

MOD6+™

Circuit Protection
Products Pocketbook

NHP



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MOD6+ Residual Current Devices





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MOD6+ RCD Selection Guide

	MD6RC	MD6RS	MD6RD
			
Standard (AS/NZS)	61008	61009	61009
Width	2P 35 mm 4P 70 mm	1P 18 mm	1P 18 mm
Switched neutral	Yes	Yes	Yes
Neutral connection	Terminal	Pigtail	Terminal
Earth reference wire	No	No	No
Earth leakage flag	No	No	No
Mounting	DIN rail	DIN rail or chassis	DIN rail
30mA current ratings	40-63 A	6-32 A	6-32 A
10mA current ratings	-	6-32 A	6-32 A
Short circuit rating (kA)	6kA Inc	6kA	6kA
RCD Type	A/AI	A	A
Curve types	-	C	C
Rated AC voltage	2P 230/240 V 4P 230-415 V	230/240 V	230/240 V
Sealable in ON-Off position	Yes	Yes	Yes
Trip-free mechanism	Yes	Yes	Yes
Padlock facility	Accessory	Accessory	Accessory
Supply	Top or bottom	Bottom	Top or bottom
Busbar comb top terminals	Dual terminal pin/pin	-	-
Busbar comb bottom terminals	Dual terminal pin/pin	Pin/fork	Pin (9mm)
Terminal top (max)	16/25 mm ²	25 mm ²	25 mm ²
Terminal bottom (max)	16/25 mm ²	25 mm ²	25 mm ²
Page Number	1-7	1-8	1-9

MD6R2	MD6R4	MD6RL	MD6RT
			
61009	61009	61009	61009
2P 35mm	4P 71mm	1P 18 mm	3P 54mm
Yes	Yes	No	No
Terminal	Terminal	Pigtail	Pigtail
No	No	Yes	No
Yes	Yes	No	No
DIN rail	DIN rail	DIN rail or chassis	DIN rail or chassis
10 – 40 A	6 – 32 A	6 – 40 A	6-63 A
6-16 A	-	-	-
6kA	6 kA	6 kA	6kA
A	A	A	A
C	C	C	C
230/240	400/415	230/240	400/415
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Accessory	Accessory	Accessory	Accessory
Top or bottom	Top or bottom	Bottom	Bottom
Pin	Dual terminal pin/pin	-	-
Pin	Dual terminal pin/pin	Dual terminal pin/pin	Pin/fork
25 mm ²	16/25 mm ²	16 mm ²	25 mm ²
25 mm ²	16/25 mm ²	16/25 mm ²	25 mm ²
1-10	1-11	1-12	1-13

MOD6+ MD6M MCB 6kA (6 – 63 A)

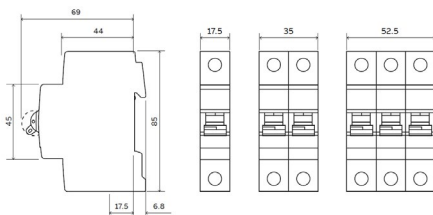
- Standard AS/NZS 60898
- Approval No. NSW29276 & RCM
- 6 kA short circuit rating
- Current ratings 6 - 63 A
- 1, 2 and 3 pole
- C Curve (5-10 I_n)
- Pad lockable handle option
- Handle sealable in ON and OFF position
- Suits pole covers, MOD6+ loadcentres/Panelboards
- Suits M6NC busbar chassis
- **General light and power applications**



C Curve

Current rating I _n (A)	1 Pole Cat. No.	2 Pole Cat. No.	3 Pole Cat. No.
6	MD6M106	MD6M206	MD6M306
10	MD6M110	MD6M210	MD6M310
16	MD6M116	MD6M216	MD6M316
20	MD6M120	MD6M220	MD6M320
25	MD6M125	MD6M225	MD6M325
32	MD6M132	MD6M232	MD6M332
40	MD6M140	MD6M240	MD6M340
50	MD6M150	MD6M250	MD6M350
63	MD6M163	MD6M263	MD6M363

Dimensions (mm):



Notes:

- Suits pin type busbar combs

MOD6+ MD6M

Dual 1P+1P MCB 6kA (6 – 20A)

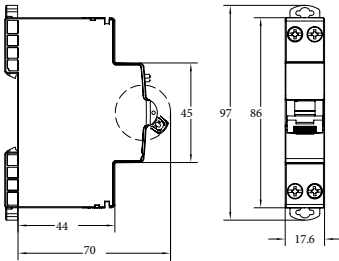
- Standard AS/NZS 60898.1
- Approval RCM
- Current ratings 6 - 20 A
- Compact design only 9mm per pole
- 240 V must be same phase for both poles
- C curve
- Suits pole covers, Loadcentres
- **General light and power applications**



C Curve

Current rating I_n (A)	1 Pole Cat. No.
6	MD6MD1106
10	MD6MD1110
16	MD6MD1116
20	MD6MD1120

Dimensions (mm):



MOD6+ MD6MH MCB 10kA (80 – 125 A)

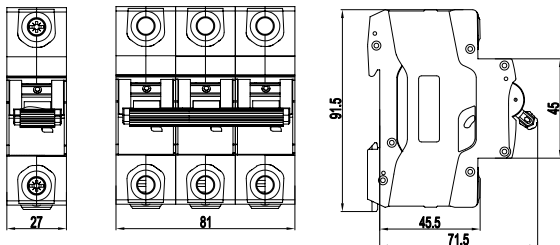
- Standard AS/NZS 60947-2
- Approval No. NSW29002 & RCM
- 10 kA short circuit rating
- Current ratings 80 - 125 A
- 1 and 3 pole
- C Curve (5-10 I_n)
- Pad lockable handle option
- Handle sealable in ON and OFF position
- Suits DIN rail mount (not suitable for busbar chassis)
- **General light and power applications**



C Curve

Current rating I_n (A)	1 Pole Cat. No.	2 Pole Cat. No.
80	MD6MH180	MD6MH380
100	MD6MH1100	MD6MH3100
125	MD6MH1125	MD6MH3125

Dimensions (mm):



Notes:

- For operation by instructed or skilled persons only
- Cannot fit on chassis due to terminal height and 27mm terminal centres
- DIN rail only mount

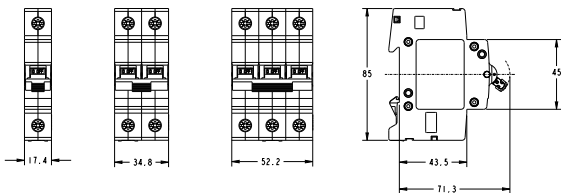
MOD6+ MD6MS Main Switch (80 – 100 A)

- Standard IEC 60947-3
- Current ratings 80A and 100 A
- 1, 2 and 3 pole
- 10kA short circuit rating¹
- Switch disconnecter (isolator)
- Pad lockable handle option
- Red Handle sealable in ON and OFF position
- DIN rail mounting
- Suits pole covers, loadcentres & M6NC busbar chassis
- **Main switch (isolator)**



Current rating I_n (A)	1 Pole Cat. No.	2 Pole Cat. No.	3 Pole Cat. No.
80	MD6MS180	-	-
100	MD6MS1100	MD6MS2100	MD6MS3100

Dimensions (mm):



Notes:

- MOD6+ main switches have the same profile as MOD6+ MCBs and are suitable as a main switch (isolator) in loadcentres and distribution boards.
- 1) When backed up with I_n rated NH00 gG fuse

MOD6+ MD6RC RCCB (40 – 63 A)

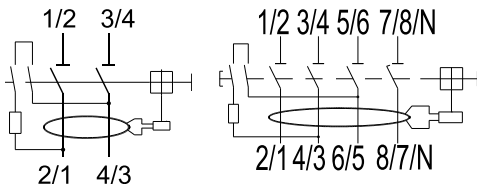
- Standard AS/NZS 61008.1
- Approval No. NSW20673 & RCM
- Current ratings 40 & 63 A
- Earth leakage protection Type A
- Type AI high immunity type option
- 30mA trip sensitivity
- Switched neutral
- Suits pole covers, loadcentres
- **General light and power applications**



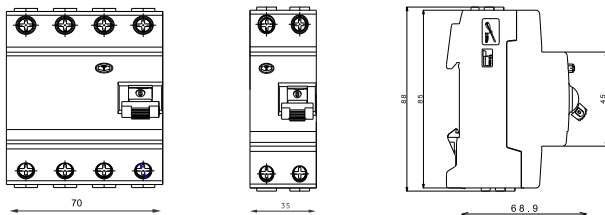
Two Pole & Four Pole

RCD type	Amp. rating	2 Pole Cat. No.	4 Pole Cat. No.
Type A	40 A	MD6RC24030A	MD6RC44030A
	63 A	MD6RC26330A	MD6RC46330A
Type AI	63A	MD6RC26330AI	MD6RC46330AI

Circuit diagrams



Dimensions (mm):



Notes:

- Pin type busbar comb can be used on top or bottom terminals

MOD6+ MD6RS RCBO 1P (compact) 6kA (6 – 32 A)

- Standard AS/NZS 61009
- Approval No. NSW24576 & RCM
- Current ratings 6 – 32 A
- C Curve (5-10 I_n)
- Earth leakage protection Type A
- 10mA and 30mA trip sensitivity
- Switched neutral
- Suits pole covers, loadcentres, MOD6+ Panelboards
- Suits M6NC busbar chassis
- **General light and power applications**



Single Pole

Amp. rating	30mA Cat. No.	10mA Cat. No.
6 A	MD6RS0630A	MD6RS0610A
10 A	MD6RS1030A	MD6RS1010A
13 A	MD6RS1330A	-
16 A	MD6RS1630A	MD6RS1610A
20 A	MD6RS2030A	MD6RS2010A
25 A	MD6RS2530A	MD6RS2510A
32 A	MD6RS3230A	MD6RS3210A

Circuit diagram

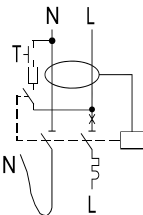
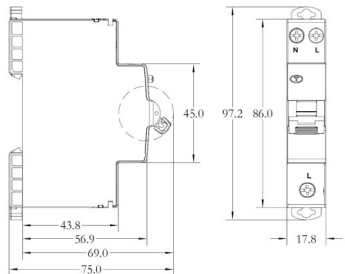


Diagram dimensions: mm



Notes:

- Suited to bottom pin/fork type busbar
- 10mA Type 1 RCBO
- Neutral pigtail

MOD6+ MD6RD

RCBO 1P (compact) 6kA (6 – 32 A)

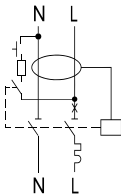
- Standard AS/NZS 61009
- Approval No. NSW24576 & RCM
- Current ratings 6 – 32 A
- C Curve (5-10 I_n)
- Earth leakage protection Type A
- 10mA and 30mA trip sensitivity
- Switched neutral
- Suits pole covers, loadcentres
- **General light and power applications**



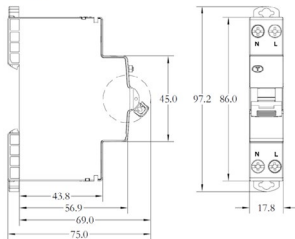
Single Pole

Amp. rating	30mA Cat. No.	10mA Cat. No.
6 A	MD6RD0630A	MD6RD0610A
10 A	MD6RD1030A	MD6RD1010A
13 A	MD6RD1330A	-
16 A	MD6RD1630A	MD6RD1610A
20 A	MD6RD2030A	MD6RD2010A
25 A	MD6RD2530A	MD6RD2510A
32 A	MD6RD3230A	MD6RD3210A

Circuit diagram



Dimensions (mm):



Notes:

- Suited to bottom pin type busbar, 9mm pitch
- Product not suitable for busbar chassis and Panelboards
- 10mA Type 1 RCBO
- Suits IBD and MD6AB busbar comb (page 22)

MOD6+ MD6R2

RCBO 2P 6kA (6 – 40 A)

- Standard AS/NZS 61009
- Approval No. NSW29296 & RCM
- Current ratings 6 – 40 A
- C Curve (5-10 I_n)
- Earth leakage protection Type A
- 10mA and 30mA trip sensitivity
- Switched neutral
- Earth leakage blue trip indicator - ETI
- Suits pole covers, loadcentres
- **General light and power applications**



Two Pole (1P+N)

Amp. rating	30mA Cat. No.	10mA Cat. No.
6 A	-	MD6R20610A
10 A	MD6R21030A	MD6R21010A
16 A	MD6R21630A	MD6R21610A
20 A	MD6R22030A	-
25 A	MD6R22530A	-
32 A	MD6R23230A	-
40 A	MD6R24030A	-

Circuit diagram

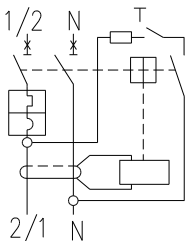
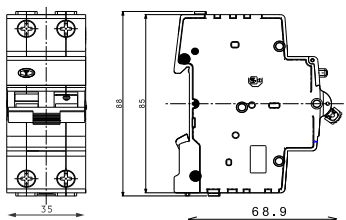


Diagram dimensions: mm



Notes:

- Suited to top or bottom pin type busbar
- 10mA Type 1 RCBO

MOD6+ MD6R4 RCBO 4P 6kA (6 – 32 A)

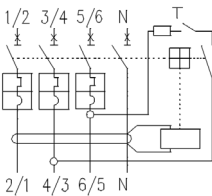
- Standard AS/NZS 61009
- Approval No. ESV180145 & RCM
- Current ratings 6 – 32 A
- C Curve (5-10 I_n)
- Earth leakage protection Type A
- 30mA trip sensitivity
- Switched neutral
- Earth leakage blue trip indicator - ETI
- Suits pole covers, loadcentres
- **General light and power applications**



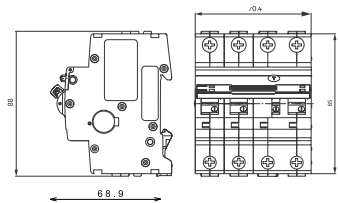
Four Pole (3P+N)

Amp. rating	30mA Cat. No.
6 A	MD6R40630A
10A	MD6R41030A
16 A	MD6R41630A
20 A	MD6R42030A
25 A	MD6R42530A
32 A	MD6R43230A

Circuit diagram



Dimensions (mm):



Notes:

- Suited to top or bottom pin type busbar

MOD6+ MD6RL

RCBO 1P (long body) 6kA (6 – 40 A)

- Standard AS/NZS 61009
- Approval No. NSW29319 & RCM
- Current ratings 6 – 40 A
- C Curve (5-10 I_n)
- Earth leakage protection Type A
- 30mA trip sensitivity
- Unswitched neutral
- Suits MOD6+ Panelboards & M6NC busbar chassis
- **General light and power applications**



Single Pole

Amp. rating	Cat. No.
6 A	MD6RL0630A
10 A	MD6RL1030A
16 A	MD6RL1630A
20 A	MD6RL2030A
25 A	MD6RL2530A
32 A	MD6RL3230A
40 A	MD6RL4030A

Circuit diagram

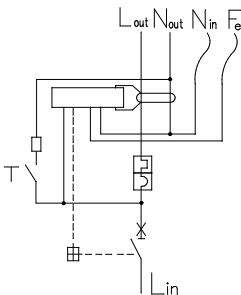
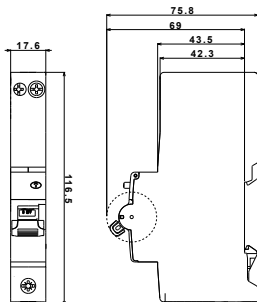


Diagram dimensions: mm



Notes:

- Suited to bottom pin type busbar
- Neutral pigtail and earth reference wire

MOD6+ MD6RT RCBO 3P 6kA (6 – 32 A)

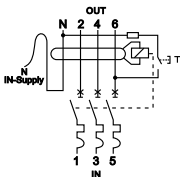
- Standard AS/NZS 61009
- Approval No. ESV220008 & RCM
- Current ratings 6 – 63 A
- C Curve (5-10 I_n)
- Earth leakage protection Type A
- 30mA trip sensitivity
- Unswitched neutral
- Suits MOD6+ Panelboards & M6NC busbar chassis
- **General light and power applications**



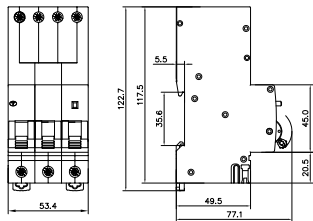
Three Pole

Amp. rating	30mA Cat. No.
6 A	MD6RT0630A
10 A	MD6RT1030A
16 A	MD6RT1630A
20 A	MD6RT2030A
25 A	MD6RT2530A
32 A	MD6RT3230A
40 A	MD6RT4030A
50 A	MD6RT5030A
63 A	MD6RT6330A

Circuit diagram



Dimensions (mm):



Notes:

- Suited to bottom pin type busbar

MOD6+ MD6AFDDM

AFDD + MCB 6kA (6 – 40 A)

- Standard IEC 62606 & AS/NZS 60898.1
- Approval RCM
- C Curve (5-10 I_n)
- LED AFDD Trip indication
- Contact position indicator green/red flag (CPI)
- Switched neutral
- Suits DIN rail mounting
- **General light and power specific applications**



Amp. rating	MCB Type Cat. No.
6 A	MD6AFDDM6C
10 A	MD6AFDDM10C
16 A	MD6AFDDM16C
20 A	MD6AFDDM20C
25 A	MD6AFDDM25C
32 A	MD6AFDDM32C
40 A	MD6AFDDM40C

Circuit diagram

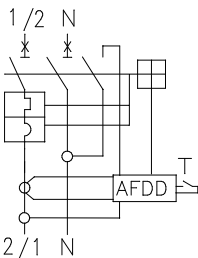
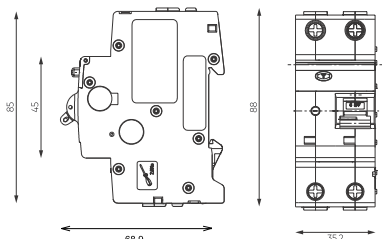


Diagram dimensions: mm



MOD6+ MD6AFDDR AFDD + RCBO 6kA (6 – 20 A)

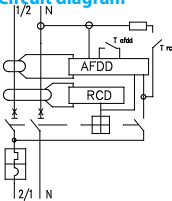
- IEC 62606 & AS/NZS 61009
- Approval No. ESV200140 & RCM
- C Curve (5-10 I_n)
- 30mA trip sensitivity
- Earth leakage protection type A
- LED AFDD Trip indication
- Contact position indicator green/red flag (CPI)
- Switched neutral
- Suits DIN rail mounting
- **General light and power applications**



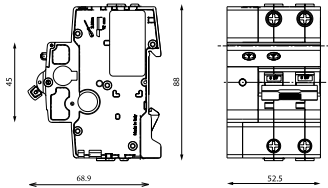
Single Pole

Amp. rating	RCBO Type Cat. No.
6 A	MD6AFDDR630A
10 A	MD6AFDDR1030A
16 A	MD6AFDDR1630A
20 A	MD6AFDDR2030A

Circuit diagram



Dimensions (mm):



MOD6+ MD6AS SURGE DIVERTOR

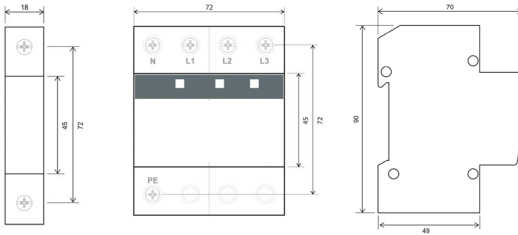
- Standard IEC 61643-11
- Type 2/class II
- Life indicator flag
- Remote indication (volt free contacts)



Single Pole & Four Pole (3P+N)

kA rating	1P Cat. No.	3P+N Cat. No.
20kA	MD6AS120230	MD6AS420400
40kA	MD6AS140230	MD6AS440400

Dimensions (mm):



MOD6+ ACCESSORIES

Pin terminals

Description	Cat. No.
Terminal pin 25mm long insulated	DTTTL25PN2
Neutral pin terminal 3-way (perfect for RCCBs)	DTTAX16PN3
Pin terminal 25mm 90° (rear feed) insulated	DTT9025PN
1. 25mm tin plated pin terminal (great for aluminum cables)	DTTAX25PN
2. 50mm tin plated pin terminal (great for aluminum cables)	DTTAX50PN

Locking devices

Description	Cat. No.
Non captive locking device up to 8mm hasp	DTLD

Pole Filler & tee-off caps

Description	Cat. No.
Pole filler 12 poles	DTPF12
Strip tee-off caps 5 poles	ICLTOC



DTTTL25PN2



DTTAX16PN3



DTT9025PN



DTTAX25PN



DTTAX50PN



DTLD



DTPF12



ICLTOC

MOD6+ BUSBAR COMBS

- Pin type busbar comb
- 18mm pitch
- 80A end feed/ 130A centre feed
- Suit MCBs and RCBOs

No Ways	1P Cat. No.	1P+N (2P) Cat. No.	3P Cat. No.	4P (R-W-B-N) Cat. No.
6 way	-	ICL62	-	-
8 way	IBC108P	-	-	-
10 way	-	ICL102	-	-
12 way	IBC112P	-	ICL123	-
15 way	IBC115P	-	ICL153	-
18 way	IBC118P	-	ICL183	-
21 way	IBC121P	-	ICL213	-
56 way	-	ICL562	-	ICL564
57 way	IBC155P	-	ICL573	-
End cap	IBCEC1	ICLEC23	ICLEC23	ICLEC4



IBC108P



ICL123

MOD6+ BUSBAR COMBS

- Pin type busbar comb
- 9mm pitch
- 63A
- Suits MOD6+ compact MD6RD 1P RCBOs

No Ways	1P+N Cat. No.	3P Cat. No.	3P +N (R-N-W-N-B-N)Cat. No.
12 way	-	IBD312P	-
13 way	IBD213P	-	-
18 way	IBD218P	-	-
55 way	IBD255P	-	IBD4552P
End cap	IBDEC2	IBDEC3	IBDEC4

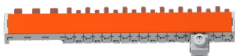


IBD213P



IBD255P

No Ways	1P+N with 1P mains feed Cat. No.	1P+N without mains feed Cat. No.	3P+N with 3P mains feed Cat. No.	3P+N without mains feed Cat. No.
12 way	MD6AB1219M	MD6AB1219	MD6AB1239M	MD6AB1239
18 way	MD6AB1819M	MD6AB1819	MD6AB1839M	MD6AB1839
Tee-off cap	MD6ABTC	MD6ABTC	MD6ABTC	MD6ABTC



MD6AB1239M



MD6AB1219

Australia
nhp.com.au
1300 647 647

New Zealand
nhpnz.co.nz
0800 647 647

