size 6	1700	1570

Panelboards, loadcentres and accessories CONCEPT•PREMIER

The Premium panelboard range –
for Din-T and Safe-T MCBs, and
TemBreak MCCBs

STAINLESS
STEEL
OPTION

2

Concept.Premier is a premium weatherproof panelboard designed for industrial and/or outdoor applications.

Models are available for;

CPD- Din-T (DIN),

CPS- Safe-T (NEMA)

CPX- Tembreak (MCCB)

circuit breakers.

Modular

Seven modular sizes cover the range from 18-96 pole, from 800 mm to 2000 mm. 600mm accessory modules complete the range.

Enclosure

Enclosures are fully welded 1.6 mm mild steel featured with N42 Storm Grey or X15 Orange polyester powder coated door. Base finished charcoal gloss powder coating.

There is a 316 stainless steel option.

Features

Concept Premier has many outstanding features and options including gloss Powdercoat finish with contrasting tones.

Other features include

- New flush door lock
- Modular design
- Compact Main Switch
- Semi concealed hinges
- Hinged escutcheon
- Generous sizing
- 3 Point locking 1000 mm and larger enclosures
- Weatherproof– Dual door seal

Chassis types

Three phase chassis busbar assemblies

Din-T– NC chassis 250 A or 400 A

Safe-T– CT chassis 250 A or 355 A

Tembreak– XA chassis 630 A

Other configurations to order

Weatherproof

A unique sealing system utilising dual door seal to achieve a weatherproof rating

Standard

AS/NZS 3439.3

NEW Series 2
Larger gland plate opening
Flush door handle
NC Chassis



Door

- Flush door handle key coded CL001
- 3 Point locking on 1000 mm and larger enclosures
- Door is hinged independent to escutcheon
- Door is 180° opening
- A4 legend card and holder
- Colour of door can be changed to match the décor to order
- Removable door hinged independent of escutcheon

Escutcheon

- Hinged white dished escutcheon hinge independently to door
- Horizontal accessory knockout 18 x DIN modules
- Accessories e.g. Emergency lighting kits, surge protection, time clocks can be fitted on DIN rail
- Durable polycarbonate numbering
- Deep dished escutcheon allowing lock Off devices to be fitted

Body

- Main Switch 160 A or 250 A as standard, up to 800A to order
- Flexible mounting system for internal components
- 640 mm width to allow plenty of wiring room allowing quick fit-out
- 220 mm depth allowing for larger range of internal components CA7-170 contactor
- Dual earth and neutral bars, double screwed bars
- Option
 - Brass and aluminium gland-plate
 - Flush kits
 - Plinths
- Ducting up to 100 x 100 mm

Panelboards, loadcentres and accessories CONCEPT•PREMIER

Premium panelboards to suit Din-T MCBs

- Standard AS/NZS 3439.3
- 1.6 mm fully welded construction
- IP 66 rated enclosure
- Commercial and industrial applications
- Modular sizes up to 96 poles
- Suits Din-T6, 10, 15 kA MCBs and accessories
- Type tested busbar/chassis system
- Removable gland plates (with gaskets)
- Hinged escutcheon
- Lockable door with 3 point locking on larger sizes
- Australian made
- CD chassis
- T handle door lock



IP 66

Stainless steel enclosure option available

CONCEPT•PREMIER

Din-T Surface mount with Grey door
Suits Din-T MCBs (DIN) refer section one



Pole capacity	Box size	Height (mm)	No Main Switch Cat. No.	160 A Main switch Cat. No.	250 A Main switch Cat. No.
18	1	800	CPD-18-G	CPD-18-M160-G ¹⁾	CPD-18-M250-G ¹⁾
24	1	800	CPD-24-G	CPD-24-M160-G	CPD-24-M250-G ¹⁾
36	2	1000	CPD-36-G	CPD-36-M160-G ¹⁾	CPD-36-M250-G ¹⁾
48	2	1000	CPD-48-G	CPD-48-M160-G ¹⁾	CPD-48-M250-G ¹⁾
60	3	1200	CPD-60-G	CPD-60-M160-G ¹⁾	CPD-60-M250-G ¹⁾
72	4	1400	CPD-72-G	-	CPD-72-M250-G ¹⁾
84	4	1400	CPD-84-G	-	CPD-84-M250-G ¹⁾
96	5	1600	CPD-96-G	-	CPD-96-M250-G ¹⁾

Width = 640 mm Depth = 240 mm includes door (Door = 20 mm)

CONCEPT•PREMIER

Din-T Surface mount with Orange door
Suits Din-T MCBs (DIN) refer section one

Pole capacity	Box size	Height (mm)	No Main Switch Cat. No.	160 A Main switch Cat. No.	250 A Main switch Cat. No.
18	1	800	CPD-18-O	CPD-18-M160-O ¹⁾	CPD-18-M250-O ¹⁾
24	1	800	CPD-24-O	CPD-24-M160-O	CPD-24-M250-O ¹⁾
36	2	1000	CPD-36-O	CPD-36-M160-O ¹⁾	CPD-36-M250-O ¹⁾
48	2	1000	CPD-48-O	CPD-48-M160-O ¹⁾	CPD-48-M250-O ¹⁾
60	3	1200	CPD-60-O	CPD-60-M160-O ¹⁾	CPD-60-M250-O ¹⁾
72	4	1400	CPD-72-O	-	CPD-72-M250-O ¹⁾
84	4	1400	CPD-84-O	-	CPD-84-M250-O ¹⁾
96	5	1600	CPD-96-O	-	CPD-96-M250-O ¹⁾

Width = 640 mm Depth = 240 mm includes door (Door = 20 mm)

Notes: ¹⁾ Main switch supplied loose
e.g., CPD24M250G = CPD24G + CDT250MS.

Technical data

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Panelboards, loadcentres and accessories

CONCEPT•PREMIER

Premium panelboards to suit Din-T MCBs

2

- Standard AS/NZS 3439.3
- 1.6 mm fully welded construction
- IP 66 rated enclosure
- Commercial and industrial applications
- Modular sizes up to 96 poles
- Suits Din-T6, 10, 15 kA MCBs and accessories
- Type tested busbar/chassis system
- Removable gland plates (with gaskets)
- Hinged escutcheon
- Lockable door with 3 point locking on larger sizes
- Australian made
- NC chassis
- Flush door lock



CONCEPT•PREMIER Series 2

Din-T Surface mount with Grey door
Suits Din-T MCBs (DIN) refer section one



Pole capacity	Box size	Height (mm)	No Main Switch Cat. No.	160 A Main switch Cat. No.	250 A Main switch Cat. No.
18	1	800	CPD-18-G-2	CPD-18-M160-G-2 ¹⁾	CPD-18-M250-G-2 ¹⁾
24	1	800	CPD-24-G-2	CPD-24-M160-G-2	CPD-24-M250-G-2 ¹⁾
36	2	1000	CPD-36-G-2	CPD-36-M160-G-2 ¹⁾	CPD-36-M250-G-2 ¹⁾
48	2	1000	CPD-48-G-2	CPD-48-M160-G-2 ¹⁾	CPD-48-M250-G-2 ¹⁾
60	3	1200	CPD-60-G-2	CPD-60-M160-G-2 ¹⁾	CPD-60-M250-G-2 ¹⁾
72	4	1400	CPD-72-G-2	-	CPD-72-M250-G-2 ¹⁾
84	4	1400	CPD-84-G-2	-	CPD-84-M250-G-2 ¹⁾
96	5	1600	CPD-96-G-2	-	CPD-96-M250-G-2 ¹⁾

Width = 640 mm Depth = 240 mm includes door (Door = 20 mm)

CONCEPT•PREMIER Series 2

Din-T Surface mount with Orange door
Suits Din-T MCBs (DIN) refer section one

Pole capacity	Box size	Height (mm)	No Main Switch Cat. No.	160 A Main switch Cat. No.	250 A Main switch Cat. No.
18	1	800	CPD-18-O-2	CPD-18-M160-O-2 ¹⁾	CPD-18-M250-O-2 ¹⁾
24	1	800	CPD-24-O-2	CPD-24-M160-O-2	CPD-24-M250-O-2 ¹⁾
36	2	1000	CPD-36-O-2	CPD-36-M160-O-2 ¹⁾	CPD-36-M250-O-2 ¹⁾
48	2	1000	CPD-48-O-2	CPD-48-M160-O-2 ¹⁾	CPD-48-M250-O-2 ¹⁾
60	3	1200	CPD-60-O-2	CPD-60-M160-O-2 ¹⁾	CPD-60-M250-O-2 ¹⁾
72	4	1400	CPD-72-O-2	-	CPD-72-M250-O-2 ¹⁾
84	4	1400	CPD-84-O-2	-	CPD-84-M250-O-2 ¹⁾
96	5	1600	CPD-96-O-2	-	CPD-96-M250-O-2 ¹⁾

Width = 640 mm Depth = 240 mm includes door (Door = 20 mm)

Notes: ¹⁾ Main switch supplied loose
e.g., CPD24M250G2 = CPD24G2 + CDT250MS.

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Panelboards, loadcentres and accessories CONCEPT•PREMIER

Premium panelboards to suit Safe-T MCBs

- Standard AS/NZS 3439.3
- 1.6 mm fully welded construction
- IP 66 rated enclosure
- Commercial and industrial applications
- Modular sizes up to 96 poles
- Suits Safe-T MCBs and accessories
- Type tested busbar/chassis system
- Removable gland plates (with gaskets)
- Hinged escutcheon
- Lockable door with 3 point locking on larger sizes
- Australian made
- CT chassis
- T handle door lock



Stainless steel enclosure option available

CONCEPT•PREMIER

Safe-T Surface mount with Grey door
Suits Safe-T MCBs (NEMA) refer section one



Pole capacity	Box size	Height (mm)	No Main Switch Cat. No.	160 A Main switch Cat. No. ¹⁾	250 A Main switch Cat. No. ¹⁾
18	1	800	CPS-18-G	CPS-18-M160-G	CPS-18-M250-G
24	1	800	CPS-24-G	CPS-24-M160-G	CPS-24-M250-G
36	2	1000	CPS-36-G	CPS-36-M160-G	CPS-36-M250-G
48	2	1000	CPS-48-G	CPS-48-M160-G	CPS-48-M250-G
60	3	1200	CPS-60-G	CPS-60-M160-G	CPS-60-M250-G
72	4	1400	CPS-72-G	-	CPS-72-M250-G
84	4	1400	CPS-84-G	-	CPS-84-M250-G
96	5	1600	CPS-96-G	-	CPS-96-M250-G

Width = 640 mm Depth = 240 mm includes door (Door = 20 mm)

CONCEPT•PREMIER

Safe-T Surface mount with Orange door
Suits Safe-T MCBs (NEMA) refer section one

Pole capacity	Box size	Height (mm)	No Main Switch Cat. No.	160 A Main switch Cat. No. ¹⁾	250 A Main switch Cat. No. ¹⁾
18	1	800	CPS-18-0	CPS-18-M160-0	CPS-18-M250-0
24	1	800	CPS-24-0	CPS-24-M160-0	CPS-24-M250-0
36	2	1000	CPS-36-0	CPS-36-M160-0	CPS-36-M250-0
48	2	1000	CPS-48-0	CPS-48-M160-0	CPS-48-M250-0
60	3	1200	CPS-60-0	CPS-60-M160-0	CPS-60-M250-0
72	4	1400	CPS-72-0	-	CPS-72-M250-0
84	4	1400	CPS-84-0	-	CPS-84-M250-0
96	5	1600	CPS-96-0	-	CPS-96-M250-0

Width = 640 mm Depth = 240 mm includes door (Door = 20 mm)

Notes: ¹⁾ Main switch supplied loose
e.g., CPS24M250G = CPS24G + CST250MS.

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Panelboards, loadcentres and accessories CONCEPT•PREMIER

Premium panelboards to suit Safe-T MCBs

2

- Standard AS/NZS 3439.3
- 1.6 mm fully welded construction
- IP 66 rated enclosure
- Commercial and industrial applications
- Modular sizes up to 96 poles
- Suits Safe-T MCBs and accessories
- Type tested busbar/chassis system
- Removable gland plates (with gaskets)
- Hinged escutcheon
- Lockable door with 3 point locking on larger sizes
- Australian made
- CT chassis
- Flush door lock



CONCEPT•PREMIER Series 2

Safe-T Surface mount with Grey door
Suits Safe-T MCBs (NEMA) refer section one



Pole capacity	Box size	Height (mm)	No Main Switch Cat. No.	160 A Main switch Cat. No. ¹⁾	250 A Main switch Cat. No. ¹⁾
18	1	800	CPS-18-G-2	CPS-18-M160-G-2	CPS-18-M250-G-2
24	1	800	CPS-24-G-2	CPS-24-M160-G-2	CPS-24-M250-G-2
36	2	1000	CPS-36-G-2	CPS-36-M160-G-2	CPS-36-M250-G-2
48	2	1000	CPS-48-G-2	CPS-48-M160-G-2	CPS-48-M250-G-2
60	3	1200	CPS-60-G-2	CPS-60-M160-G-2	CPS-60-M250-G-2
72	4	1400	CPS-72-G-2	-	CPS-72-M250-G-2
84	4	1400	CPS-84-G-2	-	CPS-84-M250-G-2
96	5	1600	CPS-96-G-2	-	CPS-96-M250-G-2

Width = 640 mm Depth = 240 mm includes door (Door = 20 mm)

CONCEPT•PREMIER Series 2

Safe-T Surface mount with Orange door
Suits Safe-T MCBs (NEMA) refer section one

Pole capacity	Box size	Height (mm)	No Main Switch Cat. No.	160 A Main switch Cat. No. ¹⁾	250 A Main switch Cat. No. ¹⁾
18	1	800	CPS-18-O-2	CPS-18-M160-O-2	CPS-18-M250-O-2
24	1	800	CPS-24-O-2	CPS-24-M160-O-2	CPS-24-M250-O-2
36	2	1000	CPS-36-O-2	CPS-36-M160-O-2	CPS-36-M250-O-2
48	2	1000	CPS-48-O-2	CPS-48-M160-O-2	CPS-48-M250-O-2
60	3	1200	CPS-60-O-2	CPS-60-M160-O-2	CPS-60-M250-O-2
72	4	1400	CPS-72-O-2	-	CPS-72-M250-O-2
84	4	1400	CPS-84-O-2	-	CPS-84-M250-O-2
96	5	1600	CPS-96-O-2	-	CPS-96-M250-O-2

Width = 640 mm Depth = 240 mm includes door (Door = 20 mm)

Notes: ¹⁾ Main switch supplied loose
e.g., CPS24M25002 = CPS2402 + CST250MS.

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Panelboards, loadcentres and accessories CONCEPT•PREMIER

Premium panelboards to suit Din-T and Safe-T MCBs

- Standard AS/NZS 3439.3
- 1.6 mm fully welded construction
- IP 66 rated enclosure
- Commercial and industrial applications
- Modular sizes up to 96 poles
- Suits Din-T6, 10, 15 kA and Safe-T MCBs and accessories
- Type tested busbar/chassis system
- Removable gland plates (with gaskets)
- Hinged escutcheon
- Lockable door with 3 point locking on larger sizes
- Australian made
- CD chassis
- T handle door lock



CONCEPT•PREMIER

Stainless steel Din-T Surface mount
Suits Din-T MCBs (DIN) refer section one



Pole capacity	Box size	Height (mm)	No Main Switch Cat. No.	160 A Main switch Cat. No. ¹⁾	250 A Main switch Cat. No. ¹⁾
18	1	800	CPD-18-SS	CPD-18-M160-SS	CPD-18-M250-SS
24	1	800	CPD-24-SS	CPD-24-M160-SS	CPD-24-M250-SS
36	2	1000	CPD-36-SS	CPD-36-M160-SS	CPD-36-M250-SS
48	2	1000	CPD-48-SS	CPD-48-M160-SS	CPD-48-M250-SS
60	3	1200	CPD-60-SS	CPD-60-M160-SS	CPD-60-M250-SS
72	4	1400	CPD-72-SS	-	CPD-72-M250-SS
84	4	1400	CPD-84-SS	-	CPD-84-M250-SS
96	5	1600	CPD-96-SS	-	CPD-96-M250-SS

Width = 640 mm Depth = 240 mm includes door (Door = 20 mm)

CONCEPT•PREMIER

Stainless steel Safe-T Surface mount
Suits Safe-T MCBs (NEMA) refer section one

Pole capacity	Box size	Height (mm)	No Main Switch Cat. No.	160 A Main switch Cat. No. ¹⁾	250 A Main switch Cat. No. ¹⁾
18	1	800	CPS-18-SS	CPS-18-M160-SS	CPS-18-M250-SS
24	1	800	CPS-24-SS	CPS-24-M160-SS	CPS-24-M250-SS
36	2	1000	CPS-36-SS	CPS-36-M160-SS	CPS-36-M250-SS
48	2	1000	CPS-48-SS	CPS-48-M160-SS	CPS-48-M250-SS
60	3	1200	CPS-60-SS	CPS-60-M160-SS	CPS-60-M250-SS
72	4	1400	CPS-72-SS	-	CPS-72-M250-SS
84	4	1400	CPS-84-SS	-	CPS-84-M250-SS
96	5	1600	CPS-96-SS	-	CPS-96-M250-SS

Width = 640 mm Depth = 240 mm includes door (Door = 20 mm)

Notes: ¹⁾ Main switch supplied loose
e.g., CPD24M250SS = CPD24SS + CST250MS.

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Panelboards, loadcentres and accessories CONCEPT•PREMIER

Premium panelboards to suit Din-T and Safe-T MCBs

2

- Standard AS/NZS 3439.3
- 1.6 mm fully welded construction
- IP 66 rated enclosure
- Commercial and industrial applications
- Modular sizes up to 96 poles
- Suits Din-T6, 10, 15 kA and Safe-T MCBs and accessories
- Type tested busbar/chassis system
- Removable gland plates (with gaskets)
- Hinged escutcheon
- Lockable door with 3 point locking on larger sizes
- Australian made
- NC chassis
- Flush door lock



CONCEPT•PREMIER Series 2

Stainless steel Din-T Surface mount
Suits Din-T MCBs (DIN) refer section one



Pole capacity	Box size	Height (mm)	No Main Switch Cat. No.	160 A Main switch Cat. No. ¹⁾	250 A Main switch Cat. No. ¹⁾
18	1	800	CPD-18-SS-2	CPD-18-M160-SS-2	CPD-18-M250-SS-2
24	1	800	CPD-24-SS-2	CPD-24-M160-SS-2	CPD-24-M250-SS-2
36	2	1000	CPD-36-SS-2	CPD-36-M160-SS-2	CPD-36-M250-SS-2
48	2	1000	CPD-48-SS-2	CPD-48-M160-SS-2	CPD-48-M250-SS-2
60	3	1200	CPD-60-SS-2	CPD-60-M160-SS-2	CPD-60-M250-SS-2
72	4	1400	CPD-72-SS-2	-	CPD-72-M250-SS-2
84	4	1400	CPD-84-SS-2	-	CPD-84-M250-SS-2
96	5	1600	CPD-96-SS-2	-	CPD-96-M250-SS-2

Width = 640 mm Depth = 240 mm includes door (Door = 20 mm)

CONCEPT•PREMIER Series 2

Stainless steel Safe-T Surface mount
Suits Safe-T MCBs (NEMA) refer section one

Pole capacity	Box size	Height (mm)	No Main Switch Cat. No.	160 A Main switch Cat. No. ¹⁾	250 A Main switch Cat. No. ¹⁾
18	1	800	CPS-18-SS-2	CPS-18-M160-SS-2	CPS-18-M250-SS-2
24	1	800	CPS-24-SS-2	CPS-24-M160-SS-2	CPS-24-M250-SS-2
36	2	1000	CPS-36-SS-2	CPS-36-M160-SS-2	CPS-36-M250-SS-2
48	2	1000	CPS-48-SS-2	CPS-48-M160-SS-2	CPS-48-M250-SS-2
60	3	1200	CPS-60-SS-2	CPS-60-M160-SS-2	CPS-60-M250-SS-2
72	4	1400	CPS-72-SS-2	-	CPS-72-M250-SS-2
84	4	1400	CPS-84-SS-2	-	CPS-84-M250-SS-2
96	5	1600	CPS-96-SS-2	-	CPS-96-M250-SS-2

Width = 640 mm Depth = 240 mm includes door (Door = 20 mm)

Notes: ¹⁾ Main switch supplied loose
e.g., CPD24M250SS2 = CPD24SS2 + CST250MS.

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Panelboards, loadcentres and accessories CONCEPT•PREMIER

Premium panelboards Type CPX to suit MCCBs

- Standard AS/NZS 3439.3
- 1.6mm fully welded construction
- IP 66 rated enclosure
- Industrial applications
- Series 1 suits E125 & S125 MCCBs
- Series 2 suits S160, E250, S250 MCCBs
- Modular sizes 18 to 72 pole
- Type tested busbar/ chassis system
- Removable gland plates (with gaskets)
- Hinged escutcheon
- Lockable door with 3 point locking
- Dual earth and Neutral bars
- Australian made
- XA630 chassis (series 2 XB800)
- T-handle door lock (series 1)
- Flush lock (series 2)



Series 2
larger gland plate
opening flush door
handle

CPX Panelboard details

CPX panelboard is design to suit E125 & S125 (125 A) MCCBs. Series 2 suits S160, E250 and S250 MCCBs. Supplied standard without a main switch.

Versions can be made with XB and XC chassis to suit S250 (250 A) & S400 MCCBs but enclosure size may increase from sizes listed below.

For 400 A main switch, enclosure size will increase by 2 sizes.

CONCEPT•PREMIER

MCCB Surface mount with yellow door Suits TemBreak 2 MCCBs refer section five

Pole capacity	Box size	Height (mm)	Series 1 Cat. No. ¹⁾	Series 2 Cat. No. ¹⁾
18	2	1000	CPX-18-Y	CPX-18-Y-2
24	2	1000	CPX-24-Y	CPX-24-Y-2
30	3	1200	CPX-30-Y	CPX-30-Y-2
36	3	1200	CPX-36-Y	CPX-36-Y-2
42	4	1400	CPX-42-Y	CPX-42-Y-2
48	4	1400	CPX-48-Y	CPX-48-Y-2
60	5	1600	CPX-60-Y	CPX-60-Y-2
72	6	1800	CPX-72-Y	CPX-72-Y-2

Width = 640 mm Depth = 240 mm includes door (Door = 20 mm)

Notes: ¹⁾ Door colour "Y" – insert **O** for orange, **G** for grey or **SS** for stainless steel.

Panelboards, loadcentres and accessories

CONCEPT•PREMIER

2

Accessory modules Series 1

Box size	Height (mm)	Pole cap	With escutcheon Cat. No.
H	600	24	CPPACC24-Y
H	600	48	CPPACC48-Y

Box size	Height (mm)	No escutcheon Cat. No.	With escutcheon Cat. No. ¹⁾
H	600	CPPACC-Y	CPPACCY-E
1	700	-	CPPACC1-Y-E
2	900	-	CPPACC2-Y-E
3	1100	-	CPPACC3-Y-E
4	1300	-	CPPACC4-Y-E
5	1500	-	CPPACC5-Y-E
6	1700	-	CPPACC6-Y-E

Width = 640 mm Depth = 240 mm includes door (Door = 20 mm)

Accessory modules Series 2

Box size	Height (mm)	Pole cap	With escutcheon Cat. No.
H	600	24	CPPACC24-Y-2
H	600	48	CPPACC48-Y-2

Box size	Height (mm)	No escutcheon Cat. No.	With escutcheon Cat. No. ¹⁾
H	600	CPPACCH-Y2	CPPACCH-Y-E2
1	700	-	CPPACC1-Y-E2
2	900	-	CPPACC2-Y-E2
3	1100	-	CPPACC3-Y-E2
4	1300	-	CPPACC4-Y-E2
5	1500	-	CPPACC5-Y-E2
6	1700	-	CPPACC6-Y-E2

Width = 640 mm Depth = 240 mm includes door (Door = 20 mm)

Door colour "Y" – insert **O** for orange, **G** for grey or **SS** for stainless steel

Gear trays to suit Accessory Module

White mounting plate Height (mm)	No escutcheon Cat. No.
94	CPBGTS1
194	CPBGTS2
294	CPBGTS3
494	CPBGTS4
594	CPBGTS5
994	CPBGTS6

Gear trays for Concept Plus must be 200 mm shorter than enclosure size

Notes: ¹⁾ Supplied with blank escutcheon.

Panelboards, loadcentres and accessories

CONCEPT•PREMIER

Premium panelboards options and accessories (cont.)

Main switches

Main switches are available in two mounting configurations:

- Chassis mount – a circuit breaker or switch of the appropriate size is fitted onto the chassis and serves as a main switch. This circuit breaker/switch is restricted to the maximum size which the chassis can accept. The circuit breaker/switch can be of the thermal magnetic type or be just a standard switch.
- Top mount – a circuit breaker or switch is mounted above the chassis in the centre of the enclosure. The size of the main switch is more flexible and can be of a larger size. NHP stock a large range of mounting brackets for most applications.

CONCEPT•PREMIER panelboards can accept up to an 800 amp main switch as a centre top mount. The table below indicates the switch allowable in each application.

Switch Type	No. of Poles	Rating I _n (A)	Enclosure ⁴⁾			Cat. No.
			CPS	CPD	CPX	
Safe-T ¹⁾	3	63	C	–	–	SAFE-T6363NA
Safe-T ¹⁾	3	100	C	–	–	SAFE-T63100NA
Din-T ¹⁾	3	63	–	C	–	DINTMS633
Din-T ¹⁾	3	80	–	C	–	DINTMS803
Din-T ¹⁾ ⁵⁾	3	100	–	C	–	DINTMS1003
CONCEPT	3	160	–	T	–	CDT160MS
CONCEPT	3	250	–	T	–	CDT250MS
CONCEPT	3	160	T	T	–	CST160MS
CONCEPT	3	250	T	T	T	CST250MS
Switch fuse	3	160	T	T	T	IS03160SFH
MCCB ¹⁾	3	250	T	T	T	S250NN3
Load-break	3	315	T ²⁾	T ²⁾	T ²⁾	LE7-315-1753
Load-break	3	400	T ²⁾	T ²⁾	T ²⁾	SLB4003P
Load-break	3	630	–	–	T ²⁾	ON APPLICATION
Load-break	3	800	–	–	T ²⁾	ON APPLICATION
MCCB ¹⁾	3	400	T ²⁾	T ²⁾	T ²⁾	S400NN3
MCCB ¹⁾	3	630	–	–	T ²⁾	S630NN3
MCCB ¹⁾	3	800	–	–	T ²⁾	XS800NN

Dimensions (mm)

Type	No. of Poles	H	W	D	Weight Kg
Safe-T	3	95	75	77	0.63
Din-T	3	90	52.5	68	0.30
CDT160MS	3	128	106	77.5	0.95
CDT250MS	3	128	106	77.5	0.95
CST160MS	3	128	106	77.5	0.95
CST250MS	3	128	106	77.5	0.95
IS03160SFH	3	163	132	118	1.50
XS250NN	3	165	105	86	1.85
LE7-315-1753	3	114 ³⁾	145	103	1.80
XS400NN	3	260 ³⁾	140	103	5.00
XS630NN	3	433 ³⁾	210	103	11.00
XS800NN	3	433 ³⁾	210	103	12.00

Notes: ¹⁾ Circuit breaker with no thermal or magnetic protection – isolator switch only.

²⁾ Increase enclosure height for larger main switch.

³⁾ Height includes attached busbars.

⁴⁾ C = Chassis mount. T = Top mount.

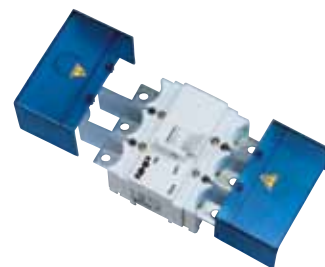
⁵⁾ NC chassis only.



Safe-T Isolator



Din-T Isolator



Concept main switch, shown with optional terminal covers



S250NN3 Isolator (Non-Auto MCCB)



SLB400

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CPX panelboards	2 - 34

Panelboards, loadcentres and accessories

CONCEPT•PREMIER

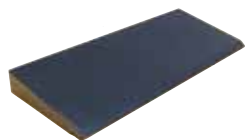
Premium panelboards options and accessories (cont.)

Options and accessories

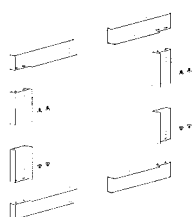
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Weatherproof rainhood



Weatherproof rainhood



Flush kit CPPFK

Description			Cat. No.
Emergency lighting kits		rotary control switch	CPELK1
		rotary control switch (wired loom)	CPELK1W
		Key switch	CPELK2
Flush kits (supplied loose) 45 mm width		Size H	CPPFKH
		Size 1	CPPFK1
		Size 2	CPPFK2
		Size 3	CPPFK3
		Size 4	CPPFK4
		Size 5	CPPFK5
		Size 6	CPPFK6
		Size 7	CPPFK7
Weatherproof cover	Mild steel	Single width	CPPWC
		Double width	CPPWCD
	Stainless steel	Single width	CPPWCSS
		Double width	CPPWCDSS
Floor mounting plinth	Mild steel	Single width	CPPPLINTHS
		Double width	CPPPLINTHD
	Stainless steel	Single width	CPPPLINTHSSS
		Double width	CPPPLINTHDSS
Wall mounting brackets	Mild steel		CPPWBMS
	Stainless steel		CPPWB
Gland plates		Brass 3 mm	CPPGPB
		Brass 5 mm	CPPGPB5
		Aluminium 3 mm	CPPGPA
		Aluminium 6 mm	CPPGPA6
White liners 2 required per board		Size H	CPPWILH
		Size 1	CPPWIL1
		Size 2	CPPWIL2
		Size 3	CPPWIL3
		Size 4	CPPWIL4
		Size 5	CPPWIL5
		Size 6	CPPWIL6
		Size 7	CPPWIL7
Transforms interior of board white without respray			
Gland plate gasket	Series 1		305.00001
	Series 2		TBA

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Panelboards, loadcentres and accessories CONCEPT•PREMIER

Premium panelboards options and accessories (cont.)

Accessories

Description			Cat. No.
Split chassis kits	CPD	CD chassis	STKCD
	CPS	CT chassis 250 A	STK250NDTH
	CPS	CT chassis 355 A	STK300TH
Connection kits	250 A MCCB to CD chassis		CD250CKT2
	200 A MCCB to NC chassis (Direct)		NCCK200
	250 A MCCB to NC chassis (TAG)		NCCK250
	300 A MCCB to NC chassis (TAG)		NCCK400
	400 A Loadbreak to NC chassis (TAG)		NCCK4002
	Support bracket 250 MCCB		CPPBS250B
	Support bracket 400 MCCB		CPPBS400B
	Support bracket 400 Loadbreak		REFER NHP
External lighting kit (timer, contactor, bypass switch)	1 channel, 2 N/O 20 A mini contactor		CPEXTLKC
	1 channel, 2 N/O 20 A contactor		CPEXTLK1
	2 channel, 2 N/O 20 A contactor		CPEXTLK2
Pole Fillers	Din-T		DTPF
	Safe-T		SAFETPF
	S 125		XAB2
	S 250		XAB3
Tee-off plastic caps	CD-Din-T		CD250TOPC
	NC-Din-T		NC250TOPC
	Safe-T		TH250TOPC
Spare Key (set of 2)	CL001		KEYCL001
	92268		KEY92268
NSW PWD E lock (series I)			CPPPWDNSW
Traffolite labelling available			Refer NHP
Spacial paint colour			Refer NHP
PVC wiring duct			Refer NHP
kWH meter			Refer NHP

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Panelboards, loadcentres and accessories

CONCEPT•PREMIER

Premium panelboards - Technical data

2

Material type	Description
Base and door	1.6 mm sheet steel
Escutcheon	1.2 mm sheet steel

Finish	Polyester powder coat (gloss)
--------	-------------------------------

Colour	
Base	Charcoal gloss (Interpon GL035A)
Door	N42 storm grey gloss (Interpon ML060A) Orange X15 (Interpon MF035A)
Escutcheon	Bright white gloss (Interpon GA030A)

Busbar chassis	
Withstand	CPD 250 A - 20 kA for 0.2 sec AS/NZS 3439.3 CPS 250 A - 20 kA for 0.2 sec AS/NZS 3439.3 CPD 355 A - 20 kA for 1 sec AS/NZS 3439.3 CPS 355 A - 25 kA for 0.3 sec AS/NZS 3439.3
Coating	Polyolefin alloy PPA-441

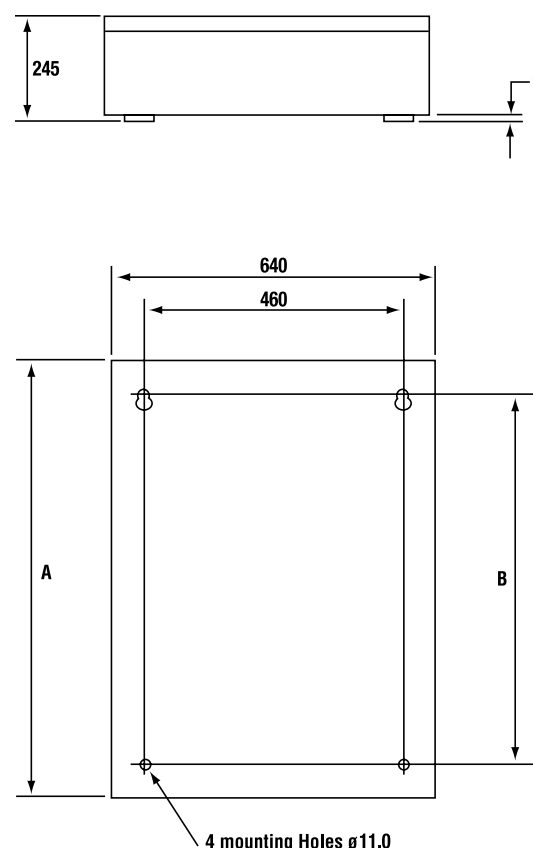
Busbar chassis (Series 2)	
Withstand	CPD 250 A - 25 kA for 0.1 sec AS/NZS 3439.3 CPD 400 A - 30 kA for 0.1 sec AS/NZS 3439.3 CPX 630 A - 36 kA for 1.0 sec AS/NZS 3439.3

CPD & CPS Neutral and earth bar	
Current rating	165 A
Withstand	10 kA 1 sec
Main connection	2 x 8 mm stud
Outgoing connection	Tunnel terminal 2 screw 2 x 25 mm ² ; bal. 16 mm ²

CPX Neutral and earth bar	
Current rating	400 A
Main connection	2 x 10 mm stud + 8 x 8 mm stud
Outgoing connection	Tunnel terminal 2 screw Bal. 16 mm ²

250 A main switch (if applicable)	
Number of poles	3
Enclosed current rating	250 A
Rated voltage	415 V 50/60 Hz
Utilisation category	AC 21B and AC 22B
Standard	AS/NZS 60947-3

Dimensions (mm)



Modular box size	Dimensions (mm)	
	A	B
Size H	600	400
Size 1	800	600
Size 2	1000	800
Size 3	1200	1000
Size 4	1400	1200
Size 5	1600	1400
Size 6	1800	1600
Size 7	2000	1800

CONCEPT•PLUS CONCEPT•PREMIER

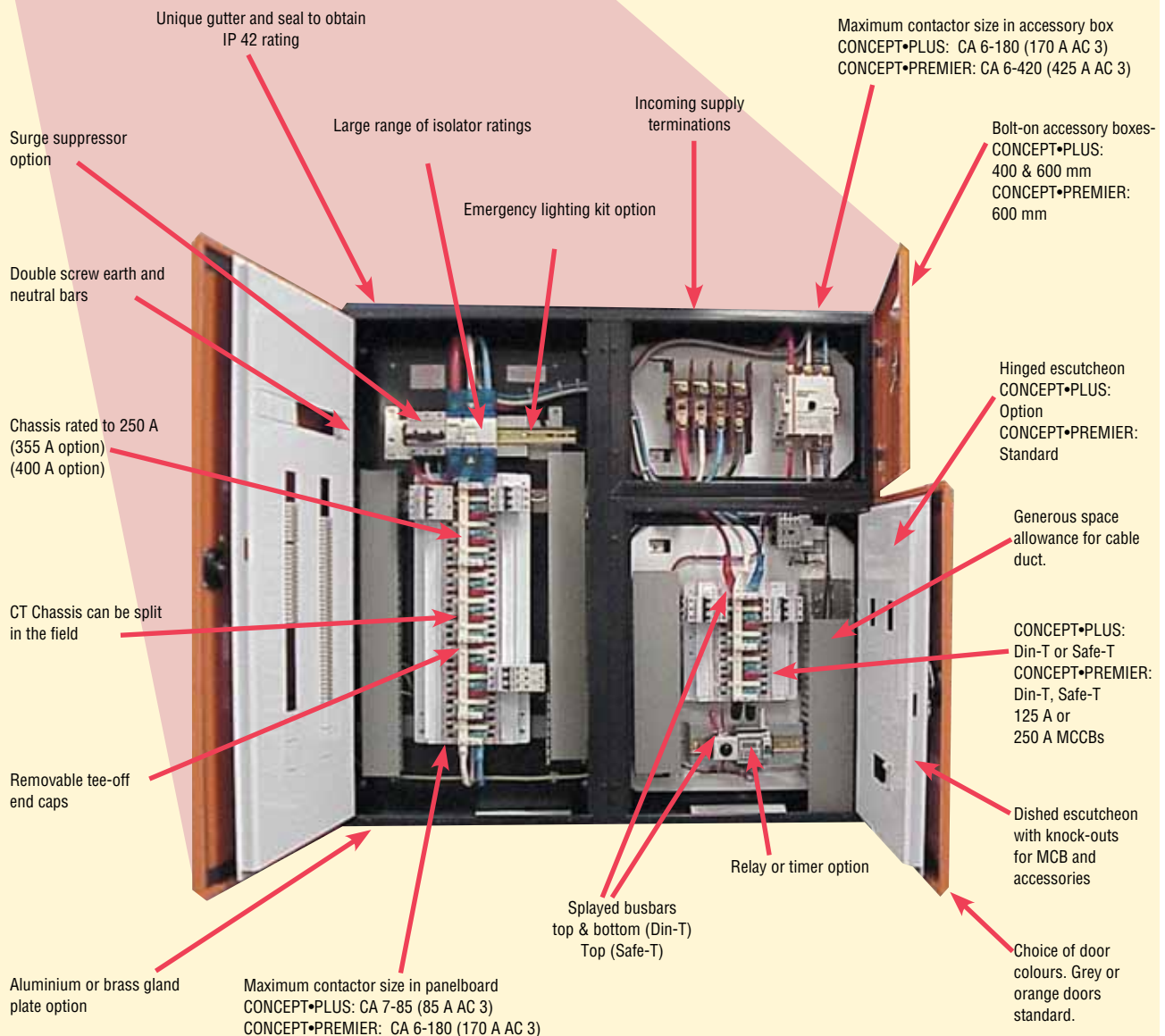
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Modular panelboards

CONCEPT•PLUS and CONCEPT•PREMIER form a highly featured range of panelboards designed for commercial and industrial applications. The widely accepted CONCEPT•PLUS can be used for a wide variety of indoor applications, while the CONCEPT•PREMIER is suited to indoor or outdoor use. Application versatility is also increased because panelboards can be combined with accessory modules or simply bolted together to form custom modular constructions combining power distribution and control equipment.



**PLUS flexibility
PLUS modularity**



* The above modular panelboard represents one possible combination of enclosures and equipment.

Panelboards, loadcentres and accessories

CONCEPT•TOUGH

Heavy-duty range of premium panelboards

CTD panelboards – to suit Din-T MCBs and accessories

CTX panelboards – to suit TemBreak MCCBs and special equipment

IP 66

- The heavy-duty panelboard for MCBs, 125 and 250 MCCBs
- Commercial, industrial and heavy industrial applications

The CONCEPT TOUGH panelboard range has all the features of CONCEPT PREMIER plus more, the CONCEPT TOUGH has an increase in depth, width and material thickness for extra strength. The increase in depth allows the use of a wider range of padlock/locking facilities on isolators and circuit breakers between the door and escutcheon. This extra depth allows larger accessory items to be mounted below the escutcheon such as contactors and changeover switches. The CONCEPT TOUGH has a vast amount of wiring space and very generously sized glandplate entry and exit points due to the extra width. This package is all put together in a rigid 2 mm fully welded construction for those extra tough applications.



- Standards AS/NZS 3439.3
- IP 66 rated enclosure
- 2.0 mm fully welded construction
- 316 marine grade steel option
- 4 modular sizes 500 mm - 2000 mm
- Hinged escutcheon
- Chrome hinges & door handle
- Type tested busbar/chassis system
- Removable gland plates (with gaskets)
- 3 point door locking
- L handle door lock
- Australian made

Features

- 2 mm fully welded construction.
- The lift-off hinged door is totally independent of the escutcheon.
- Gloss white lift-off hinged escutcheon has been dished to allow a wide range of accessories/locking facilities to fit behind the door.
- D handles fitted to the lift-off escutcheon to allow easy fitting and removal.
- Knockouts provided in the escutcheon for up to 18 modules of standard DIN rail equipment (Din-T Panelboards only)
- Removable gland plates aid on-site installation of cable and trunking systems.
- Compact main switch with a fully enclosed rating of 160 A and 250 A (Din-T panelboards only)
- Large gland plates to allow for incoming/outgoing cables
- Earth and Neutral bars, circuit identification and schedule cards supplied standard
- 6 mm aluminium gland plate

Panelboards, loadcentres and accessories CONCEPT•TOUGH

Suits Din-T MCBs

- Standard AS/NZS 3439.3
- IP 66 rated enclosure
- 2.0 mm fully welded construction
- 316 Stainless steel option
- 6mm Aluminium gland plates
- 4 modular sizes 500 mm to 2000 mm
- Very generous amounts of wiring room
- Type tested busbar/chassis system
- Removable gland plates (with gaskets)
- Lift-off hinged escutcheon
- Chrome hinges and door handle
- 3 point door locking
- Australian made
- Padlockable door handle
- Commercial, industrial and heavy industrial applications



CONCEPT•TOUGH with orange door to suit Din-T MCBs

Pole capacity	Box size	Height (mm)	Cat. No. ¹⁾
18	2	1000	CTD18-0
24	2	1000	CTD24-0
36	2	1000	CTD36-0
48	2	1000	CTD48-0
60	3	1500	CTD60-0
72	3	1500	CTD72-0
84	3	1500	CTD84-0
96	3	1500	CTD96-0

CONCEPT•TOUGH Stainless steel to suit Din-T MCBs

Pole capacity	Box size	Height (mm)	Cat. No.
18	2	1000	CTD18-SS
24	2	1000	CTD24-SS
36	2	1000	CTD36-SS
48	2	1000	CTD48-SS
60	3	1500	CTD60-SS
72	3	1500	CTD72-SS
84	3	1500	CTD84-SS
96	3	1500	CTD96-SS

CONCEPT•TOUGH to suit Din-T MCBs

Pole capacity	Box size	Height (mm)	Cat. No. ¹⁾
0	1	500	CTACCO
24	1	500	CTACC24H0 ²⁾
24	1	500	CTACC240

Width = 800 mm, Depth = 300 mm includes door. (Door = 20 mm)

Notes: ¹⁾ Replace '0' with - 'G' for Grey door.
 CTD panelboard are fully assembled from stocked components.
 Correct box size when fitting 160 A or 250 A isolator.
 0 = orange base and door; G = charcoal base and grey door
²⁾ 24 pole horizontal on DIN Rail (18P suit lock DIN, 3P suit STD DIN).

Panelboards, loadcentres and accessories CONCEPT•TOUGH

Suits E125, S125 MCCBs and S160, S250 MCCBs

2



- Standard AS/NZS 3439.3
- IP 66 rated enclosure
- 2.0 mm fully welded construction
- 316 Stainless steel option
- 6mm Aluminium gland plates
- 4 modular sizes 500 mm to 2000 mm
- Very generous amounts of wiring room
- Type tested busbar/chassis system
- Removable gland plates (with gaskets)
- Lift-off hinged escutcheon
- Chrome hinges and door handle
- 3 point door locking
- Australian made
- Padlockable door handle
- Commercial, industrial and heavy industrial applications

CONCEPT•TOUGH MCCB - Surface mount with orange door

Pole capacity	Box size	Height (mm)	Cat. No.
18	3	1000	CTX180
24	3	1000	CTX240
36	3	1500	CTX360
48	4	1500	CTX480
60	4	1500	CTX600
72	4	2000	CTX720

CONCEPT•TOUGH MCCB - Surface mount with grey door

Pole capacity	Box size	Height (mm)	Cat. No.
18	3	1000	CTX18G
24	3	1000	CTX24G
36	3	1500	CTX36G
48	4	1500	CTX48G
60	4	1500	CTX60G
72	4	2000	CTX72G

CONCEPT•TOUGH MCCB - Surface mount Stainless steel

Pole capacity	Box size	Height (mm)	Cat. No.
18	3	1000	CTX18SS
24	3	1000	CTX24SS
36	3	1500	CTX36SS
48	4	1500	CTX48SS
60	4	1500	CTX60SS
72	4	2000	CTX72SS

Width = 800 mm, Depth = 300 mm includes door. (Door = 20 mm)

Notes: CTX panelboards are fully assembled from stocked components.
Cat. No. refers to Panelboard suitable for E125, S125 MCCB.
Refer to NHP for Panelboard suitable for S160, S250 MCCB.
Correct box size when fitting 250 A or 400 A isolator. If a larger isolator is required an increase in box size may be required.

Panelboards, loadcentres and accessories CONCEPT•TOUGH

Heavy-duty panelboards options and accessories (cont.)

Main switches

Main switches are available in two mounting configurations:

- Chassis mount – a circuit breaker or switch of the appropriate size is fitted onto the chassis and serves as a main switch. This circuit breaker/switch is restricted to the maximum size which the chassis can accept. The circuit breaker/switch can be of the thermal magnetic type or be just a standard switch.
- Top mount – a circuit breaker or switch is mounted above the chassis in the centre of the enclosure. The size of the main switch is more flexible and can be of a larger size. NHP stock a large range of mounting brackets for most applications.

CONCEPT•TOUGH panelboards can accept up to an 800 amp main switch as a centre top mount. The table below indicates the switch allowable in each application.

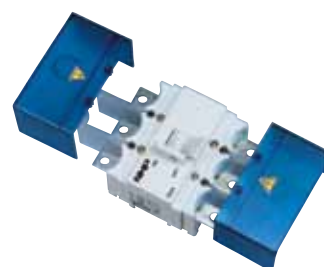
Switch Type	No. of Poles	Rating I _n (A)	Enclosure ⁴⁾		Cat. No.
			CTD	CTX	
Din-T ¹⁾	3	63	C	–	DINTMS633
Din-T ¹⁾	3	80	C	–	DINTMS803
Din-T ¹⁾⁵⁾	3	100	C	–	DINTMS1003
CONCEPT	3	160	T	–	CDT160MS
CONCEPT	3	250	T	–	CDT250MS
Switch fuse	3	160	T	T	IS03160SFH
MCCB ¹⁾	3	250	T	T ²⁾	S250NN3
Load-break	3	315	T ²⁾	T ²⁾	LE7-315-1753
Load-break	3	400	T ²⁾	T ²⁾	SLB4003P
Load-break	3	630	–	T ²⁾	ON APPLICATION
Load-break	3	800	–	T ²⁾	ON APPLICATION
MCCB ¹⁾	3	400	T ²⁾	T ²⁾	S400NN3
MCCB ¹⁾	3	630	–	T ²⁾	S630NN3
MCCB ¹⁾	3	800	–	T ²⁾	XS800NN

Dimensions (mm)

Type	No. of Poles	H	W	D	Weight Kg
Din-T	3	90	52.5	68	0.30
CDT160MS	3	128	106	77.5	0.95
CDT250MS	3	128	106	77.5	0.95
IS03160SFH	3	163	132	118	1.50
XS250NN	3	165	105	86	1.85
LE7-315-1753	3	114 ³⁾	145	103	1.80
XS400NN	3	260 ³⁾	140	103	5.00
XS630NN	3	433 ³⁾	210	103	11.00
XS800NN	3	433 ³⁾	210	103	12.00



Din-T Isolator



Concept main switch, shown with optional terminal covers



S250NN3 Isolator (Non-Auto MCCB)



SLB400

Notes: ¹⁾ Circuit breaker with no thermal or magnetic protection – isolator switch only.

²⁾ Increase enclosure height for larger main switch.

³⁾ Height includes attached busbars.

⁴⁾ C = Chassis mount. T = Top mount.

⁵⁾ NC chassis only.

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CTD panelboards

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CTX panelboards

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Panelboards, loadcentres and accessories

CONCEPT•TOUGH

Heavy-duty panelboards options and accessories (cont.)

2

Description	Cat. No.
Split chassis kit (supplied loose) CD250/355A	STKCD
Pole fillers CPD	DTPF
Tee-off plastic caps CPD	CD250TOPC
KWh meter – IME energy meters	REFER SECTION 12
Larger main isolator increases height by 300 mm minimum.	
There is an additional cost for the enclosure.	ON APPLICATION
Addition of NSW Department of Public Works and Services (DPWS) “E1 type” lock	ON APPLICATION
Addition of PVC wiring duct	ON APPLICATION
Traffolite labelling available	ON APPLICATION
Special contents and layouts available - refer NHP.	ON APPLICATION
Accessory module	REFER NHP

Busbar chassis connection kits for MCCBs and load-break switches

MCCB to MCB chassis kits

These connection kits are for direct connection of Terasaki 250 A or 400 A MCCBs to Concept Plus, Premier, and TOUGH panelboard CD/CT chassis assemblies.

Load-break switch to MCCB chassis kits

Connection kits for fault-make load-break switches enable direct connection to TemWay XA/XB MCCB chassis.

	Cat. No.
Connection kits 250 A MCCB to CD Chassis	CD250CK
250 A MCCB to NC Chassis	NCCK250
400 A Load-break to TemWay XA/XB Chassis	ON APPLICATION
630 A Load-break to TemWay XA/XB Chassis	ON APPLICATION
800 A Load-break to TemWay XA/XB Chassis	ON APPLICATION

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Panelboards, loadcentres and accessories

CONCEPT•TOUGH

Heavy-duty panelboards - technical data

2

Material type

Description	
Base and door	2.0 mm fully welded sheet steel (stainless steel option)
Escutcheon	1.6 mm sheet steel

Finish

Polyester powder coat (gloss)

Colour (AS 2700 - 1995)

Base	Charcoal gloss (Interpon GL035A)
Door	Grey - N42 storm grey (Interpon ML060A) X15 orange (Interpon MF035A)
Escutcheon	Bright white gloss (Interpon GA030A)

Protection Degree

IP 66

CTD Neutral bar & Earth bar (dual)

Current rating	165 A
Withstand	10 kA 1 sec
Main connection	2 x 8 mm stud
Outgoing connection	Tunnel terminal 2 screw 2 x 25 mm ² ; bal. 16 mm ²

CTX Neutral bar & Earth bar

Current rating	400 A
Main connection	2 x 10 mm stud + 8 x 8 mm studs
Outgoing connection	Tunnel terminal 2 screw Bal. 35 mm ²

Busbar ratings

CD chassis	20 kA for 0.2 s (250 A)
NC chassis	25 kA for 0.1 s (250 A)
XA chassis	36 kA for 1.0 s (630 A)

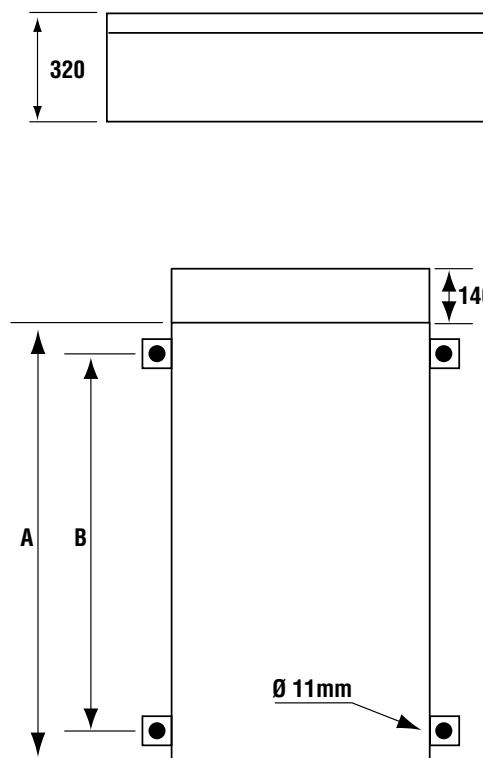
Main switch

(optional)

250 A main switch (if applicable)

Number of poles	3
Enclosed current rating	250 A
Rated voltage	415 V 50/60 Hz
Utilisation category	AC 21B and AC 22B
Standard	AS/NZS 60947-3

Dimensions (mm)



Modular box size dimensions (mm)

Box size	A	B
Size 2	1000	875
Size 3	1500	1375
Size 4	2000	1875

Panelboards, loadcentres and accessories

CONCEPT•TOUGH

The premium safety panelboard

IP 42

2

CPW panelboards – to suit Din-T MCBs

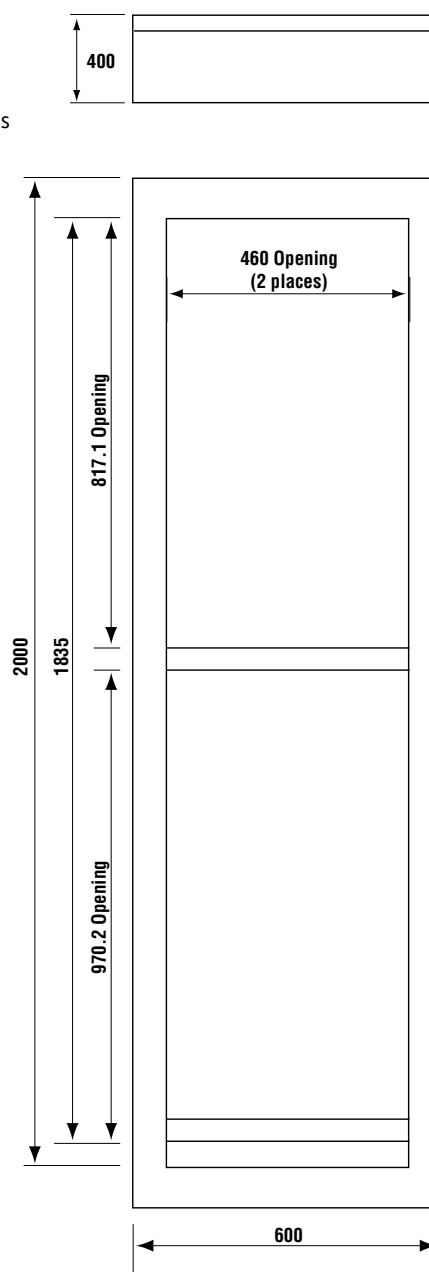
- The Powersafe panelboard for MCBs
- Commercial, industrial and heavy industrial applications
- Essential for all power critical installation

The CONCEPT POWERSAFE panelboard range is essential for all critical power installations. This board allows circuits to be safely modified without power being taken off-line. All Circuits and connections are fully insulated/covered so that all work can be done safely in line with OH&S.



- Allows MCBs to be changed without taking power off-line
- Standards AS/NZS 60439-3
- 1.6 mm fully welded construction for 24 way boards
- 2.0 mm fully welded construction for 36 and 48 way boards
- Comes complete with all switchgear fitted and wired
- Choice of sub-circuit size (A)
- Independently hinged escutcheons
- 3 point locking system as standard
- Convert single pole to three pole and vice-versa
- Replace or add Terasaki circuit breakers without having to take your distribution board off-line
- Change ratings up to 50 amps per circuit
- Maintain productivity while changing or adding circuits
- All circuits fully insulated so work can be done safely
- Australian made

Dimensions (mm)



Concept•powersafe Wall mounted

Pole capacity	Cat. No. ¹⁾ ²⁾ ³⁾
24	CPW 24 XX Y ⁴⁾

Concept•powersafe Floor mounted

Pole capacity	Cat. No. ¹⁾ ²⁾ ³⁾
36	CPW 36 XX Y ⁴⁾
48	CPW 48 XX Y ⁴⁾

- Notes:**
- ¹⁾ Delete XX for no main switch.
 - ²⁾ Replace XX with MS for 250 A main switch.
 - ³⁾ Replace XX with CB for 250 A MCCB.
 - ⁴⁾ Replace Y with – O for Orange Door
G for Grey Door

PLEASE CONSULT NHP FOR ADDITIONAL WIRING OPTIONS.

Panelboards, loadcentres and accessories CONCEPT•PLUS

Energy metering panelboards

- Standard AS/NZS 3439.3
- Dual metering, separate light and power (Greenstar V3.0)
- kWh, kvarh
- RS 485 Comms or pulsed output
- Active energy class 1.0 or better
- Options - V, A, W, var, Hz, PF, Admd
- Options - Gas and water inputs
- Retro fit kits available
- IP42
- Commercial and industrial applications

Application

The CONCEPT•PLUS energy metering range of panelboard have been designed to meet the energy metering requirements of today's market.



160 A Energy metering panelboards

CT connect meters rated 75 A light and 120 A power

Pole cap	Box size	Light poles	Power poles	Cat. No. ¹⁾
36	3 (1100 mm)	12	24	CDM-36-M160-G
48	4 (1300 mm)	18	30	CDM-48-M160-G
60	4 (1300 mm)	18	42	CDM-60-M160-G

250 A Energy metering panelboards

CT connect meters rated 120 A light and 200 A power

Pole cap	Box size	Light poles	Power poles	Cat. No. ¹⁾
60	4 (1300 mm)	18	42	CDM-60-M250-G
72	5 (1500 mm)	24	48	CDM-72-M250-G
84	5 (1500 mm)	30	54	CDM-84-M250-G
96	6 (1700 mm)	36	60	CDM-96-M250-G

Retro fit energy metering kits ²⁾

Main switch	Box size	Light poles	Power poles	Cat. No. ¹⁾
-	0 (400 mm)	-	Up to 250 A	CDMRF-Y
250 A	0 (400 mm)	-	Up to 250 A	CDMRFSM250A-Y
250 A	H (600 mm)	-	Up to 250 A	CDMRFSM250A-Y-6
250 A	H (600 mm)	Up to 125 A	Up to 250 A	CDMRFSM250A-Y-6

Notes: ¹⁾ Delete M160 and M250 if no Main Switch is required.
Replace 'G' with 'O' for orange enclosure.

²⁾ Bolt on accessory module.

For other combinations or options refer to NHP.

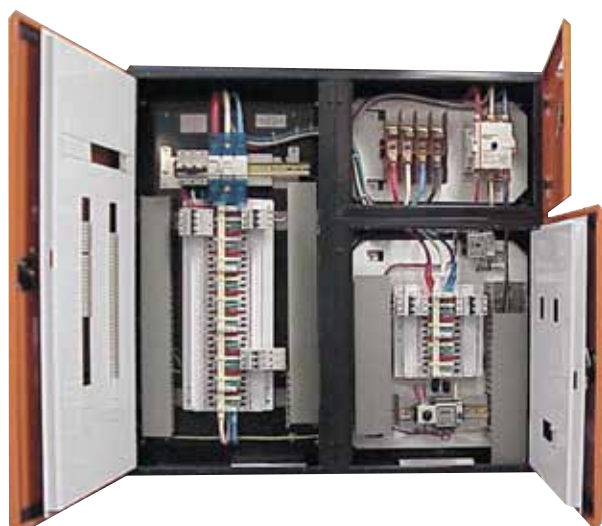
Note Metering boards are not suitable for utility metering.

Panelboards, loadcentres and accessories

CONCEPT•PLUS

Modular enclosure assemblies

2



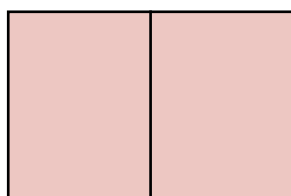
A strength of the CONCEPT•PLUS and PREMIER panelboard enclosure system is, enclosures can be assembled into a large variety of different configurations which make possible unique panelboards that include distribution systems, as well as various control circuitry and devices. These panelboards are built to customer specification.

The “modularity” feature of the CONCEPT•PLUS and PREMIER ranges, allows assemblies of various enclosures and accessory boxes that still maintain an overall square or rectangular appearance.

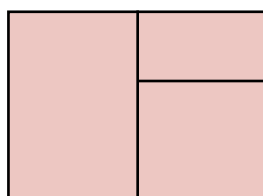
Features

- Panelboards and accessory boxes can be added for extra length.
- Panelboards can be bolted together in parallel. Accessory boxes can be added for extra length.
- Suits Din-T, Safe-T MCBs, and MCCBs to 250 A (CPX type) and associated chassis systems.
- Custom assemblies including control equipment such as relays, timers, contactors, larger isolators and pushbuttons can be added.
- Metalwork can be painted in a variety of colours. Stainless steel is an option.

Some examples of different box configurations:



Size
1+1
(CONCEPT•PLUS)



Size
3+1+ 400 mm
accessory box
(CONCEPT•PLUS)



Size
3+600 mm
accessory box
(CONCEPT•PREMIER)

Typical panelboard & accessory box sizes

	Height (mm)									(mm)	
	Accessory box		Size 1	Size 2	Size 3	Size 4	Size 5	Size 6	Size 7	Width	Depth
CONCEPT•PLUS	400	600	700	900	1100	1300	1500	1700	-	585	180
CONCEPT•PREMIER	-	600	800	1000	1200	1400	1600	1800	2000	640	240

Notes: Contact NHP for your specific configuration details

Material Specification – Stainless Steel

Stainless steel enclosures feature a number of beneficial properties. They resist corrosion immensely better than their mild steel counterparts. Opposite, you will find a chart indicating the resistance of 316 grade stainless steel to a range of chemical substances.

While mild steel enclosures are the obvious choice for a large part of the market, where surface coatings provide adequate protection, in a number of applications there are no substitutes for stainless steel. The hygienic requirements of the food and pharmaceutical industries or the harsh environment off-shore and in petrochemical plants, are just a few examples.

Technical data

Material:

Enclosure and Door: 1.6 mm 316 grade stainless steel.
Escutcheon: White, powder coated steel.

Enclosure:

Folded and seam welded. Four fixing holes, pressed out by 4 mm to allow ease of mounting.

Doors:

Surface mounted with 180 degree opening.
Semi-concealed, removable pin hinges can be mounted to allow left or right hand opening.

Lock:

Black polyamide "T"-lock.

Cable access:

Gland plates top and bottom, rubber gasketed.

Finish:

Outer body and door: Scuffed finish.

Protection rating:

IP 66 via door gaskets.

Meeting your requirements

NHP will be happy to supply you with the enclosure you need, made of the stainless steel grade you require and the surface finish your process or environment demands.

Drainage, especially in the food industry, is essential as bad drainage often leads to unacceptable biological contamination. CONCEPT•PREMIER stainless steel panelboards are suitable for washing down.

Stainless steel resistance chart (summary only)

Substance	316
Acetic Acid (10 %)	R
Acetylene	R
Acid Fumes	R
Alcohols	R
Ammonia	R
Ascorbic Acid	R
Boric Acid	R
Brines, saturated	NR
Calcium Disulphide	R
Carbonic Acid	R
Carbon Tetrachloride	R
Caustic Soda & Potash	R
Cellulose Paint	R
Chlorine, dry	R
Detergents, synthetic	R
Emulsifiers (all conc)	R
Esters & Ethers	R
Fatty Acids (>C ₆)	R
Fluorinated Refrigerants,	
Aerosols, e.g. Freon	R
Fruit Juices	R
Gelatine	R
Glycols	R
Hydrocyanic Acid	R
Hydrogen Peroxide (30 %)	R
Hydrogen Sulphide	R
Lead Acetate	R
Lime (CaO)	R
Manganate, Potassium (K)	R
Meat Juices	R
Milk & its products	R
Molasses	R
Nitric Acid (< 25 %)	R
Nitric Acid (50 %)	NR
Nitric Acid (90 %)	NR
Nitric Acid Fuming	R
Oil, Diesel, Petroleum Spirits	R
Oils, essential	R
Oil, lubes with aromatic additives	R
Oils, ve.g. etables & animal	R
Phenol	R
Phosphoric Acid (20 %)	R
Silicic Acid	R
Sodium Silicate	R
Starch	R
Sugar, Syrups, Jams	R
Sulphates	R
Sulphur Dioxide, dry	R
Sulphuric Acid, fuming	R
Tannic Acid (10 %)	R
Tartaric Acid	R
Trichlorethylene	R
Urea (30 %)	R
Water, pure	R
Water, salt water spray	R
Yeast	R

An **R** indicates that material is Resistant.

NR indicates that the material is Not Recommended.

The above recommendations are based on tests not exceeding 60 °C. Higher temperatures may result in different recommendations. These recommendations are broadly based and may be altered if other elements are present. If you are in any doubt please discuss the specific environment with us.

Panelboards, loadcentres and accessories

Panelboard DIN switch-fuse

2

The new KVKE switch-fuse from Katko is suitable for installation in Concept•PLUS and Concept•PREMIER panelboards. Fuse links ranging from 100 A to 160 A can be installed.

Features

- For DIN fuse types
- Compact size suited for panelboard use
- Fuse covers are supplied standard
- A non-captive escutcheon mounting handle is supplied standard

Ordering

Description

	Cat. No.
160 A switch-fuse 3 P	IS03160SFH
200 mm extension shaft ¹⁾	L2000KT

Fuse switch ratings

Rated insulation voltage, U_i (V)	1000
Rated impulse withstand voltage, U_{imp} (kV)	12
Rated thermal current, I_{th} (A)	160
Rated operational voltage, U_e (V)	690

IS03160SFH

Rated operational current I_e (A)

AC 21/22	415 V	160
AC 23	415 V	125

Rated fused short circuit current

Back-up fuse	160
RMS value (kA)	50
Peak value (kA)	11
Rated short circuit making capacity (kA)	11
Rated breaking capacity (A)	1000

Mechanical data

Electrical endurance (no. of ops)	2000
Mechanical endurance (no. of ops)	20000
Terminals/bolt size C_u (mm ²)	6-70
Maximum terminal torque (Nm)	4.5
Fuse type	DIN size 00
Weight, less fuses (kg)	1.5

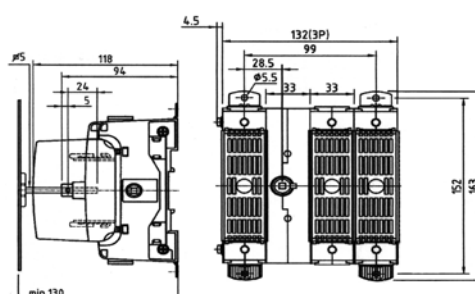
DIN fuse links - suitable for IS03160SFH switch fuses

- Ratings from 100-160 A.
- Size 00.
- Complies with DIN 43620/1 IEC 269-2-1.
- Fuse blown pop-up indication.

Ordering

Length (mm)	Diameter (mm)	HRC fuse link size	Current rating (A)	Cat. No.
78.5	20.5	00	100	N00 100
78.5	28	00	125	N00 125
78.5	28	00	160	N00 160

KVKE switch dimensions








Notes: ¹⁾ Extension shaft required for CONCEPT•PREMIER panelboards.

Panelboards, loadcentres and accessories

Hardware to suit the CONCEPT family of panelboards with Din-T or Safe-T MCBs

Earth and neutral bars - 165 A

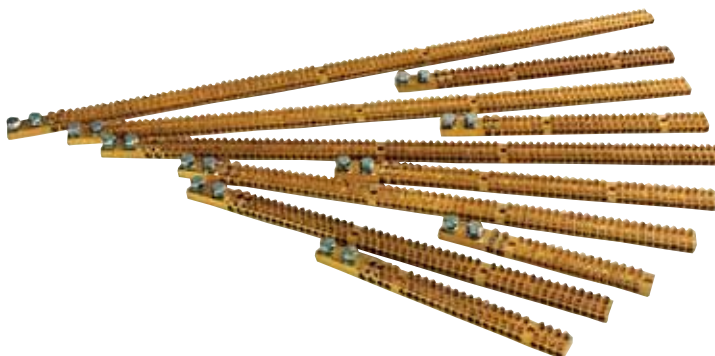
No. tunnels	Numbering	Single screw Cat. No.	Double screw Cat. No.
18	1-18	TGPEN181S	TGPEN182S
24	1-24	TGPEN241S	TGPEN242S
30	1-30	 TGPEN301S	TGPEN302S
36	1-36	 TGPEN361S	TGPEN362S
42	1-42	 TGPEN421S	TGPEN422S
48	1-48	 TGPEN481S	TGPEN482S
60	1-60	 TGPEN601S	TGPEN602S
72	1-72	-	TGPEN722S
84	1-84	-	TGPEN842S
96	1-96	-	TGPEN962S


Pole cap.	Numbering (odd/even)	Double screw odd numbers Cat. No.	Double screw even numbers Cat. No.
9	1-17 & 2-18	TGPEN92SODD	TGPEN92SEVE
18	1-35 & 2-36	TGPEN182SODD	TGPEN182SEVE
24	1-47 & 2-48	TGPEN242SODD	TGPEN242SEVE
30	1-59 & 2-60	TGPEN302SODD	TGPEN302SEVE
36	1-71 & 2-72	TGPEN362SODD	TGPEN362SEVE
42	1-83 & 2-84	TGPEN422SODD	TGPEN422SEVE
48	1-95 & 2-96	TGPEN482SODD	TGPEN482SEVE

165 A bars - 2 x M8 studs & 2 x 25 mm tunnel terminals, remainder 2 screw 16 mm terminals

Earth and neutral bars - 300 A

No. tunnels	Numbering	Single screw Cat. No.
18	1-18	CPEN18
24	1-24	CPEN24
36	1-36	CPEN36
48	1-48	CPEN48
60	1-60	CPEN60
72	1-72	CPEN72
84	1-84	CPEN84
96	1-96	CPEN96



Notes:  Available on indent only.

Panelboards, loadcentres and accessories

Hardware to suit the CONCEPT family of panelboards with Din-T or Safe-T MCBs



Pole capacity	Numbering (odd/even)	Double screw odd numbers Cat. No.	Double screw even numbers Cat. No.
9	1-17 & 2-18	CPEN9ODD	CPEN9EVE
18	1-35 & 2-36	CPEN18ODD	CPEN18EVE
24	1-47 & 2-48	CPEN24ODD	CPEN24EVE
30	1-59 & 2-60	CPEN30ODD	CPEN30EVE
36	1-71 & 2-72	CPEN36ODD	CPEN36EVE
48	1-95 & 2-96	CPEN48ODD	CPEN48EVE

300 A bars- 2 x M10 & 2 x M8 studs and 6 x 25 mm tunnel terminals, remainder 2 screw 16 mm terminals.
(Studs suitable for 2 x 185 mm lugs and 50 mm and 70 mm lugs)

Earth and neutral bars - 400 A rated



Ways	(Hex head screws)	Tunnel terminals	Double screw even numbers Cat. No.
8 way	2 x M10 & 8 x M8 studs	-	CPXEN8
12 way	2 x M10 & 8 x M8 studs	4 x 35 mm ² tunnel term.	CPXEN12
18 way	2 x M10 & 8 x M8 studs	10 x 35 mm ² tunnel term.	CPXEN18
36 way	3 x M10 & 8 x M8 studs	28 x 35 mm ² tunnel term.	CPXEN36

Extras



CP schedule card

Description	Cat. No.
Neutral bar extension - suits 165 A E/N bars - connection 2 x 185 mm lugs	NEB185
Neutral bar extension - 300 A - suits 165 A E/N bars	NEB335
Neutral bar mounting insulators (pair)	TGPINS
Neutral bar insulated support (each)	CPBMN
A4 Schedule card	CPSCHEDULECARD
Schedule card holder (plastic)	CPSCHEDULEHOLD
Touch-up paint charcoal spray can 150 g	392.00001
Touch-up paint grey spray can 150 g	392.35554
Touch-up paint orange spray can 150 g	392.35555
Touch-up paint bright white spray can 150 g	392.00002



NEB335 Neutral bar extension



TGPINS Neutral bar isolators

Panelboards, loadcentres and accessories

Concept Panelboard busbar chassis assemblies for Din-T MCBs

- Standard AS/NZS 3439.1
- Current rating 250 A and 400 A
- Encapsulated busbar (no insulation coating required)
- Withstand rating 250 A / 25k A 0.1 s
- Withstand rating 400 A / 30k A 0.1 s
- Busbar direct connect to 160 A & 250 A switch
- Top and bottom feed standard (top feed only pictured)
- Tee-offs 50 % capped
- IP 20 (maintained when fitted with 160 A & 250 A switch)
- IP 20 Connection kits to 250 A MCCB, 400 A MCCB
- Interchangeable with CD chassis, 400 A MCCB



Application

The Concept range of busbar chassis assemblies have been specifically designed for incorporation into the Concept family of panelboards, providing a secure mounting platform and connection system for the NHP Din-T range of MCBs. The busbars are fully enclosed therefore not requiring a insulated coating for electrical isolation. The new NC chassis are type tested and are mounted on a box section steel pan, powdercoated white.

Concept Din-T - 250 & 400 A chassis - suit Din-T MCBs (18 mm pole pitch)

Pole capacity	Cut-out length (mm)	Pan height (mm) ¹⁾	250 A Cat. No.	400 A Cat. No.
12	111	134	NC2-12/18-3U	NC4-12/18-3U
18	165	188	NC2-18/18-3U	NC4-18/18-3U
24	219	242	NC2-24/18-3U	NC4-24/18-3U
30	273	296	NC2-30/18-3U	NC4-30/18-3U
36	327	350	NC2-36/18-3U	NC4-36/18-3U
42	381	404	NC2-42/18-3U	NC4-42/18-3U
48	435	458	NC2-48/18-3U	NC4-48/18-3U
54	489	512	NC2-54/18-3U	NC4-54/18-3U
60	543	566	NC2-60/18-3U	NC4-60/18-3U
72	651	674	NC2-72/18-3U	NC4-72/18-3U
78	705	728	NC2-78/18-3U	NC4-78/18-3U
84	759	782	NC2-84/18-3U	NC4-84/18-3U
96	867	890	NC2-96/18-3U	NC4-96/18-3U
108	975	998		NC4-108/18-3U

Concept Din-T - 250 A chassis 3P + N Suits 4 pole MCBs

Pole capacity	Cut-out length 'C' (mm)	Pan height (mm)	Cat. No.
24	219	242	NC224183PNU
48	435	458	NC248183PNU
72	651	674	NC272183PNU
96	867	890	NC296183PNU

Notes: ¹⁾ Add 55 mm for flared busbar at top and bottom of chassis.
 OFF (line) side of MCB connects to chassis tee-off.
 Combinations other than those listed above can be special ordered refer to NHP.

Panelboards, loadcentres and accessories

Concept Panelboard busbar chassis assemblies for Din-T MCBs

Concept Din-T - 250 A chassis 3P & N - Suits Din-T 2P RCBOs (18 mm pole pitch)

Pole capacity	Cut-out 'C' length (mm)	Pan height (mm) ¹⁾	Cat. No.
24	219	242	NC-2-24/18-4U
36	327	350	NC-2-36/18-4U
48	435	458	NC-2-48/18-4U
60	543	566	NC-2-60/18-4U
72	651	674	NC-2-72/18-4U

Chassis colours - Red, Black, White, Black, Blue, Black

Concept Din-T - 400 A chassis - Suits Din-T10H MCBs (27 mm pole pitch)

Pole capacity	Cut-out 'C' length (mm)	Pan height (mm) ¹⁾	Cat. No.
6	84	107	NCH-4-6/27-3U
12	165	188	NCH-4-12/27-3U
18	244	267	NCH-4-18/27-3U
24	327	350	NCH-4-24/27-3U

Concept Din-T - 400 A chassis - Suits Din-T MCBs and Din-T10H MCBs (27/18 mm pole pitch)

Pole capacity 27 mm	Pole capacity 18 mm	Cut-out 'C' length (mm)	Pan height (mm) ¹⁾	Cat. No.
6	12	192	215	NCH-4-6/12-27/18-3U
6	24	300	323	NCH-4-6/24-27/18-3U
6	36	408	431	NCH-4-6/36-27/18-3U
6	48	516	539	NCH-4-6/48-27/18-3U
12	30	435	458	NCH-4-12/30-27/18-3U
12	42	543	566	NCH-4-12/42-27/18-3U
12	60	705	728	NCH-4-12/60-27/18-3U

Concept Din-T - 250 A chassis - 1P+N (DC) Suits 2P Din-T DC MCBs (18 mm pitch)

Pole capacity	Cut-out 'C' length (mm)	Pan height (mm)	Cat. No.
24	219	242	NC2241824
36	327	350	NC2361824
48	435	458	NC2481824
60	543	566	NC2601824

Chassis colours - Red and Black

Notes: ¹⁾ Add 55 mm for flared busbar at top and bottom of chassis.
4 pole and other special configurations available to special order refer NHP.
OFF (line) side of MCB connects to chassis tee-off.
Combinations other than those listed above can be special ordered refer to NHP.

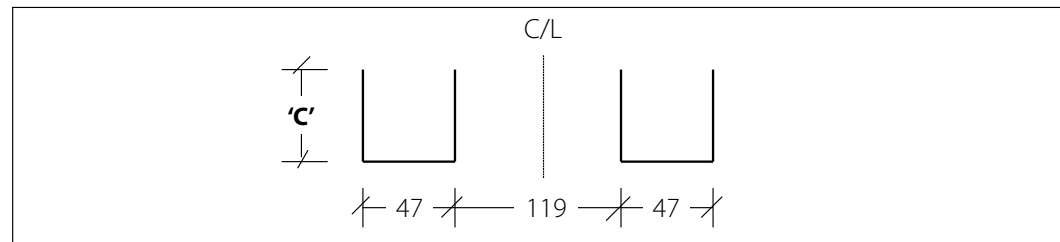
Panelboards, loadcentres and accessories

Concept Panelboard busbar chassis assemblies for Din-T MCBs

Accessories for NC chassis

Description	Cat. No.
Tee-off cap (18 mm)	NC250TOPC
Tee-off cap (27 mm)	NC250HTOPC
Busbar cap (each)	NCBBC
3P back cover	NCBC
4P back cover	NCBC4
Label 24 pole (Red, White, Blue)	NCL243
Label 24 pole (Red, Blk, White, Blk, Blue, Blk)	NCL24AN
Label 24 pole (Red, White, Blue, Black)	NCL244
Label 24 pole (Custom-field modifiable)	NCL24C
Label 18 pole (Red, White, Blue) 27 mm pitch	NCH183

Escutcheon critical cut-out dimensions



Connection kits ²⁾

Description	Cat. No.
S160, E/S250 frame MCCB direct connect to NC chassis	NCCK200
S160, E/S250 frame MCCB 108 mm tag connect to NC chassis	NCCK250
E/S400 frame MCCB tag connect to NC chassis	NCCK400
SLB400 loadbreak tag connect to NC chassis	NCCK4002

Connection kit brackets

Description	Cat. No.
S160, E/S250 MCCB support bracket- Concept Plus	CPBS250
S160, E/S250 MCCB support bracket- Concept Premier	CPPBS250
S160, E/S250 MCCB support bracket- Gear tray ¹⁾	NCS250GT
E/S400 MCCB support bracket- Concept Premier	CPPBS400
E/S400 MCCB support bracket- Gear tray ¹⁾	NCS400GT

Connection kit rating

250 A NC Chassis	Cable Fed ³⁾	250 A frame MCCB (spacer connection) Cat. No. NCCK200	250 A frame MCCB (108mm tag connection) Cat. No. NCCK250
Un-enclosed	250 A	250 A	250 A
Enclosed- Concept Plus	250 A	200 A	250 A
400 A NC Chassis	Cable Fed ⁴⁾	400 A frame MCCB (90 mm tag connection) Cat. No. NCCK400	400 A Socomec I/break (57 mm tag connection) Cat. No. NCCK4002
Un-enclosed	400 A	340 A	400 A
Enclosed- Concept Premier	400 A	300 A	400 A

- Notes:** ¹⁾ Gear tray brackets allow MCCB and Chassis to be mounted on same plain.
²⁾ Support brackets not included in connection kits.
³⁾ 120 mm² 1 metre (min).
⁴⁾ 240 mm² 1 metre (min).

Panelboards, loadcentres and accessories

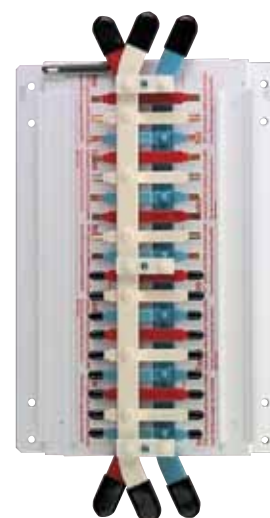
Concept busbar chassis assemblies for Din-T MCBs

2

- Standards AS/NZS 3439.1
- Current rating 250 A and 355 A
- Withstand rating 250 A/20 kA for 0.2 sec
- Withstand rating 355 A/25 kA for 0.3 sec
- Splayed busbar to suit 160 A and 250 A switch
- Top and bottom feed – splayed top & bottom
- Tee-offs stripped and 50 % capped
- Top power feed stripped and capped
- Full 35 mm DIN rail, improved MCB mounting security
- Improved insulation coating

CONCEPT Din-T – 250 & 355 A to suit Din-T MCBs (18 mm pole pitch) ²⁾

Pole capacity	250 A Cat. No. ¹⁾	355 A Cat. No. ¹⁾
12	CD-2-12/18-3U	<i>i</i> CD-3-12/18-3U
18	CD-2-18/18-3U	<i>i</i> CD-3-18/18-3U
24	CD-2-24/18-3U	CD-3-24/18-3U
30	CD-2-30/18-3U	<i>i</i> CD-3-30/18-3U
36	CD-2-36/18-3U	CD-3-36/18-3U
42	CD-2-42/18-3U	CD-3-42/18-3U
48	CD-2-48/18-3U	CD-3-48/18-3U
54	CD-2-54/18-3U	<i>i</i> CD-3-54/18-3U
60	CD-2-60/18-3U	CD-3-60/18-3U
72	CD-2-72/18-3U	CD-3-72/18-3U
78	CD-2-78/18-3U	<i>i</i> CD-3-78/18-3U
84	CD-2-84/18-3U	CD-3-84/18-3U
96	CD-2-96/18-3U	CD-3-96/18-3U



3 pole CD chassis to suit Din-T MCBs

CONCEPT Din-T – Hybrid suits Din-T and Din-T10H MCBs (27/18 mm pole pitch)

Pole capacity 27 mm	Pole capacity 18 mm	355 A Cat. No. ¹⁾
6	12	CDH-3-6/12-27/18-3U
6	24	CDH-3-6/24-27/18-3U
6	36	CDH-3-6/36-27/18-3U
12	30	CDH-3-12/30-27/18-3U
12	42	CDH-3-12/42-27/18-3U
12	60	CDH-3-12/60-27/18-3U



3 pole hybrid CD chassis to suit Din-T and Din-T10H MCBs

Accessories

Description	Cat. No.
Split tariff kit 250/355 A (supplied loose)	STKCD
Split tariff kit (fitted)	REFER NHP
Plastic tee-off cap 250 / 355 A	CD250TOPC

Notes: ¹⁾ 4 pole and other special configurations available to special order refer NHP.
²⁾ Not suitable for CONCEPT economy Panelboards. Contact NHP for availability.
 'OFF' (line) side of MCB connects to chassis tee-off.
 MCB DIN clips may be disengaged or removed when mounting onto "CD" chassis.
 If applicable use insulated tool provided to disengage DIN clip when removing MCB from chassis.
i Available on indent only.

Technical data

Dimensions

Page

2 - 61 to 2 - 62



Panelboards, loadcentres and accessories

CONCEPT•PLUS and CONCEPT•PREMIER busbar chassis assemblies for Safe-T MCBs

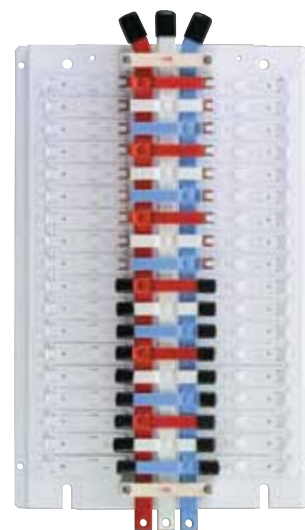
- Standard AS/NZS 3439.1
- Current rating 250 A and 355 A
- Withstand rating 250 A/20 kA for 0.2 sec
- Withstand rating 355 A/20 kA for 1 sec
- Splayed busbar to suit 160 A & 250 A switch
- Top and bottom feed – top splayed only
- Tee-offs stripped and 50 % capped
- Top power feed stripped and capped
- Improved insulation coating

CONCEPT•PLUS Safe-T – 250 & 355 A to suit Safe-T MCBs (25 mm pole pitch)

Pole capacity	250 A Cat. No. ¹⁾	355 A Cat. No. ¹⁾
12	CT-2-12/25-3	<i>i</i> CT-3-12/25-3
18	CT-2-18/25-3	<i>i</i> CT-3-18/25-3
24	CT-2-24/25-3	<i>i</i> CT-3-24/25-3
30	CT-2-30/25-3	<i>i</i> CT-3-30/25-3
36	CT-2-36/25-3	<i>i</i> CT-3-36/25-3
42	CT-2-42/25-3	<i>i</i> CT-3-42/25-3
48	CT-2-48/25-3	<i>i</i> CT-3-48/25-3
60	CT-2-60/25-3	<i>i</i> CT-3-60/25-3
72	CT-2-72/25-3	<i>i</i> CT-3-72/25-3
84	CT-2-84/25-3	<i>i</i> CT-3-84/25-3
96	CT-2-96/25-3	<i>i</i> CT-3-96/25-3

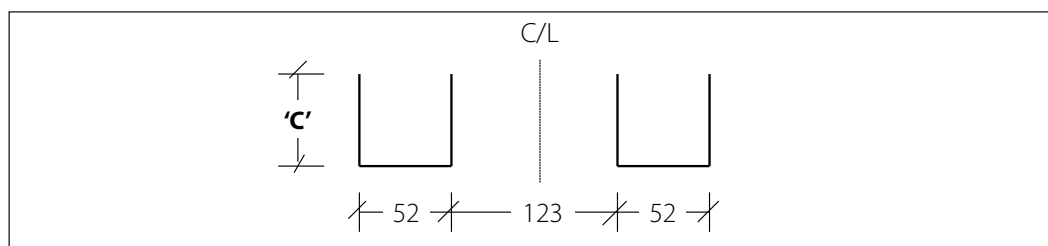
Accessories

Description	Cat. No.
Split tariff kit 250 A (supplied loose)	STK250NDTH
Split tariff kit 355 A (supplied fitted)	STK300TH
Split tariff kit (supplied and fitted) Refer NHP	
Plastic tee-off cap 250 / 355 A	TH250TOPC



3 pole CD chassis to suit Safe-T MCBs

Escutcheon critical cut-out dimensions - CT type



Catalogue Number construction – CD/CT busbar chassis

XX	X	XX	XX	X
Type	Current rating	No. of ways	Pole pitch (mm)	No. of phases
CD Din-T	2 250 A	12	18 Din-T	2 1 P + N (red, black)
CDH Din-T10H	3 355 A	18	27 Din-T10H	3 3 P (red, white, blue)
CT Safe-T	4 400 A	24	27/18 Hybrid Din-T10H/Din-T	3PN 3 P + N (red, white, blue, black)
NC Din-T		30	25 Safe-T	4 3 P + N (red, black, white, black, blue, black)
		36 etc.		
		27 mm/18 mm		
		6/24		
		12/60		



Notes: *i* Available on indent only

Technical data

Dimensions

Page

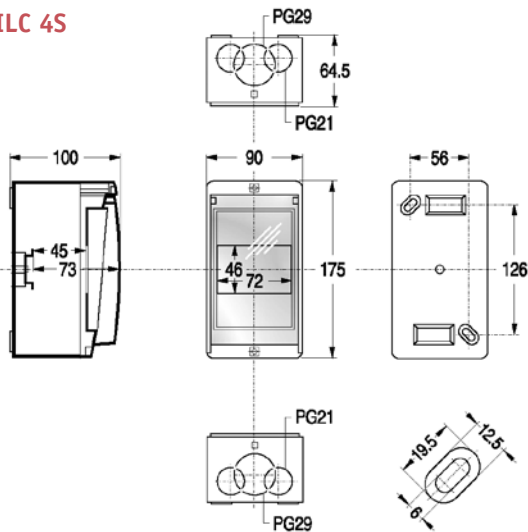
2 - 67

Panelboards, loadcentres and accessories

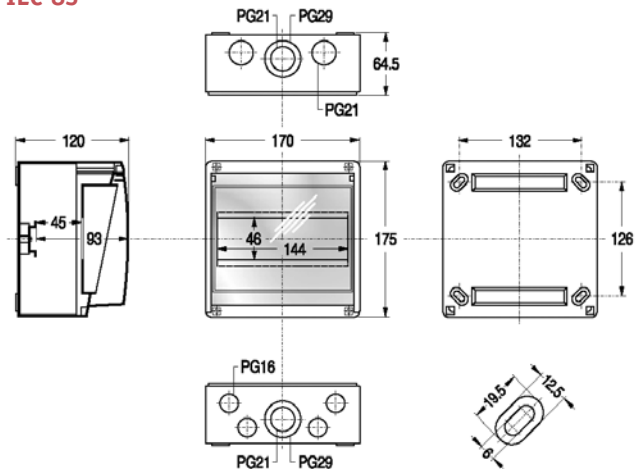
Dimensions (mm)

2

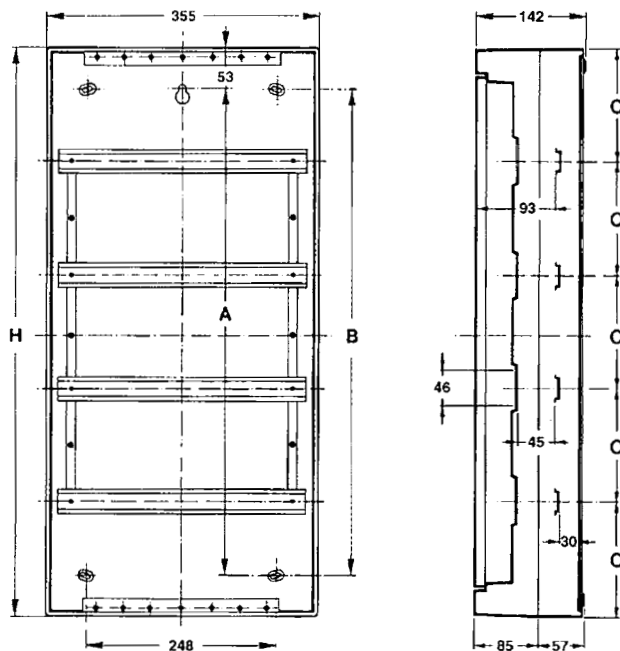
ILC 4S



ILC 8S



Din-Modula 150



Cat. No.	Rows	H	A	B	C
DM15036	2	450	343	342	150
DM15054	3	600	493	492	150
DM15072	4	750	643	642	150

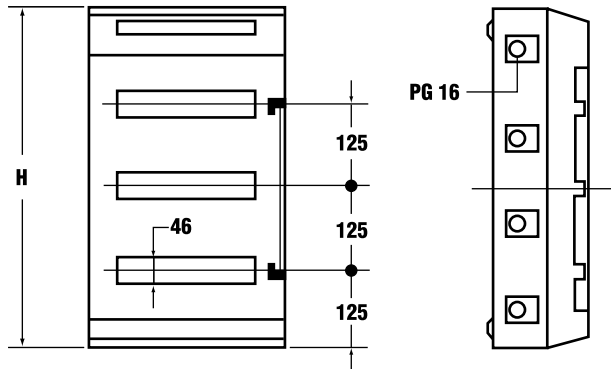
Add 45 mm to dimension H and width (355) when flush mounted.

Panelboards, loadcentres and accessories

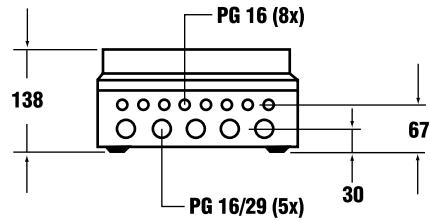
Dimensions (mm) (cont.)

2

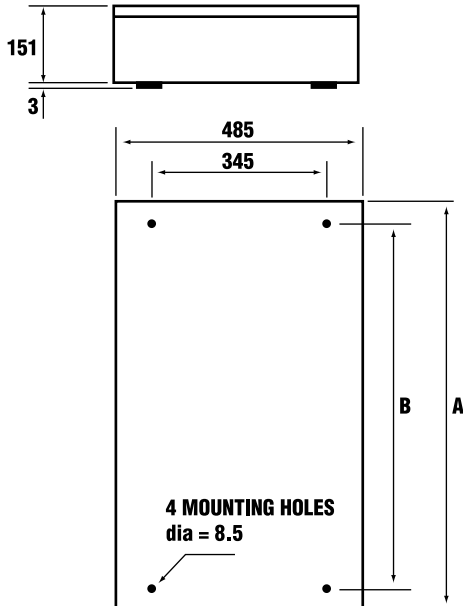
Din-Modula weatherproof



Cat. No.	Mod.	Rows	H	PG 16 (side)
DMWP12	12	1	250	2
DMWP24	24	2	375	3
DMWP36	36	3	500	4

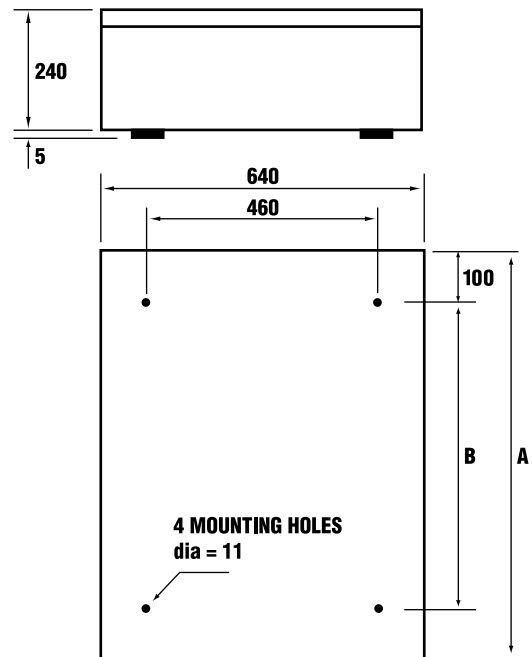


CONCEPT panelboards



Box size	A	B
1	700	614
2	800	714
3	900	814
4	1000	914

CONCEPT•PREMIER panelboards CPD, CPS, CPX



Box size	A	B
H	600	400
1	800	600
2	1000	800
3	1200	1000
4	1400	1200
5	1600	1400
6	1800	1600
7	2000	1800

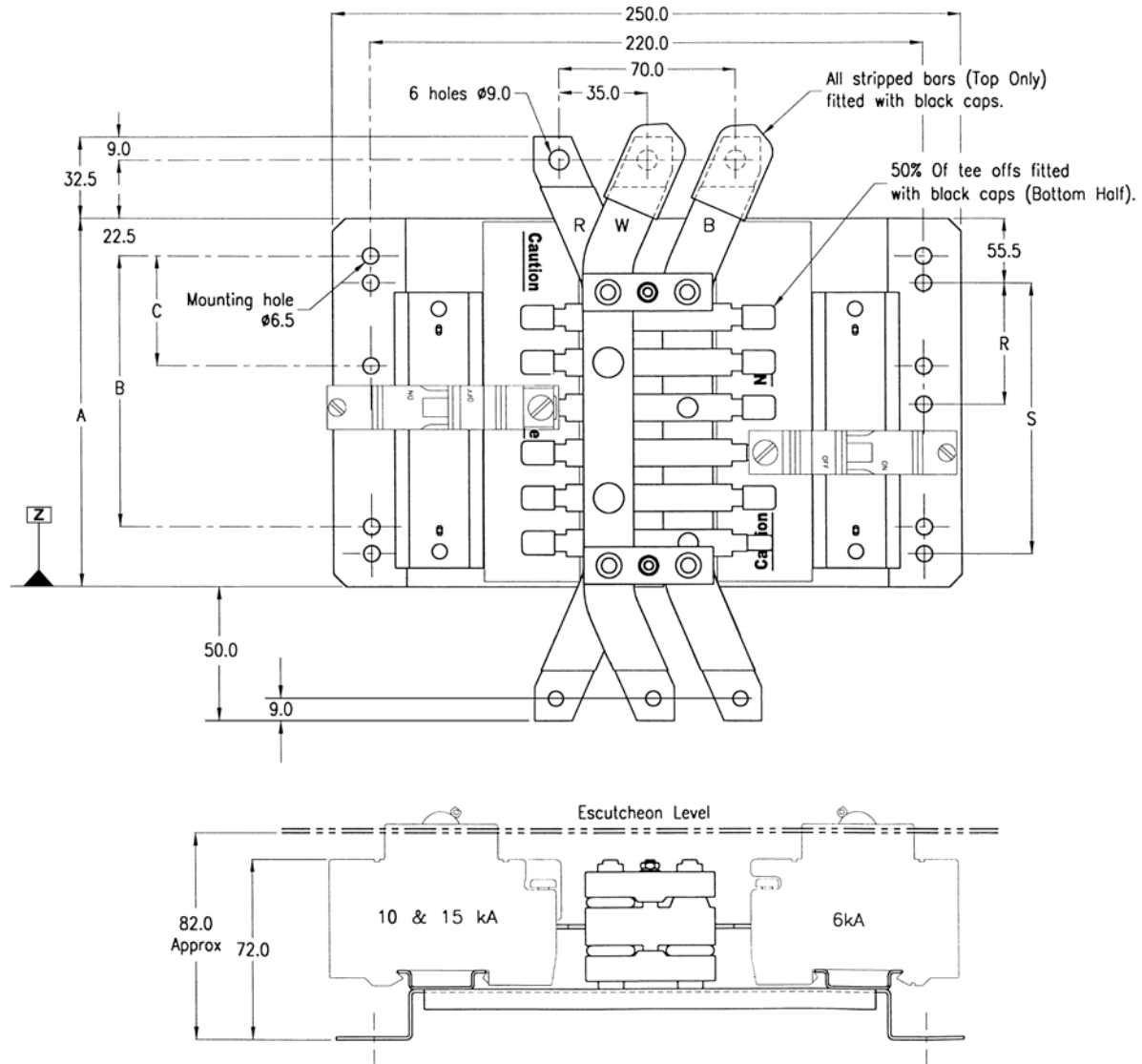
Notes: CONCEPT•PLUS dimensions refer page 2 - 26.

Panelboards, loadcentres and accessories

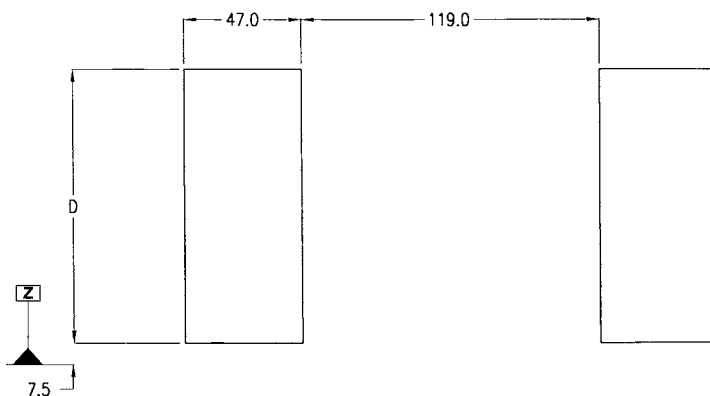
Dimensions (mm) (cont.)

2

CD chassis 250/355 A to suit Din-T6, 10 and 15



Escutcheon cut-out details

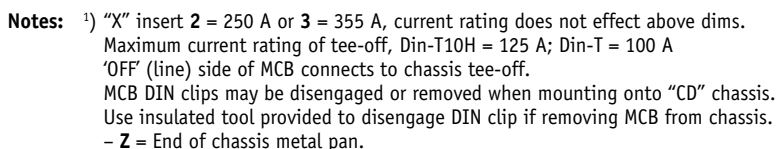


Dimensions (mm)

Chassis size ¹⁾	A	B	C	D	R	S
CD-X-12/18-3U	152	100	-	110	-	100
CD-X-18/18-3U	206	100	-	164	-	100
CD-X-24/18-3U	260	100	-	218	-	100
CD-X-30/18-3U	314	200	-	272	-	200
CD-X-36/18-3U	368	300	-	326	-	300
CD-X-42/18-3U	422	300	-	380	-	300
CD-X-48/18-3U	476	400	-	434	-	400
CD-X-54/18-3U	530	400	-	488	-	400
CD-X-60/18-3U	584	500	-	542	-	500
CD-X-72/18-3U	692	600	-	650	-	600
CD-X-78/18-3U	745	700	300	704	300	700
CD-X-84/18-3U	800	700	300	758	300	700
CD-X-96/18-3U	908	800	400	866	400	800

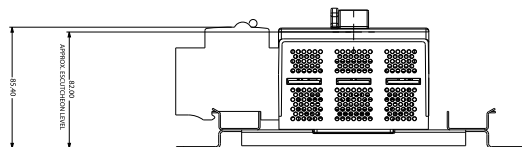
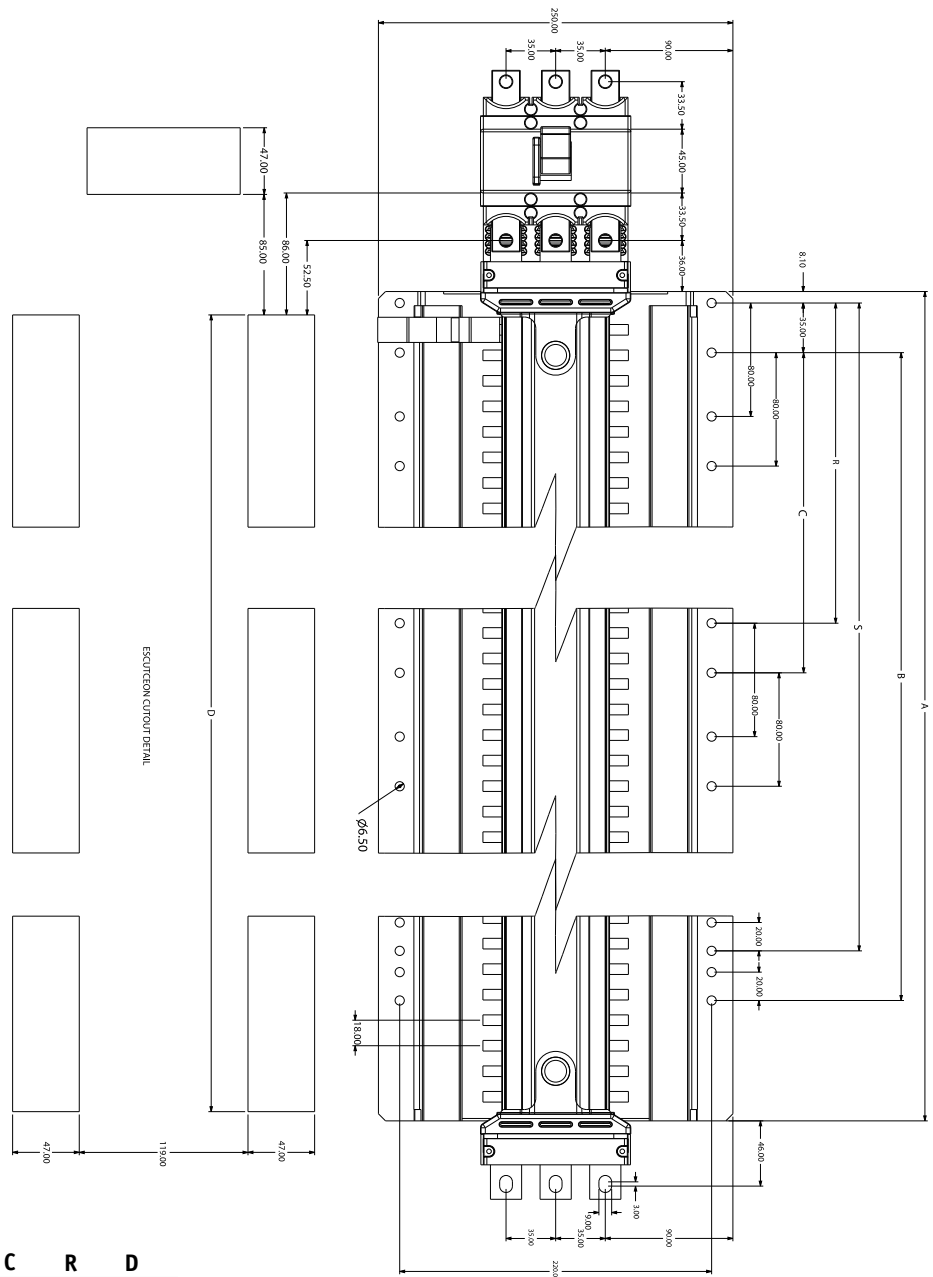
Notes: ¹⁾ "X" insert 2 = 250 A or 3 = 355 A, current rating does not effect above dims.
 Maximum current rating of tee-off = 100 A.
 'OFF' (line) side of MCB connects to chassis tee-off.
 MCB DIN clips may be disengaged or removed when mounting onto "CD" chassis.
 Use insulated tool provided to disengage DIN clip if removing MCB from chassis.
 - Z = End of chassis metal pan.

CDH hybrid chassis 250/355 A to suit Din-T10H & Din-T MCBs



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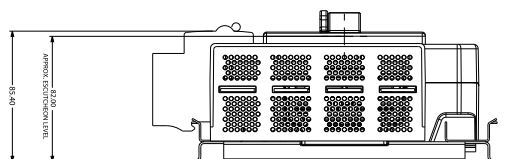
N chassis 250/400 A 3P to suit Din-T



Dimensions (mm)

Chassis size	A	S	B	C	R	D
NC2-12-1834	134	–	–	–	–	111
NC2-18-1834	188	100	100	–	–	165
NC2-24-1834	242	100	100	–	–	219
NC2-30-1834	296	200	200	–	–	273
NC2-36-1834	350	200	200	–	–	327
NC2-42-1834	404	300	300	–	–	381
NC2-48-1834	458	300	300	–	–	435
NC2-54-1834	512	400	400	–	–	489
NC2-60-1834	566	400	400	–	–	543
NC2-72-1834	674	600	600	300	300	651
NC2-78-1834	728	600	600	300	300	705
NC2-84-1834	782	700	700	300	300	759
NC2-96-1834	890	800	800	400	400	867

NC chassis 250/400 A 4P to suit ZPRCB0



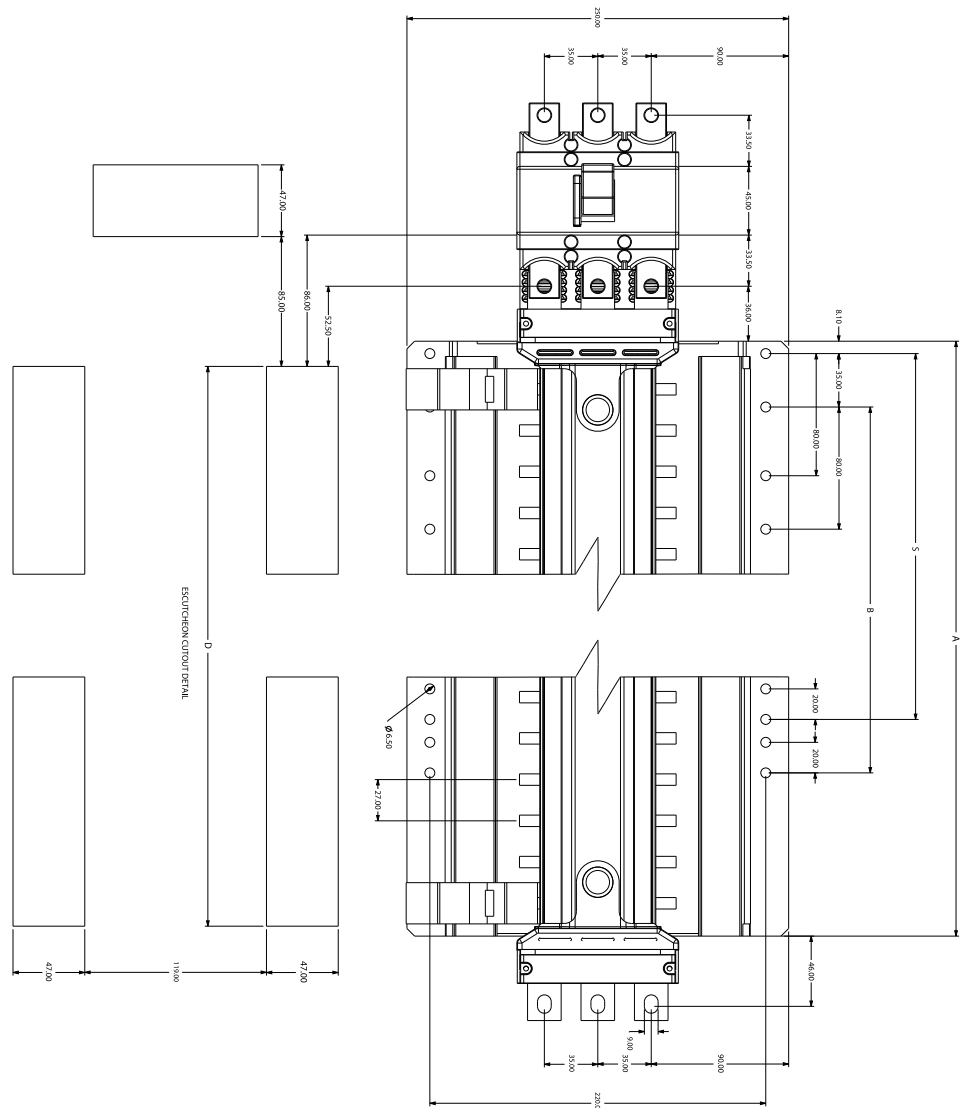
Chassis size	A	S	B	C	R	D
NC2-24-1844	242	100	100	-	-	219
NC2-30-1844	296	200	200	-	-	273
NC2-36-1844	350	200	200	-	-	327
NC2-42-1844	404	300	300	-	-	381
NC2-48-1844	458	300	300	-	-	435
NC2-54-1844	512	400	400	-	-	489
NC2-60-1844	566	400	400	-	-	543
NC2-72-1844	674	600	600	300	300	651

Panelboards, loadcentres and accessories

Dimensions (mm) (cont.)

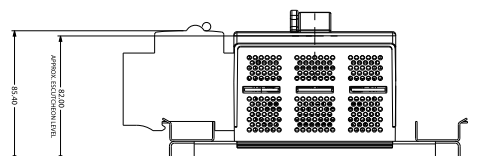
2

NC chassis 400 A to suit Din-T 10H



Dimensions (mm)

Chassis size	A	S	B	D
NCH4-6-273U	107	-	-	84
NCH4-12-273U	188	-	-	165
NCH4-18-273U	267	100	100	244
NCH4-24-273U	350	200	200	327

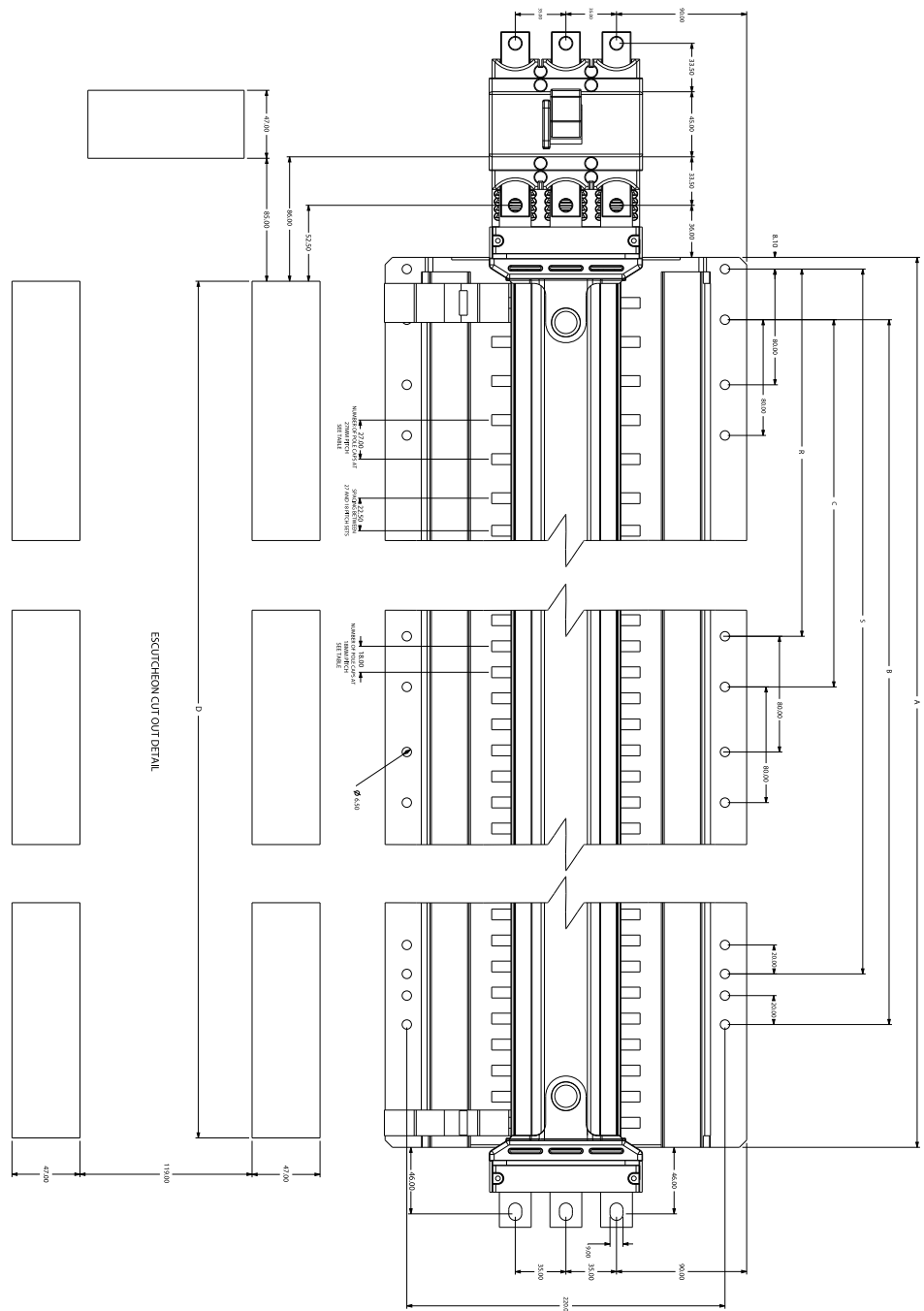


Panelboards, loadcentres and accessories

Dimensions (mm) (cont.)

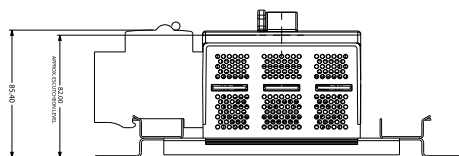
2

NC chassis 400 A Hybrid 3P to suit Din-T 10H & Din-T



Dimensions (mm)

Chassis size	A	S	B	C	R	D
NCH4-612-27/1834	215	-	-	-	-	192
NCH4-624-27/1834	323	200	200	-	-	300
NCH4-636-27/1834	431	300	300	-	-	408
NCH4-648-27/1834	539	400	400	-	-	516
NCH4-1230-27/1834	458	300	300	-	-	435
NCH4-1242-27/1834	566	400	400	-	-	543
NCH4-1260-27/1834	728	600	600	300	300	705

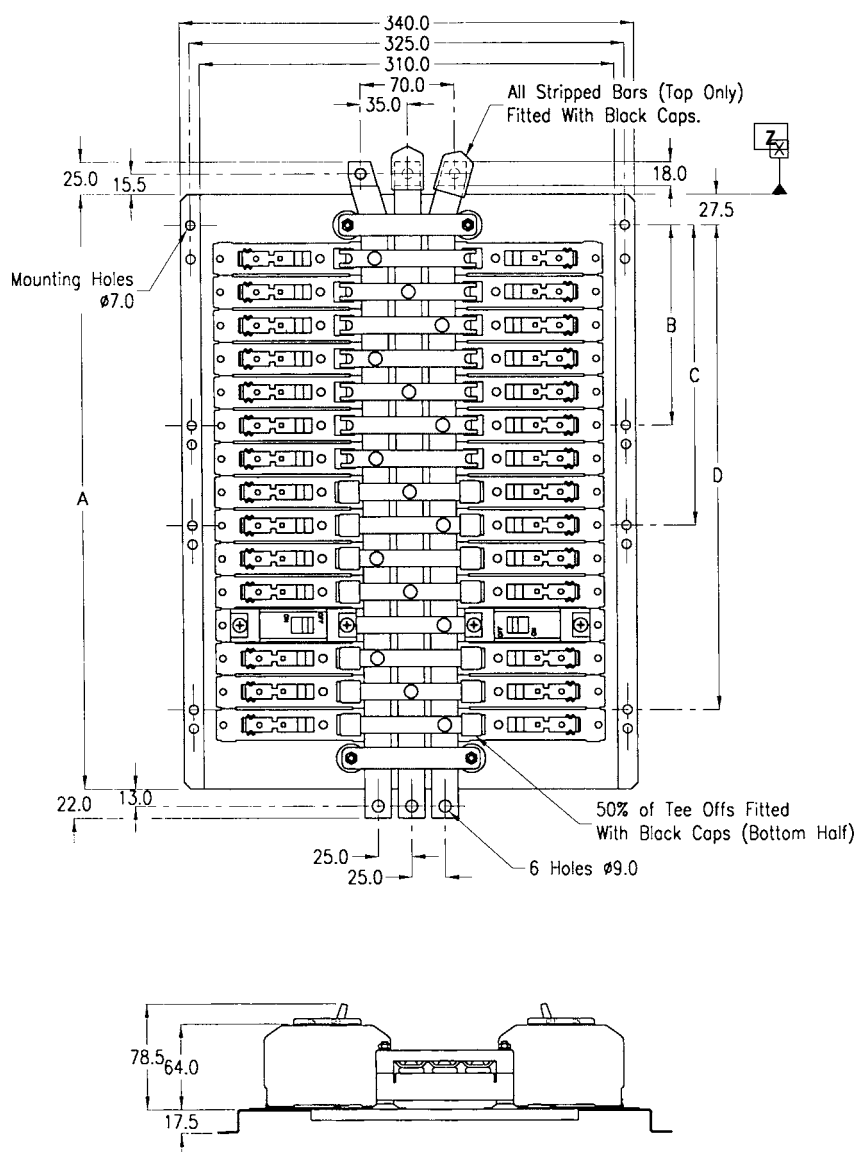


Panelboards, loadcentres and accessories

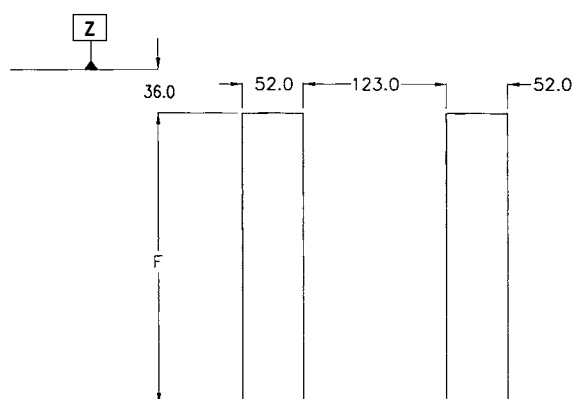
Dimensions (mm) (cont.)

2

CT chassis 250/355 A to suit Safe-T MCBs



Escutcheon cut-out details



Dimensions (mm)

Chassis size ¹⁾	A	B	C	D	F
CT-X-12/27-3	221	-	-	100	147
CT-X-18/27-3	296	-	-	200	222
CT-X-24/27-3	371	-	-	200	297
CT-X-30/27-3	446	-	-	400	372
CT-X-36/27-3	521	-	-	400	447
CT-X-42/27-3	596	-	-	500	522
CT-X-48/27-3	671	300	-	500	597
CT-X-60/27-3	821	400	-	700	747
CT-X-72/27-3	971	300	600	900	897
CT-X-84/27-3	1121	300	600	1000	1047
CT-X-96/27-3	1271	400	800	1100	1197

Notes: ¹⁾ "X" insert 2 = 250 A or 3 = 355 A, current rating does not effect above dimensions.
Maximum current rating of tee-off = 100 A.
- Z = End of chassis metal pan.

Panelboards, loadcentres and accessories

NC Chassis connection kits - NCCK 200

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Dimensions (mm)

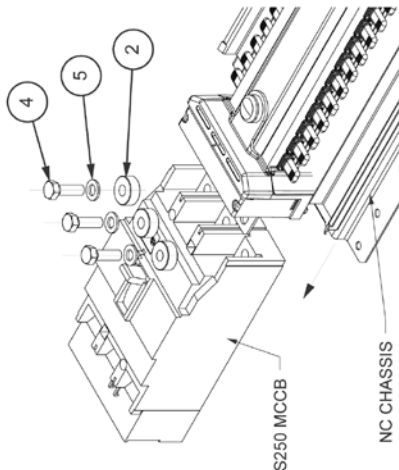


FIGURE 1

1. PLACE SPACERS (1) ON MCCB CONNECTIONS
2. SLIDE CHASSIS CONNECTION TAGS INTO MCCB AND OVER SPACERS
3. SECURE CHASSIS CONNECTIONS WITH M8x25mm FASTENER (4) & BELLEVILLE WASHER (5) - REFER TO MCCB DOCUMENTATION FOR TORQUE SETTINGS

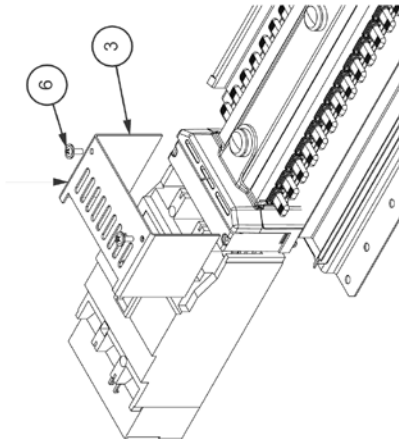


FIGURE 2

4. PLACE TERMINAL COVER (2) OVER CONNECTIONS AND ALIGN HOLES ON TERMINAL COVER WITH HOLES ON CHASSIS
5. SECURE TERMINAL COVER IN PLACE WITH TEK SCREWS (3)

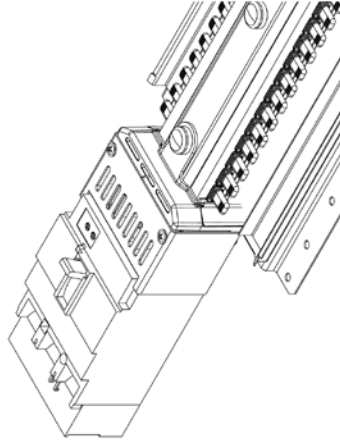


FIGURE 3

COMPLETED ASSEMBLY

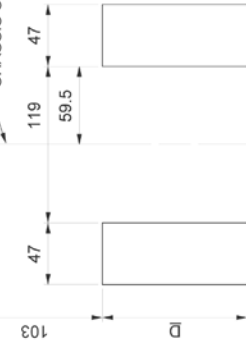
ESCUTCHEON CUT-OUT DETAIL

MCCB CENTRELINE

NC CHASSIS 250/400A

Chassis Size	Dim 'D'
NC-x-12/18-3x	110
NC-x-18/18-3x	164
NC-x-24/18-3x	218
NC-x-30/18-3x	272
NC-x-36/18-3x	326
NC-x-42/18-3x	380
NC-x-48/18-3x	434
NC-x-54/18-3x	488
NC-x-60/18-3x	542
NC-x-72/18-3x	650
NC-x-78/18-3x	704
NC-x-84/18-3x	758
NC-x-96/18-3x	866

CHASSIS CENTRELINE



NC CHASSIS 400A

Chassis Size	Dim 'D'
NCH-4-6/12-27/18-3x	191
NCH-4-6/24-27/18-3x	299
NCH-4-6/36-27/18-3x	407
NCH-4-12/30-27/18-3x	434
NCH-4-12/42-27/18-3x	542
NCH-4-12/60-27/18-3x	704

Item No.	Qty	Part Number	Description	Drawing Number
1	2	CPBCDCHASSIS	Concept CD Chassis Mounting Bracket	PD103490
2	3	NCCK200S	NCAP Chassis & S250 MCCB Direct Connect Spacer	MD-M003735-001
3	1	NCCK200C	NCAP Chassis & S250 MCCB 3P Direct Connect Terminal Cover	MD-M003736-001
4	3		Bolt : Hex GR8.8 - M8.0 x 25.0	
5	3		Washer M8 Belleville	
6	2	TEKSCREW8X12	Tek Screw Wafer Head 8-18x12mm	

REFERENCE DRAWINGS

- MD-L003773-001 CONCEPT PLUS ASSEMBLY
- MD-L003774-001 CONCEPT PREMIER ASSEMBLY
- MD-L003775-001 GEAR TRAY ASSEMBLY

Panelboards, loadcentres and accessories

NC Chassis connection kits - NCCK 250

2

Dimensions (mm)

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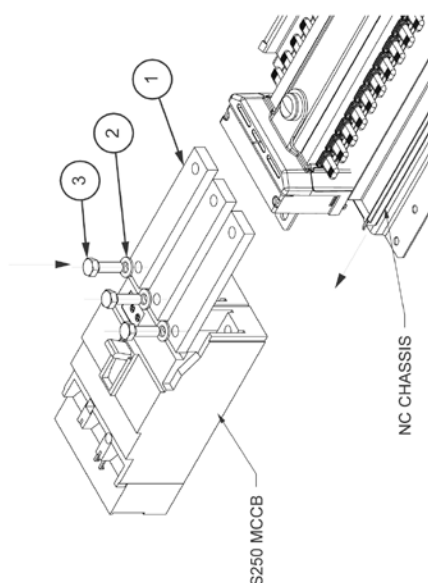


FIGURE 1

1. PLACE BUSBARS (1) ON MCCB CONNECTIONS
2. SECURE BUSBARS ON TO MCCB CONNECTIONS WITH M8x25 HEX FASTENER (3) AND BELLEVILLE WASHER (4). REFER TO MCCB DOCUMENTATION FOR TORQUE SETTINGS
3. PLACE CHASSIS OVER TOP OF CONNECTION BUSBARS

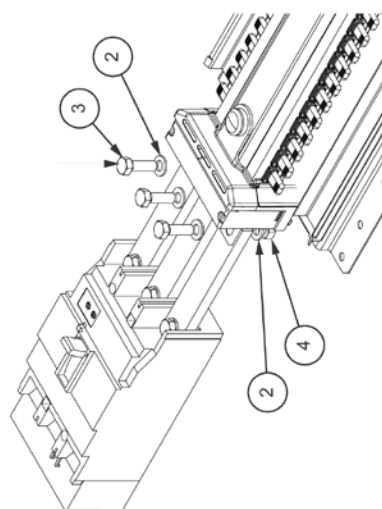


FIGURE 2

4. SECURE CHASSIS CONNECTIONS WITH M8x25mm FASTENER (3), BELLEVILLE WASHER (2) & NUT (4). FASTENER ASSEMBLY TORQUE: 44NM

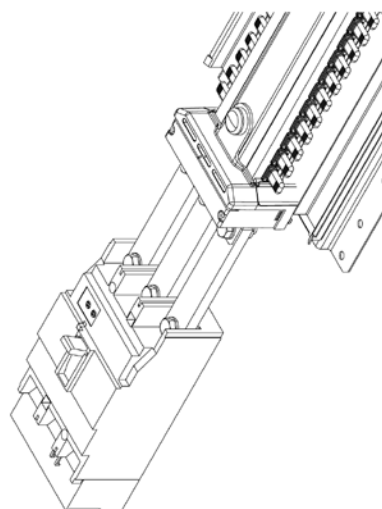
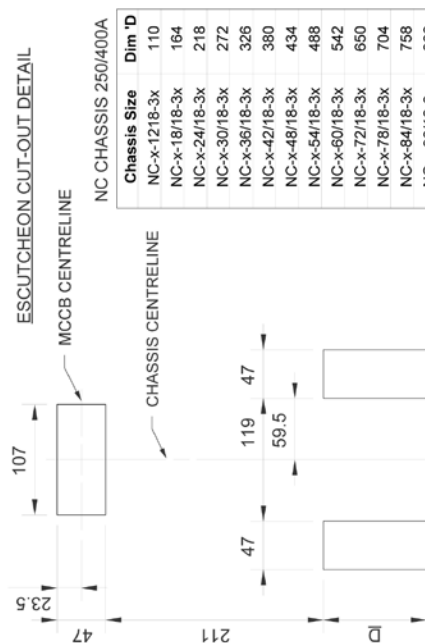


FIGURE 3

- COMPLETED ASSEMBLY
- SEE REFERENCE DRAWINGS FOR SPECIFIC ASSEMBLY INSTRUCTIONS OF REMAINING COMPONENTS



Item N	Part Number	Qty	Description	Drawing Number
1	NCCK250BB	3	250A Chassis & S250 MCCB 108mm Pitch Busbar	MD-M003737-001
2		9	Washer M8 Belleville	
3		6	Bolt : Hex Gr8.8 - M8.0 x 25.0	
4		3	Nut : Standard - M8.0	
5	NCCK250TC	1	NCAP Chassis & S250 MCCB 3P 108mm Pitch Direct Connect Top Cover	MD-M03738-001
6	NCCK250BC	1	NCAP Chassis & S250 MCCB 108mm Pitch Connection Bottom Cover	MD-M003739-001
7		2	Washer : Plain - M4.0	
8		2	Washer : Single Coil - M4.0	
9		2	Screw : Pan - M4.0 x 10.0	
10	TEKSCREW8X	2	Tek Screw Wafer Head 8-18x12mm	

REFERENCE DRAWINGS

- MD-L003776-001 CONCEPT PLUS ASSEMBLY
- MD-L003777-001 CONCEPT PREMIER ASSEMBLY
- MD-L003778-001 GEAR TRAY ASSEMBLY

Chassis Size	Dim 'D'
NCH-4-6/12-27/18-3x	191
NCH-4-6/24-27/18-3x	299
NCH-4-6/36-27/18-3x	407
NCH-4-12/30-27/18-3x	434
NCH-4-12/42-27/18-3x	542
NCH-4-12/60-27/18-3x	704

Chassis Size	Dim 'D'
NC-x-12/18-3x	110
NC-x-18/18-3x	164
NC-x-24/18-3x	218
NC-x-30/18-3x	272
NC-x-36/18-3x	326
NC-x-42/18-3x	380
NC-x-48/18-3x	434
NC-x-54/18-3x	488
NC-x-60/18-3x	542
NC-x-72/18-3x	650
NC-x-78/18-3x	704
NC-x-84/18-3x	758
NC-x-98/18-3x	866

Panelboards, loadcentres and accessories

NC Chassis connection kits - NCCK 400

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Dimensions (mm)

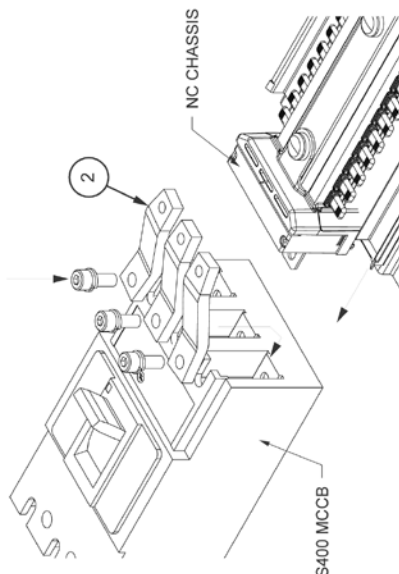


FIGURE 1

1. PLACE BUSBARS (2) ON MCCB CONNECTIONS

2. SECURE BUSBARS ON TO MCCB CONNECTIONS WITH M10x25 SOCKET SCREW (SUPPLIED WITH MCCB) REFER TO MCCB DOCUMENTATION FOR TORQUE SETTINGS

3. PLACE CHASSIS OVER TOP OF CONNECTION BUSBARS

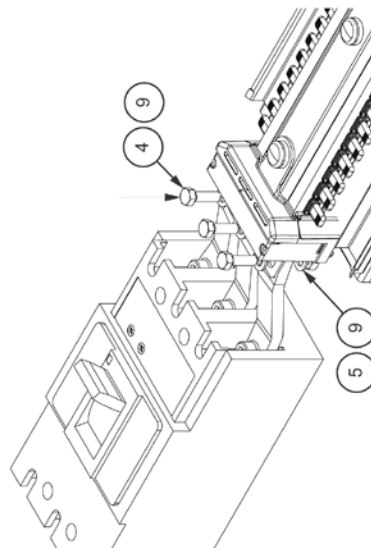


FIGURE 2

4. SECURE CHASSIS CONNECTIONS WITH M8x25mm FASTENER (4), BELLEVILLE WASHER (5) & NUT (6), FASTENER ASSEMBLY TORQUE: 44NM

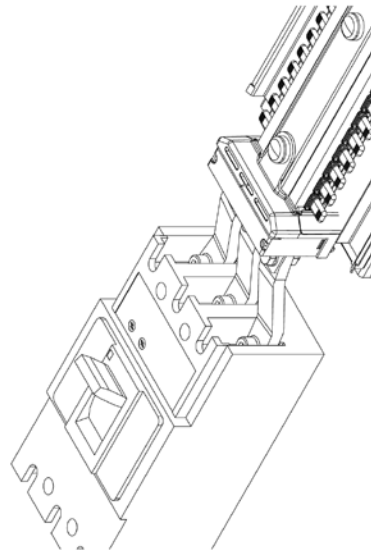
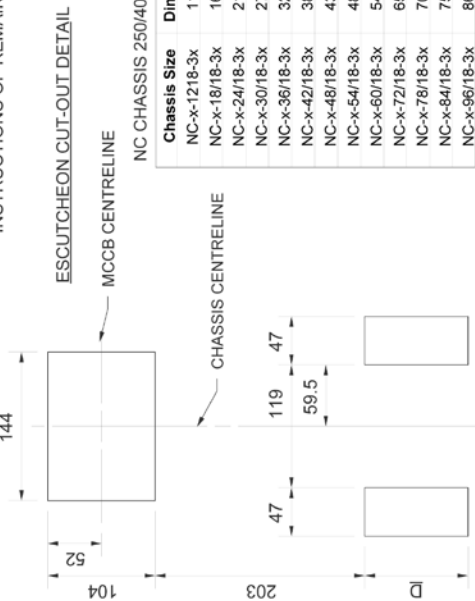


FIGURE 3

COMPLETED ASSEMBLY

SEE REFERENCE DRAWINGS FOR SPECIFIC ASSEMBLY INSTRUCTIONS OF REMAINING COMPONENTS



Item N	Part Number	Qty	Description	Drawing Number
1	NCCK400C	1	NCAP Chassis & S400 MCCB 90mm Pitch Connection Cover	MD-M003669-001
2	NCCK400BB	3	NCAP Chassis & S400 MCCB 90mm Pitch Busbar	MD-M003668-001
3	TEKSCREW8X	2	Tek Screw Wafer Head 8-18x12mm	
4		3	Bolt : Hex Gr8.8 - M8.0 x 25.0	
5		3	Nut : Standard - M8.0	
6		2	Screw : Pan - M4.0 x 10.0	
7		2	Washer : Plain - M4.0	
8	HCS4003FTI	1	S400/630 Wide Nomex MCCB Insulation	MD-M002353-001
9		6	Washer M8 Belleville	

REFERENCE DRAWINGS

MD-L003783-001 CONCEPT PREMIER ASSEMBLY
MD-L003784-001 GEAR TRAY ASSEMBLY

Chassis Size	Dim 'D'
NCCH-4-6/12-27/18-3x	191
NCCH-4-6/24-27/18-3x	299
NCCH-4-6/36-27/18-3x	407
NCCH-4-12/30-27/18-3x	434
NCCH-4-12/42-27/18-3x	542
NCCH-4-12/60-27/18-3x	704

Chassis Size	Dim 'D'
NC-x-12/18-3x	110
NC-x-18/18-3x	164
NC-x-24/18-3x	218
NC-x-30/18-3x	272
NC-x-36/18-3x	326
NC-x-42/18-3x	380
NC-x-48/18-3x	434
NC-x-54/18-3x	488
NC-x-60/18-3x	542
NC-x-72/18-3x	650
NC-x-78/18-3x	704
NC-x-84/18-3x	758
NC-x-96/18-3x	866

Panelboards, loadcentres and accessories

NC Chassis connection kits - NCK 4002

2

Dimensions (mm)

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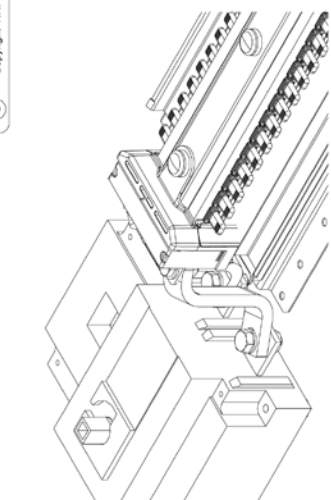


FIGURE 1

1. PLACE BUSBARS (2) ON LOAD BREAK SWITCH CONNECTIONS
2. SECURE BUSBARS ON TO LOAD BREAK SWITCH CONNECTIONS WITH M10x30 FASTENER (4) (9) (12) & (13) TORQUE SETTING: 44Nm

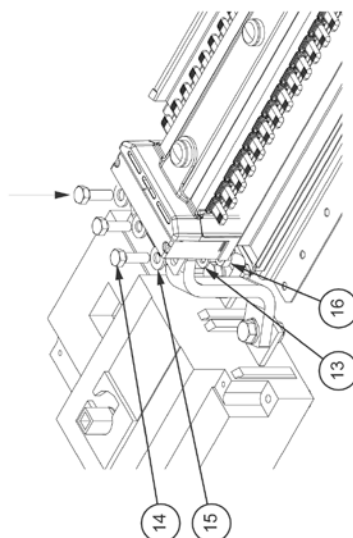


FIGURE 2

4. SECURE CHASSIS CONNECTIONS WITH M8x25mm FASTENER (13) (14) (15) & (16)
FASTENER ASSEMBLY TORQUE: 22NM

FIGURE 3

- COMPLETED ASSEMBLY
SEE REFERENCE DRAWINGS FOR SPECIFIC ASSEMBLY INSTRUCTIONS OF REMAINING COMPONENTS

3. PLACE CHASSIS OVER TOP OF CONNECTION BUSBARS

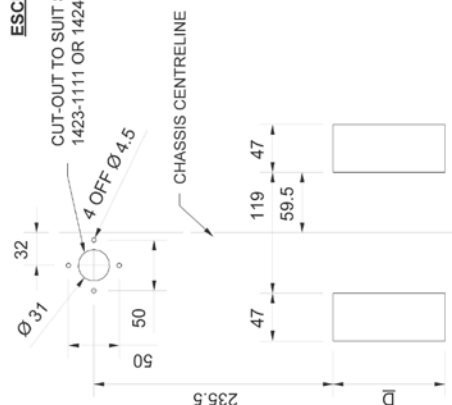
Item N	Part Number	Qty	Description	Drawing Number
1	NCK4002BC	1	SLB4003P & NC4003P Connection Bottom Cover	MD-M003732-001
2	NCK4002BB	3	NCAP Chassis & SLB400 3P Connection Busbar	MD-M003729-001
3	300.00080	2	Tek Screw Washer Head 8-18x12mm	
4	302.00004	2	Washer - Plain - M4.0	
5	302.36555	2	Washer - Single Coil - M4.0	
6	300.00070	2	Screw - Pan - M4.0 x 10.0	
7	300.00074	2	Screw - Taprite - M5.0 x 12.0	
8		3	Bolt - Hex Gr6.8 - M10.0 x 30.0	
9	NCK4002TC	1	SLB4003P & NC4003P Connection Top Cover	MD-M003730-001
10	302.00008	3	Washer - Plain - M10.0	
11	302.00028	3	Washer M10 Belleville	
12	M10HEXNUT	3	Nut - Standard - M10.0	
13	302.00030	3	Washer M8 Belleville	
14	300.00005	3	Bolt - Hex Gr6.8 - M8.0 x 25.0	
15	WASHERM8FL	3	Washer - Plain - M8.0	
16	NUTM8HEX2P	3	Nut - Standard - M8.0	

REFERENCE DRAWINGS

MD-L003791-001 CONCEPT PREMIER & GEAR TRAY ASSEMBLY

ESCUTCHEON CUT-OUT DETAIL

CUT-OUT TO SUIT SLB400 S2 HANDLE -
1423-1111 OR 1424-1111



NC CHASSIS 250/400A

Chassis Size	Dim 'D'
NC-x-12/18-3x	110
NC-x-18/18-3x	164
NC-x-24/18-3x	218
NC-x-30/18-3x	272
NC-x-36/18-3x	326
NC-x-42/18-3x	380
NC-x-48/18-3x	434
NC-x-54/18-3x	488
NC-x-60/18-3x	542
NC-x-72/18-3x	650
NC-x-78/18-3x	704
NC-x-84/18-3x	758
NC-x-96/18-3x	866

NCH CHASSIS 400A

Chassis Size	Dim 'D'
NCH-4-6/12-27/18-3x	191
NCH-4-6/24-27/18-3x	299
NCH-4-6/36-27/18-3x	407
NCH-4-12/30-27/18-3x	434
NCH-4-12/42-27/18-3x	542
NCH-4-12/60-27/18-3x	704



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- Commitment to Performance
- Consistency
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