



NHP



MOD6



The complete range of consumer
switchboards and switchgear

www.nhp.com.au/mod6

MOD6

EXTENSIVE NHP BACKUP AND SUPPORT ✓



FLEXIBLE RANGE ✓

SINGLE MODE RCBO OPTION ✓

FAULT RATING OF 6 kA ✓



SURFACE OR FLUSH MOUNT ✓

MOST COMMON SIZES ✓

WHITE OR TRANSPARENT DOORS ✓

The MOD6 range of consumer switchboards and switchgear is specifically designed for domestic and commercial installations.

NHP have released a flexible range to cater for the ever changing demands in switchboard design. MOD6 has a standard fault rating of 6 kA for the miniature circuit breakers in single, double and triple pole configurations. Safety switches are available in various models with the option of a single module RCBO that fits inside a consumer switchboard.

The consumer switchboards are available in the most common sizings including a single row 18 module board. These boards are offered as flush or surface mount with a choice of a white or transparent door.

MOD6 is now part of the extensive NHP product range backed by NHP's technical support and excellence in providing quality products for the electrical market.

CONTENTS

MCBs single pole	03	Enclosures (switchboards) ..	05
MCBs two pole	03	Switchgear dimensions.....	06
MCBs three pole	03	Enclosure dimensions.....	07
RCBOs (combined MCB - RCD).....	04	TECHNICAL DATA	
RCCB (RCD only).....	04	(MCBs).....	08-09
Main switches.....	04	Technical data (RCDs) ...	10-11

MCBs

6 kA 1 POLE MINIATURE CIRCUIT BREAKERS

CAT. No.	DESCRIPTION	MOD WIDTH
MOD6 1 06	MCB 6 kA 1 P 6 A C CURVE MOD6	1
MOD6 1 10	MCB 6 kA 1 P 10 A C CURVE MOD6	1
MOD6 1 16	MCB 6 kA 1 P 16 A C CURVE MOD6	1
MOD6 1 20	MCB 6 kA 1 P 20 A C CURVE MOD6	1
MOD6 1 25	MCB 6 kA 1 P 25 A C CURVE MOD6	1
MOD6 1 32	MCB 6 kA 1 P 32 A C CURVE MOD6	1
MOD6 1 40	MCB 6 kA 1 P 40 A C CURVE MOD6	1
MOD6 1 50	MCB 6 kA 1 P 50 A C CURVE MOD6	1
MOD6 1 63	MCB 6 kA 1 P 63 A C CURVE MOD6	1



MOD6 1

6 kA 2 POLE MINIATURE CIRCUIT BREAKERS

CAT. No.	DESCRIPTION	MOD WIDTH
MOD6 2 06	MCB 6 kA 2 P 6 A C CURVE MOD6	2
MOD6 2 10	MCB 6 kA 2 P 10 A C CURVE MOD6	2
MOD6 2 16	MCB 6 kA 2 P 16 A C CURVE MOD6	2
MOD6 2 20	MCB 6 kA 2 P 20 A C CURVE MOD6	2
MOD6 2 25	MCB 6 kA 2 P 25 A C CURVE MOD6	2
MOD6 2 32	MCB 6 kA 2 P 32 A C CURVE MOD6	2
MOD6 2 40	MCB 6 kA 2 P 40 A C CURVE MOD6	2
MOD6 2 50	MCB 6 kA 2 P 50 A C CURVE MOD6	2
MOD6 2 63	MCB 6 kA 2 P 63 A C CURVE MOD6	2



MOD6 2

6 kA 3 POLE MINIATURE CIRCUIT BREAKERS

CAT. No.	DESCRIPTION	MOD WIDTH
MOD6 3 06	MCB 6 kA 3 P 6 A C CURVE MOD6	3
MOD6 3 10	MCB 6 kA 3 P 10 A C CURVE MOD6	3
MOD6 3 16	MCB 6 kA 3 P 16 A C CURVE MOD6	3
MOD6 3 20	MCB 6 kA 3 P 20 A C CURVE MOD6	3
MOD6 3 25	MCB 6 kA 3 P 25 A C CURVE MOD6	3
MOD6 3 32	MCB 6 kA 3 P 32 A C CURVE MOD6	3
MOD6 3 40	MCB 6 kA 3 P 40 A C CURVE MOD6	3
MOD6 3 50	MCB 6 kA 3 P 50 A C CURVE MOD6	3
MOD6 3 63	MCB 6 kA 3 P 63 A C CURVE MOD6	3



MOD6 3

RCDs & MAIN SWITCHES

6 kA RCBOs (SAFETY SWITCH + MCB) 2 POLE

CAT. No.	DESCRIPTION	MOD WIDTH
MOD6 RCBO 2 1030	RCBO 6 kA 2 P 10 A 30 mA MOD6	2
MOD6 RCBO 2 1630	RCBO 6 kA 2 P 16 A 30 mA MOD6	2
MOD6 RCBO 2 2030	RCBO 6 kA 2 P 20 A 30 mA MOD6	2
MOD6 RCBO 2 2530	RCBO 6 kA 2 P 25 A 30 mA MOD6	2
MOD6 RCBO 2 3230	RCBO 6 kA 2 P 32 A 30 mA MOD6	2

6 kA RCBOs (SAFETY SWITCH + MCB) 1 POLE

CAT. No.	DESCRIPTION	MOD WIDTH
MOD6 RCBO 1 10 30	RCBO 6 kA 1 P 10 A 30 mA MOD6	1
MOD6 RCBO 1 16 30	RCBO 6 kA 1 P 16 A 30 mA MOD6	1
MOD6 RCBO 1 20 30	RCBO 6 kA 1 P 20 A 30 mA MOD6	1
MOD6 RCBO 1 25 30	RCBO 6 kA 1 P 25 A 30 mA MOD6	1
MOD6 RCBO 1 32 30	RCBO 6 kA 1 P 32 A 30 mA MOD6	1

RCCBs (SAFETY SWITCHES)

CAT. No.	DESCRIPTION	MOD WIDTH
MOD6 RCCB 2 4030	RCCB 6 kA 2 P 40 A 30 mA MOD6	2
MOD6 RCCB 2 6330	RCCB 6 kA 2 P 63 A 30 mA MOD6	2
MOD6 RCCB 4 4030	RCCB 6 kA 4 P 40 A 30 mA MOD6	4
MOD6 RCCB 4 6330	RCCB 6 kA 4 P 63 A 30 mA MOD6	4

MAIN SWITCHES (ISOLATORS)

CAT. No.	DESCRIPTION	MOD WIDTH
MOD6 MS 1 80	MAIN SWITCH 1 P 80 A MOD6	1
MOD6 MS 1 100	MAIN SWITCH 1 P 100 A MOD6	1
MOD6 MS 3 100	MAIN SWITCH 3 P 100 A MOD6	3

ACCESSORIES

CAT. No.	DESCRIPTION
IBC112P	12 WAY SINGLE PHASE PIN BUSBAR
IBC118P	18 WAY SINGLE PHASE PIN BUSBAR
DTPF	POLE FILLER - 4 MODULES



MOD6 RCBO 2



MOD6 RCBO 1



MOD6 RCCB 4



MOD6 MS 1

ENCLOSURES (SWITCHBOARDS) IP 40

12 WAY

CAT. No.	DESCRIPTION
CSB-12-ST	12 WAY SURFACE TRANSPARENT DOOR
CSB-12-SW	12 WAY SURFACE WHITE DOOR
CSB-12-FT	12 WAY FLUSH TRANSPARENT DOOR
CSB-12-FW	12 WAY FLUSH WHITE DOOR

18 WAY

CAT. No.	DESCRIPTION
CSB-18-ST	18 WAY SURFACE TRANSPARENT DOOR
CSB-18-SW	18 WAY SURFACE WHITE DOOR
CSB-18-FT	18 WAY FLUSH TRANSPARENT DOOR
CSB-18-FW	18 WAY FLUSH WHITE DOOR

24 WAY

CAT. No.	DESCRIPTION
CSB-24-ST	24 WAY SURFACE TRANSPARENT DOOR
CSB-24-SW	24 WAY SURFACE WHITE DOOR
CSB-24-FT	24 WAY FLUSH TRANSPARENT DOOR
CSB-24-FW	24 WAY FLUSH WHITE DOOR

36 WAY

CAT. No.	DESCRIPTION
CSB-36-ST	36 WAY SURFACE TRANSPARENT DOOR
CSB-36-SW	36 WAY SURFACE WHITE DOOR
CSB-36-FT	36 WAY FLUSH TRANSPARENT DOOR
CSB-36-FW	36 WAY FLUSH WHITE DOOR



CSB-12-SW



CSB-18-SW



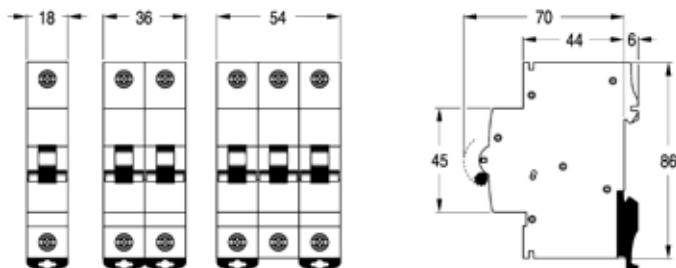
CSB-24-SW



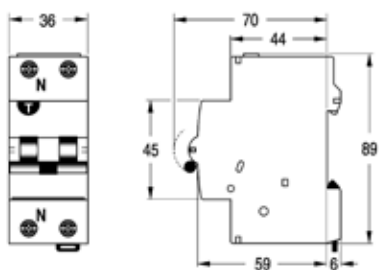
CSB-36-SW

SWITCHGEAR DIMENSIONS (mm)

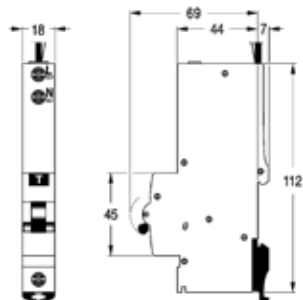
MINIATURE CIRCUIT BREAKERS



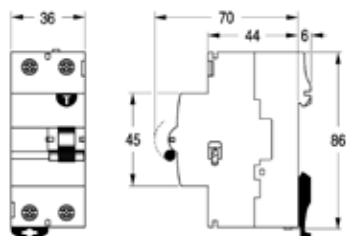
2 POLE RCBOs



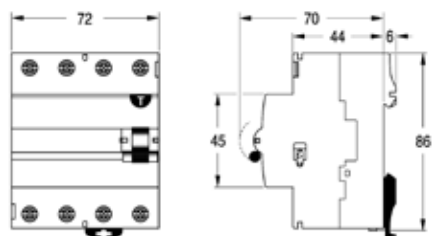
1 POLE RCBOs



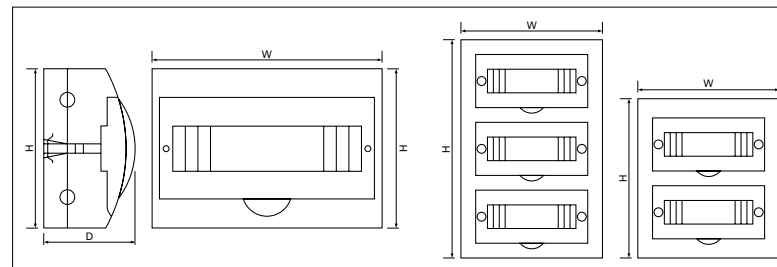
RCCBs 2 MODULE



RCCBs 4 MODULE



ENCLOSURE DIMENSIONS (mm)



12 WAY

ENCLOSURE TYPE	WIDTH (W)	HEIGHT (H)	DEPTH (D)
12 WAY SURFACE	256	200	97
12 WAY FLUSH - BASE	256	210	76
- COVER	304	246	29

18 WAY

ENCLOSURE TYPE	WIDTH (W)	HEIGHT (H)	DEPTH (D)
18 WAY SURFACE	363	220	97
18 WAY FLUSH - BASE	363	215	76
- COVER	412	267	29

24 WAY

ENCLOSURE TYPE	WIDTH (W)	HEIGHT (H)	DEPTH (D)
24 WAY SURFACE	269	326	97
24 WAY FLUSH - BASE	258	310	76
- COVER	305	358	29

36 WAY

ENCLOSURE TYPE	WIDTH (W)	HEIGHT (H)	DEPTH (D)
36 WAY SURFACE	306	473	102
36 WAY FLUSH - BASE	293	455	76
- COVER	342	503	29

TECHNICAL DATA (MCBs)



1 P, 2 P & 3 P MCBs

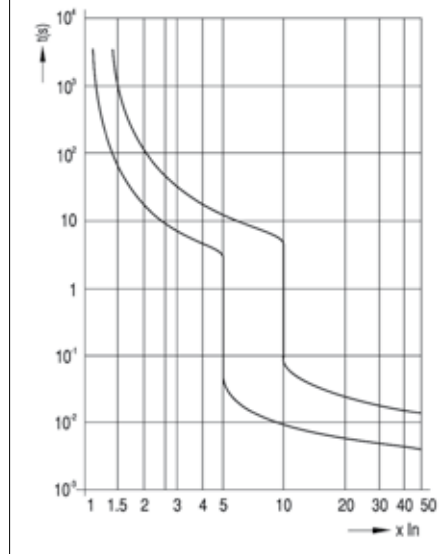
Approval no.	N17481	
Standards (Australia / New Zealand / International)	IEC 60898	
Tripping characteristics	C	
Nominal current	0 - 63 A	
Calibration temperature	30 °C	
Number of poles	1 / 2 / 3	
Nominal voltage	AC 1 P	240 V
	AC 2 P / 3 P	415 V
	DC 1 P	48 V DC
	DC 2 P (poles in series)	110 V DC
Frequency	50/60 Hz	
Max voltage between two wires	250/440 V	
Min service voltage	12 V	
Dielectric class	3	
Isolation application (IEC 60947-2)	yes	
Rated insulation voltage	pollution degree 2	500 V
	pollution degree 3	400 V
Impulse withstand test voltage	6 kV	
Insulation resistance	10,000 mOhm	
Dielectric rigidity	2.5 kV	
Vibration resistance	3 g	
Endurance	electrical	10,000
	mechanical	20,000
Utilisation category	A	
Protection degree	outside enclosure	IP 20
	inside enclosure	IP 40
Self extinguishing degree (UL94)	V 2	
Tropicalisation (IEC 60068-2)	-55 / 95 % RH	
Operating temperature	-22 / +55 °C	
Storage temperature	-55 / +55 °C	
Temperature derating	Refer NHP	
Terminal capacity (top and bottom) min / max	1 / 25 mm	
Terminal torque	4.5 Nm	
Busbar systems	Fork or Pin	
Accessories	No	
Dimensions	76 (H) 86 (L) 18 (W)	
Weight	120 g per pole	

SHORT CIRCUIT CAPACITY AC IN KA

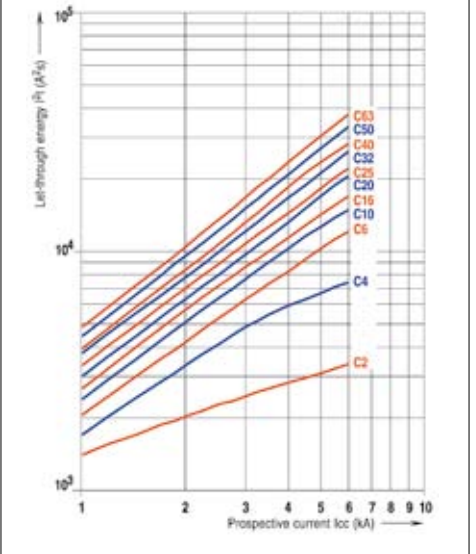
Icn	1 P	6
	2 P	6
	3 P	6
Ics (service)	100 % Icn	

CURVES

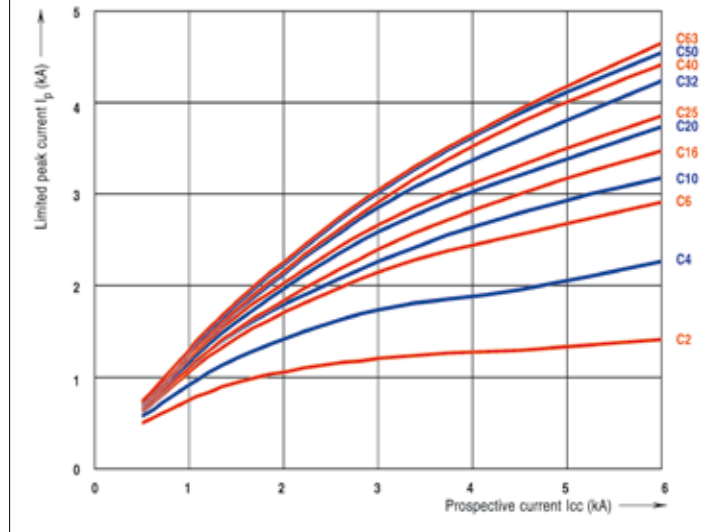
TRIPPING CURVE



I²t LET THROUGH ENERGY



Id LIMITED PEAK CURRENT



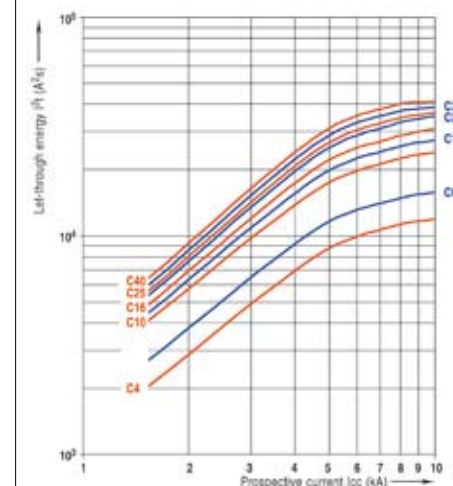
TECHNICAL DATA (RCDs)



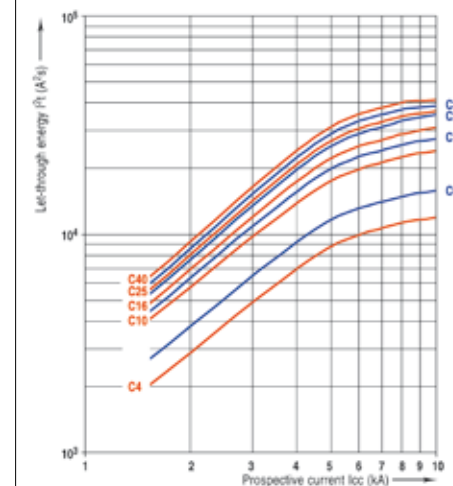
	RCCBs	2 POLE RCBOs	1 POLE RCBOs
Approval no.	N17482	N17482	N21915
Standards	IEC 61008 - 1	IEC 6009 - 1	IEC 6009 - 1
Magnetic tripping characteristics	-	C	C
Residual tripping characteristics	-	AC	AC/A
Tripping time at rated current	-	300	300
Rated current	40 - 63	10 - 32	10 - 32
Rated residual current	30 mA	30 mA	30 mA
Calibration temperature	30 °C	30 °C	30 °C
Rated voltage	2 P 4 P	240 V 415 V	240 V (1 P) -
Frequency	50 / 60	50 / 60	50 / 60
Maximum service voltage	2 P=265, 4 P=455	255	255
Minimum service voltage	2 P=110, 4 P=190	100	100
Power supply	Top / Bottom	Top / Bottom	Bottom
Selectivity class		3	3
Residual making and breaking capacity	500 A	7500 A	7500 A
Short circuit capacity	-	6 kA	6 kA
Isolation application (IEC 60947-2)	Yes	Yes	Yes
Insulation resistance	1,000	1,000	1,000
Insulation voltage	500	500	500
Dielectric rigidity	2,500	2,500	2,500
Vibration resistance	1.5 g	1.5 g	1.5 g
Endurance	electrical mechanical	10,000 20,000	10,000 20,000
Protection degree	outside inside enclosure	IP 20 IP 40	IP 20 IP 40
Self extinguishing degree (UL 94)	V 2	V 2	V 2
Tropicalisation (IEC 60068-2)	+55 °C / 95 % RH	+55 °C / 95 % RH	+55 °C / 95 % RH
Operating temperature	-5 / +55 °C	-25 / +55 °C	-5 / +55 °C
Storage temperature	-25 / +70 °C	-5 / +70 °C	-25 / +70 °C
Terminal capacity (top & bottom) min / max	1.5 / 50 mm	1 / 25 mm	1 / 25 mm
Terminal torque (top / bottom)	5 / 5	3 / 4	3
Busbar systems	Yes	Yes	Yes
Accessories	No	No	No
Dimensions	76 (H) 86 (L) 36/72 (W)	76 (H) 86 (L) 36 (W)	76 (H) 112 (L) 18 (W)
Weight	2 P=250, 4 P=368	250	350

CURVES

I²t LET THROUGH ENERGY 2 POLE RCBOs



I²t LET THROUGH ENERGY 1 POLE RCBOs



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