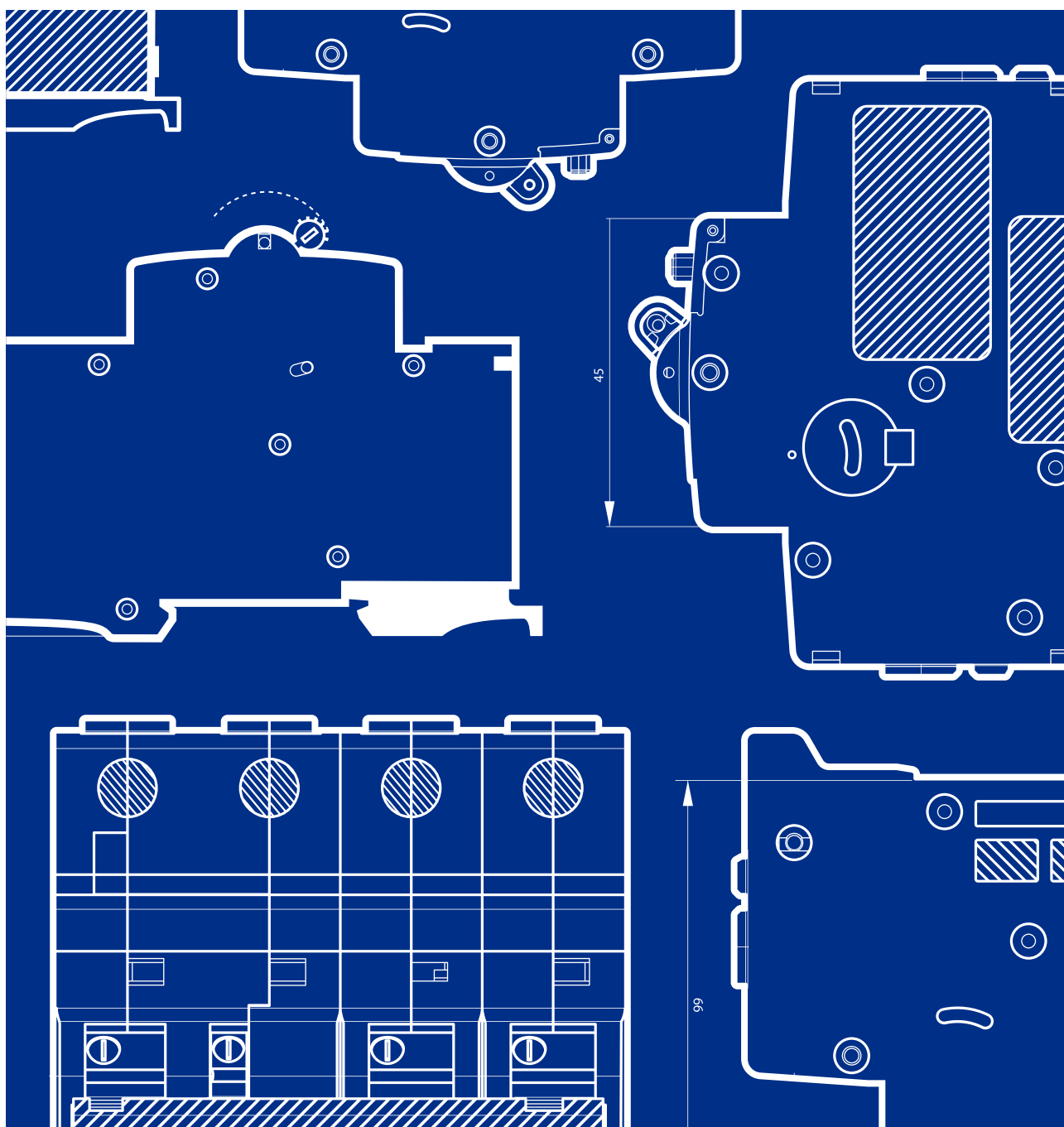
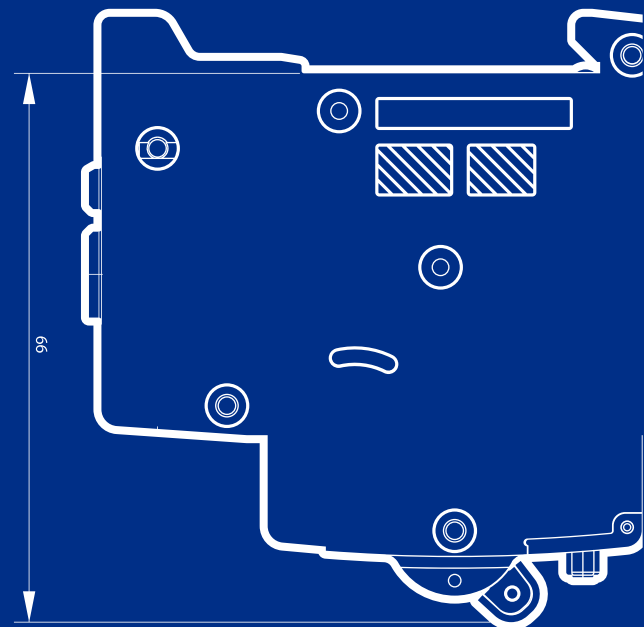
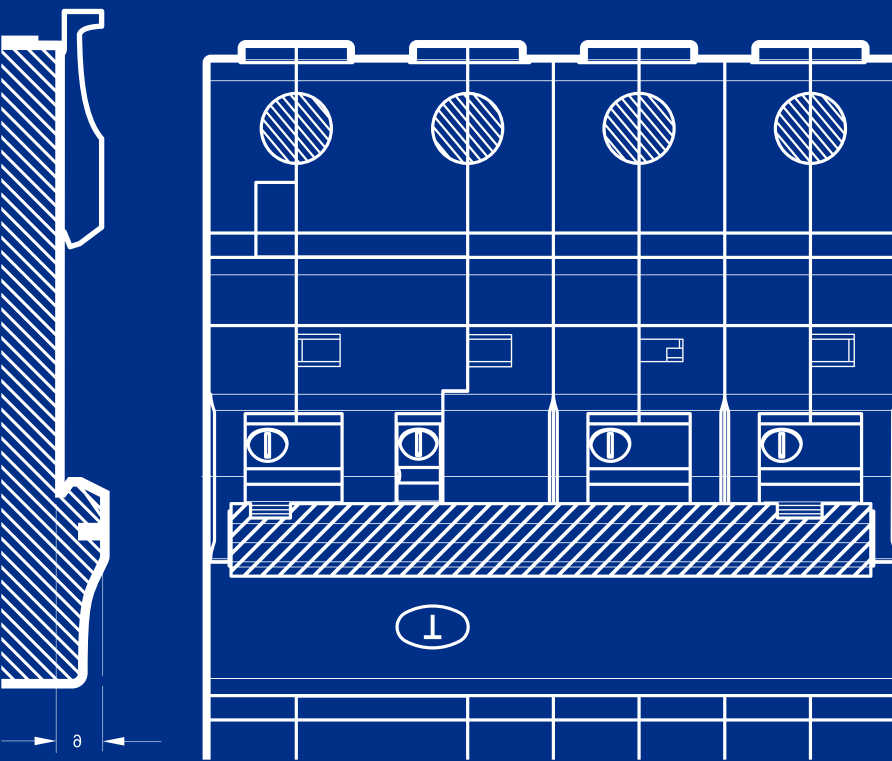
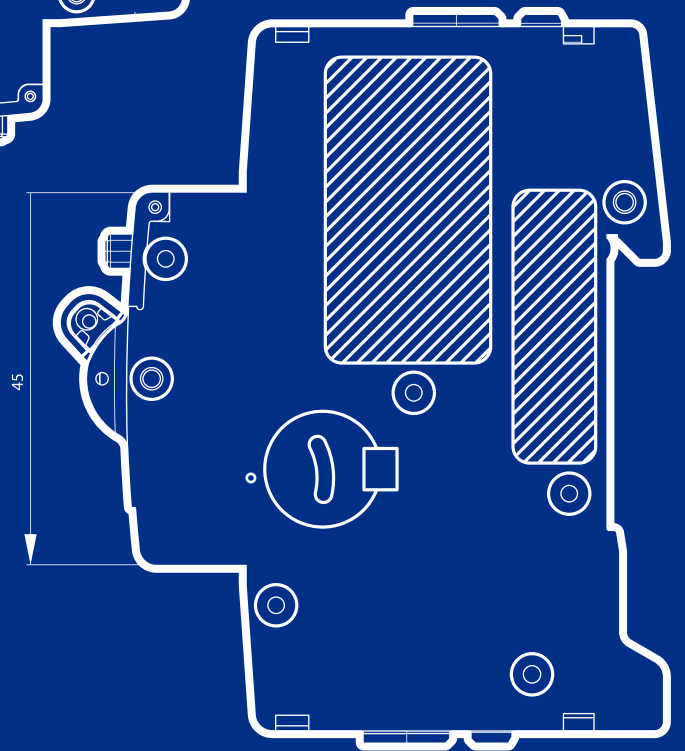
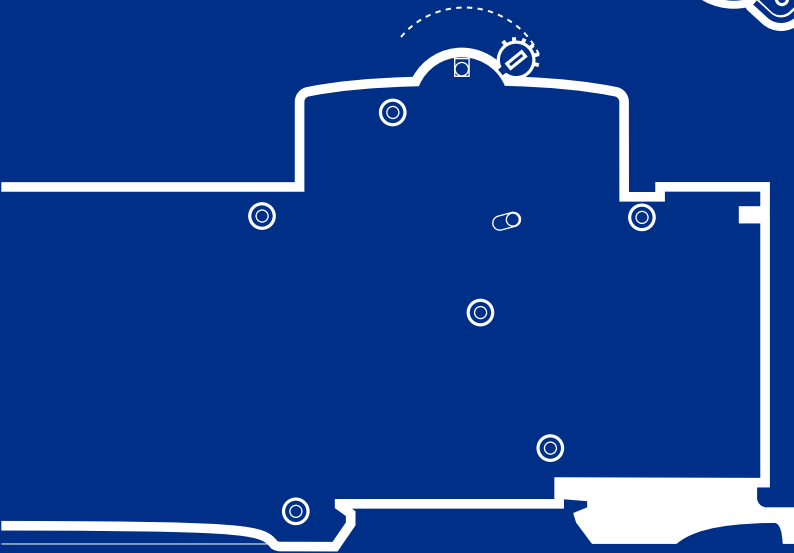
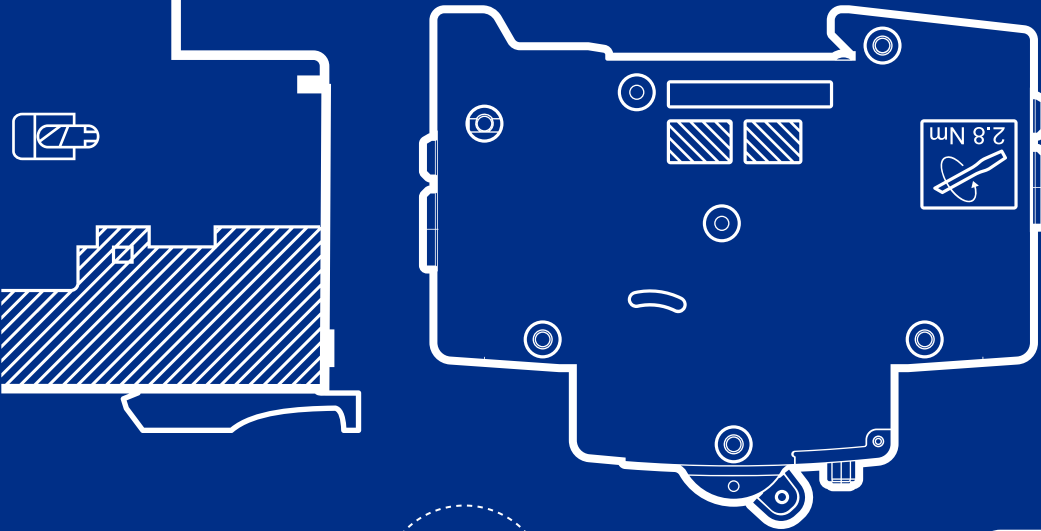
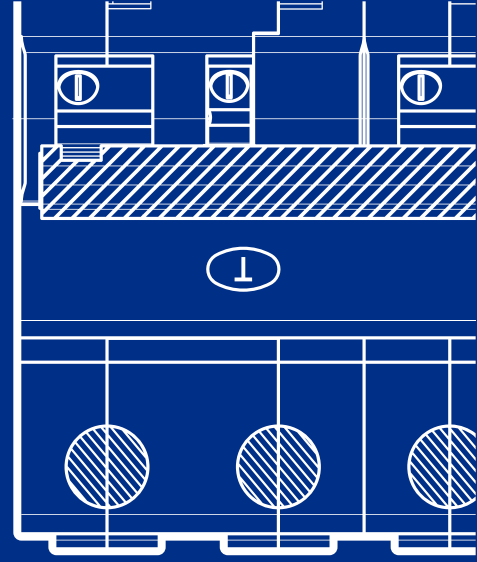
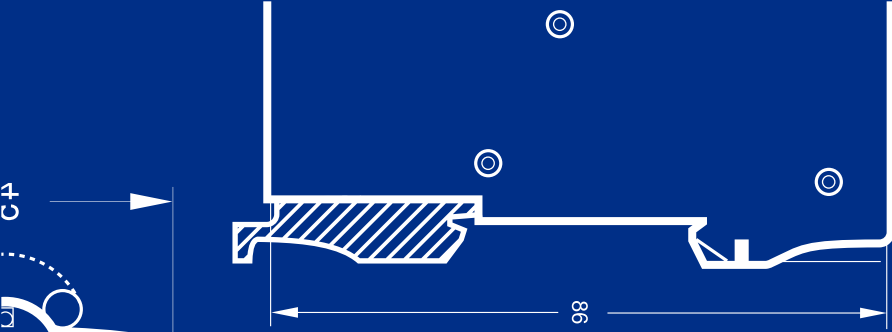


Power Distribution and Protection

Circuit Protection



MCBs and RCBOs



1 Miniature Circuit Breakers (MCBs) and Residual Current Breakers with Overcurrent (RCBOs)

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Miniature Circuit Breakers Selection Guide

MOD6



DIN-T6



DIN-T10



Application	Residential / Light Commercial	Commercial / Industrial	Commercial / Industrial
Standard	AS / NZS 60898	AS / NZS 60898 AS / NZS 60947-2	AS / NZS 60898 AS / NZS 60947-2
Number of Poles and Module Width	1P - 18 mm 2P - 36 mm 3P - 54 mm	1P - 18 mm 2P - 36 mm 3P - 54 mm	1P - 18 mm 2P - 36 mm 3P - 54 mm 4P - 72 mm
Mounting	DIN Rail	DIN Rail	DIN Rail
Current Ratings	6 A - 63 A	2 A - 63 A	0.5 A - 63 A
Short Circuit Rating	6 kA	6 kA	10 kA
Curve Types	C	C & D	B, C & D
Rated AC Voltage 1P / 2, 3, 4	240 / 415 V	240 / 415 V	240 / 415 V
Rated DC Voltage	48 V 1P 110 V 2P series	48 V 1P 110 V 2P series	48 V 1P 110 V 2P series
Sealable In On-off Position	Yes	Yes	Yes
Trip-free Mechanism	Yes	Yes	Yes
Padlock Facility	Non Captive	Yes	Yes
	Captive	No	Yes
Busbar Connection	On-top	Pin	Pin
	Off-bottom	Fork / Pin	Fork / Pin
Terminal Size	On-top	25 mm ²	35 mm ²
	Off-bottom	25 mm ²	35 mm ²

DIN-T15**DTCB10H****DIN-T 2-in-1****DIN-T DC****DIN-T Easy-Fit**

Commercial / Industrial	Commercial / Industrial	Commercial / Industrial	Commercial / Industrial	Commercial / Industrial
AS / NZS 60947-2	AS / NZS 60898 AS / NZS 60947-2	AS / NZS 60898 AS / NZS 60947-2	AS / NZS 60898 AS / NZS 60947-2	AS / NZS 60898 AS / NZS 60947-2
1P - 18 mm 2P - 36 mm 3P - 54 mm 4P - 72 mm	1P - 27 mm 2P - 53 mm 3P - 80 mm 4P - 106 mm	1P + 1P - 18 mm 2P - 18 mm 3P - 36 mm 4P - 36 mm	1P - 27 mm 2P - 54 mm 4P - 81 mm	1P - 36 mm 3P - 54 mm
DIN Rail	DIN Rail	DIN Rail	DIN Rail	DIN Rail
0.5 A - 63 A	80 A - 125 A	2 A - 40 A	0.5 A - 63 A	6 A - 63 A
15 kA - 50 kA	10 kA	6 kA	6 kA T15	6 kA
C	B, C & D	C	B & C	C
240 / 415 V	240 / 415 V	240 / 415 V	240 / 415 V	240 / 415 V
48 V 1P 110 V 2P series	125 V 1P 250 V 2P 375 V 3P 500 V 4P	-	250 V 1P 500 V 2P 880 V 4P series	-
Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes
Yes	Yes	No	Yes	No
Pin	Pin	Pin	Pin	-
Fork / Pin	Pin	Pin	Fork / Pin	Pin
35 mm ²	70 mm ²	16 mm ²	35 mm ²	4 mm ² 6 A - 20 A 35 mm ² 25 A - 63 A
35 mm ²	70 mm ²	16 mm ²	35 mm ²	35 mm ²

107**101****70****85****78**

MOD6 Residual Current Devices Selection Guide

MOD6RCCB



MOD6RCBO1



M6RCBS



Application	Residential / Light Commercial	Light Commercial	Residential / Light Commercial	
Standard	AS / NZS 61008-1	AS / NZS 61009-1	AS / NZS 61009-1	
Number of Poles and Module Width	2P - 36 mm 4P - 72 mm	1P + N - 18 mm	1P + N - 18 mm	
Mounting	DIN Rail	DIN Rail/ Chassis	DIN Rail/ Chassis	
Current Ratings	40 A, 63 A	10 A, 16 A, 20 A, 25 A, 32 A	6 A, 10 A, 16 A, 20 A, 25 A, 32 A	
Trip Sensitivity	30 mA	30 mA	10 mA, 30 mA	
Sensitivity Type	AC & A	A	A	
Switched Neutral	Yes	No	Yes	
Short Circuit Rating	-	6 kA	6 kA	
Curve Types	-	C	C	
Rated AC Voltage 1P / 2, 3, 4P	2P 230 / 240 V 4P 400 / 415 V	230 / 240 V	230 / 240 V	
Sealable In On-off Position	Yes	Yes	No	
Terminal Size	On-top	50 mm ²	25 mm ²	16 mm ²
	Off-bottom	50 mm ²	25 mm ²	25 mm ²
Page Number	22	26	31	

M6RCBD**MOD6RCBO2****M6RCBF****M6RCBT**

Residential / Light Commercial	Residential / Light Commercial	Residential / Light Commercial	Residential/ light commercial
AS / NZS 61009-1	AS / NZS 61009-1	AS / NZ 61009-1	AS / NZS 61009-1
1P + N - 18 mm	2P - 36 mm	3P+N - 72 mm	3P+N 54mm
DIN Rail	DIN Rail	DIN Rail	DIN Rail/ Chassis
6 A, 10 A, 16 A, 20 A, 25 A, 32 A	10 A, 16 A, 20 A, 25 A, 32 A, 40 A	6 A, 10 A, 16 A, 20 A, 25 A, 32 A	6 A, 10 A, 16 A, 20 A, 25 A, 32 A, 40 A, 50 A, 63 A
10 mA, 30 mA	10 mA, 30 mA	30 mA	30 mA
A	AC & A	A	A
Yes	Yes	Yes	No
6 kA	6 kA	6 kA	6 kA
C	C	C	C
230 / 240 V	230 / 240 V	400 / 415 V	400 / 415 V
No	No	No	Yes
16 mm ²	25 mm ²	25 mm ²	25 mm ²
16 mm ²	25 mm ²	25 mm ²	25 mm ²
36	41	47	53

DIN-Safe Residual Current Devices Selection Guide

DIN-Safe DSRCD



DIN-Safe DSRCBS



DIN-Safe DSRCBH



Application	Commercial / Industrial	Commercial / Industrial	Commercial / Industrial
Standard	AS / NZS 61008	AS / NZS 61009	AS / NZS 61009
Number of Poles and Module Width	2P - 36 mm 4P - 72 mm	1P + N - 18 mm	1P + N - 18 mm
Mounting	DIN Rail	DIN Rail/ Chassis	DIN Rail/ Chassis
Current Ratings	40 A, 63 A, 80 A	6 A, 10 A, 16 A, 20 A, 25 A, 32 A	6 A, 10 A, 16 A, 20 A, 25 A, 32 A, 40 A
Trip Sensitivity	30 mA, 100 mA, 300 mA	10 mA, 30 mA	10 mA, 30 mA, 100 mA
Sensitivity Type	A, AI, S, F, B	A	A
Switched Neutral	Yes	Yes	No
Short Circuit Rating	Inc - 10 kA MCB or fuse backup	6 kA	6 kA, 10 kA
Curve Types	-	B & C	C & D
Rated AC Voltage	2P 230 / 240 V 4P 400 / 415 V	230 / 240 V	230 / 240 V
Sealable In On-off Position	Yes	Yes	Yes
Trip-free Mechanism	Yes	Yes	Yes
Padlock Facility	Non Captive	Yes	Yes
	Captive	No	Yes
Busbar Connection	On-top	Pin	-
	Off-bottom	Fork / Pin	Pin
Terminal Size - On-top	50 mm ²	16 mm ²	25 mm ²

DIN-Safe DSRCB



DIN-Safe DSRCBT



DIN-Safe DSRCM



Commercial / Industrial

Commercial / Industrial

Commercial / Industrial

AS / NZS 61009

AS / NZS 61009

AS 3190

2P - 36 mm

3P + N - 54mm

1P + N
3P & 3P + N] Refer to dimension
diagrams

DIN Rail

DIN Rail/ Chassis

DIN Rail/ Chassis

6 A, 10 A, 16 A, 20 A,
25 A, 32 A, 40 A6 A, 10 A, 16 A, 20 A, 25 A,
32 A, 40 A, 50 A, 63 A

32 A, 63 A

10 mA, 30 mA, 100 mA

30 mA, 100 mA, 300 mA

30 mA, 100 mA, 300 mA

A, AI

A

AC, A

Yes

No

-

6 kA, 10 kA

10 kA

-

C

C

-

110 / 240 V Type A
240 V Type AI

400 / 415 V

1P+N 230 / 240 V
3P, 3P+N 400 / 415 V

Yes

Yes

No

Yes

Yes

Yes

Yes

Yes

No

Yes

Yes

No

Pin

-

-

Fork / Pin

Fork / Pin

-

25 mm²25 mm²32 A - 16 mm²
63 A - 25 mm²

133

148

143

MOD6 6kA MCB



- ✓ Complies with AS/NZS 60898
- ✓ MOD6 MCBs feature 6 kA short circuit rating
- ✓ C curve tripping characteristic
- ✓ Pad lockable and sealable toggle restricts unauthorised action
- ✓ Free tripping mechanism even if toggle is locked or sealed ON or OFF
- ✓ Fast connection pin / fork busbar comb or busbar chassis
- ✓ Suits pole-covers, loadcentres and Concept One Panelboards
- ✓ Approval No. N17481 or RCM
- ✓ For general purpose light and power applications
- ✓ NHP MOD6 MCBs offering core range of quality 6 kA circuit protection that has been tested to local standards and holds Australian and New Zealand approvals



General

Tripping Characteristics	C
Nominal Current Rating at 30 °C	6 - 63 A
Poles	1P / 2P / 3P
Neutral Pole Protected	No

Short Circuit

I_{cn} 230 / 400 V 1P / 2P / 3P	6 / 6 / 6 kA
-----------------------------------	--------------

Voltage

Nominal Voltage U_n	AC	1P	240, 415 V AC
		3P / 4P	415 V AC
	DC	1P	48 V DC
		2P (I_n Series)	110 V DC
Frequency	50 / 60 Hz		
Maximum Service Voltage U_{bmax}	250 / 440 V AC 53 / 120 V DC		
Minimum Service Voltage U_{bmin}	12 V AC		

Connections

Maximum Cable Size	Rigid / Flexible (Top)	25 mm ² / 25 mm ²
	Rigid / Flexible (Bottom)	35 mm ² / 25 mm ²

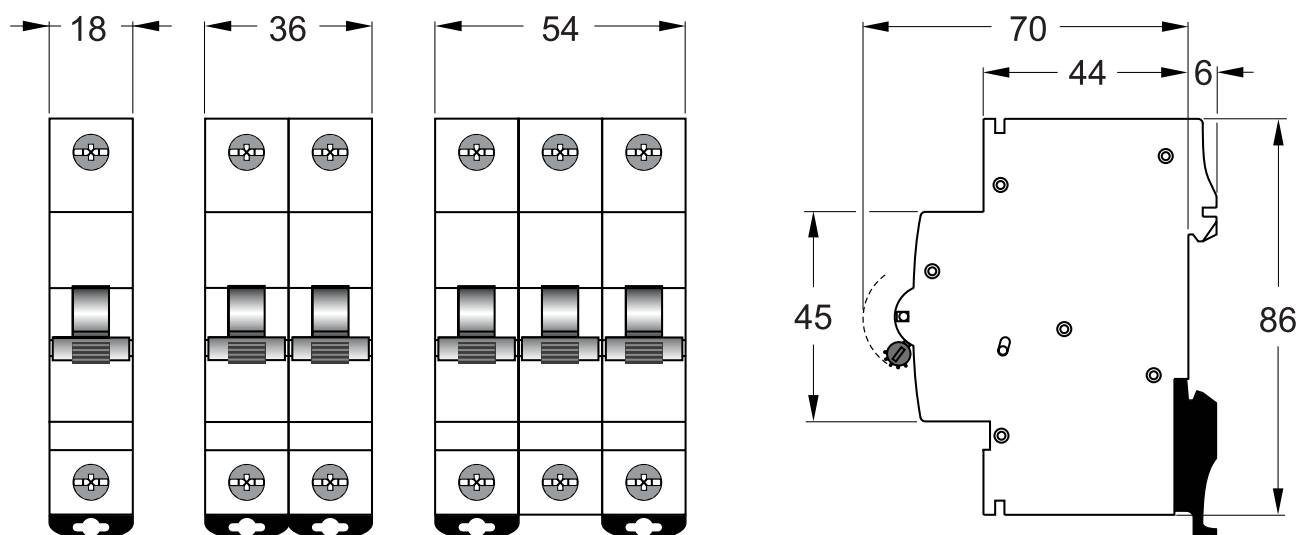


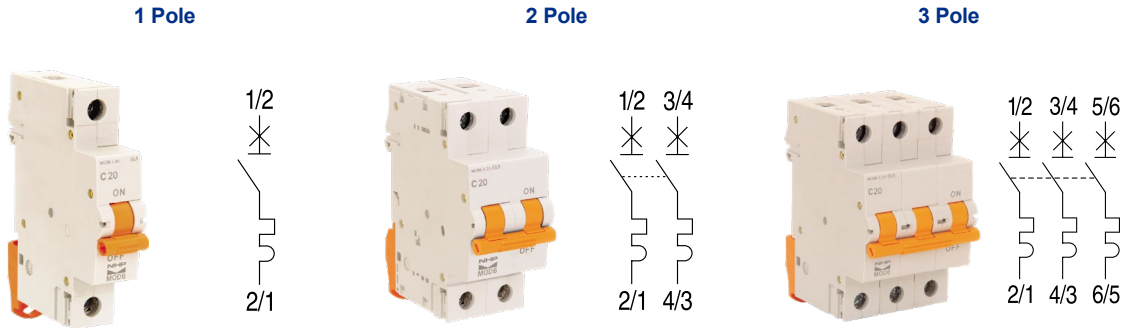
Application



Residential, domestic and light commercial general light and power applications. Suitable for use in MOD6 pole-covers, MOD6 loadcentres and Concept One Panelboards.

Dimensions





Width 18 mm 36 mm 54 mm

Amps (I_n) C-Curve (5-10 I_n) C-Curve (5-10 I_n) C-Curve (5-10 I_n)

6	MOD6106	MOD6206	MOD6306
10	MOD6110	MOD6210	MOD6310
16	MOD6116	MOD6216	MOD6316
20	MOD6120	MOD6220	MOD6320
25	MOD6125	MOD6225	MOD6325
32	MOD6132	MOD6232	MOD6332
40	MOD6140	MOD6240	MOD6340
50	MOD6150	MOD6250	MOD6350
63	MOD6163	MOD6263	MOD6363



Voltage Ratings

Nominal Voltage U_n	AC	1P	240, 415 V AC
		3P / 4P	415 V AC
	DC	1P	48 V DC
		2P (in series)	110 V DC
Frequency	50 / 60 Hz		
	DC : 1.4 x mag. trip		
	400 Hz : 1.5 x mag. trip		
Maximum Service Voltage U_{bmax}		250 / 440 V AC 53 / 120 V DC	
Minimum Service Voltage U_{bmin}		12	
Selectivity Class (IEC 60898)		A	
Isolator Application	IEC 60947-2	Yes	
Rated Insulation Voltage	Pollution Degree 2	500 V	
	Pollution Degree 3	440 V	
Impulse Withstand Test Voltage		6 kV	
Insulation Resistance		10000 mOhm	
Dielectric Rigidity		2.5 kV	

Environmental

Vibration Resistance (IEC 77 / 16.3) (in x, y, z direction)		3 g
Endurance	Electrical at U_n, I_n	10000 cycles
	Mechanical	20000 cycles
Utilisation Category (IEC 60947-2)		A
Protection Degree	Outside	IP20
	Inside	IP40
Self-extinguish Degree (According to UL94)		UL 94 V-2
Tropicalisation (IEC60068-2 / DIN 40046)		+55 °C / 95 % RH
Operating Temperature		-25 °C / +55 °C
Storage Temperature		-55 °C / +55 °C

Connection

Rigid Cable Min / Max (Top)		1 mm ² / 25 mm ²
Flexible Cable Min / Max (Top)		0.75 mm ² / 25 mm ²
Rigid Cable Min / Max (Bottom)		1 mm ² / 35 mm ²
Flexible Cable Min / Max (Bottom)		0.75 mm ² / 25 mm ²
Torque (Top / Bottom)		4.5 / 4.5 Nm
Busbar	Connection Top	Fork / Pin
	Connection Bottom	Fork / Pin

Physical

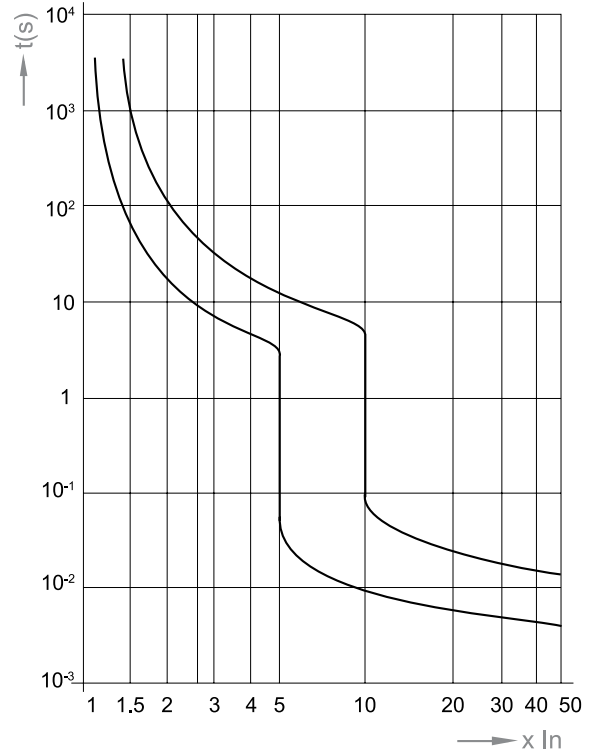
Dimensions (H x W x D)	1P	86 x 18 x 76 mm
	2P	86 x 36 x 76 mm
	3P	86 x 54 x 76 mm
Weight		0.12 / 0.24 / 0.36 kg
Package		12 / 6 / 4 module



Short-Circuit Capacity AC

IEC 60898	I_{cn}	1P	230 / 400 V	6
		2P	230 / 400 V	6
		3P / 4P	230 / 400 V	6
	I_{cs} (Service)		% I_{cn}	100
IEC 60947-2	I_{cu} (Ultimate)	1P	127 V	15
			240 V	10
			415 V	6
		2P	127 V	30
			240 V	20
			415 V	10
		3P / 4P	240 V	20
			415 V	10
			440 V	6
			I_{cs} (Service)	% I_{cu}
	NEMA AB1 (120 / 240 V)		-	

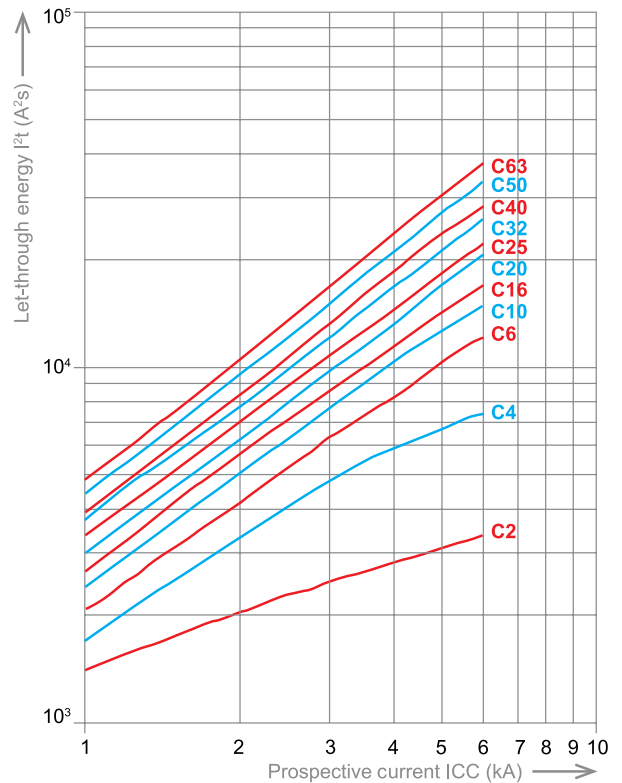
C-Curve Characteristics



Short-Circuit Capacity DC

IEC 60947-2	I_{cu} (Ultimate)	1P	≤ 60 V	20
			≤ 220 V	-
		2P	≤ 125 V	25
			≤ 440 V	-
	I_{cs} (Service)	% I_{cu}	100	

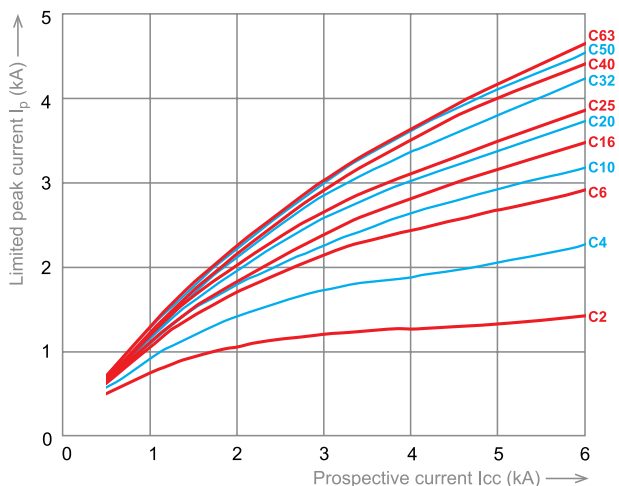
Let-through Energy I^2t (A²s) C-Curve





MCBs and RCBOs

Limited Peak Current (kA) at 230 / 400V C-Curve

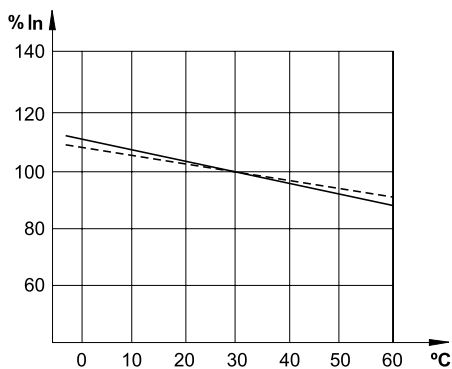


Power Loss

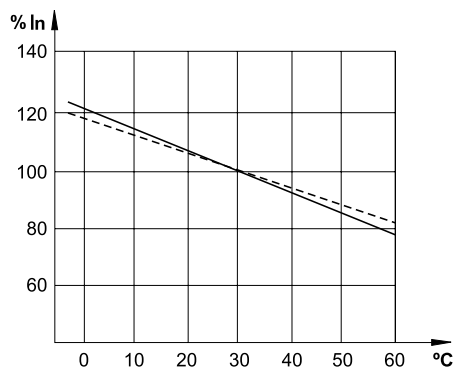
I_n (A)	Voltage Drop (V)	Energy Loss P_w (W)	Resistance Z (mOhm)
6	0.26	1.57	43.60
8	0.16	1.24	19.40
10	0.16	1.56	15.60
13	0.16	2.01	11.90
16	0.16	2.57	10.10
20	0.14	2.76	6.90
25	0.13	3.19	5.10
32	0.10	3.07	3.00
40	0.10	4.00	2.25
50	0.19	4.5	1.80
63	0.08	5.16	1.30

Ambient Temperature Influence

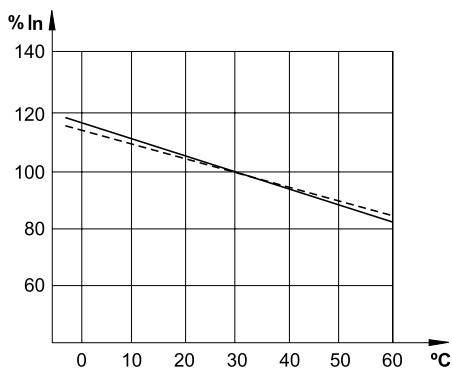
0,5 - 6A



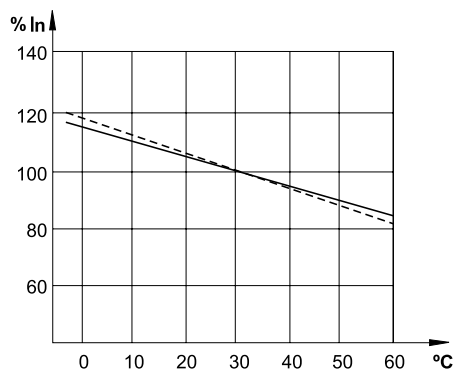
10A



16 - 40A



50 - 63A



— : 1P (Single pole)
 - - - : mP (Multipole)

MOD6 Main Switch

1P, 2P and 3P Main Switches

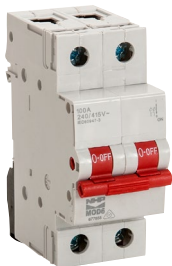
Main Switch to isolate incoming supply or outgoing loads up to 100 A.



Item Description	Catalogue No.
MOD6 Main Switch, DIN Rail, 1P, 80 A	MOD6MS180
MOD6 Main Switch, DIN Rail, 1P, 100 A	MOD6MS1100



Item Description	Catalogue No.
MOD6 Main Switch, DIN Rail, 3P, 100 A	MOD6MS3100

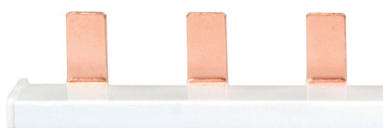


Item Description	Catalogue No.
MOD6 Main Switch, DIN Rail, 2P, 100 A	MOD6MS2100

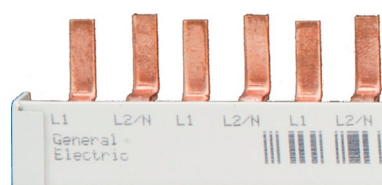
Busbar Comb

IBC, ICL and IBD Busbar Comb

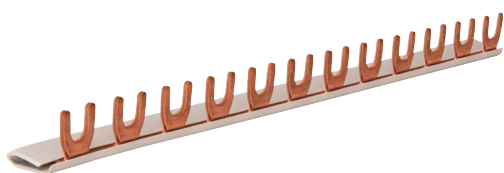
Suitable for linking MOD6 Main Switches, MCBs and RCBOs in MOD6 pole-covers and MOD6 loadcentres. ICL and IBC are suited for regular 18 mm pitch terminals on MSW, MCBs and RCBOs. IBD is suited for 9 mm pitch terminals on 2-in-1 MCBs and M6RCBD RCBOs. Fork Type comb goes under the terminal screw head and Pin Type into the devices main terminal.



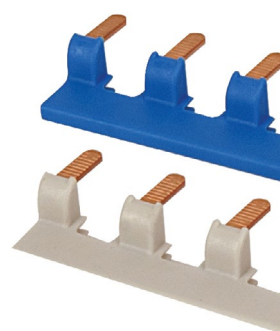
Item Description	Catalogue No.
Busbar Comb, 12 way, 100 A, 1P, Pin type with end caps	IBC112P
Busbar Comb, 15 way, 100 A, 1P, Pin type with end caps	IBC115P
Busbar Comb, 18 way, 100 A, 1P, Pin type with end caps	IBC118P



Item Description	Catalogue No.
Busbar Comb, 18 way, 1P+N, 80 A / 100 A, suits M6RCBD and DTCBD	IBD218P
Busbar Comb, 55 way, 1P+N, 80 A / 100 A, suits M6RCBD and DTCBD	IBD255P



Item Description	Catalogue No.
Busbar Comb, 4 way, 1P, 80 A / 130 A, Fork type	ICL41F
Busbar Comb, 12 way, 1P, 90 A / 150 A, Fork type	ICL121F
Busbar Comb, 18 way, 1P, 80 A / 130 A, Fork type	ICL181F
Busbar Comb, 56 way, 1P, 110 A / 130 A, Fork type	ICL561F
Busbar Comb, 57 way, 3P, 110 A / 130 A, Fork type	ICL573F



Item Description	Catalogue No.
Busbar Comb Kit (blue and grey), 13 way, 63 A, 1P+N, suits M6RCBD	IBD213P

Busbar Comb End Caps

IBC and IBD Busbar End Caps

End caps to cover the end of cut busbar comb.



Item Description	Catalogue No.
Buscomb End Cap to suit 1P IBC	IBCEC1
Buscomb End Cap to suit 2P IBD	IBDEC2
Buscomb End Cap to suit 4P IBD	IBDEC4

General Accessories

Pole Filler, Lock Dogs and Terminals

Lock Dog to securely lock off devices. Pole filler to cover unused spaces in loadcentres and Panelboards. Terminal pins to allow connection of larger cables or multiple cables to a terminal.



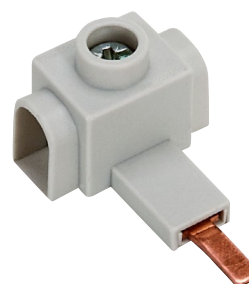
Item Description	Catalogue No.
DIN Lock Dog, Non-Captive suits hasp up to 8.0 mm.	DTLD



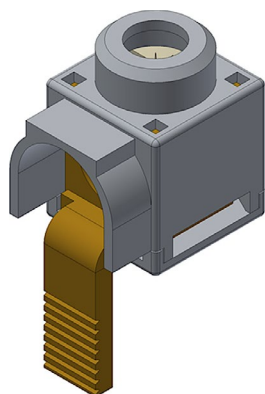
Item Description	Catalogue No.
1 strip of 12 poles (24 x 9 mm segments)	DTPF12



Item Description	Catalogue No.
Terminal 3 x 16 mm neutral link to suit RCCB	DTTAX16PN3



Item Description	Catalogue No.
Terminal Pin 25 mm to suit DIN MCBs	DTTTL25PN2



Item Description	Catalogue No.
Terminal rear connect 25mm pin	DTT9025PN

MOD6 RCCBs (Safety Switches)



- ✓ Complies with AS/NZS 61008 (RCCBs)
- ✓ MOD6 RCCBs feature 6 kA conditional short circuit rating
- ✓ 1P+N and 3P+N for single or three phase loads
- ✓ Type A RCD option
- ✓ 30 mA sensitivity featured as standard simplifying the selection for personnel protection applications
- ✓ Fast connection pin / fork busbar comb or busbar chassis
- ✓ Suits pole-covers and loadcentres
- ✓ Approval No. NSW17482 or RCM Mark



General

Sensitivity $I_{\Delta n}$	30 mA
RCD Type	A
Nominal Current Rating at 30 °C	40 - 63 A
Poles	1P + N / 3P + N
Switched Neutral	Yes

Short Circuit

$I_{\Delta vc}$ Condition Short Circuit Capacity	6000
I_{inc} Condition Short Circuit Capacity	10000

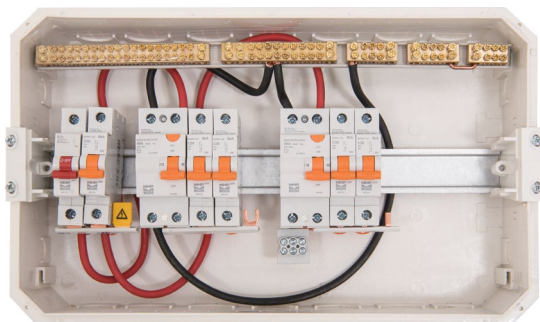
Voltage

Frequency	50 / 60 Hz
Maximum Service Voltage U_{bmax} (2P / 4P)	265 / 455 V AC
Minimum Service Voltage U_{bmin} (2P / 4P)	176 / 287

Connections

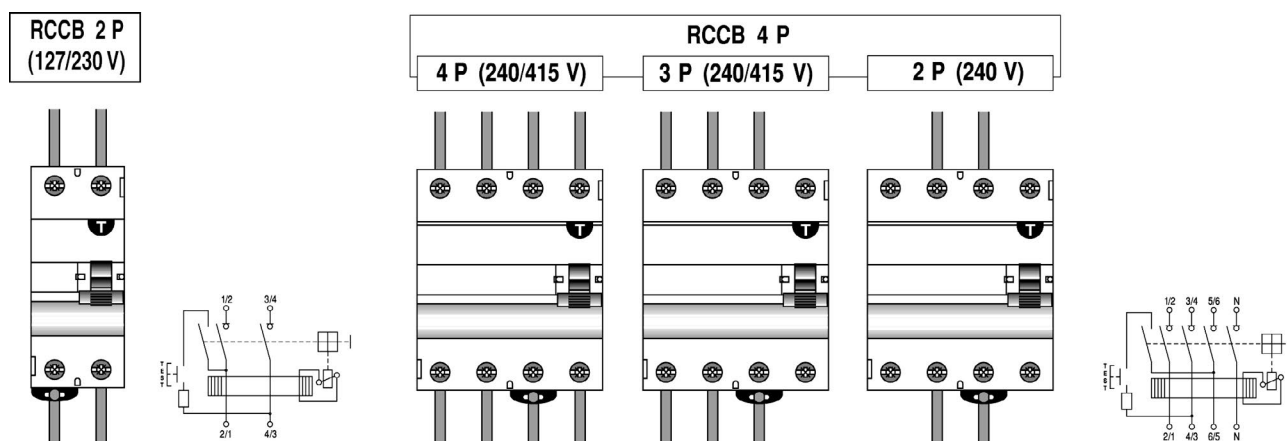
Maximum Cable Size	Rigid / Flexible (Top)	50 mm ² / 35 mm ²
	Rigid / Flexible (Bottom)	50 mm ² / 35 mm ²

Application

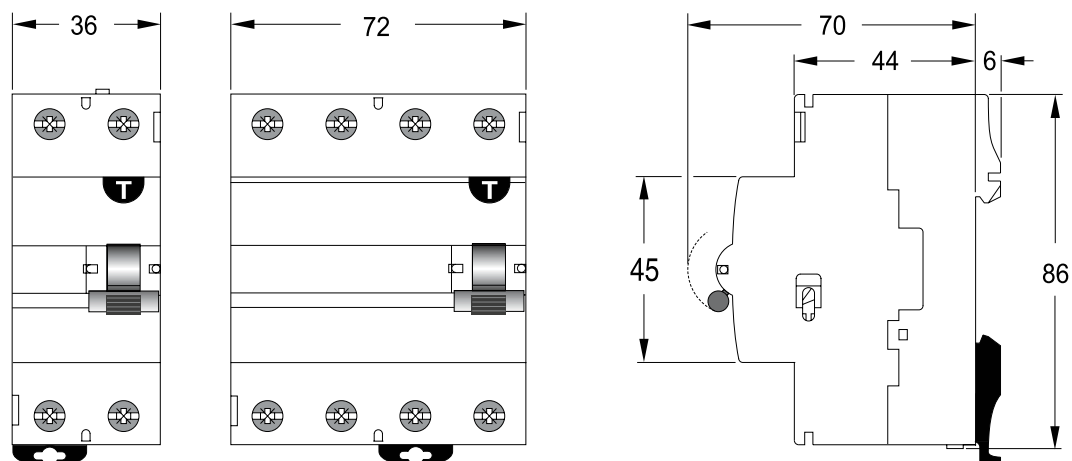


Residential, domestic and light commercial general light and power applications. Suitable for use in MOD6 pole-covers and MOD6 loadcentres.

Connection

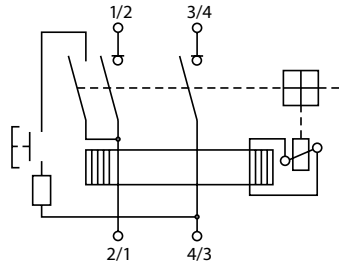


Dimensions



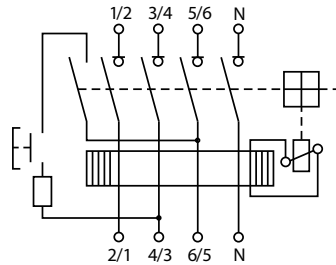


1P + N



Sensitivity (mA)	Amps (In)	Width (mm)	Type A
30	40	36	MOD6RCCB24030A
30	63	36	MOD6RCCB26330A

3P + N



Sensitivity (mA)	Amps (In)	Width (mm)	Type A
30	40	72	MOD6RCCB44030A
30	63	72	MOD6RCCB46330A



Voltage Ratings

Sensitivity $I_{\Delta n}$	30 mA
Tripping Time at $I_{\Delta n}$	< 40 ms
RCD Type	A
Nominal Current Rating at 30 °C	40 - 63 A
Poles	1P + N / 3P + N
Switched Neutral	Yes
Frequency	50 / 60 Hz
Power Supply	Top / Bottom
Maximum Service Voltage U_{bmax}	265 / 455 V AC
Minimum Service Voltage U_{bmin}	117 / 205 V AC
Isolator Application	IEC 60947-2 Yes
Rated Insulation Voltage	Pollution Degree 2 500 V
Impulse Withstand Test Voltage	6 kV
Insulation Resistance	1000 mOhm
Dielectric Rigidity	2500 V

Environmental

Vibration Resistance (IEC 77 / 16.3) (in x, y, z direction)	1.5 g	
Endurance	Electrical at U_n , I_n	10000 cycles
	Mechanical	20000 cycles
Utilisation Category (IEC 60947-2)		
Protection Degree	Outside	IP20
	Inside	IP40
Self-extinguish Degree (According to UL94)	UL 94 V-2	
Tropicalisation (IEC60068-2 / DIN 40046)	+55 °C / 95 % RH	
Operating Temperature	-5 °C / +55 °C	
Storage Temperature	-25 °C / +70 °C	

Connection

Rigid Cable Min / Max (Top)	1.5 mm ² / 50 mm ²	
Flexible Cable Min / Max (Top)	1.5 mm ² / 35 mm ²	
Rigid Cable Min / Max (Bottom)	1.5 mm ² / 50 mm ²	
Flexible Cable Min / Max (Bottom)	1.5 mm ² / 35 mm ²	
Torque (Top / Bottom)	5 / 5 Nm	
Busbar	Connection Top	Fork / Pin
	Connection Bottom	Fork / Pin

Physical

Dimensions (H x W x D)	1P + N	86 x 36 x 76 mm
	3P + N	86 x 72 x 76 mm
Weight	0.25 / 0.368 kg	
Package	1 module	

Short-Circuit Capacity

IEC 61008-1	Rated Making and Breaking Capacity (I_m)	500	A
	Residual Making and Breaking Capacity ($I_{\Delta m}$)	500	A
	Conditional Short-Circuit Capacity (I_{nc})	10	kA
	Conditional Residual Short-Circuit Capacity ($I_{\Delta c}$)	6	kA

Power Loss

In (A)	Energy Loss P _w (W)	Resistance Z (mOhm)
40	3.43	2.15
63	5.15	1.3

MOD6 RCBO1 6kA Panelboard Model - 1 Pole Width

(Longbody with Pigtail)



- ✓ Complies with AS/NZS 61009 (RCBOs)
- ✓ MOD6 RCBOs feature 6 kA short circuit rating
- ✓ Single screw RCBO features a neutral pigtail saving cable and installation time
- ✓ Type A RCD
- ✓ 30 mA sensitivity general personnel protection applications
- ✓ C trip curve for general light and power applications
- ✓ Fast connection pin / fork busbar comb or busbar chassis
- ✓ Suits Concept One Panelboards
- ✓ Approval No. NSW17482 or RCM
- ✓ For commercial applications



General

Tripping Characteristics	C
Sensitivity $I_{\Delta n}$	30 mA
RCD Type	A
Nominal Current Rating at 30 °C	10 - 32 A
Poles	1P + N
Switched Neutral	No

Short Circuit

I_{cn} 230 1P	6000
$I_{\Delta m}$	6000

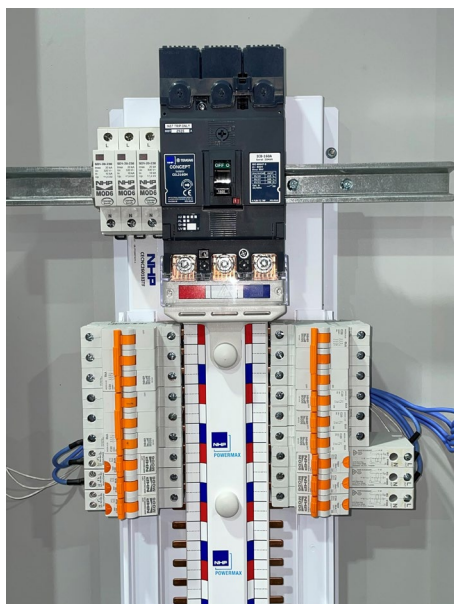
Voltage

Frequency	50 / 60 Hz
Maximum Service Voltage U_{bmax}	255 V AC
Minimum Service Voltage U_{bmin}	195

Connections

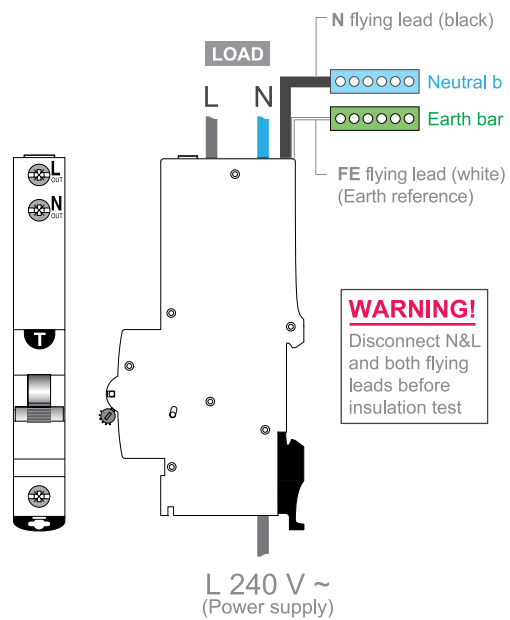
Maximum Cable Size	Rigid / Flexible (Top)	25 mm ² / 16 mm ²
	Rigid / Flexible (Bottom)	35 mm ² / 25 mm ²

Application

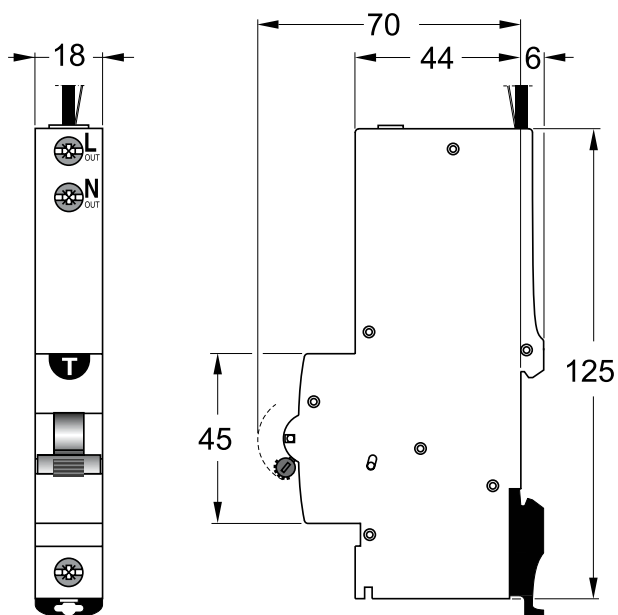


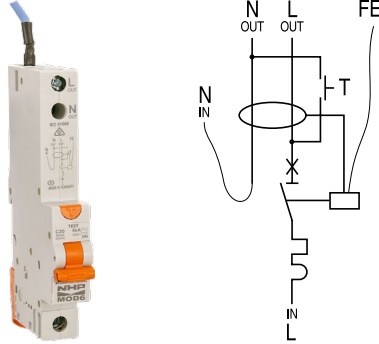
Light commercial general light and power applications. Suitable for use in Concept One Panelboards.

Connection



Dimensions





Sensitivity (mA)	Amps (In)	Width (mm)	Type A (Switched Neutral)
30	10	18	MOD6RCBO11030AL
30	16	18	MOD6RCBO11630AL
30	20	18	MOD6RCBO12030AL
30	25	18	MOD6RCBO12530AL
30	32	18	MOD6RCBO13230AL



Voltage Ratings

Sensitivity $I_{\Delta n}$	30 mA	
Tripping Time at $I_{\Delta n}$	< 40 ms	
RCD Type	A	
Nominal current rating at 30 °C	10 - 32 A	
Poles	1P + N	
Switched Neutral	No	
Frequency	50 / 60 Hz	
Power Supply	Bottom	
Maximum Service Voltage U_{bmax}	255 V AC	
Minimum Service Voltage U_{bmin}	195 V AC	
Isolator Application	IEC 60947-2 Yes	
Rated Insulation Voltage	Pollution Degree 2	500 V
	Pollution Degree 3	440 V
Impulse Withstand Test Voltage	6 kV	
Insulation Resistance	1000 mOhm	
Dielectric Rigidity	2500 V	

Environmental

Vibration Resistance (IEC 77 / 16.3) (in x, y, z direction)	2 g	
Endurance	Electrical at U_n, I_n	10000 cycles
	Mechanical	20000 cycles
Utilisation Category (IEC 60947-2)	-	
Protection Degree	Outside	IP20
	Inside	IP40
Self-extinguish Degree (According to UL94)	UL 94 V-2	
Tropicalisation (IEC60068-2 / DIN 40046)	+55 °C / 95 % RH	
Operating Temperature	-5 °C / +55 °C	
Storage Temperature	-25 °C / +70 °C	

Connection

Rigid Cable Min / Max (Top)	1 mm ² / 25 mm ²	
Flexible Cable Min / Max (Top)	1 mm ² / 16 mm ²	
Rigid Cable Min / Max (Bottom)	1 mm ² / 35 mm ²	
Flexible Cable Min / Max (Bottom)	1 mm ² / 25 mm ²	
Torque (Top / Bottom)	3 / 4.5 Nm	
Busbar	Connection Top	
	Connection Bottom	Fork / Pin

Physical

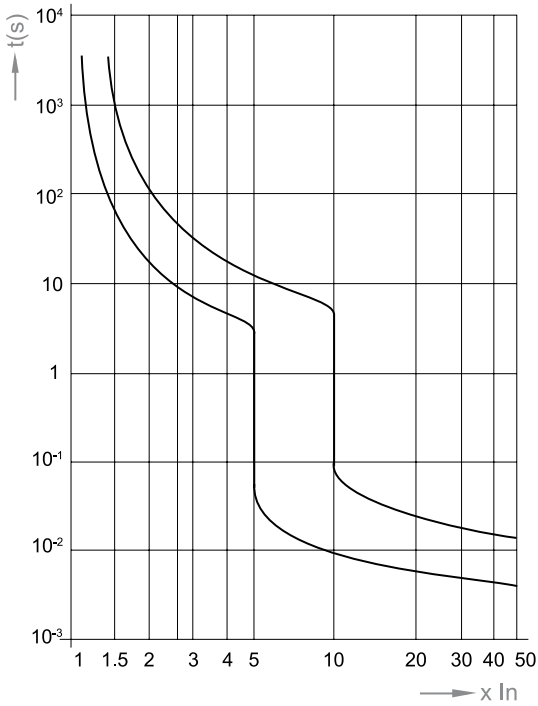
Dimensions (H x W x D)	1P + N	125 x 18 x 76 mm
Weight		0.235 kg
Package		1 module

Short-Circuit Capacity

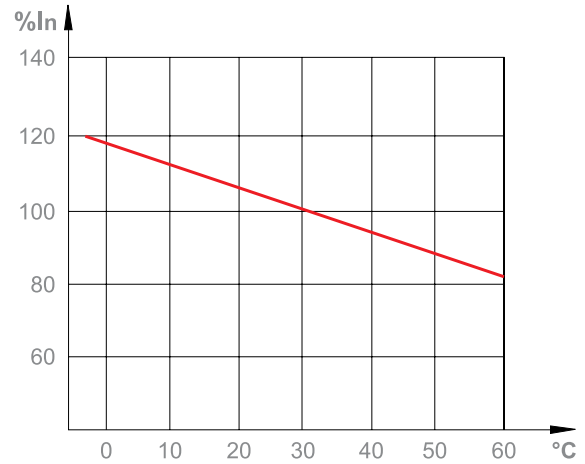
IEC 61009-1	Rated Making and Breaking Capacity (I_m)	500	A
	Residual Making and Breaking Capacity ($I_{\Delta m}$)	6000	A
	Conditional Short-Circuit Capacity (I_{nc})	6	kA
	Conditional Residual Short-Circuit Capacity ($I_{\Delta c}$)	6	kA
	Rated Short-Circuit Capacity (I_{cn})	6	kA



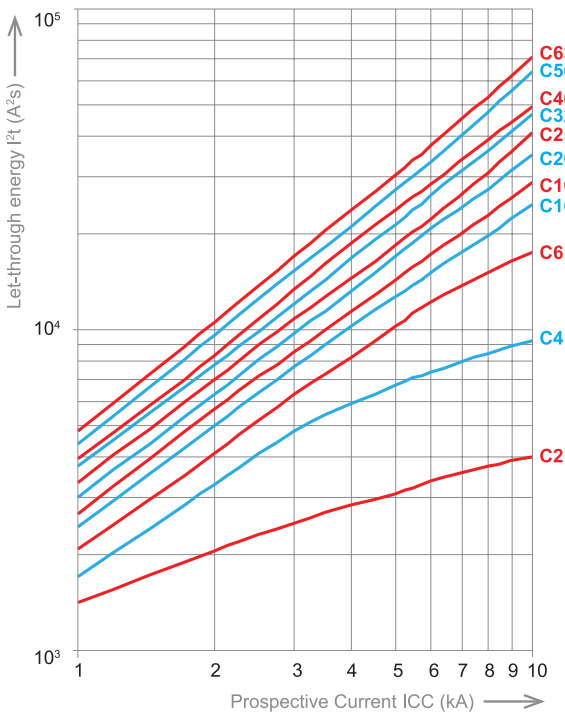
C-Curve Characteristics



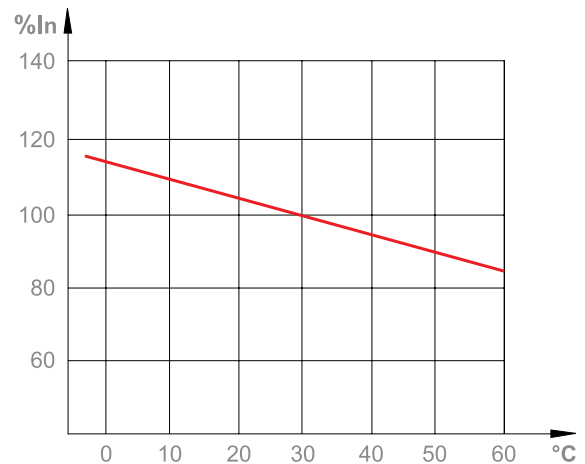
Ambient Temperature Influence at 10 A



Let-through Energy I²t (A²s) C-Curve



Ambient Temperature Influence at 16-32 A



Power Loss

In (A)	Energy Loss Pw (W)	Resistance Z (mOhm)	Voltage Drop (V)
10	1.56	15.6	0.16
16	2.566	10.1	0.162
20	2.76	6.9	0.138
25	3.188	5.1	0.128
32	3.188	3	0.096
40	4	2.5	0.1

MOD6 Compact RCBO 6kA (RCBS) Loadcentre / Panelboard Model

(with Pigtail)



- ✓ Complies with AS/NZS 61009 (RCBOs)
- ✓ MOD6 RCBOs feature 6 kA short circuit rating
- ✓ Compact single screw RCBO features a neutral pigtail saving cable and installation time
- ✓ Type A RCD with switched neutral
- ✓ 30 mA sensitivity general personnel protection applications
- ✓ 10 mA sensitivity option for higher risk applications
- ✓ C trip curve for general light and power applications
- ✓ Fast connection pin / fork busbar comb or busbar chassis
- ✓ Suits pole-covers, loadcentres and Concept One Panelboards
- ✓ Approval No. NSW24576 or RCM
- ✓ Energy Safe Victoria (ESV) compliant for residential applications
- ✓ 10 mA units compliant with Type 1 requirements



General

Tripping Characteristics	C
Sensitivity $I\Delta n$	10, 30 mA
RCD Type	A
Nominal Current Rating at 30 °C	6 - 32 A
Poles	1P + N
Switched Neutral	Yes

Short Circuit

I_{cn} 230 1P	6000
$I\Delta m$	6000

Voltage

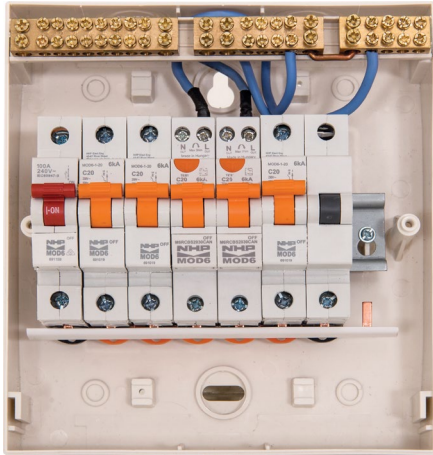
Frequency	50 / 60 Hz
Maximum Service Voltage U_{bmax}	255 V AC
Minimum Service Voltage U_{bmin}	195

Connections

Maximum Cable Size	Rigid / Flexible (Top)	25 mm ² / 16 mm ²
	Rigid / Flexible (Bottom)	35 mm ² / 25 mm ²

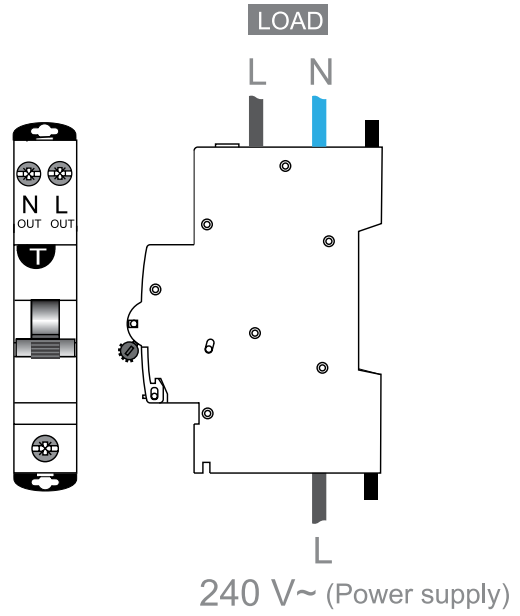


Application

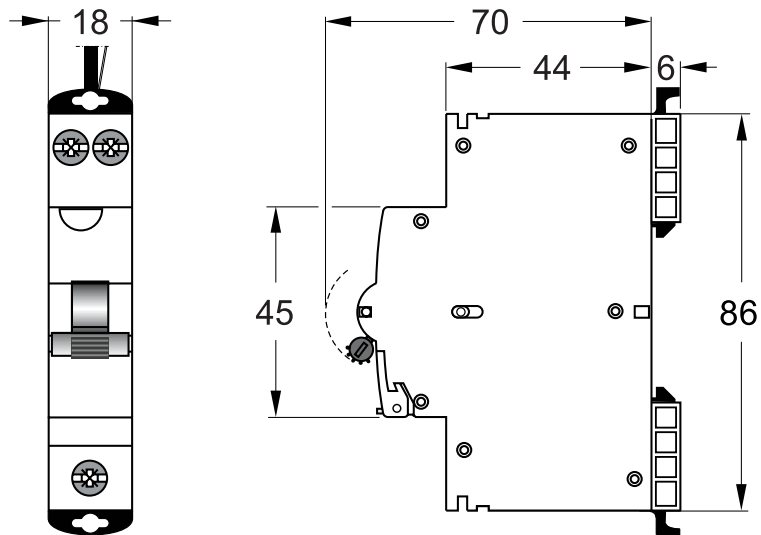


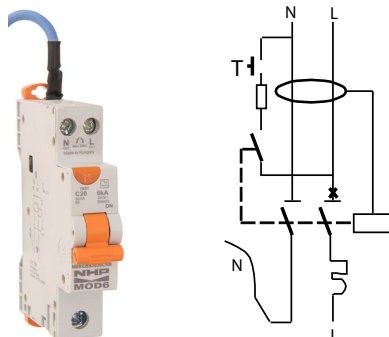
Light commercial general light and power applications. Suitable for use in loadcentres and Concept One Panelboards.

Connection



Dimensions





Sensitivity (mA)	Amps (In)	Width (mm)	Type A (Switched Neutral)
10	6	18	M6RCBS0610CAN
10	10	18	M6RCBS1010CAN
10	16	18	M6RCBS1610CAN
10	20	18	M6RCBS2010CAN
10	25	18	M6RCBS2510CAN
10	32	18	M6RCBS3210CAN
30	6	18	M6RCBS0630CAN
30	10	18	M6RCBS1030CAN
30	16	18	M6RCBS1630CAN
30	20	18	M6RCBS2030CAN
30	25	18	M6RCBS2530CAN
30	32	18	M6RCBS3230CAN

Voltage Ratings

Sensitivity $I_{\Delta n}$	10, 30 mA	
Tripping Time at $I_{\Delta n}$	< 40 ms	
RCD Type	A	
Nominal current rating at 30 °C	6 - 32 A	
Poles	1P + N	
Switched Neutral	Yes	
Frequency	50 / 60 Hz	
Power Supply	Top / Bottom	
Maximum Service Voltage U_{bmax}	255 V AC	
Minimum Service Voltage U_{bmin}	195 V AC	
Isolator Application	IEC 60947-2	Yes
Rated Insulation Voltage	Pollution Degree 2	500 V
	Pollution Degree 3	440 V
Impulse Withstand Test Voltage	6 kV	
Insulation Resistance	1000 mOhm	
Dielectric Rigidity	2500 V	

Environmental

Vibration Resistance (IEC 77 / 16.3) (in x, y, z direction)	1.5 g	
Endurance	Electrical at U_n, I_n	10000 cycles
	Mechanical	20000 cycles
Utilisation Category (IEC 60947-2)	-	
Protection Degree	Outside	IP20
	Inside	IP40
Self-extinguish Degree (According to UL94)	UL 94 V-2	
Tropicalisation (IEC60068-2 / DIN 40046)	+55 °C / 95 % RH	
Operating Temperature	-5 °C / +55 °C	
Storage Temperature	-25 °C / +70 °C	

Connection

Rigid Cable Min / Max (Top)	1 mm ² / 25 mm ²	
Flexible Cable Min / Max (Top)	1 mm ² / 16 mm ²	
Rigid Cable Min / Max (Bottom)	1.5 mm ² / 35 mm ²	
Flexible Cable Min / Max (Bottom)	1.5 mm ² / 25 mm ²	
Torque (Top / Bottom)	3 / 4.5 Nm	
Busbar	Connection Top	Fork / Pin
	Connection Bottom	Fork / Pin

Physical

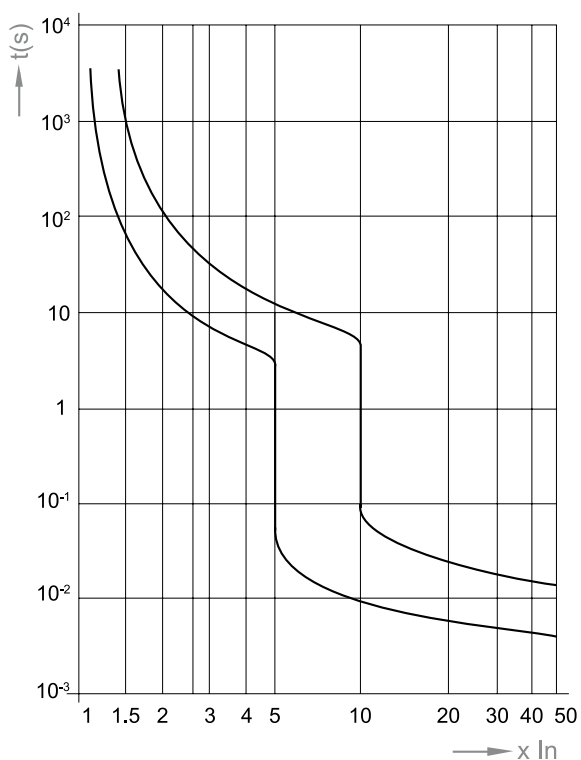
Dimensions (H x W x D)	1P + N	86 x 18 x 76 mm
Weight	0.215 kg	
Package	1 module	

Short-Circuit Capacity

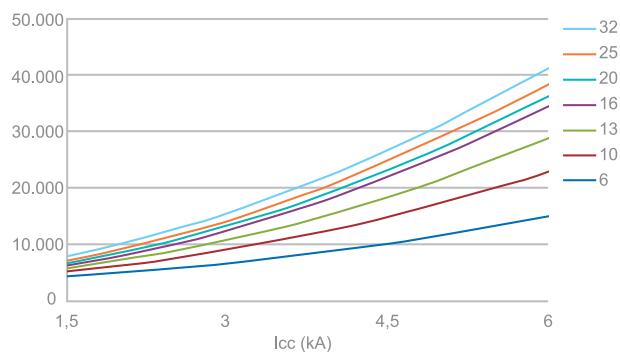
IEC 61009-1	Rated Making and Breaking Capacity (I_m)	500	A
	Residual Making and Breaking Capacity ($I_{\Delta m}$)	6000	A
	Conditional Short-Circuit Capacity (I_{nc})	6	kA
	Conditional Residual Short-Circuit Capacity ($I_{\Delta c}$)	6	kA
	Rated Short-Circuit Capacity (I_{cn})	6	kA



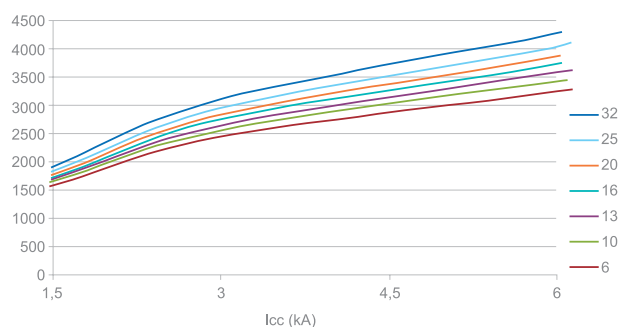
C-Curve Characteristics



Let-through Energy I²t (A²s) C-Curve



Limited Peak Current (kA) at 230 / 400V C-Curve



Power Loss

In (A)	Power Loss (W)		
	Neutral Pole	Phase Pole	IEC60898-1 Limit
6	0.1	1.7	3
10	0.2	1.8	3
16	0.5	2.0	3.5
20	0.7	2.3	4.5
25	1.1	2.6	4.5
32	1.7	3.1	6.0

MOD6 Compact RCBO 6kA (RCBD) Loadcentre Model



- ✓ Complies with AS/NZS 61009 (RCBOs)
- ✓ MOD6 RCBOs feature 6 kA short circuit rating
- ✓ Compact double screw RCBO
- ✓ Type A RCD with switched neutral
- ✓ 30 mA sensitivity general personnel protection applications
- ✓ 10 mA sensitivity option for higher risk applications
- ✓ C trip curve for general light and power applications
- ✓ Fast connection special pin busbar comb
- ✓ Suits pole-covers and loadcentres
- ✓ Approval No. NSW24576 or RCM
- ✓ Energy Safe Victoria (ESV) compliant for residential applications
- ✓ 10 mA units compliant with Type 1 requirements



General

Tripping Characteristics	C
Sensitivity $I\Delta n$	10, 30 mA
RCD Type	A
Nominal Current Rating at 30 °C	6 - 32 A
Poles	1P + N
Switched Neutral	Yes

Short Circuit

I_{cn} 230 1P	6000
$I\Delta m$	6000

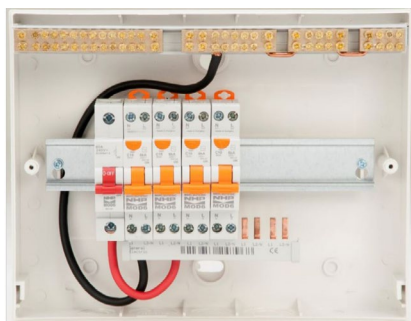
Voltage

Frequency	50 / 60 Hz
Maximum Service Voltage U_{bmax}	255 V AC
Minimum Service Voltage U_{bmin}	195

Connections

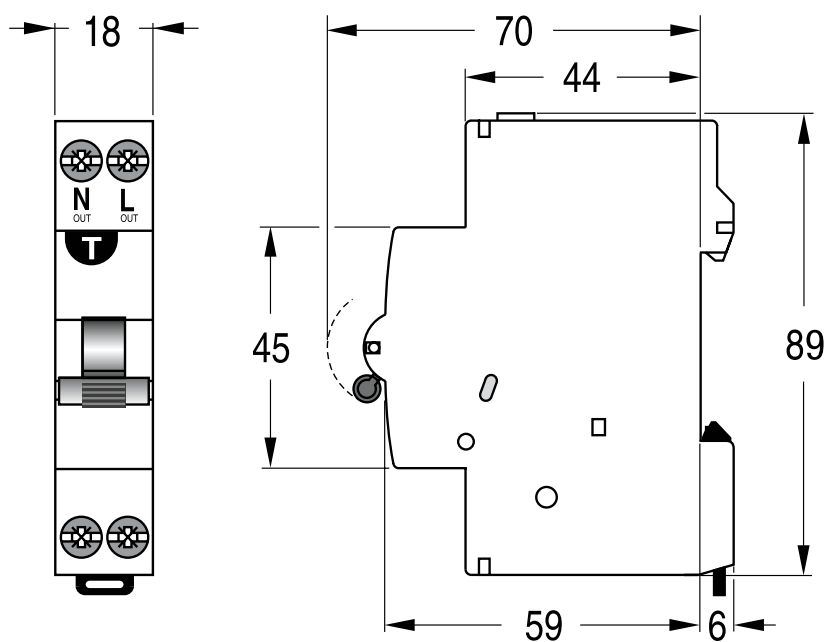
Maximum Cable Size	Rigid / Flexible (Top)	25 mm ² / 16 mm ²
	Rigid / Flexible (Bottom)	25 mm ² / 16 mm ²

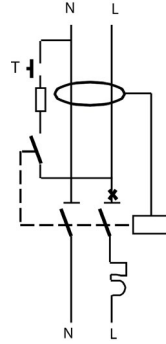
Application



Residential, domestic and light commercial general light and power applications including 10 mA unit for home care medical equipment. Suitable for use in MOD6 pole-covers and MOD6 loadcentres.

Dimensions





Sensitivity (mA)	Amps (In)	Width (mm)	Type A (Switched Neutral)
10	6	18	M6RCBD0610CAN
10	10	18	M6RCBD1010CAN
10	16	18	M6RCBD1610CAN
10	20	18	M6RCBD2010CAN
10	25	18	M6RCBD2510CAN
10	32	18	M6RCBD3210CAN
30	6	18	M6RCBD0630CAN
30	10	18	M6RCBD1030CAN
30	16	18	M6RCBD1630CAN
30	20	18	M6RCBD2030CAN
30	25	18	M6RCBD2530CAN
30	32	18	M6RCBD3230CAN

Voltage Ratings

Sensitivity $I_{\Delta n}$	10, 30 mA	
Tripping Time at $I_{\Delta n}$	< 40 ms	
RCD Type	A	
Nominal current rating at 30 °C	6 - 32 A	
Poles	1P + N	
Switched Neutral	Yes	
Frequency	50 / 60 Hz	
Power Supply	Top / Bottom	
Maximum Service Voltage U_{bmax}	255 V AC	
Minimum Service Voltage U_{bmin}	195 V AC	
Isolator Application	IEC 60947-2	Yes
Rated Insulation Voltage	Pollution Degree 2	500 V
	Pollution Degree 3	440 V
Impulse Withstand Test Voltage	6 kV	
Insulation Resistance	1000 mOhm	
Dielectric Rigidity	2500 V	

Environmental

Vibration Resistance (IEC 77 / 16.3) (in x, y, z direction)	2 g	
Endurance	Electrical at U_n, I_n	10000 cycles
	Mechanical	20000 cycles
Utilisation Category (IEC 60947-2)		
Protection Degree	Outside	IP20
	Inside	IP40
Self-extinguish Degree (According to UL94)	UL 94 V-2	
Tropicalisation (IEC60068-2 / DIN 40046)	+55 °C / 95 % RH	
Operating Temperature	-5 °C / +55 °C	
Storage Temperature	-25 °C / +70 °C	

Connection

Rigid Cable Min / Max (Top)	1 mm ² / 25 mm ²	
Flexible Cable Min / Max (Top)	1.5 mm ² / 16 mm ²	
Rigid Cable Min / Max (Bottom)	1 mm ² / 25 mm ²	
Flexible Cable Min / Max (Bottom)	1.5 mm ² / 16 mm ²	
Torque (Top / Bottom)	3 / 3 Nm	
Busbar	Connection Top	Pin
	Connection Bottom	Pin

Physical

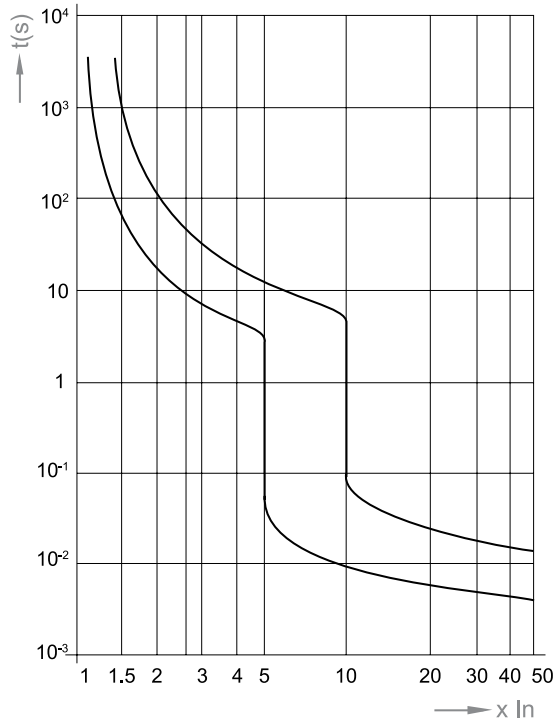
Dimensions (H x W x D)	1P + N	86 x 18 x 76 mm
Weight	0.125 kg	
Package	1 module	

Short-Circuit Capacity

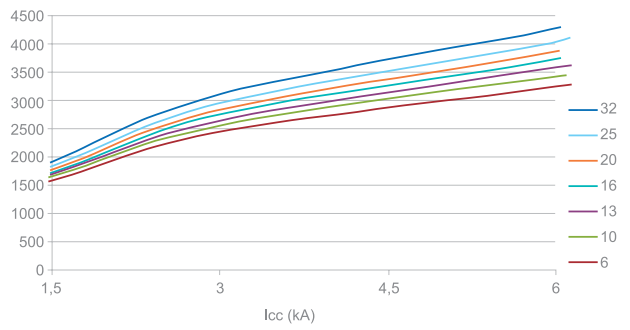
IEC 61009-1	Rated Making and Breaking Capacity (I_m)	500	A
	Residual Making and Breaking Capacity ($I_{\Delta m}$)	6000	A
	Conditional Short-Circuit Capacity (I_{nc})	6	kA
	Conditional Residual Short-Circuit Capacity ($I_{\Delta c}$)	6	kA
	Rated Short-Circuit Capacity (I_{cn})	6	kA



C-Curve Characteristics



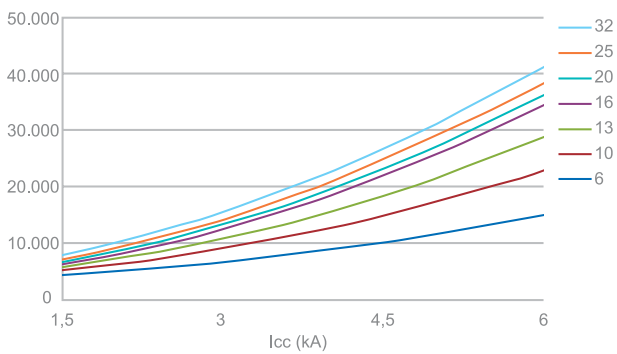
Limited Peak Current (kA) at 230 / 400V C-Curve



Power Loss

In (A)	Power Loss (W)		
	Neutral Pole	Phase Pole	IEC60898-1 Limit
6	0.1	1.7	3
10	0.2	1.8	3
16	0.5	2.0	3.5
20	0.7	2.3	4.5
25	1.1	2.6	4.5
32	1.7	3.1	6.0

Let-through Energy I²t (A²s) C-Curve



MOD6 RCBO2 6kA 2 Pole Width



- ✓ Complies with AS/NZS 61009 (RCBOs)
- ✓ MOD6 RCBOs feature 6 kA short circuit rating
- ✓ Type A RCD with switched neutral
- ✓ 30 mA sensitivity general personnel protection applications
- ✓ 10 mA sensitivity option for higher risk applications
- ✓ C trip curve for general light and power applications
- ✓ Fast connection pin / fork busbar comb
- ✓ Suits pole-covers and loadcentres
- ✓ Approval No. NSW17482 or RCM
- ✓ Energy Safe Victoria (ESV) compliant for residential applications
- ✓ 10 mA units compliant with Type 1 requirements



General

Tripping Characteristics	C
Sensitivity $I\Delta n$	10, 30 mA
RCD Type	A
Nominal Current Rating at 30 °C	6 - 40 A
Poles	1P + N
Switched Neutral	Yes

Short Circuit

$I_{cn} 230 1P$	6000
$I\Delta m$	6000

Voltage

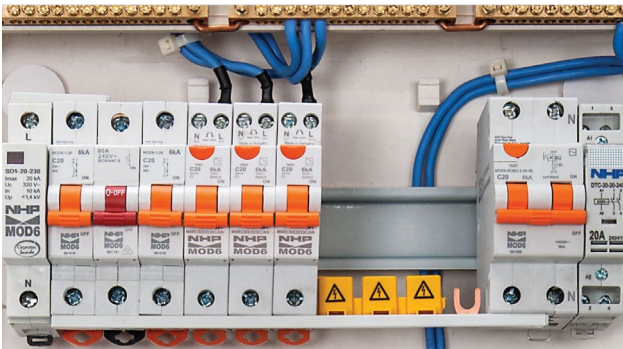
Frequency	50 / 60 Hz
Maximum Service Voltage U_{bmax}	255 V AC
Minimum Service Voltage U_{bmin}	176

Connections

Maximum Cable Size	Rigid / Flexible (Top)	25 mm ² / 16 mm ²
	Rigid / Flexible (Bottom)	35 mm ² / 25 mm ²



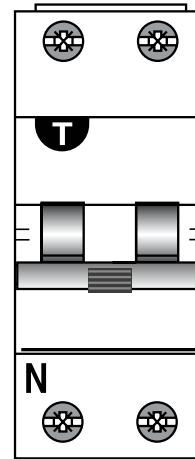
Application



Residential, domestic and light commercial general light and power applications including 10 mA unit for home care medical equipment. Suitable for use in MOD6 pole-covers and MOD6 loadcentres.

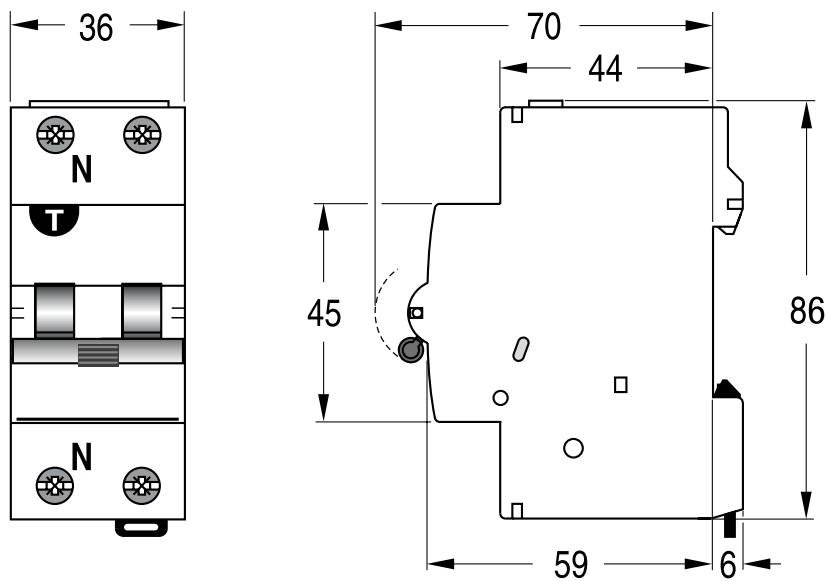
Connection

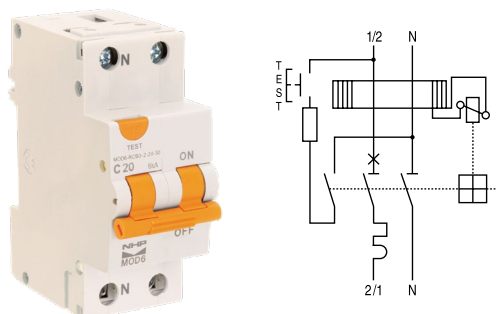
Neutral Active



Neutral Active

Dimensions





Sensitivity (mA)	Amps (In)	Width (mm)	Type A (Switched Neutral)
10 mA	6	36	MOD6RCBO20610A
10 mA	10	36	MOD6RCBO21010A
10 mA	16	36	MOD6RCBO21610A
10 mA	20	36	MOD6RCBO22010A
30 mA	10	36	MOD6RCBO21030A
30 mA	16	36	MOD6RCBO21630A
30 mA	20	36	MOD6RCBO22030A
30 mA	25	36	MOD6RCBO22530A
30 mA	32	36	MOD6RCBO23230A
30 mA	40	36	MOD6RCBO24030A

Voltage Ratings

Sensitivity $I_{\Delta n}$	10, 30 mA	
Tripping Time at $I_{\Delta n}$	< 40 ms	
RCD Type	A	
Nominal current rating at 30 °C	6 - 40A	
Poles	1P + N	
Switched Neutral	Yes	
Frequency	50 / 60 Hz	
Power Supply	Top / Bottom	
Maximum Service Voltage U_{bmax}	255 V AC	
Minimum Service Voltage U_{bmin}	176 V AC	
Isolator Application	IEC 60947-2	Yes
Rated Insulation Voltage	Pollution Degree 2	500 V
	Pollution Degree 3	440 V
Impulse Withstand Test Voltage	6 kV	
Insulation Resistance	1000 mOhm	
Dielectric Rigidity	2500 V	

Environmental

Vibration Resistance (IEC 77 / 16.3) (in x, y, z direction)	1.5 g	
Endurance	Electrical at U_n, I_n	10000 cycles
	Mechanical	20000 cycles
Utilisation Category (IEC 60947-2)	-	
Protection Degree	Outside	IP20
	Inside	IP40
Self-extinguish Degree (According to UL94)	UL 94 V-2	
Tropicalisation (IEC60068-2 / DIN 40046)	+55 °C / 95 % RH	
Operating Temperature	-5 °C / +55 °C	
Storage Temperature	-25 °C / +70 °C	

Connection

Rigid Cable Min / Max (Top)	1 mm ² / 25 mm ²	
Flexible Cable Min / Max (Top)	1 mm ² / 16 mm ²	
Rigid Cable Min / Max (Bottom)	1 mm ² / 35 mm ²	
Flexible Cable Min / Max (Bottom)	1 mm ² / 25 mm ²	
Torque (Top / Bottom)	3 / 4 Nm	
Busbar	Connection Top	Fork / Pin
	Connection Bottom	Fork / Pin

Physical

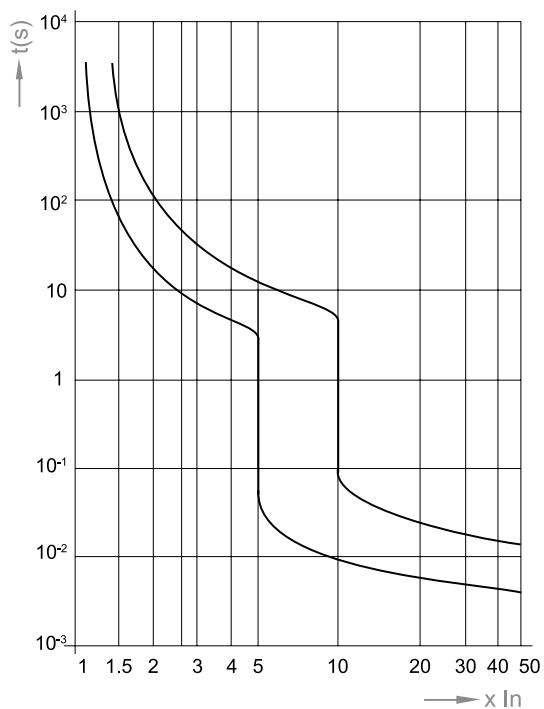
Dimensions (H x W x D)	1P + N	86 x 36 x 76 mm
Weight	0.25 kg	
Package	1 module	

Short-Circuit Capacity

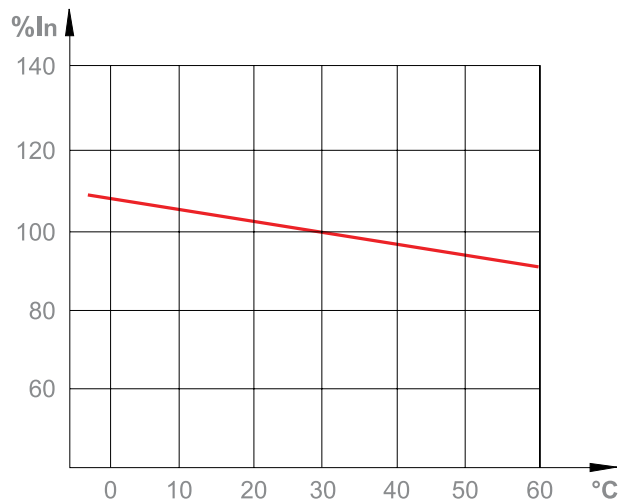
IEC 61009-1	Rated Making and Breaking Capacity (I_m)	320	A
	Residual Making and Breaking Capacity ($I_{\Delta m}$)	6000	A
	Conditional Short-Circuit Capacity (I_{nc})	6	kA
	Conditional Residual Short-Circuit Capacity ($I_{\Delta c}$)	6	kA
	Rated Short-Circuit Capacity (I_{cn})	6	kA



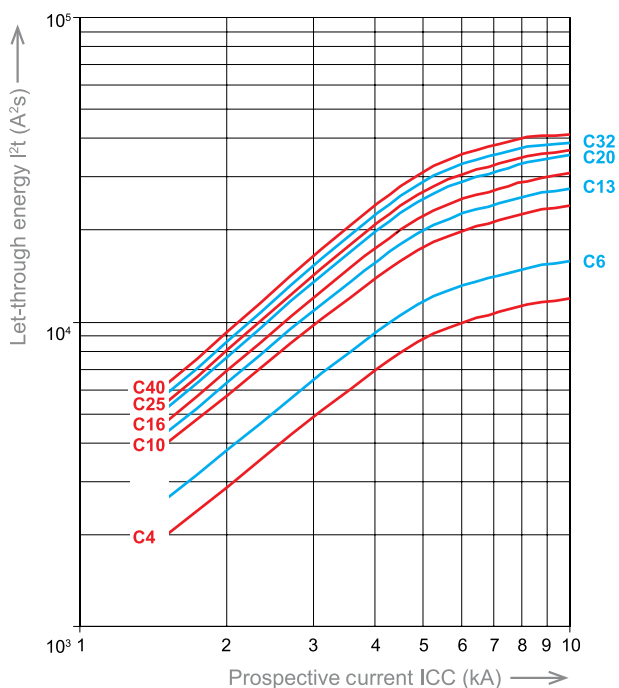
C-Curve Characteristics



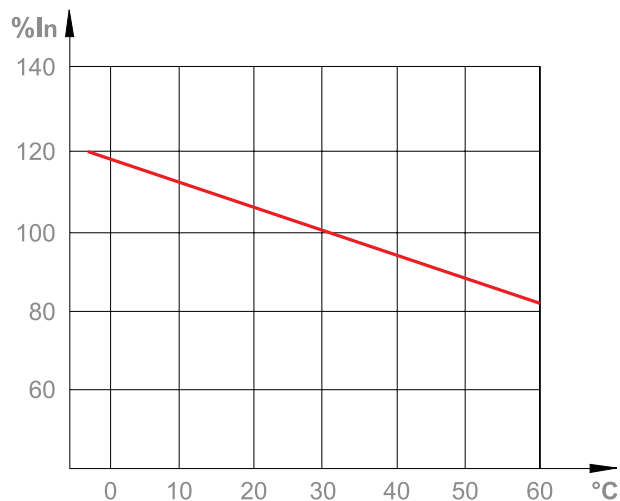
Ambient Temperature Influence at 6 A



Let-through Energy I^2t (A²s)

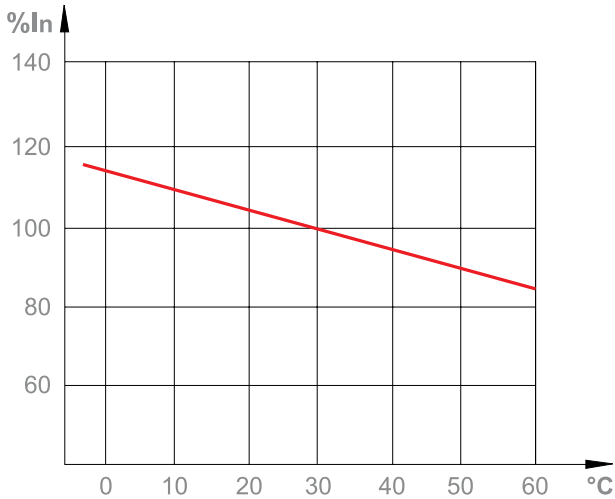


Ambient Temperature Influence at 10 A





Ambient Temperature Influence at 16-32 A



Power Loss

In (A)	Energy Loss Pw (W)	Resistance Z (mOhm)
6	1.91	53
10	1.63	16.3
16	2.51	9.8
20	2.84	7.1
25	3.5	5.6
32	4.81	4.7
40	5.76	3.6

MOD6 RCBO 6 kA (RCBF) 3P+N



- ✓ Complies with AS/NZS 61009-1 (RCBOs)
- ✓ MOD6 RCBOs feature 6kA short circuiting rating
- ✓ Type A RCD with switched neutral
- ✓ 30mA sensitivity general personnel protection applications
- ✓ C trip curve for general light and power applications
- ✓ Fast connection pin busbar comb
- ✓ Blue earth leakage indicator flag
- ✓ Dual incoming and outgoing terminals
- ✓ Suits pole-covers and loadcentres
- ✓ Approval No. RCM
- ✓ Energy Safe Victoria (ESV) compliant for residential applications



General

Tripping Characteristics	C
Sensitivity $I_{\Delta n}$	30 mA
RCD Type	A
Nominal Current Rating at 30 °C	6 - 32 A
Poles	3P + N
Switched Neutral	Yes

Short Circuit

$I_{cn} 230 1P$	6000
$I_{\Delta m}$	4.5

Voltage

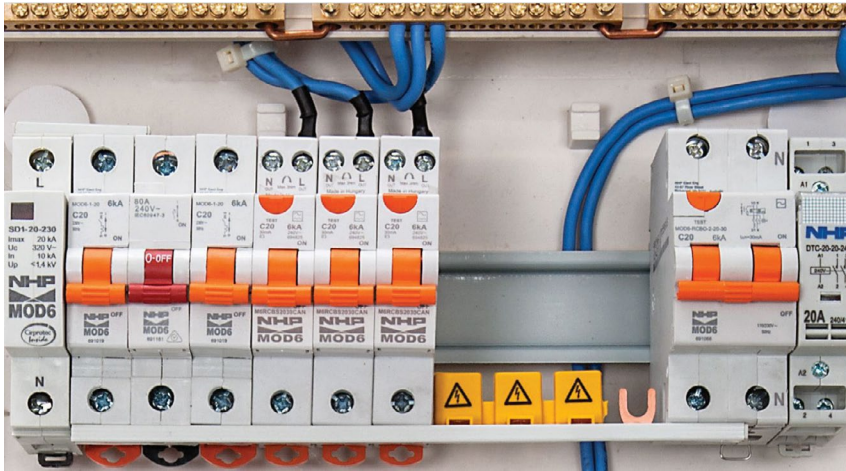
Frequency	50 / 60 Hz
Maximum Service Voltage U_{bmax}	440 V AC
Minimum Service Voltage U_{bmin}	195 V AC

Connections

Maximum Cable Size	Rigid / Flexible (Top)	25 mm ²
	Rigid / Flexible (Bottom)	25 mm ²

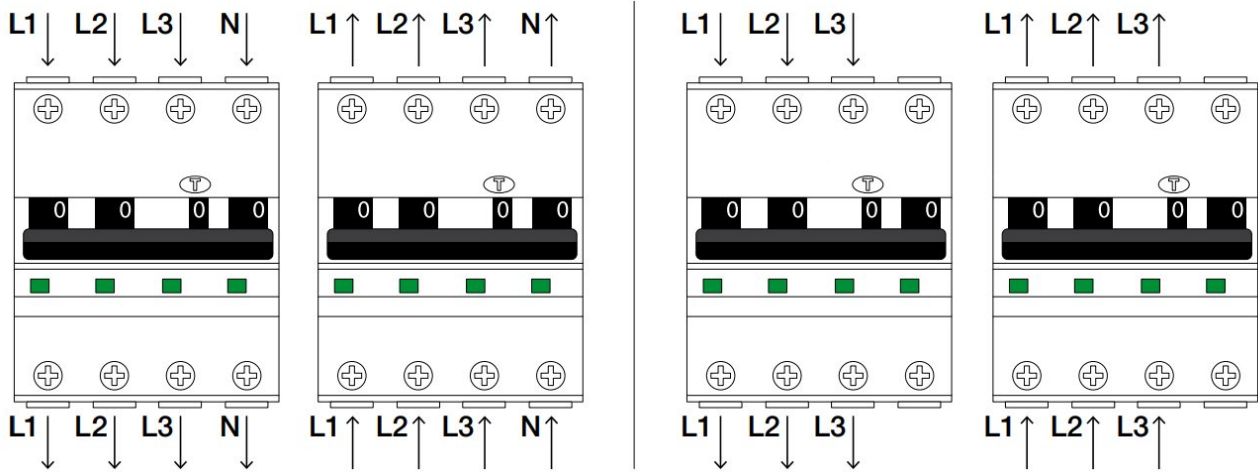


Application

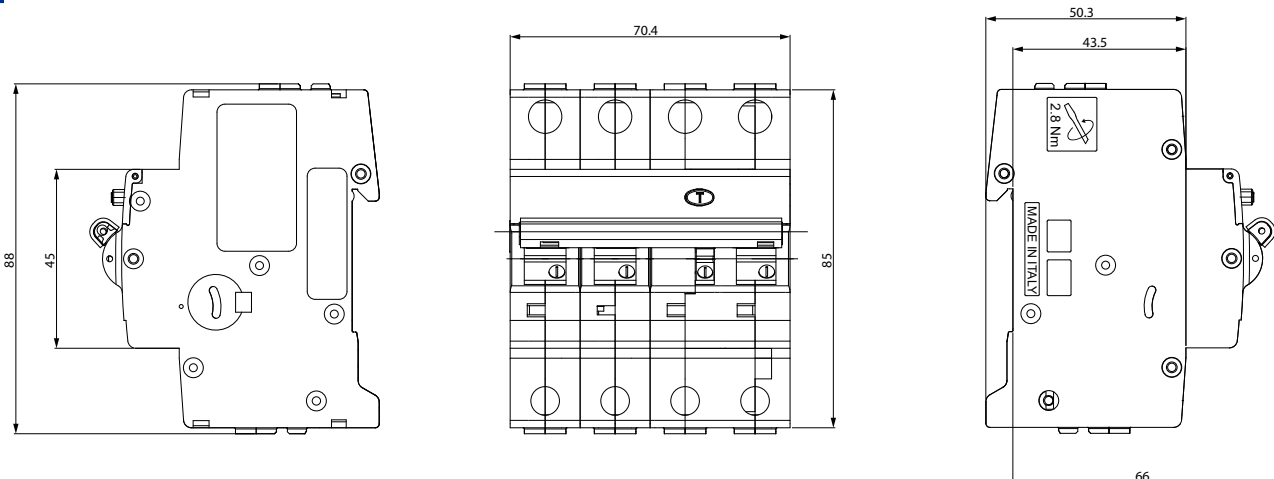


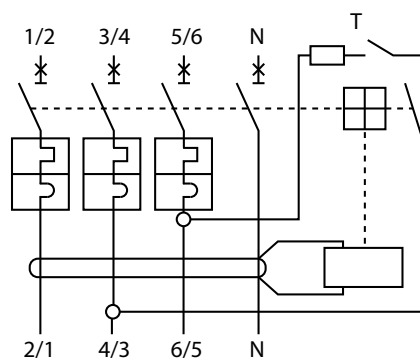
Residential, domestic and light commercial general light and power applications. Suitable for use in MOD6 pole-covers and MOD6 loadcentres.

Connection



Dimensions





I_n (A @ 30 °C)	$I\Delta n$ (mA)	Type A (Switched Neutral)
6	30	M6RCBF0630A
10	30	M6RCBF1030A
16	30	M6RCBF1630A
20	30	M6RCBF2030A
25	30	M6RCBF2530A
32	30	M6RCBF3230A

Voltage Ratings

Sensitivity $I_{\Delta n}$	30 mA
Tripping Time at $I_{\Delta n}$	< 40 ms
RCD Type	A
Nominal current rating at 30 °C	6-32 A
Poles	3P + N
Switched Neutral	Yes
Frequency	50 / 60 Hz
Power Supply	Top / Bottom
Maximum Service Voltage U_{bmax}	440 V AC
Minimum Service Voltage U_{bmin}	195 V AC
Isolator Application	IEC 60947-2 Yes
Rated Insulation Voltage	Pollution Degree 2 500 V
	Pollution Degree 3 –
Impulse Withstand Test Voltage	4 kV
Insulation Resistance	1000 mOhm
Dielectric Rigidity	2500 V

Environmental

Vibration Resistance (IEC 77 / 16.3) (in x, y, z direction)	5 g
Endurance	Electrical at U_n, I_n 10000 cycles
	Mechanical 20000 cycles
Utilisation Category (IEC 60947-2)	-
Protection Degree	Outside IP20
	Inside IP40
Self-extinguish Degree (According to UL94)	UL 94 V-2
Tropicalisation (IEC60068-2 / DIN 40046)	+55 °C / 90-96 % RH
Operating Temperature	-25 °C / +55 °C
Storage Temperature	-40 °C / +70 °C

Connection

Rigid Cable Min / Max (Top)	1 mm ² / 25 mm ²
Flexible Cable Min / Max (Top)	1 mm ² / 25 mm ²
Rigid Cable Min / Max (Bottom)	1 mm ² / 25 mm ²
Flexible Cable Min / Max (Bottom)	1 mm ² / 25 mm ²
Torque (Top / Bottom)	2.8 Nm
Busbar	Connection Top Pin
	Connection Bottom Pin

Physical

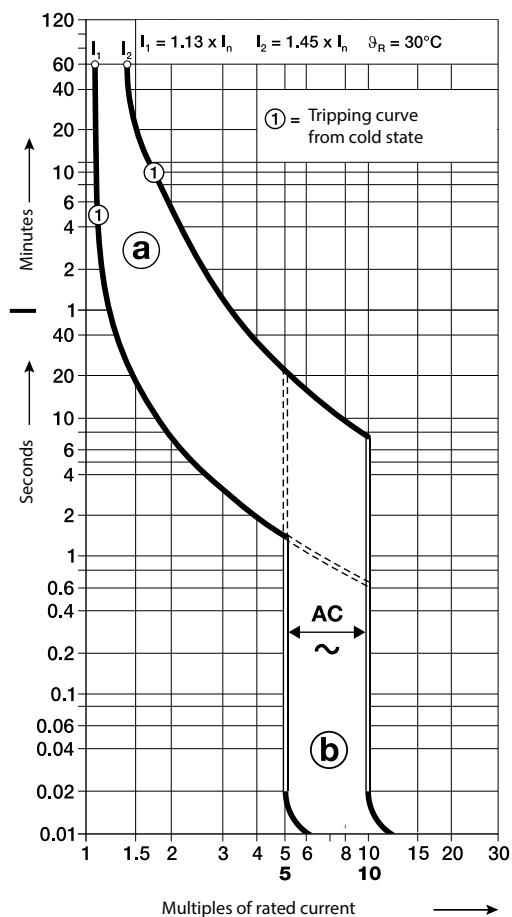
Dimensions (H x W x D)	1P + N	85 x 69 x 70.4 mm
Weight		0.48 kg
Package		1 module

Short-Circuit Capacity

IEC 61009-1	Rated Making and Breaking Capacity (I_m)	320	A
	Residual Making and Breaking Capacity ($I_{\Delta m}$)	4500	A
	Conditional Short-Circuit Capacity (I_{nc})	–	kA
	Conditional Residual Short-Circuit Capacity ($I_{\Delta c}$)	–	kA
	Rated Short-Circuit Capacity (I_{cn})	6	kA



C-Curve Characteristics



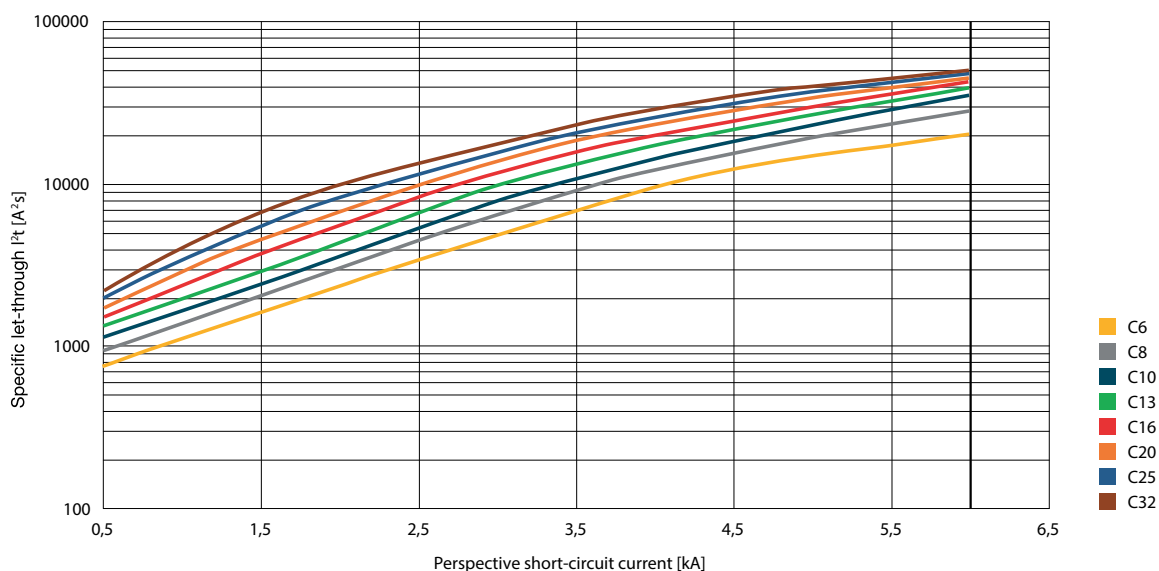
Ⓐ thermal trip Ⓑ electromagnetic trip

Ambient Temperature Influence

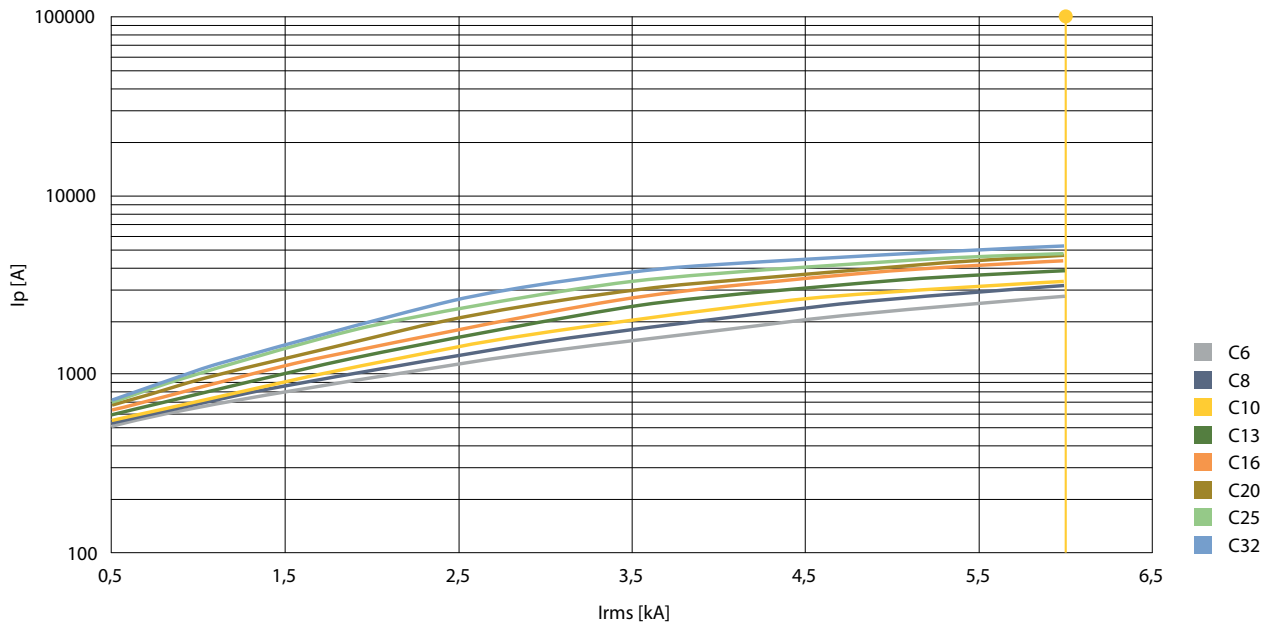
In	Temperature (°C)								
	-25	-20	-10	0	10	20	30	40	55
6 A	7.29	7.16	6.91	6.65	6.41	6.17	6.00	5.90	5.75
10 A	12.13	11.92	11.49	11.06	10.68	10.31	10.00	9.76	9.39
16 A	19.40	19.06	18.37	17.68	17.10	16.52	16.00	15.54	14.85
20 A	23.66	23.32	22.63	21.94	21.26	20.57	20.00	19.53	18.84
25 A	29.00	28.65	27.96	27.27	26.46	25.65	25.00	24.53	23.83
32 A	38.67	38.13	37.04	35.96	34.48	33.00	32.00	31.47	30.67

MCBs and RCBOs

Let-through Energy I^2t (A²s)



Peak Current I_p



Power Loss

I_n (A)	Power loss (W)	Internal resistance (mΩ)
6 A	7.5	207.3
10 A	5.6	55.9
16 A	10.0	39.3
20 A	11.8	29.5
25 A	10.3	16.4
32 A	15.1	14.8

MOD6 M6RCBT 6kA Panelboard Model - 3 Pole Width



- ✓ Complies with AS/NZS 61009 (RCBOs)
- ✓ MOD6 RCBOs feature 6 kA short circuit rating
- ✓ Compact 3P width for easy retrofitting
- ✓ Space saving 54mm width
- ✓ Type A RCD
- ✓ 900mm neutral pigtail saving cable and installation time
- ✓ 30 mA sensitivity general personnel protection applications
- ✓ C trip curve for general light and power applications
- ✓ Fast connection pin / fork busbar comb or busbar chassis
- ✓ Suits Concept One Panelboards
- ✓ Approval No. ESV220008 or RCM
- ✓ For commercial applications



General

Tripping Characteristics	C
Sensitivity $I_{\Delta n}$	30 mA
RCD Type	A
Nominal Current Rating at 30 °C	6 - 63 A
Poles	3P + N
Switched Neutral	No

Short Circuit

I_{cn} 230 1P	6000
$I_{\Delta m}$	6000

Voltage

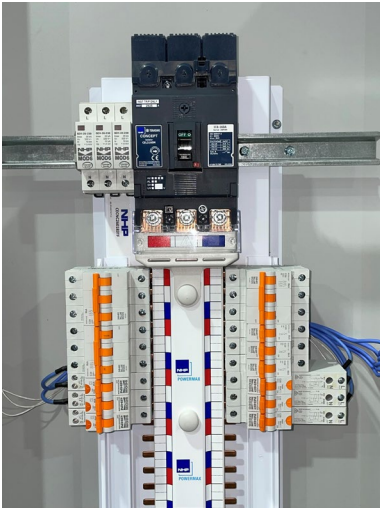
Frequency	50 / 60 Hz
Maximum Service Voltage U_{bmax}	457 V AC
Minimum Service Voltage U_{bmin}	204 V AC

Connections

Maximum Cable Size	Rigid / Flexible (Top)	25 mm ² / 16 mm ²
	Rigid / Flexible (Bottom)	25 mm ² / 16 mm ²

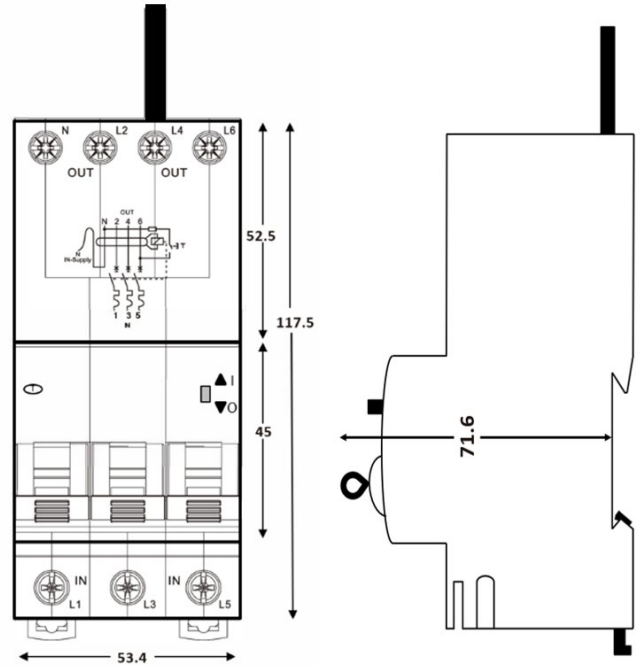


Application

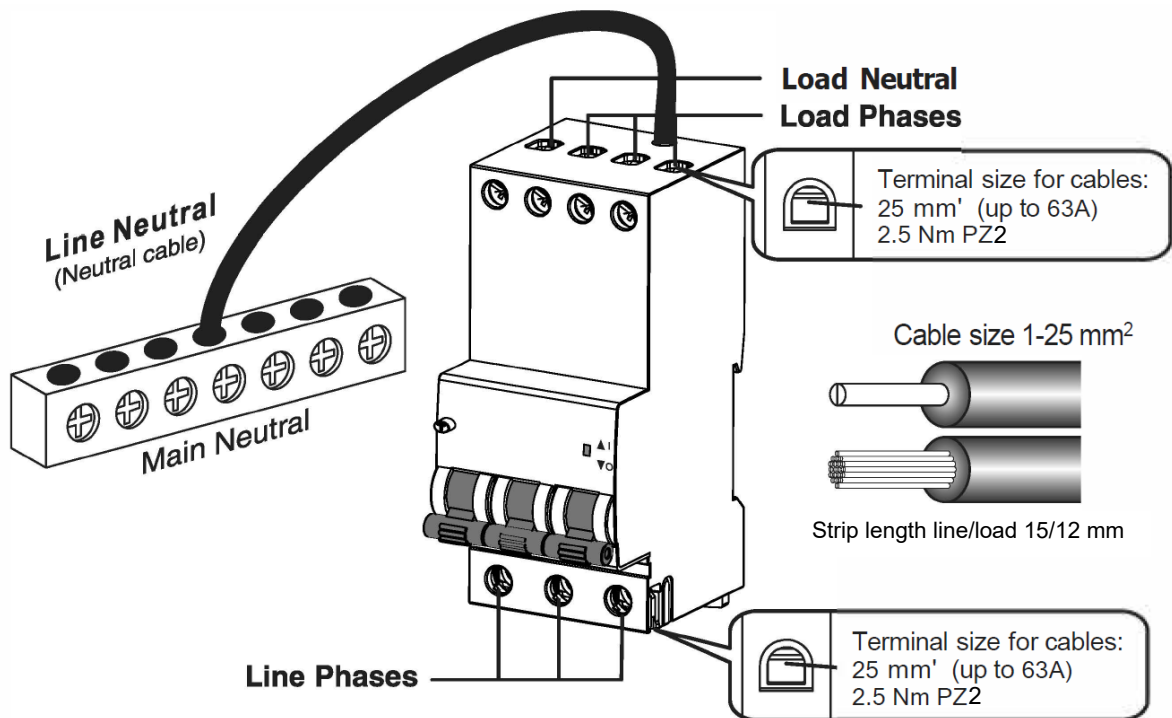


Light commercial general light and power applications. Suitable for use in Concept One Panelboards.

Dimensions



Connection





Sensitivity (mA)	Amps (In)	Width (mm)	Type A
30	6	54	M6RCBT0630A
30	10	54	M6RCBT1030A
30	16	54	M6RCBT1630A
30	20	54	M6RCBT2030A
30	25	54	M6RCBT2530A
30	32	54	M6RCBT3230A
30	40	54	M6RCBT4030A
30	50	54	M6RCBT5030A
30	63	54	M6RCBT6330A

Voltage Ratings

Sensitivity $I_{\Delta n}$	30 mA	
Tripping Time at $I_{\Delta n}$	< 40 ms	
RCD Type	A	
Nominal current rating at 30 °C	6 - 63 A	
Poles	3P + N	
Switched Neutral	No	
Frequency	50 / 60 Hz	
Power Supply	Bottom	
Maximum Service Voltage U_{bmax}	457 V AC	
Minimum Service Voltage U_{bmin}	204 V AC	
Isolator Application	IEC 60947-2	Yes
Rated Insulation Voltage	Pollution Degree 2	500 V
	Pollution Degree 3	–
Impulse Withstand Test Voltage	4 kV	
Insulation Resistance	–	
Dielectric Rigidity	2000 V	

Environmental

Vibration Resistance (IEC 77 / 16.3) (in x, y, z direction)	–	
Endurance	Electrical at U_n, I_n	10000 cycles
	Mechanical	20000 cycles
Utilisation Category (IEC 60947-2)	–	
Protection Degree	Outside	IP20
	Inside	IP40
Self-extinguish Degree (According to UL94)	–	
Tropicalisation (IEC60068-2 / DIN 40046)	+55 °C / 90-96 % RH	
Operating Temperature	-5 °C / +40 °C	
Storage Temperature	-25 °C / +70 °C	

Connection

Rigid Cable Min / Max (Top)	1 mm ² / 25 mm ²	
Flexible Cable Min / Max (Top)	1 mm ² / 16 mm ²	
Rigid Cable Min / Max (Bottom)	1 mm ² / 25 mm ²	
Flexible Cable Min / Max (Bottom)	1 mm ² / 16 mm ²	
Torque (Top / Bottom)	2.5 / 2.5 Nm	
Busbar	Connection Top	–
	Connection Bottom	Fork / Pin

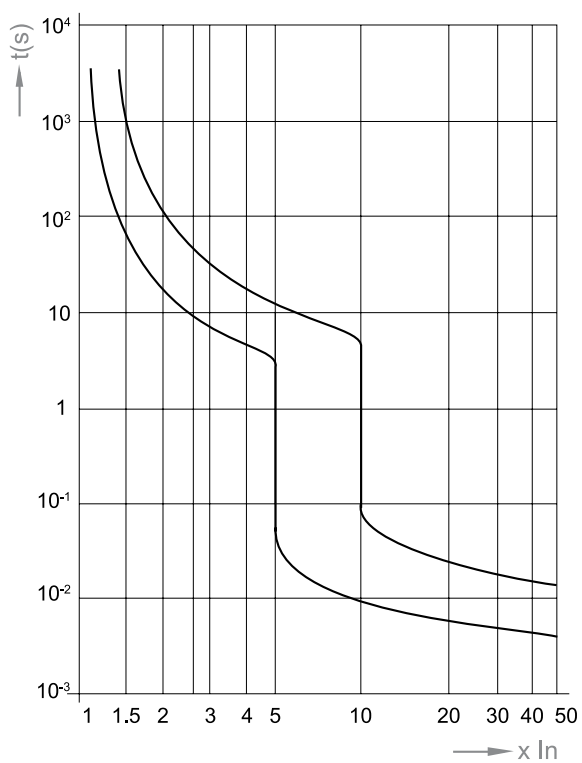
Physical

Dimensions (H x W x D)	1P + N	117 x 54 x 71.6 mm
Weight	0.549 kg	
Package	1 module	

Short-Circuit Capacity

IEC 61009-1	Rated Making and Breaking Capacity (I_m)	–	A
	Residual Making and Breaking Capacity ($I_{\Delta m}$)	6000	A
	Conditional Short-Circuit Capacity (I_{nc})	–	kA
	Conditional Residual Short-Circuit Capacity ($I_{\Delta c}$)	–	kA
	Rated Short-Circuit Capacity (I_{cn})	6	kA

C-Curve Characteristics



Power Loss

In (A)	Energy Loss Pw (W) L/N	Resistance Z (mOhm) L/N
6	1.1 / 0.3	27.3 / 7.7
10	1.9 / 0.7	15.8 / 7.9
16	2.5 / 2.1	9.9 / 7.6
20	2.9 / 3.2	6.7 / 7.5
25	2.8 / 5.2	4.0 / 8.0
32	3.4 / 5.6	2.9 / 5.2
40	4.0 / 8.9	2.6 / 5.3
50	5.0 / 9.0	1.5 / 3.5
63	7.4 / 15.5	1.9 / 3.4

MOD6 Main Switch

1P, 2P and 3P Main Switches

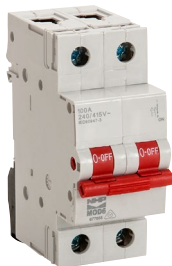
Main Switch to isolate incoming supply or outgoing loads up to 100 A.



Item Description	Catalogue No.
MOD6 Main Switch, DIN Rail, 1P, 80 A	MOD6MS180
MOD6 Main Switch, DIN Rail, 1P, 100 A	MOD6MS1100



Item Description	Catalogue No.
MOD6 Main Switch, DIN Rail, 3P, 100 A	MOD6MS3100

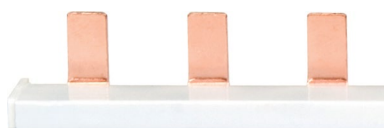


Item Description	Catalogue No.
MOD6 Main Switch, DIN Rail, 2P, 100 A	MOD6MS2100

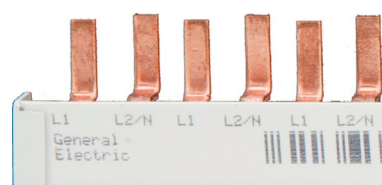
Busbar Comb

IBC, ICL and IBD Busbar Comb

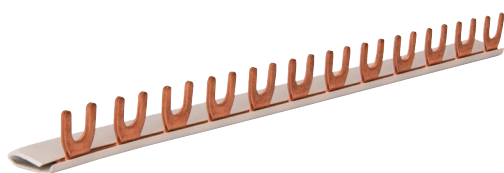
Suitable for linking MOD6 Main Switches, MCBs and RCBOs in MOD6 pole-covers and MOD6 loadcentres. ICL and IBC are suited for regular 18 mm pitch terminals on MSW, MCBs and RCBOs. IBD is suited for 9 mm pitch terminals on 2-in-1 MCBs and M6RCBD RCBOs. Fork Type comb goes under the terminal screw head and Pin Type into the devices main terminal.



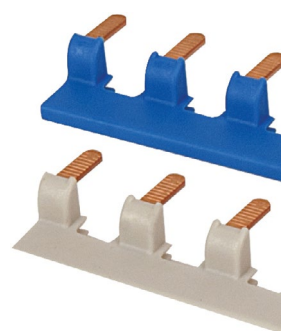
Item Description	Catalogue No.
Busbar Comb, 12 way, 100 A, 1P, Pin type with end caps	IBC112P
Busbar Comb, 15 way, 100 A, 1P, Pin type with end caps	IBC115P
Busbar Comb, 18 way, 100 A, 1P, Pin type with end caps	IBC118P



Item Description	Catalogue No.
Busbar Comb, 18 way, 1P+N, 80 A / 100 A, suits M6RCBD and DTCBD	IBD218P
Busbar Comb, 55 way, 1P+N, 80 A / 100 A, suits M6RCBD and DTCBD	IBD255P



Item Description	Catalogue No.
Busbar Comb, 4 way, 1P, 80 A / 130 A, Fork type	ICL41F
Busbar Comb, 12 way, 1P, 90 A / 150 A, Fork type	ICL121F
Busbar Comb, 18 way, 1P, 80 A / 130 A, Fork type	ICL181F
Busbar Comb, 56 way, 1P, 110 A / 130 A, Fork type	ICL561F
Busbar Comb, 57 way, 3P, 110 A / 130 A, Fork type	ICL573F



Item Description	Catalogue No.
Busbar Comb Kit (blue and grey), 13 way, 63 A, 1P+N, suits M6RCBD	IBD213P

Busbar Comb End Caps

IBC and IBD Busbar End Caps

End caps to cover the end of cut busbar comb.



Item Description	Catalogue No.
Buscomb End Cap to suit 1P IBC	IBCEC1
Buscomb End Cap to suit 2P IBD	IBDEC2
Buscomb End Cap to suit 4P IBD	IBDEC4

General Accessories

Pole Filler, Lock Dogs and Terminals

Lock Dog to securely lock off devices. Pole filler to cover unused spaces in loadcentres and Panelboards. Terminal pins to allow connection of larger cables or multiple cables to a terminal.



Item Description	Catalogue No.
DIN Lock Dog, Non-Captive suits hasp up to 8.0 mm.	DTLD



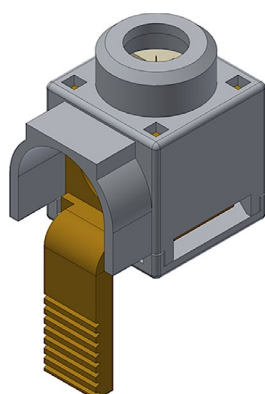
Item Description	Catalogue No.
1 strip of 12 poles (24 x 9 mm segments)	DTPF12



Item Description	Catalogue No.
Terminal 3 x 16 mm neutral link to suit RCCB	DTTAX16PN3



Item Description	Catalogue No.
Terminal Pin 25 mm to suit DIN MCBs	DTTLT25PN2



Item Description	Catalogue No.
Terminal rear connect 25mm pin	DTT9025PN

DIN-T6



- ✓ High speed and rapid arc quenching technology ensuring the highest level of protection is provided
- ✓ DIN rail mounting
- ✓ Free tripping mechanism even if toggle is locked ON or OFF
- ✓ Complies with AS/NZS 60898 and AS/NZS 60947-2 (as applicable)
- ✓ DIN-T6 MCBs feature 6 kA short circuit rating
- ✓ C curve for general light, power and motor starting applications
- ✓ D trip curve for high inrush, motor starting and transformer applications
- ✓ Pad lockable and sealable toggle restricts unauthorized action
- ✓ Large capacity terminals
- ✓ Fast connection pin / fork busbar comb or NC or GB busbar chassis
- ✓ Suits pole-covers, loadcentres and the Concept range of Panelboards
- ✓ Approval No. N17481 or RCM



General

Tripping Characteristics	C, D
Nominal Current Rating At 30 °C	2 - 63 A
Poles	1P / 2P / 3P
Neutral Pole Protected	Yes

Short Circuit

Icn 230 / 400 V 1P / 2P / 3P	6 / 6 / 6 kA
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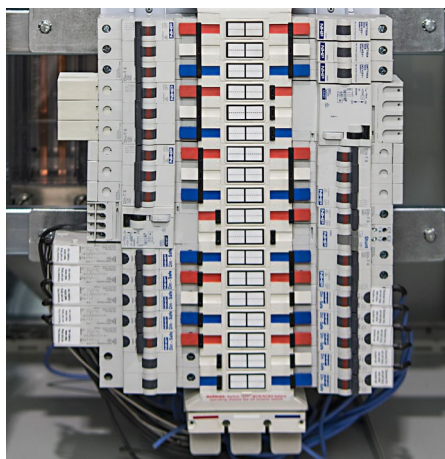
Voltage

Nominal Voltage Un	AC	1P	240, 415 V AC
		3P / 4P	415 V AC
	DC	1P	48 V DC
		2P (In Series)	110 V DC
Frequency	50 / 60 Hz		
Maximum Service Voltage U _{max}	250 / 440 V AC 53 / 120 V DC		
Minimum Service Voltage U _{min}	12 V AC		

Connections

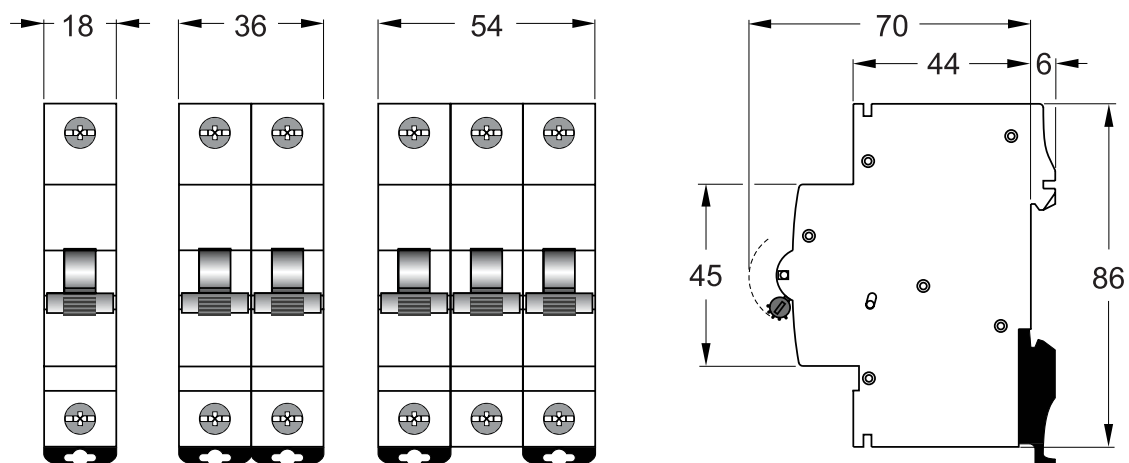
Maximum Cable Size	Rigid / Flexible (Top)	35 mm ² / 25 mm ²
	Rigid / Flexible (Bottom)	35 mm ² / 25 mm ²

Application

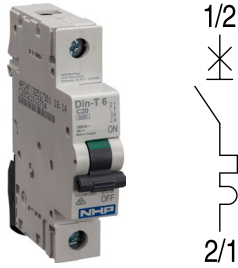


Residential, commercial and industrial general light and power applications. Suitable for use in pole-covers, loadcentres utilising fork or pin busbar comb and the Concept range of Panelboards using busbar chassis.

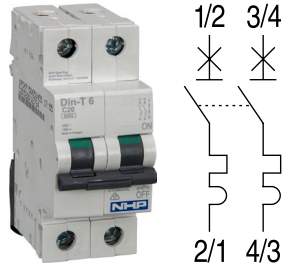
Dimensions



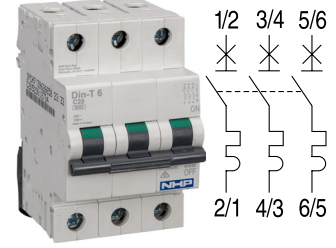
1 Pole



2 Pole



3 Pole



Width

18 mm

36 mm

54 mm

Amps
(I_n)C-Curve
(5-10 I_n)D-Curve
(10-20 I_n)C-Curve
(5-10 I_n)D-Curve
(10-20 I_n)C-Curve
(5-10 I_n)D-Curve
(10-20 I_n)

2	DTCB6102C	DTCB6102D	DTCB6202C	DTCB6202D	DTCB6302C	DTCB6302D
4	DTCB6104C	DTCB6104D	DTCB6204C	DTCB6204D	DTCB6304C	DTCB6304D
6	DTCB6106C	DTCB6106D	DTCB6206C	DTCB6206D	DTCB6306C	DTCB6306D
10	DTCB6110C	DTCB6110D	DTCB6210C	DTCB6210D	DTCB6310C	DTCB6310D
13	DTCB6113C	DTCB6113D	DTCB6213C	DTCB6213D	DTCB6313C	DTCB6313D
16	DTCB6116C	DTCB6116D	DTCB6216C	DTCB6216D	DTCB6316C	DTCB6316D
20	DTCB6120C	DTCB6120D	DTCB6220C	DTCB6220D	DTCB6320C	DTCB6320D
25	DTCB6125C	DTCB6125D	DTCB6225C	DTCB6225D	DTCB6325C	DTCB6325D
32	DTCB6132C	DTCB6132D	DTCB6232C	DTCB6232D	DTCB6332C	DTCB6332D
40	DTCB6140C	DTCB6140D	DTCB6240C	DTCB6240D	DTCB6340C	DTCB6340D
50	DTCB6150C	DTCB6150D	DTCB6250C	DTCB6250D	DTCB6350C	DTCB6350D
63	DTCB6163C	DTCB6163D	DTCB6263C	DTCB6263D	DTCB6363C	DTCB6363D



Voltage Ratings

Nominal Voltage U_n	AC	1P	240, 415 V AC
		3P / 4P	415 V AC
	DC	1P	48 V DC
		2P (In Series)	110 V DC
Frequency	50 / 60 Hz		
	DC: 1.4 x mag. trip		
	400 Hz: 1.5 x mag. trip		
Maximum Service Voltage U_{bmax}		250 / 440 V AC 53 / 120 V DC	
Minimum Service Voltage U_{bmin}		12	
Selectivity Class (IEC 60898)		A	
Isolator Application	IEC 60947-2	Yes	
Rated Insulation Voltage	Pollution Degree 2	500 V	
	Pollution Degree 3	440 V	
Impulse Withstand Test Voltage		6 kV	
Insulation Resistance		10000 mOhm	
Dielectric Rigidity		2.5 kV	

Environmental

Vibration Resistance (IEC 77 / 16.3) (in x, y, z direction)		3 g
Endurance	Electrical at U_n, I_n	10000 cycles
	Mechanical	20000 cycles
Utilisation Category (IEC 60947-2)		A
Protection Degree	Outside	IP20
	Inside	IP40
Self-extinguish Degree (According to UL94)		UL 94 V-2
Tropicalisation (IEC60068-2 / DIN 40046)		+55 °C / 95 % RH
Operating Temperature		-25 °C / +55 °C
Storage Temperature		-55 °C / +55 °C

Connection

Rigid Cable Min / Max (Top)		1 mm ² / 35 mm ²
Flexible Cable Min / Max (Top)		0.75 mm ² / 25 mm ²
Rigid Cable Min / Max (Bottom)		1 mm ² / 35 mm ²
Flexible Cable Min / Max (Bottom)		0.75 mm ² / 25 mm ²
Torque (Top / Bottom)		4.5 / 4.5 Nm
Busbar	Connection Top	Pin
	Connection Bottom	Fork / Pin

Physical

Dimensions (H x W x D)	1P	86 x 18 x 76 mm
	2P	86 x 36 x 76 mm
	3P	86 x 54 x 76 mm
Weight		0.12 / 0.24 / 0.36 kg
Package		12 module



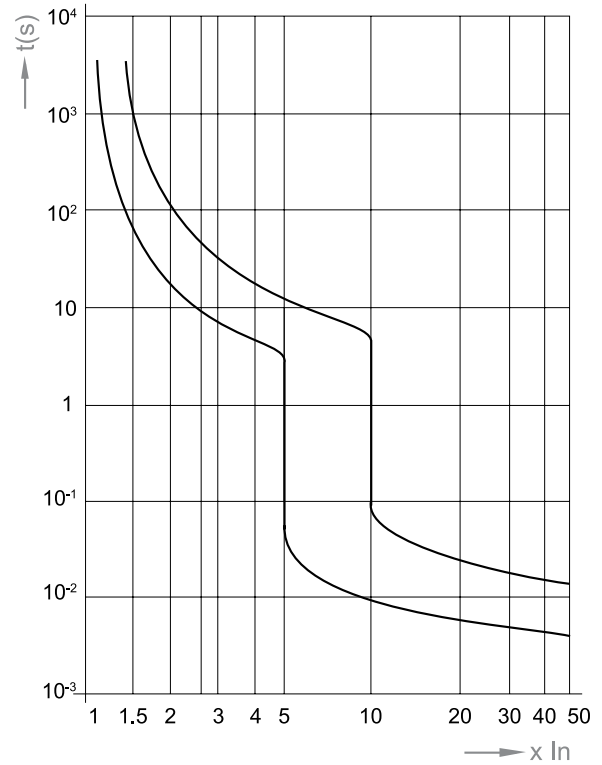
Short-Circuit Capacity AC

IEC 60898	Icn	1P	230 / 400 V	6	
		2P	230 / 400 V	6	
		3P / 4P	230 / 400 V	6	
Ics (Service)		% Icn		100	
IEC 60947-2	Icu (Ultimate)	1P	127 V	20	
			240 V	10	
			415 V	3	
		2P	127 V	30	
			240 V	20	
			415 V	10	
		3P / 4P	240 V	20	
			415 V	10	
			440 V		
			Ics (Service)		% Icu
NEMA AB1 (120 / 240 V)			20		

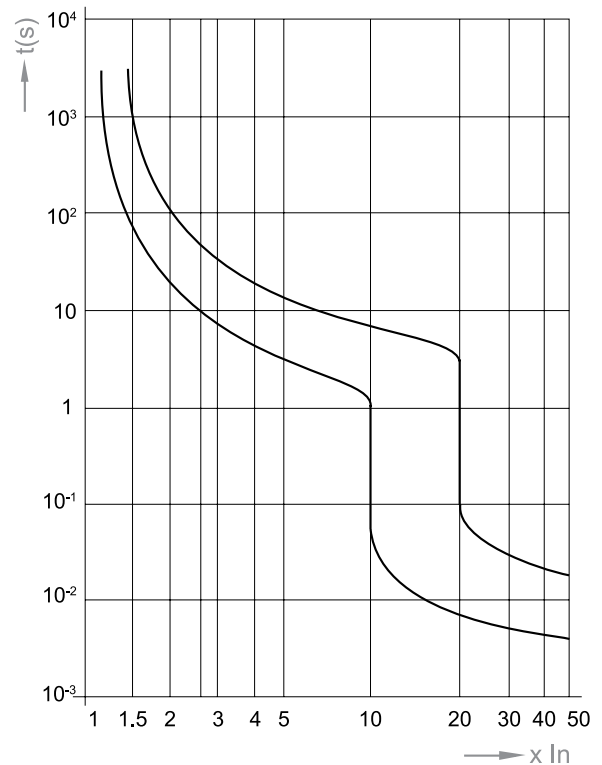
Short-Circuit Capacity DC

IEC 60947-2	Icu (Ultimate)	1P	≤ 60 V	20
			≤ 220 V	
		2P	≤ 125 V	25
			≤ 440 V	
Ics (Service)		% Icu	100	

C-Curve Characteristics

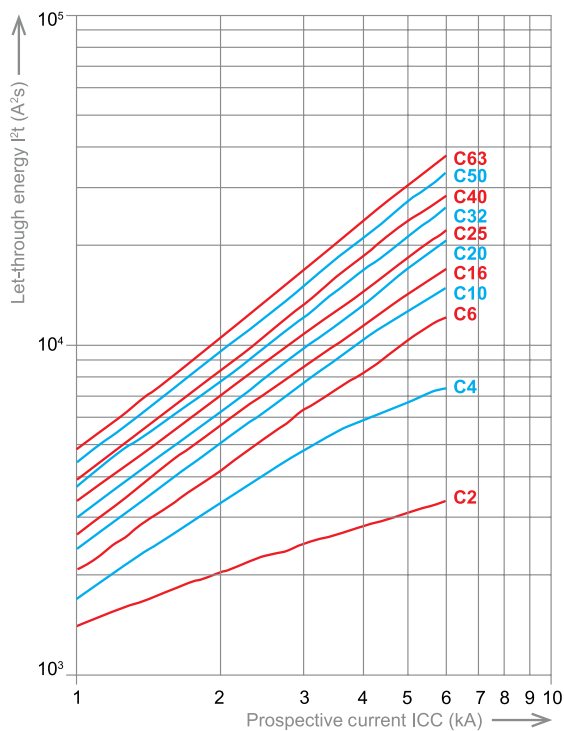


D-Curve Characteristics

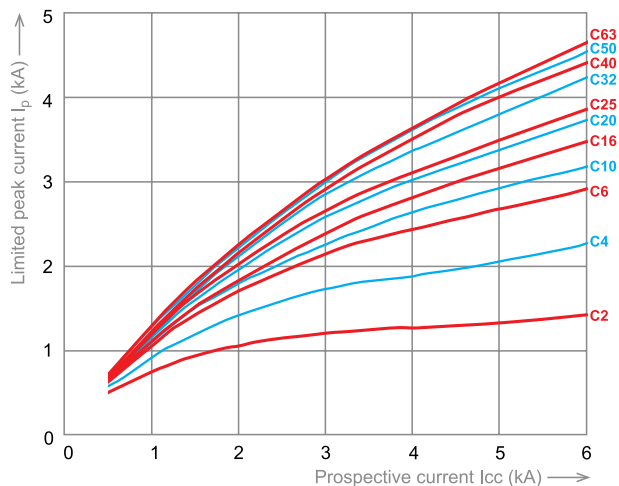




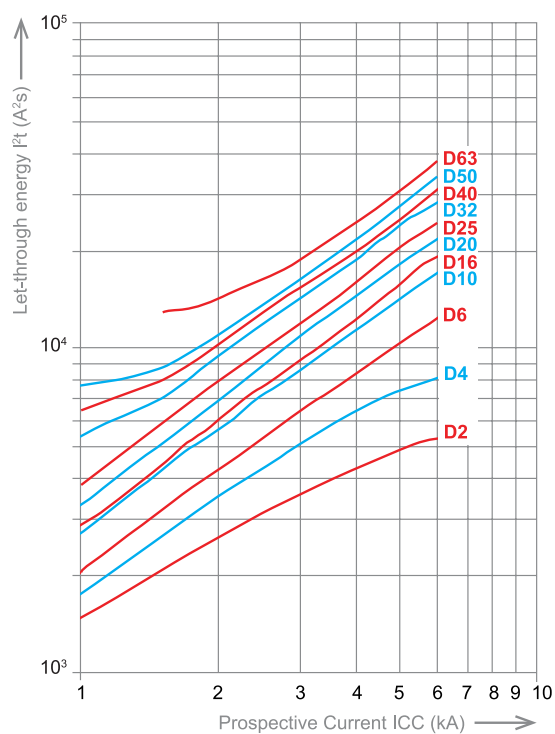
Let-through Energy $I^2 t$ (A² s) C-Curve



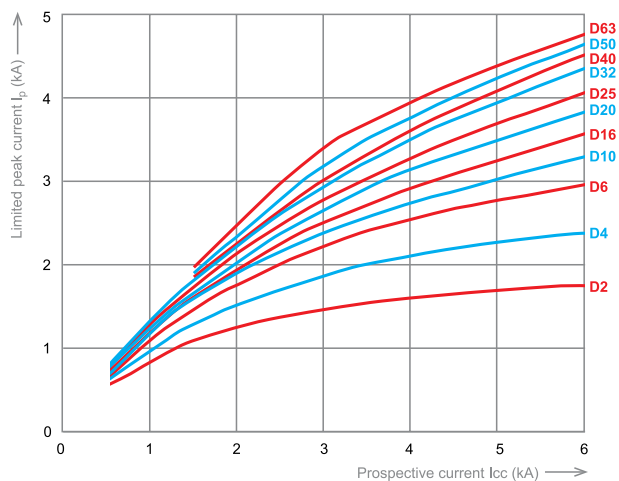
Limited Peak Current (kA) at 230 / 400 V C-Curve



Let-through Energy $I^2 t$ (A² s) D-Curve

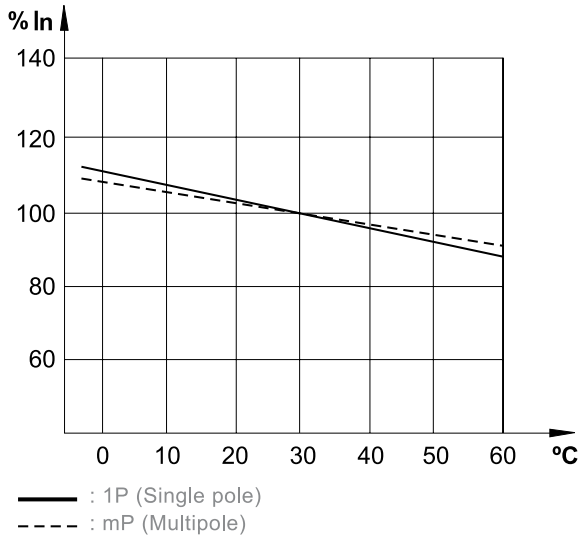


Limited Peak Current (kA) at 230 / 400 V D-Curve

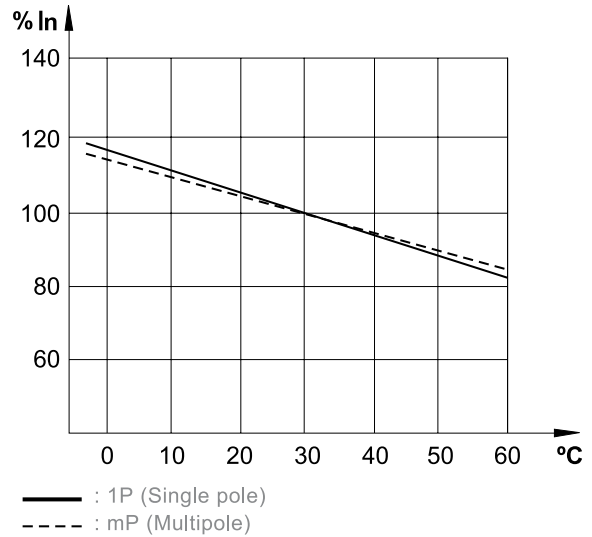




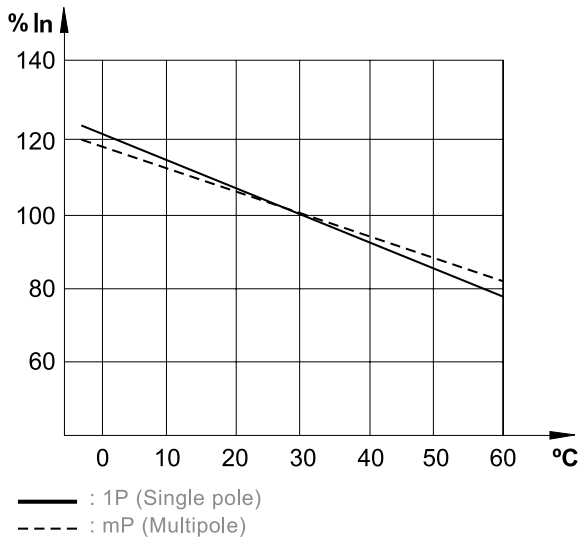
Ambient Temperature Influence at 2-6 A



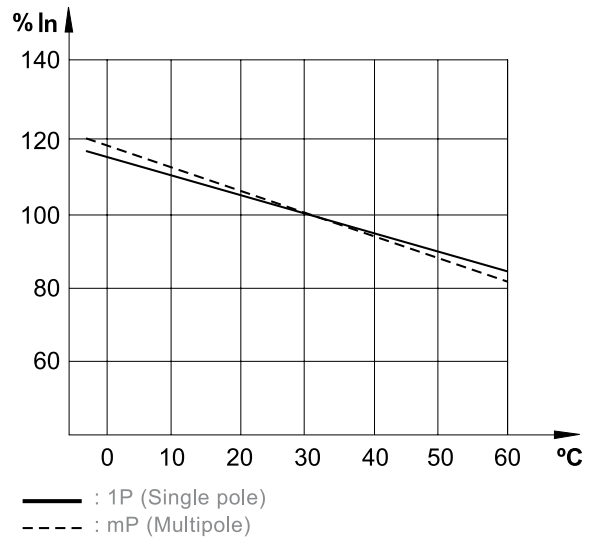
Ambient Temperature Influence at 16-40 A



Ambient Temperature Influence at 10 A



Ambient Temperature Influence at 50-63 A



Power Loss

In (A)	Voltage Drop (V)	Energy Loss Pw (W)	Resistance Z (mOhm)
0.5	2.23	1.12	4458.00
1	1.27	1.27	1272.00
2	0.62	1.24	310.00
3	0.52	1.56	173.00
4	0.37	1.49	93.00
6	0.26	1.57	43.60
8	0.16	1.24	19.40
10	0.16	1.56	15.60
13	0.16	2.01	11.90
16	0.16	2.57	10.10
20	0.14	2.76	6.90
25	0.13	3.19	5.10
32	0.10	3.07	3.00
40	0.10	4.00	2.50
50	0.09	4.50	1.80
63	0.08	5.16	1.30

DIN-T6 2-in-1



- ✓ High speed and rapid arc quenching technology ensuring the highest level of protection is provided
- ✓ DIN rail mounting
- ✓ Free tripping mechanism even if toggle is locked ON or OFF
- ✓ Complies with AS/NZS 60898
- ✓ DIN-T6 2-in-1 MCBs feature 6 kA short circuit rating
- ✓ C-Curve For general purpose light and power applications
- ✓ Saves up to 50% of space
- ✓ Suits pole-covers and loadcentres
- ✓ Approval No. NSW24783 or RCM



General

Tripping Characteristics	C
Nominal Current Rating at 30 °C	2 - 40 A
Poles	1P + 1P / 2P / 3P / 4P
Neutral Pole Protected	Yes

Short Circuit

I_{cn} 230 / 400 V 1P + 1P / 2P / 3P / 4P	6 / 6 / 6 kA
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Voltage

Nominal Voltage U_n	AC	1P	240 V AC
		3P / 4P	415 V AC
	DC	1P	-
		2P (In Series)	96 V DC
Frequency	50 / 60 Hz		
Maximum Service Voltage U_{bmax}	250 / 440 V AC 53 / 120 V DC		
Minimum Service Voltage U_{bmin}	12 V AC		

Connections

Maximum Cable Size	Rigid / Flexible (Top)	16 mm ² / 10 mm ²
	Rigid / Flexible (Bottom)	16 mm ² / 10 mm ²

Application

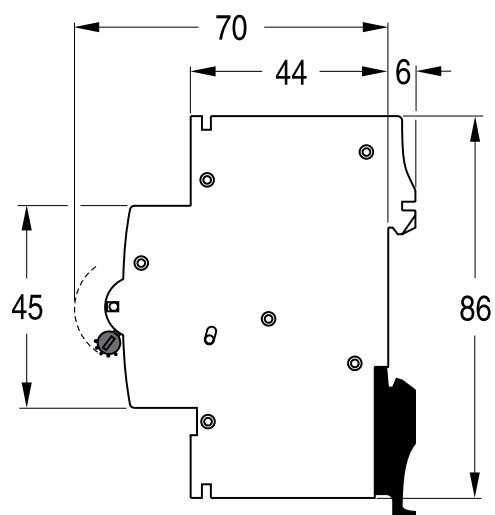
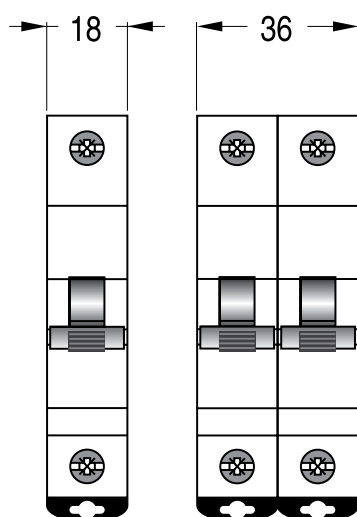


Residential and Commercial light and power applications when space is limited. Suitable for use in pole-covers, loadcentres and accessory modules utilising pin busbar comb.

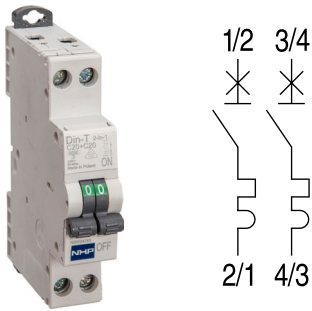
Design Considerations

1P+1P: Both poles must be from the same phase.

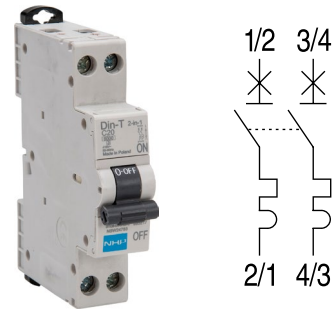
Dimensions



1 Pole + 1 Pole



2 Pole



Width 18 mm

Amps (I_n) C-Curve (5-10 I_n)

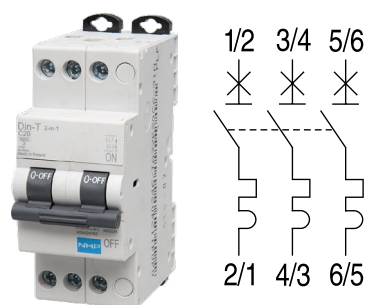
2	DTCBD61102C
4	DTCBD61104C
6	DTCBD61106C
10	DTCBD61110C
16	DTCBD61116C
20	DTCBD61120C
25	-
32	-
40	-

Width 18 mm

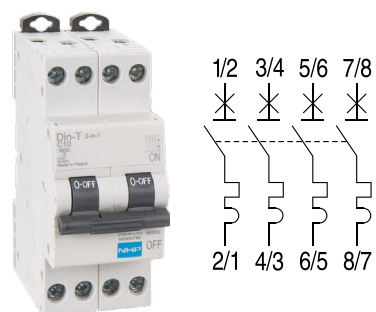
Amps (I_n) C-Curve (5-10 I_n)

2	DTCBD6202C
4	DTCBD6204C
6	DTCBD6206C
10	DTCBD6210C
16	DTCBD6216C
20	DTCBD6220C
25	DTCBD6225C
32	DTCBD6232C
40	DTCBD6240C

3 Pole



4 Pole



Width

36 mm

Amps (I_n)C-Curve (5-10 I_n)

2	DTCBD6302C
4	DTCBD6304C
6	DTCBD6306C
10	DTCBD6310C
16	DTCBD6316C
20	DTCBD6320C
25	DTCBD6325C
32	DTCBD6332C
40	DTCBD6340C

Width

36 mm

Amps (I_n)C-Curve (5-10 I_n)

2	DTCBD6402C
4	DTCBD6404C
6	DTCBD6406C
10	DTCBD6410C
16	DTCBD6416C
20	DTCBD6420C
25	DTCBD6425C
32	DTCBD6432C
40	DTCBD6440C

Voltage Ratings

Nominal Voltage U_n	AC	1P	240 V AC
		3P / 4P	415 V AC
	DC	1P	-
		2P (In Series)	96 V DC
Frequency	50 / 60 Hz		
	DC : 1.4 x mag. trip		
	400 Hz : 1.5 x mag. trip		
Maximum Service Voltage U_{bmax}		250 / 440 V AC 53 / 120 V DC	
Minimum Service Voltage U_{bmin}		12	
Selectivity Class (IEC 60898)		A	
Isolator Application	IEC 60947-2	Yes	
Rated Insulation Voltage	Pollution Degree 2	500 V	
	Pollution Degree 3	440 V	
Impulse Withstand Test Voltage		6 kV	
Insulation Resistance		10000 mOhm	
Dielectric Rigidity		2.5 kV	

Environmental

Vibration Resistance (IEC 77 / 16.3) (in x, y, z direction)		3 g
Endurance	Electrical at U_n, I_n	10000 cycles
	Mechanical	20000 cycles
Utilisation Category (IEC 60947-2)		A
Protection Degree	Outside	IP20
	Inside	IP40
Self-extinguish Degree (According to UL94)		UL 94 V-2
Tropicalisation (IEC60068-2 / DIN 40046)		+55 °C / 95 % RH
Operating Temperature		-25 °C / +55 °C
Storage Temperature		-55 °C / +55 °C

Connection

Rigid Cable Min / Max (Top)		1 mm ² / 16 mm ²
Flexible Cable Min / Max (Top)		1 mm ² / 10 mm ²
Rigid Cable Min / Max (Bottom)		1 mm ² / 16 mm ²
Flexible Cable Min / Max (Bottom)		1 mm ² / 10 mm ²
Torque (Top / Bottom)		3 / 3 Nm
Busbar	Connection Top	Pin
	Connection Bottom	Pin

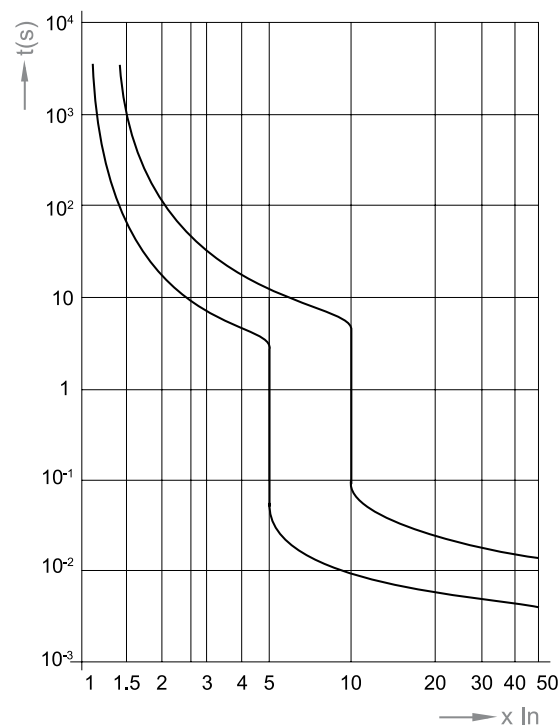
Physical

Dimensions (H x W x D)	1P + 1P	86 x 18 x 76 mm
	2P	86 x 18 x 76 mm
	3P	86 x 36 x 76 mm
	4P	86 x 36 x 76 mm
Weight		0.16 / 0.32 kg
Package		12 module

Short-Circuit Capacity AC

IEC 60898	I _{cn}	1P	230 / 400 V	6
		2P	230 / 400 V	6
		3P / 4P	230 / 400 V	6
	I _{cs (Service)}		% I _{cn}	100
IEC 60947-2	I _{cu (Ultimate)}	1P	127 V	-
			240 V	6
			415 V	-
		2P	127 V	-
			240 V	-
			415 V	10
		3P / 4P	240 V	-
			415 V	6
			440 V	-
			I _{cs (Service)}	% I _{cu}
NEMA AB1 (120 / 240 V)				

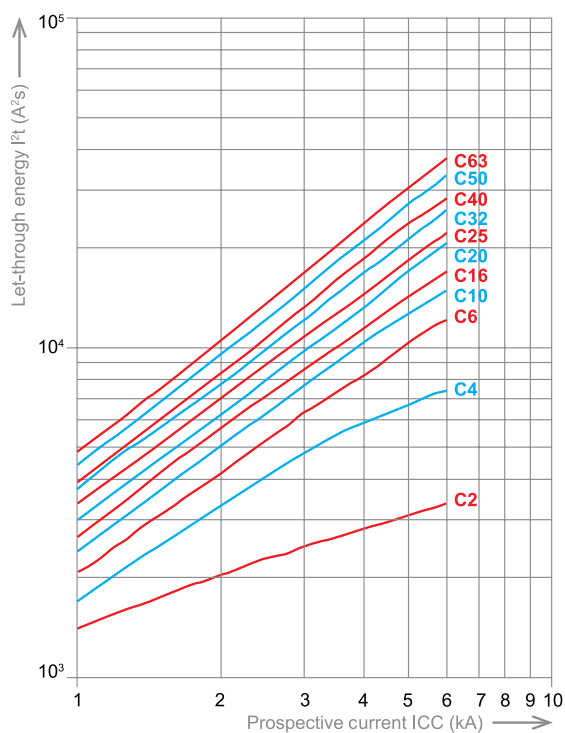
C-Curve Characteristics



Short-Circuit Capacity DC

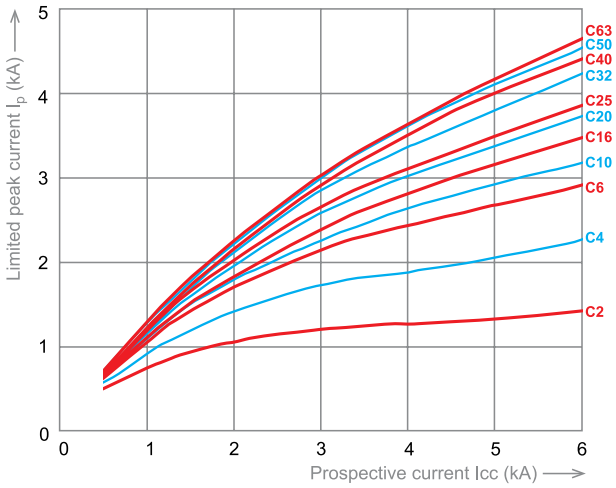
IEC 60947-2	I _{cu (Ultimate)}	1P	≤ 60 V	-
			≤ 220 V	-
		2P	≤ 125 V	-
			≤ 440 V	-
	I _{cs (Service)}	% I _{cu}	-	

Let-through Energy $I^2 t$ ($A^2 s$) C-Curve

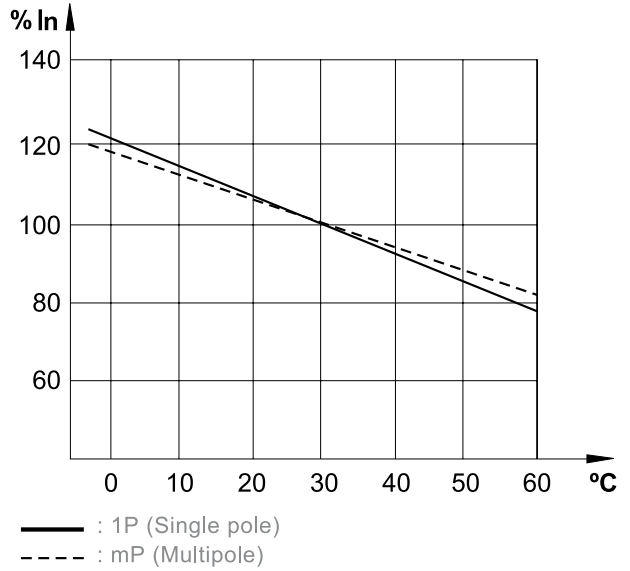




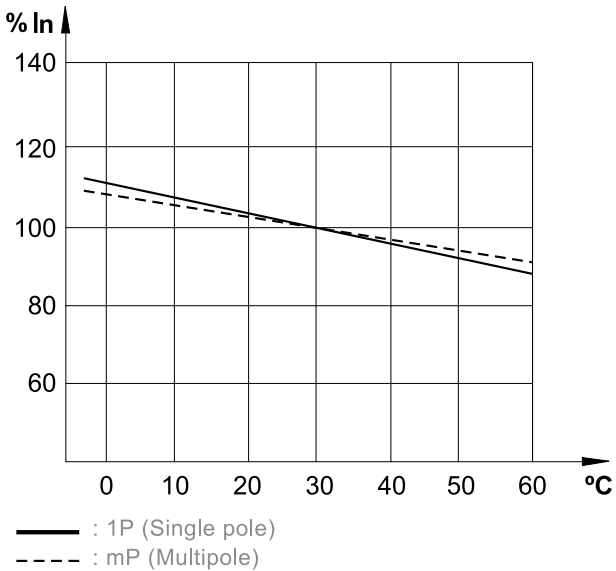
Limited Peak Current (kA) at 230 / 400 V C-Curve



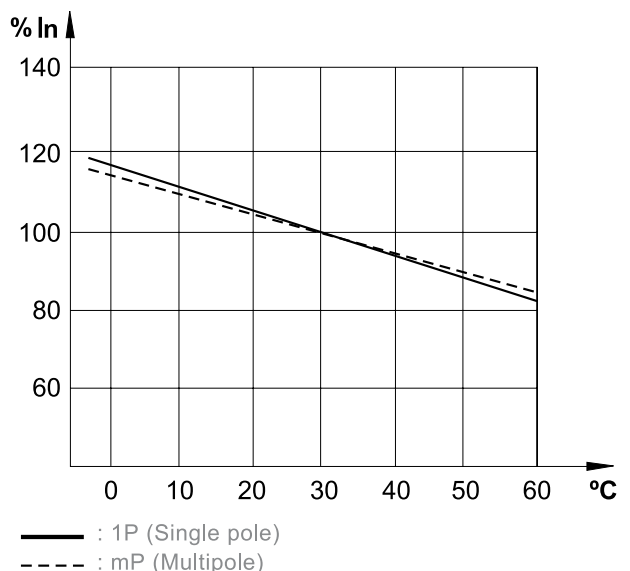
Ambient Temperature Influence at 10 A



Ambient Temperature Influence at 0.5 - 6 A



Ambient Temperature Influence at 16-40 A





Power Loss

I_n (A)	Voltage Drop (V)	Energy Loss P_w (W)	Resistance Z (mOhm)
2	0.55	1.10	275.00
4	0.34	1.35	84.38
6	0.25	1.52	42.22
10	0.16	1.64	16.40
16	0.13	2.10	8.20
20	0.13	2.52	6.30
25	0.12	3.10	4.96
32	0.12	3.80	3.71
40	0.11	4.46	2.79

DIN-T6 Easy Fit



- ✓ High speed and rapid arc quenching technology ensuring the highest level of protection is provided
- ✓ DIN rail mounting
- ✓ Free tripping mechanism even if toggle is locked ON or OFF
- ✓ Complies with AS/NZS 60898
- ✓ DIN-T Easy-Fit MCBs feature 6 kA short circuit rating
- ✓ Cable clamping technology
- ✓ 6 to 63 A Models – Plug in busbar comb or screw connection “line-side” connection
- ✓ 6 to 20 A Models – Screw-less cable clamping “load-side” connection
- ✓ 25 to 63 A Models – Screw “load-side” connection
- ✓ C-Curve for general purpose light and power applications
- ✓ Approval No. NSW24022 or RCM



General

Tripping Characteristics	C
Nominal Current Rating At 30 °C	6 - 63 A
Poles	1P / 3P

Short Circuit

I_{cn} 230 / 400V 1P / 3P	6 / 6 kA
-----------------------------	----------

Voltage

Nominal Voltage U_n	AC	1P	240, 415 V AC
		3P / 4P	415 V AC
	DC	1P	48 V DC
		2P (In Series)	110 V DC
Frequency	50 / 60 Hz		
Maximum Service Voltage U_{bmax}	250 / 440 V AC 53 / 120 V DC		
Minimum Service Voltage U_{bmin}	12 V AC		

Connections

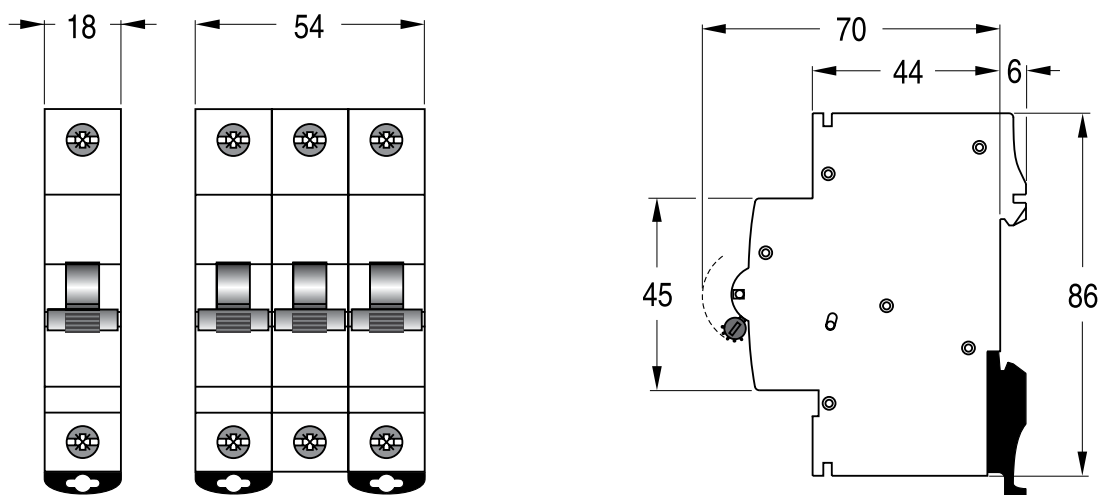
Maximum Cable Size	Rigid / Flexible (Top)	35 mm ² / 25 mm ²
	Rigid / Flexible (Bottom)	25 mm ² / 16 mm ²

Application



Commercial, industrial light and power applications when you are after quick fit-out or where vibration exists.

Dimensions



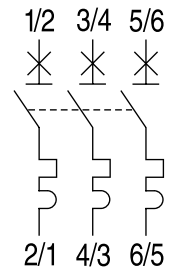


1 Pole



Width 18 mm

3 Pole



Width 54 mm

Amps (I_n)	C - Curve (5-10 I_n)
6	DTCBE6106C
10	DTCBE6110C
16	DTCBE6116C
20	DTCBE6120C
25	DTCBE6125C
32	DTCBE6132C
40	DTCBE6140C
50	DTCBE6150C
63	DTCBE6163C

Amps (I_n)	C - Curve (5-10 I_n)
6	DTCBE6306C
10	DTCBE6310C
16	DTCBE6316C
20	DTCBE6320C
25	DTCBE6325C
32	DTCBE6332C
40	DTCBE6340C
50	DTCBE6350C
63	DTCBE6363C

Voltage Ratings

Nominal Voltage U_n	AC	1P	240, 415 V AC
		3P / 4P	415 V AC
	DC	1P	48 V DC
		2P (In Series)	110 V DC
Frequency	50 / 60 Hz		
	DC : 1.4 x mag. trip		
	400Hz : 1.5 x mag. trip		
Maximum Service Voltage U_{bmax}	250 / 440 V AC		53 / 120 V DC
Minimum Service Voltage U_{bmin}	12		
Selectivity Class (IEC 60898)	A		
Isolator Application	IEC 60947-2	Yes	
Rated Insulation Voltage	Pollution Degree 2	500 V	
	Pollution Degree 3	440 V	
Impulse Withstand Test Voltage	6 kV		
Insulation Resistance	10000 mOhm		
Dielectric Rigidity	2.5 kV		

Environmental

Vibration Resistance (IEC 77 / 16.3) (in x, y, z direction)	3 g	
Endurance	Electrical at U_n, I_n	10000 cycles
	Mechanical	20000 cycles
Utilisation Category (IEC 60947-2)	A	
Protection Degree	Outside	IP20
	Inside	IP40
Self-extinguish Degree (According to UL94)	UL 94 V-2	
Tropicalisation (IEC60068-2 / DIN 40046)	+55 °C / 95 % RH	
Operating Temperature	-25 °C / +55 °C	
Storage Temperature	-55 °C / +55 °C	

Connection

Rigid Cable Min / Max (Top)	1 mm ² / 35 mm ²	
Flexible Cable Min / Max (Top)	0.75 mm ² / 25 mm ²	
Rigid Cable Min / Max (Bottom)	1 mm ² / 25 mm ²	
Flexible Cable Min / Max (Bottom)	0.75 mm ² / 16 mm ²	
Torque (Top / Bottom)	2.5 / 2.5 Nm	
Busbar	Connection Top	-
	Connection Bottom	Pin

Physical

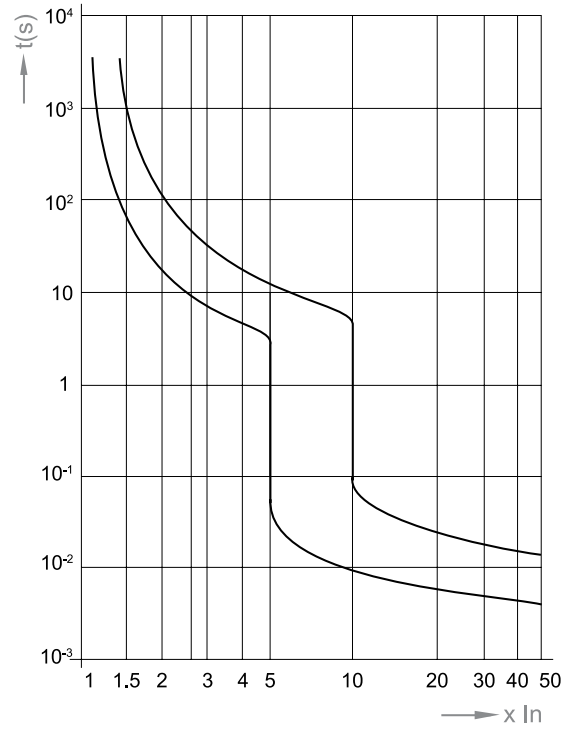
Dimensions (H x W x D)	1P	86 x 18 x 76 mm
	3P	86 x 54 x 76 mm
Weight	0.125 / 0.375 kg	
Package	12 module	



Short-Circuit Capacity AC

IEC 60898	I_{cn}	1P	230 / 400 V	6
		2P	230 / 400 V	-
		3P / 4P	230 / 400 V	6
I_{cs} (Service)		% I_{cn}		100
IEC 60947-2	I_{cu} (Ultimate)	1P	127 V	20
			240 V	10
			415 V	7
		2P	127 V	-
			240 V	-
			415 V	-
		3P / 4P	240 V	20
			415 V	10
			440 V	6
			I_{cs} (Service)	
NEMA AB1 (120 / 240 V)				-

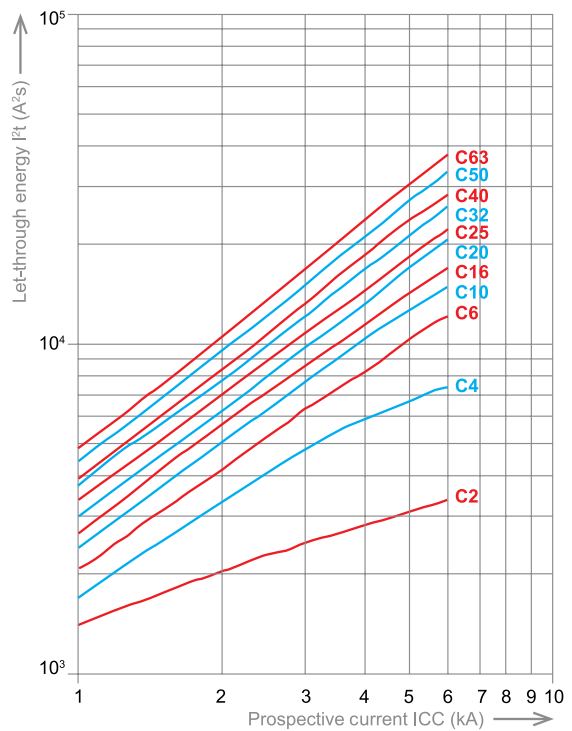
C-Curve Characteristics



Short-Circuit Capacity DC

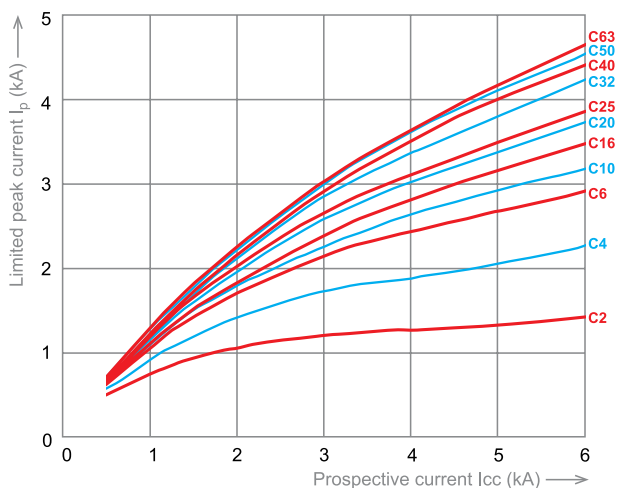
IEC 60947-2	I_{cu} (Ultimate)	1P	≤ 60 V	20
			≤ 220 V	-
		2P	≤ 125 V	25
			≤ 440 V	-
I_{cs} (Service)		% I_{cu}		100

Let-through Energy $I^2 t$ (A² s) C-Curve

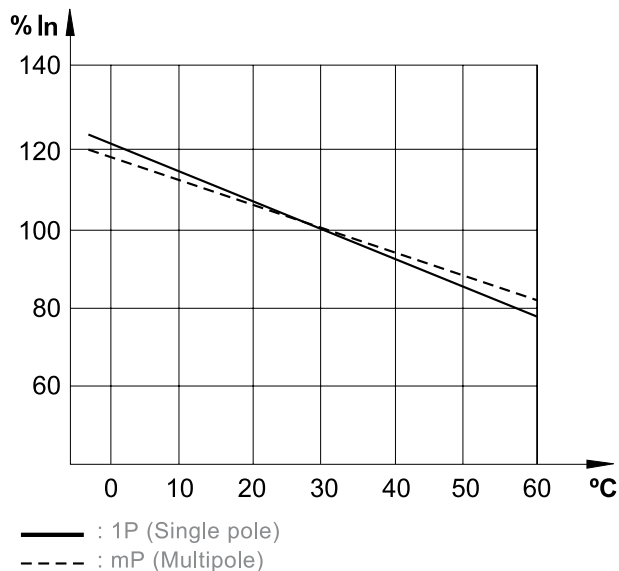




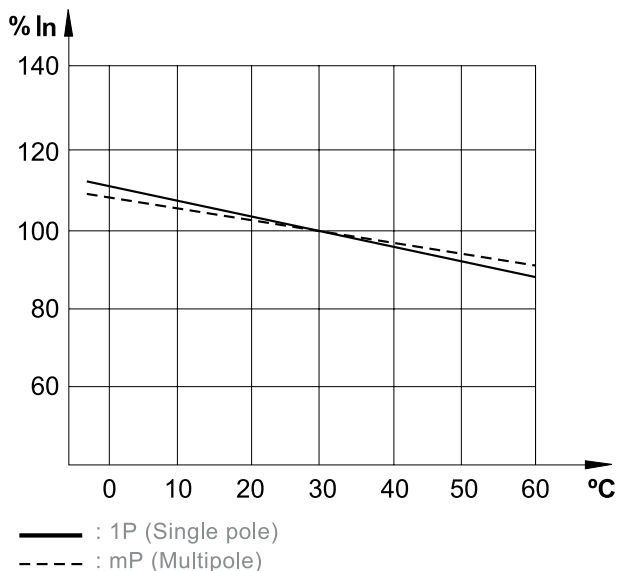
Limited Peak Current (kA) at 230 / 400 V C-Curve



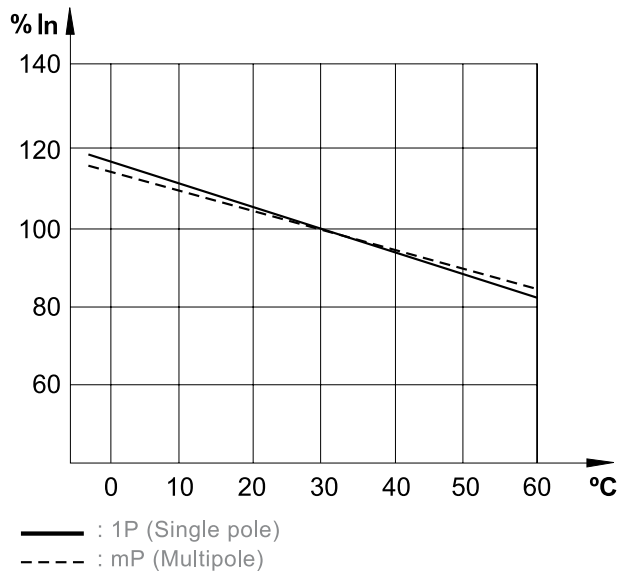
Ambient Temperature Influence at 10 A



Ambient Temperature Influence at 6 A

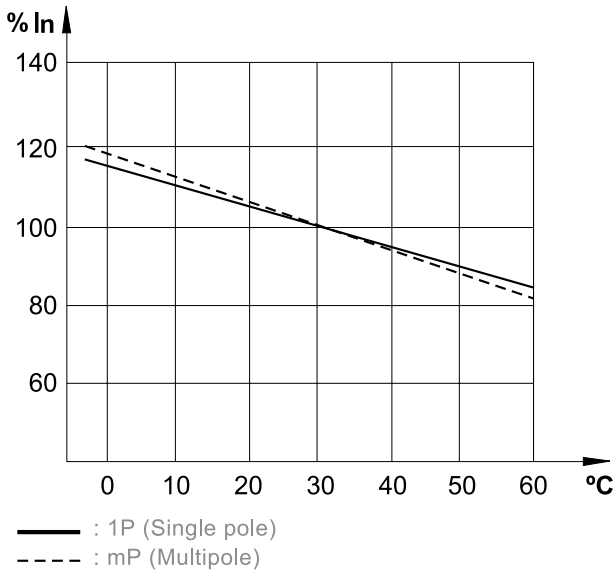


Ambient Temperature Influence at 16-40 A



MCBs and RCBOs

Ambient Temperature Influence at 50-63 A



Power Loss

In (A)	Voltage Drop (V)	Energy Loss Pw (W)	Resistance Z (mOhm)
0.5	2.23	1.12	4458.00
1	1.27	1.27	1272.00
2	0.62	1.24	310.00
3	0.52	1.56	173.00
4	0.37	1.49	93.00
6	0.26	1.57	43.60
8	0.16	1.24	19.40
10	0.16	1.56	15.60
13	0.16	2.01	11.90
16	0.16	2.57	10.10
20	0.14	2.76	6.90
25	0.13	3.19	5.10
32	0.10	3.07	3.00
40	0.10	4.00	2.50
50	0.09	4.50	1.80
63	0.08	5.16	1.30

DIN-T DC Series



- ✓ High speed and rapid arc quenching technology ensuring the highest level of protection is provided
- ✓ DIN rail mounting
- ✓ Free tripping mechanism even if toggle is locked ON or OFF
- ✓ Complies with AS/NZS 60898
- ✓ DIN-T DC MCBs feature 6 kA short circuit rating
- ✓ C-Curve tripping characteristic
- ✓ Pad lockable and sealable toggle restricts unauthorized action
- ✓ Polarity sensitive
- ✓ Large capacity terminals
- ✓ Fast connection pin / fork busbar comb or NC or GB busbar chassis
- ✓ Suits pole-covers, loadcentres and the Concept range of Panelboards
- ✓ Approval No. NSW24265 or RCM



General

Tripping Characteristics	B, C
Nominal Current Rating At 30 °C	0.5 - 63 A
Poles	1P / 2P / 4P

Short Circuit

I_{cn} 230 / 400V 1P / 2P / 4P	6 / 6 / 6 kA
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Voltage

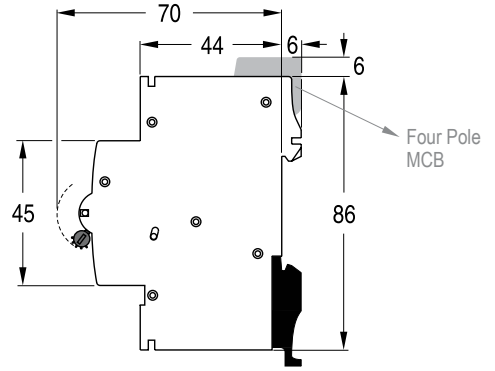
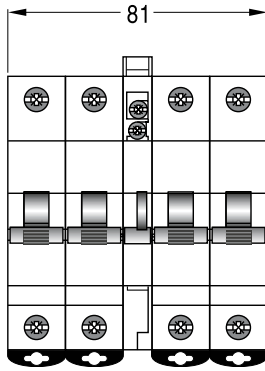
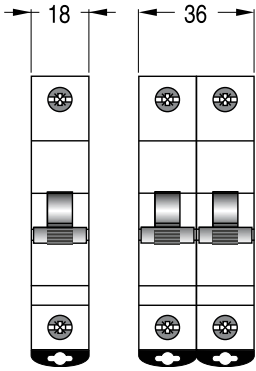
Nominal Voltage U_n	AC	1P	240, 415 V AC
		3P / 4P	415 V AC
	DC	1P	250 V DC
		2P (In Series)	500 V DC
Frequency	50 / 60 Hz		
Maximum Service Voltage U_{bmax}	250 / 440 V AC 250 / 500 / 880 V DC		
Minimum Service Voltage U_{bmin}	12 V AC		

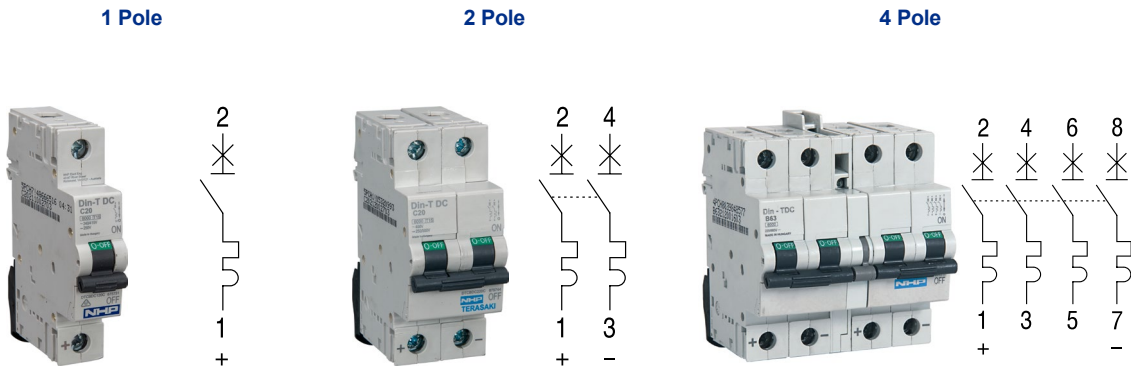
Connections

Maximum Cable Size	Rigid / Flexible (Top)	35 mm ² / 25 mm ²
	Rigid / Flexible (Bottom)	35 mm ² / 25 mm ²



Dimensions





Width	18 mm	36 mm	81 mm
Amps (I_n)	C-Curve (5-10 I_n)	C-Curve (5-10 I_n)	B-Curve (3-5 I_n)

0.5	DTCBDC105C	-	-
1	DTCBDC101C	DTCBDC201C	-
2	DTCBDC102C	DTCBDC202C	-
4	DTCBDC104C	DTCBDC204C	-
6	DTCBDC106C	DTCBDC206C	-
10	DTCBDC110C	DTCBDC210C	DTCBDC410B
16	DTCBDC116C	DTCBDC216C	DTCBDC416B
20	DTCBDC120C	DTCBDC220C	DTCBDC420B
25	DTCBDC125C	DTCBDC225C	-
32	DTCBDC132C	DTCBDC232C	-
40	DTCBDC140C	DTCBDC240C	DTCBDC440B
50	DTCBDC150C	DTCBDC250C	-
63	DTCBDC163C	DTCBDC263C	-

Voltage Ratings

Nominal Voltage U_n	AC	1P	240, 415 V AC
		3P / 4P	415 V AC
	DC	1P	250 V DC
		2P (In Series)	500 V DC
Frequency	50 / 60 Hz		
	DC: 1.4 x mag. trip		
	400Hz: 1.5 x mag. trip		
Maximum Service Voltage U_{bmax}		250 / 440 V AC 250 / 500 / 880 V DC	
Minimum Service Voltage U_{bmin}		12	
Selectivity Class (IEC 60898)		A	
Isolator Application	IEC 60947-2	Yes	
Rated Insulation Voltage	Pollution Degree 2	500 V	
	Pollution Degree 3	440 V	
Impulse Withstand Test Voltage		6 kV	
Insulation Resistance		10000 mOhm	
Dielectric Rigidity		2.5 kV	

Environmental

Vibration Resistance (IEC 77 / 16.3) (in x, y, z direction)		5 g
Endurance	Electrical at U_n, I_n	1000 cycles
	Mechanical	20000 cycles
Utilisation Category (IEC 60947-2)		A
Protection Degree	Outside	IP20
	Inside	IP40
Self-extinguish Degree (According to UL94)		UL 94 V-2
Tropicalisation (IEC60068-2 / DIN 40046)		+55 °C / 95 % RH
Operating Temperature		-25 °C / +55 °C
Storage Temperature		-55 °C / +55 °C

Connection

Rigid Cable Min / Max (Top)		1 mm ² / 35 mm ²
Flexible Cable Min / Max (Top)		0.75 mm ² / 25 mm ²
Rigid Cable Min / Max (Bottom)		1 mm ² / 35 mm ²
Flexible Cable Min / Max (Bottom)		0.75 mm ² / 25 mm ²
Torque (Top / Bottom)		4.5 / 4.5 Nm
Busbar	Connection Top	Fork / Pin
	Connection Bottom	Fork / Pin

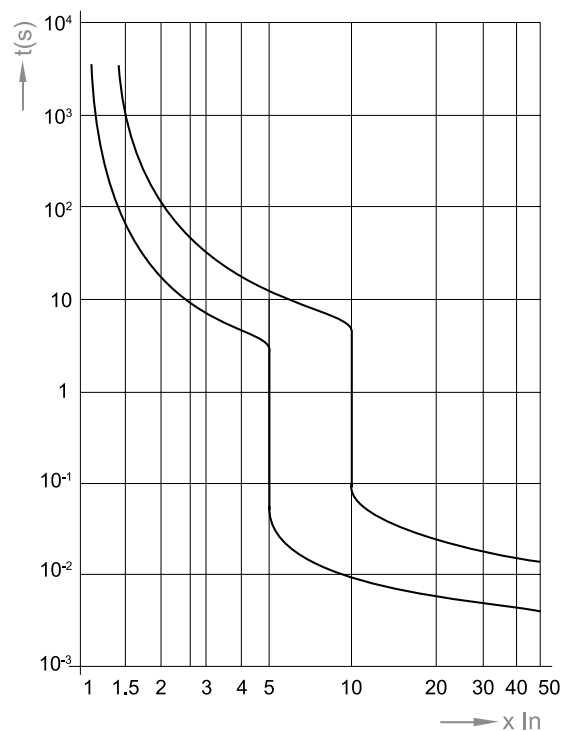
Physical

Dimensions (H x W x D)	1P	86 x 18 x 76 mm
	2P	86 x 36 x 76 mm
	4P	86 x 81 x 76 mm
Weight	0.125 kg	
Package	12 module	

Short-Circuit Capacity AC

IEC 60898	I_{cn}	1P	230 / 400 V	6
		2P	230 / 400 V	6
		3P / 4P	230 / 400 V	6
	I_{cs} (Service)		% I_{cn}	100
IEC 60947-2	I_{cu} (Ultimate)	1P	127 V	
			240 V	6
			415 V	
		2P	127 V	
			240 V	
			415 V	6
		3P / 4P	240 V	
			415 V	
			440 V	
	I_{cs} (Service)		% I_{cu}	
NEMA AB1 (120 / 240 V)				

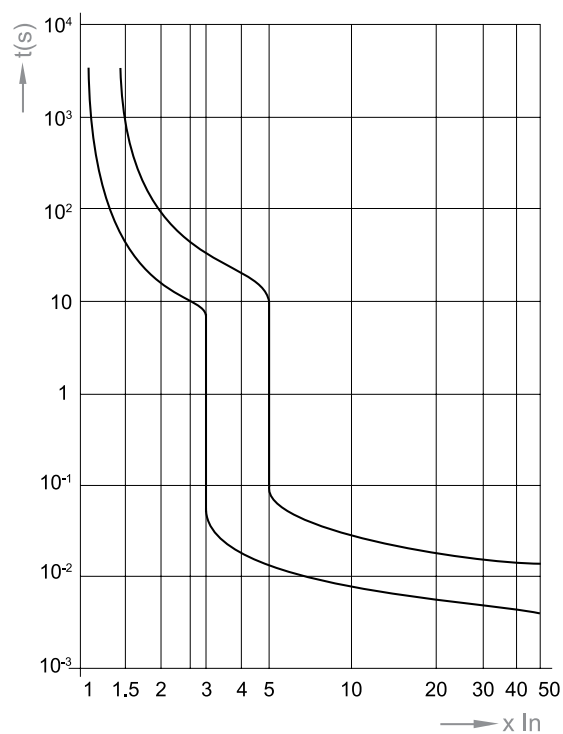
C-Curve Characteristics (AC only)



Short-Circuit Capacity DC

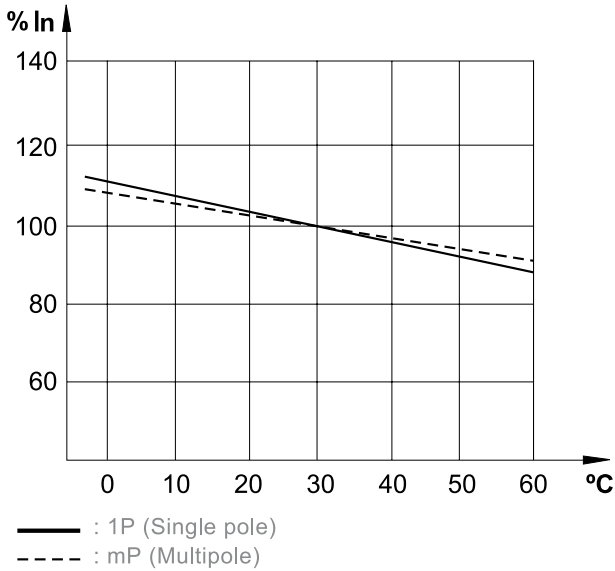
IEC 60947-2	I_{cu} (Ultimate)	1P	≤ 60 V	10
			≤ 220 V	20
		2P	≤ 125 V	10
			≤ 440 V	
	I_{cs} (Service)		% I_{cu}	

B-Curve Characteristics (AC only)

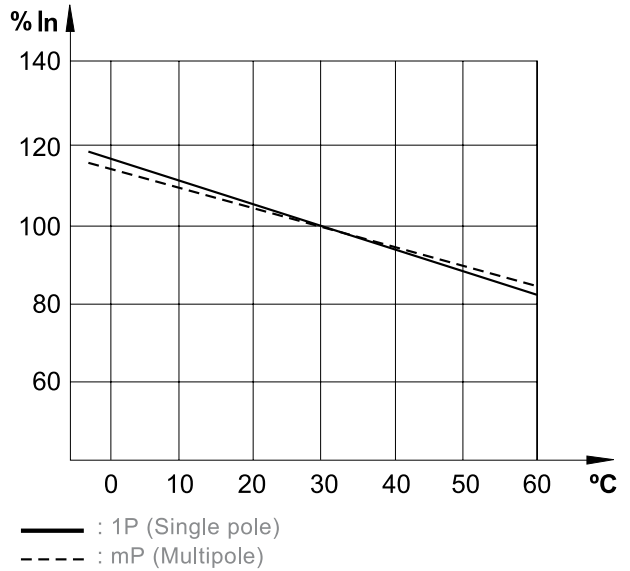




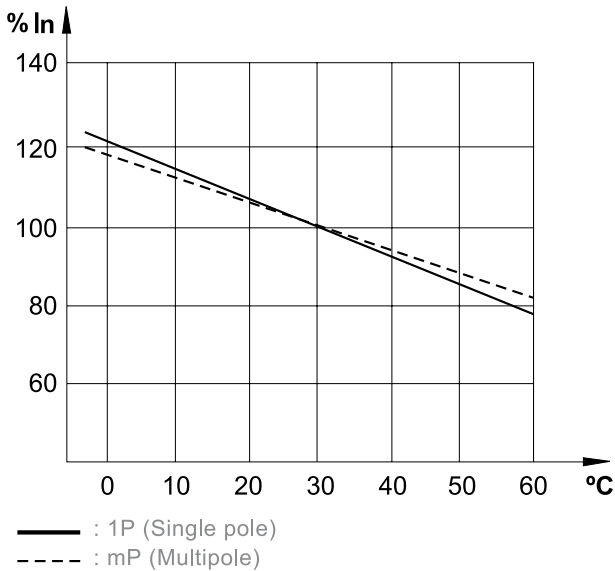
Ambient Temperature Influence at 0.5 - 6 A



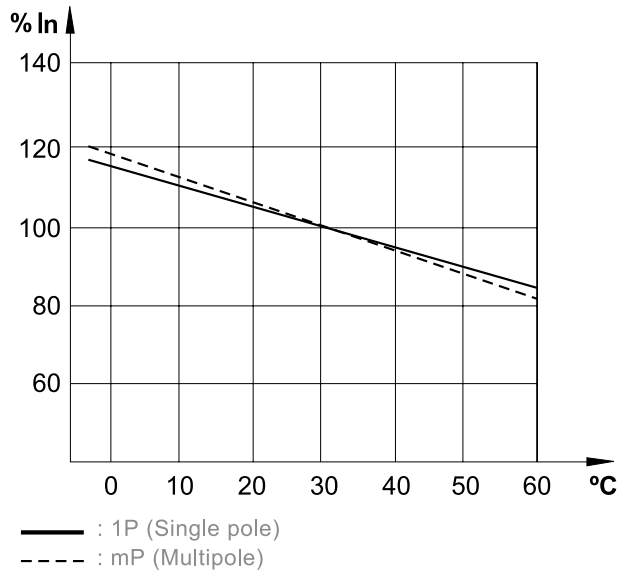
Ambient Temperature Influence at 16-40 A



Ambient Temperature Influence at 10 A



Ambient Temperature Influence at 50-63 A



Power Loss

I_n (A)	Voltage Drop (V)	Energy Loss P_w (W)	Resistance Z (mOhm)
0.5	2.23	1.12	4458.00
1	1.27	1.27	1272.00
2	0.62	1.24	310.00
3	0.52	1.56	173.00
4	0.37	1.49	93.00
6	0.26	1.57	43.60
8	0.16	1.24	19.40
10	0.16	1.56	15.60
13	0.16	2.01	11.90
16	0.16	2.57	10.10
20	0.14	2.76	6.90
25	0.13	3.19	5.10
32	0.10	3.07	3.00
40	0.10	4.00	2.50
50	0.09	4.50	1.80
63	0.08	5.16	1.30

DIN-T10



- ✓ High speed and rapid arc quenching technology ensuring the highest level of protection is provided
- ✓ DIN rail mounting
- ✓ Free tripping mechanism even if toggle is locked ON or OFF
- ✓ Complies with AS/NZS 60898 and AS/NZS 60947-2 (as applicable)
- ✓ DIN-T10 MCBs feature 10kA short circuit rating
- ✓ B curve for long cable runs when fault loop impedance become an issue
- ✓ C curve for general light, power and motor starting applications
- ✓ D trip curve for high inrush, motor starting and transformer applications
- ✓ Pad lockable and sealable toggle restricts unauthorized action
- ✓ Large capacity terminals
- ✓ Fast connection pin / fork busbar comb or NC or GB busbar chassis
- ✓ Suits pole-covers, loadcentres and the Concept range of Panelboards
- ✓ Approval No. N17481 or RCM



General

Tripping Characteristics	B, C, D
Nominal Current Rating At 30 °C	0.5 - 63 A
Poles	1P / 2P / 3P / 4P
Neutral Pole Protected	Yes

Short Circuit

I_{cn} 230 / 400 V 1P / 2P / 3P / 4P	10 / 10 / 10 kA
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Voltage

Nominal Voltage U_n	AC	1P	240, 415 V AC
		3P / 4P	415 V AC
	DC	1P	48 V DC
		2P (in series)	110 V DC

Frequency	50 / 60 Hz
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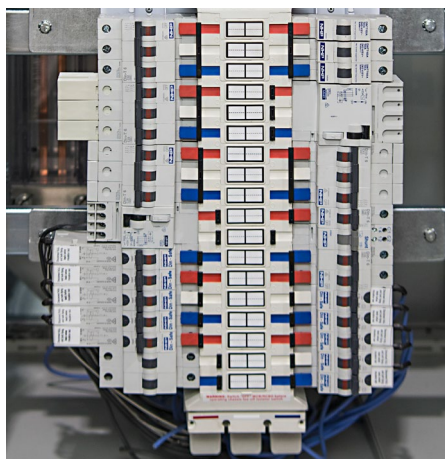
Maximum Service Voltage U_{bmax}	250 / 440 V AC 53 / 120 V DC
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Minimum Service Voltage U_{bmin}	12 V AC
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Connections

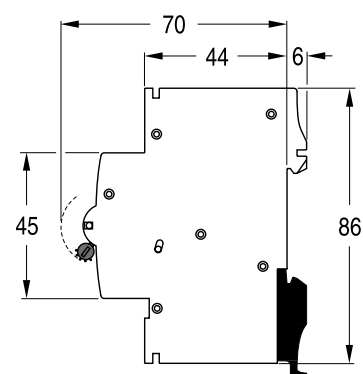
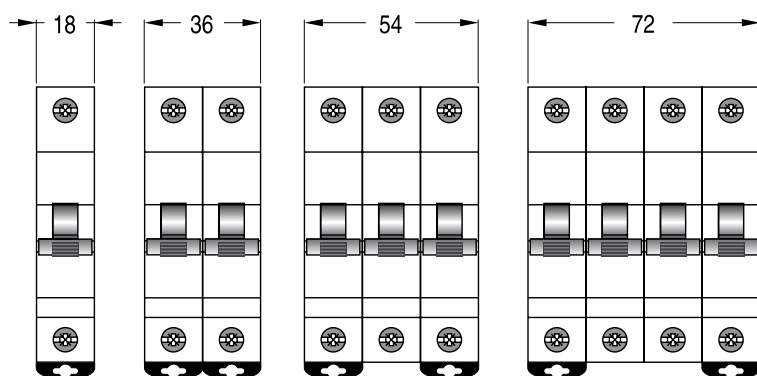
Maximum Cable Size	Rigid / Flexible (Top)	35 mm ² / 25 mm ²
	Rigid / Flexible (Bottom)	35 mm ² / 25 mm ²

Application



Commercial and industrial general light and power applications. Suitable for use in pole-covers, loadcentres utilising fork or pin busbar comb and the Concept range of Panelboards using busbar chassis.

Dimensions



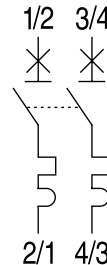


1 Pole



Width 18 mm

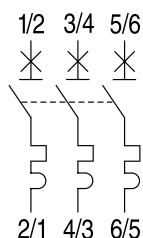
2 Pole



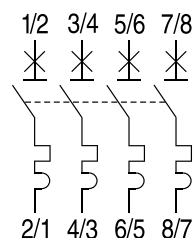
Width 36 mm

I_n (A)	B-Curve (3-5 I_n)	C-Curve (5-10 I_n)	D-Curve (10-20 I_n)
0.5	-	DTCB10105C	DTCB10105D
1	-	DTCB10101C	DTCB10101D
2	-	DTCB10102C	DTCB10102D
3	-	DTCB10103C	-
4	-	DTCB10104C	DTCB10104D
6	DTCB10106B	DTCB10106C	DTCB10106D
10	DTCB10110B	DTCB10110C	DTCB10110D
13	DTCB10113B	DTCB10113C	DTCB10113D
16	DTCB10116B	DTCB10116C	DTCB10116D
20	DTCB10120B	DTCB10120C	DTCB10120D
25	DTCB10125B	DTCB10125C	DTCB10125D
32	DTCB10132B	DTCB10132C	DTCB10132D
40	DTCB10140B	DTCB10140C	DTCB10140D
50	DTCB10150B	DTCB10150C	DTCB10150D
63	DTCB10163B	DTCB10163C	DTCB10163D

I_n (A)	B-Curve (3-5 I_n)	C-Curve (5-10 I_n)	D-Curve (10-20 I_n)
0.5	-	DTCB10205C	DTCB10205D
1	-	DTCB10201C	DTCB10201D
2	-	DTCB10202C	DTCB10202D
3	-	-	-
4	-	DTCB10204C	DTCB10204D
6	DTCB10206B	DTCB10206C	DTCB10206D
10	DTCB10210B	DTCB10210C	DTCB10210D
13	DTCB10213B	DTCB10213C	DTCB10213D
16	DTCB10216B	DTCB10216C	DTCB10216D
20	DTCB10220B	DTCB10220C	DTCB10220D
25	DTCB10225B	DTCB10225C	DTCB10225D
32	DTCB10232B	DTCB10232C	DTCB10232D
40	DTCB10240B	DTCB10240C	DTCB10240D
50	DTCB10250B	DTCB10250C	DTCB10250D
63	DTCB10263B	DTCB10263C	DTCB10263D

3 Pole

Width 54 mm

4 Pole

Width 72 mm

I_n (A)	B-Curve (3-5 I_n)	C-Curve (5-10 I_n)	D-Curve (10-20 I_n)
0.5	–	DTCB10305C	DTCB10305D
1	–	DTCB10301C	DTCB10301D
2	–	DTCB10302C	DTCB10302D
3	–	–	–
4	–	DTCB10304C	DTCB10304D
6	DTCB10306B	DTCB10306C	DTCB10306D
10	DTCB10310B	DTCB10310C	DTCB10310D
13	DTCB10313B	DTCB10313C	DTCB10313D
16	DTCB10316B	DTCB10316C	DTCB10316D
20	DTCB10320B	DTCB10320C	DTCB10320D
25	DTCB10325B	DTCB10325C	DTCB10325D
32	DTCB10332B	DTCB10332C	DTCB10332D
40	DTCB10340B	DTCB10340C	DTCB10340D
50	DTCB10350B	DTCB10350C	DTCB10350D
63	DTCB10363B	DTCB10363C	DTCB10363D

I_n (A)	B-Curve (3-5 I_n)	C-Curve (5-10 I_n)	D-Curve (10-20 I_n)
0.5	–	–	–
1	–	DTCB10401C	–
2	–	DTCB10402C	–
3	–	–	–
4	–	–	–
6	–	DTCB10406C	DTCB10406D
10	–	DTCB10410C	DTCB10410D
13	–	DTCB10413C	DTCB10413D
16	–	DTCB10416C	DTCB10416D
20	–	DTCB10420C	DTCB10420D
25	–	DTCB10425C	DTCB10425D
32	–	DTCB10432C	DTCB10432D
40	–	DTCB10440C	DTCB10440D
50	–	DTCB10450C	DTCB10450D
63	–	DTCB10463C	DTCB10463D

Voltage Ratings

Nominal Voltage U_n	AC	1P	240, 415 V AC
		3P / 4P	415 V AC
	DC	1P	48 V DC
		2P (In Series)	110 V DC
Frequency	50 / 60 Hz		
	DC: 1.4 x mag. trip		
	400 Hz: 1.5 x mag. trip		
Maximum Service Voltage U_{bmax}		250 / 440 V AC 53 / 120 V DC	
Minimum Service Voltage U_{bmin}		12	
Selectivity Class (IEC 60898)		A	
Isolator Application	IEC 60947-2	Yes	
Rated Insulation Voltage	Pollution Degree 2	500 V	
	Pollution Degree 3	440 V	
Impulse Withstand Test Voltage		6 kV	
Insulation Resistance		10000 mOhm	
Dielectric Rigidity		2.5 kV	

Environmental

Vibration Resistance (IEC 77 / 16.3) (in x, y, z direction)		3 g
Endurance	Electrical at U_n , In	10000 cycles
	Mechanical	20000 cycles
Utilisation Category (IEC 60947-2)		A
Protection Degree	Outside	IP20
	Inside	IP40
Self-extinguish Degree (According to UL94)		UL 94 V-2
Tropicalisation (IEC60068-2 / DIN 40046)		+55 °C / 95 % RH
Operating Temperature		-25 °C / +55 °C
Storage Temperature		-55 °C / +55 °C

Connection

Rigid Cable Min / Max (Top)		1 mm ² / 35 mm ²
Flexible Cable Min / Max (Top)		0.75 mm ² / 25 mm ²
Rigid Cable Min / Max (Bottom)		1 mm ² / 35 mm ²
Flexible Cable Min / Max (Bottom)		0.75 mm ² / 25 mm ²
Torque (Top / Bottom)		4.5 / 4.5 Nm
Busbar	Connection Top	Pin
	Connection Bottom	Fork / Pin

Physical

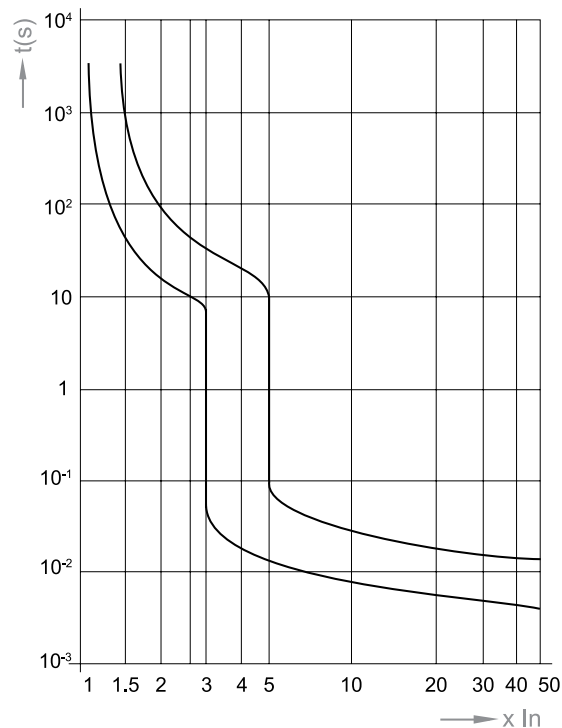
Dimensions (H x W x D)	1P	86 x 18 x 76 mm
	2P	86 x 36 x 76 mm
	3P	86 x 54 x 76 mm
	4P	86 x 72 x 76 mm
Weight		0.12 / 0.24 / 0.36 / 0.48 kg
Package		12 module



Short-Circuit Capacity AC

IEC 60898	I_{cn}	1P	230 / 400 V	10
		2P	230 / 400 V	10
		3P / 4P	230 / 400 V	10
I_{cs} (Service)		% I_{cn}		75
IEC 60947-2	I_{cu} (Ultimate)	1P	127 V	30
			240 V	15
			415 V	4
		2P	127 V	40
			240 V	30
			415 V	15
		3P / 4P	240 V	30
			415 V	15
			440 V	10
			I_{cs} (Service)	
NEMA AB1 (120 / 240 V)				30

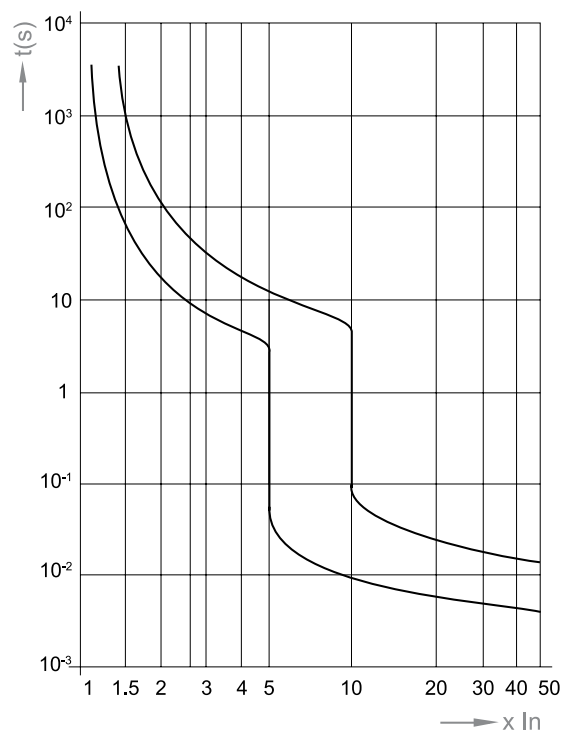
B-Curve Characteristics



Short-Circuit Capacity DC

IEC 60947-2	I_{cu} (Ultimate)	1P	≤ 60 V	25
			≤ 220 V	-
		2P	≤ 125 V	30
			≤ 440 V	-
			I_{cs} (Service)	

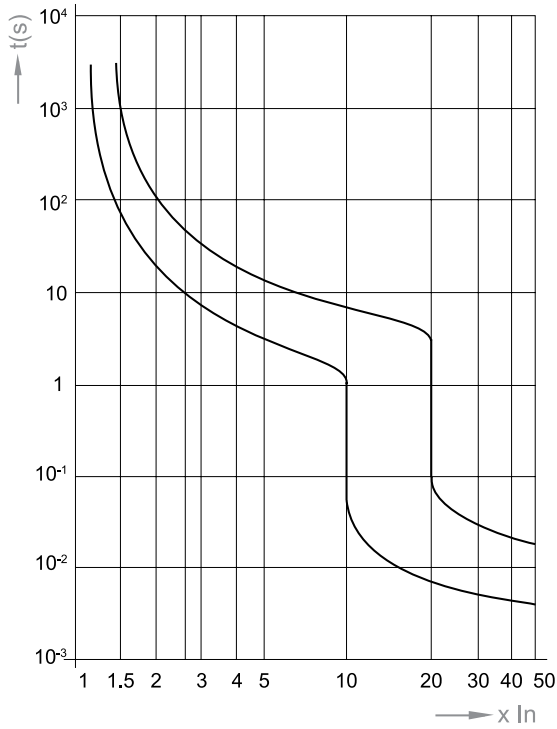
C-Curve Characteristics



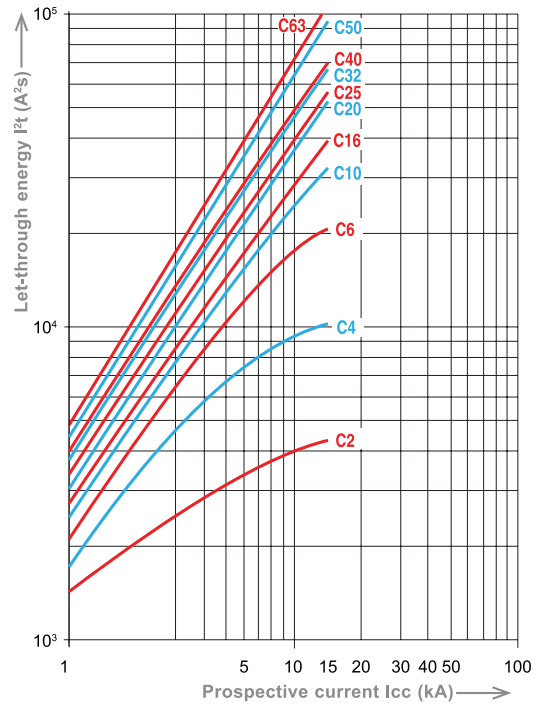


MCBs and RCBOs

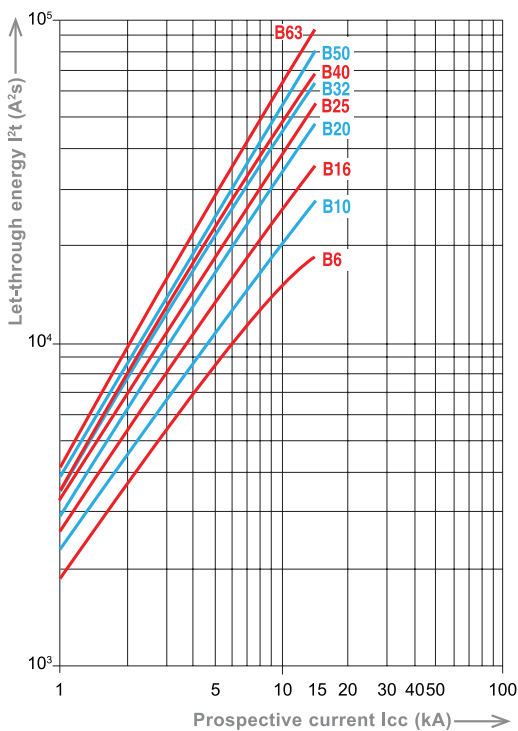
D-Curve Characteristics



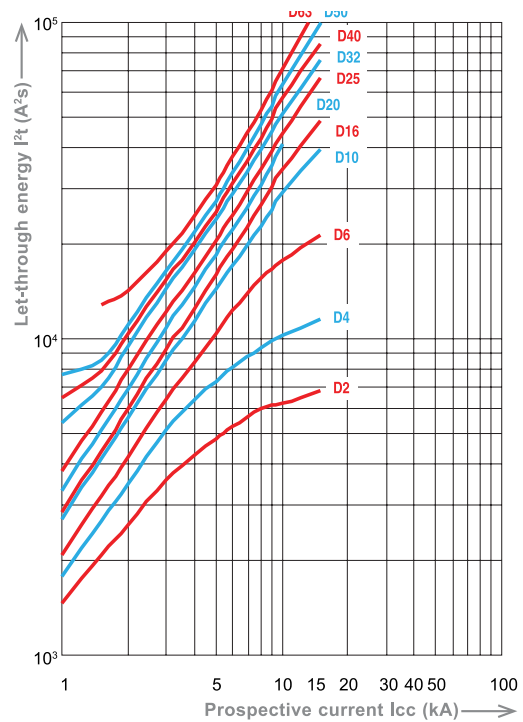
Let-through Energy I^2t (A²s) C-Curve



Let-through Energy I^2t (A²s) B-Curve

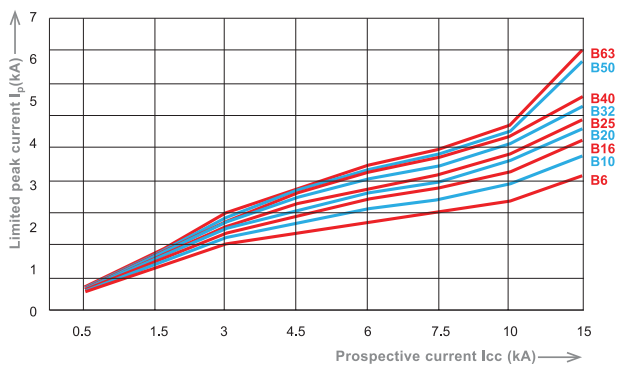


Let-through Energy I^2t (A²s) D-Curve

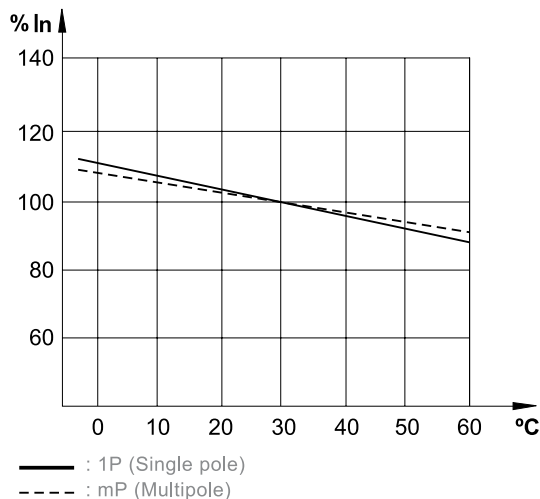




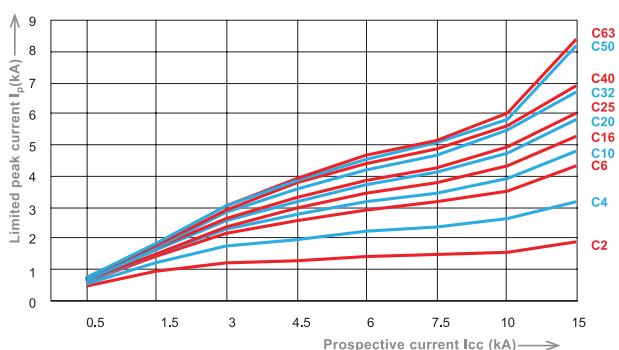
Limited Peak Current (kA) at 230 / 400 V B-Curve



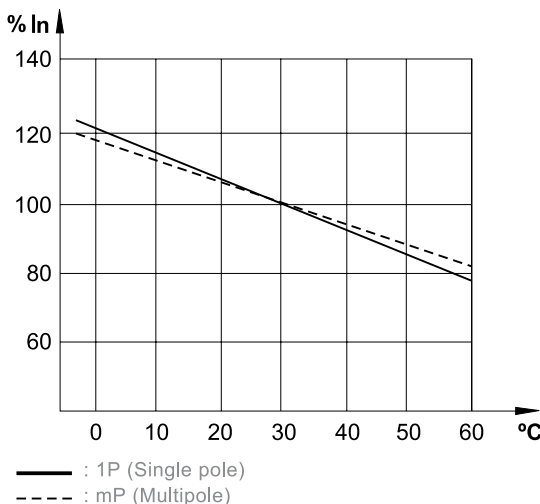
Ambient Temperature Influence at 0.5 - 6 A



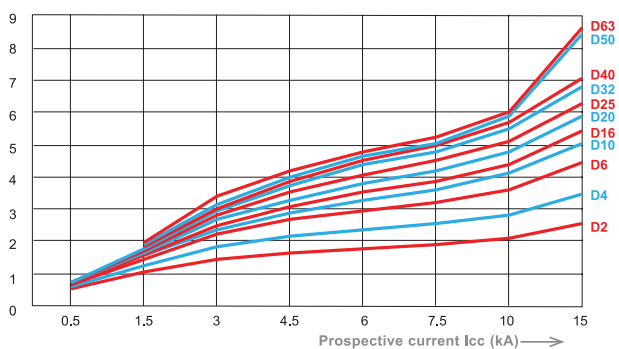
Limited Peak Current (kA) at 230 / 400 V C-Curve



Ambient Temperature Influence at 10 A

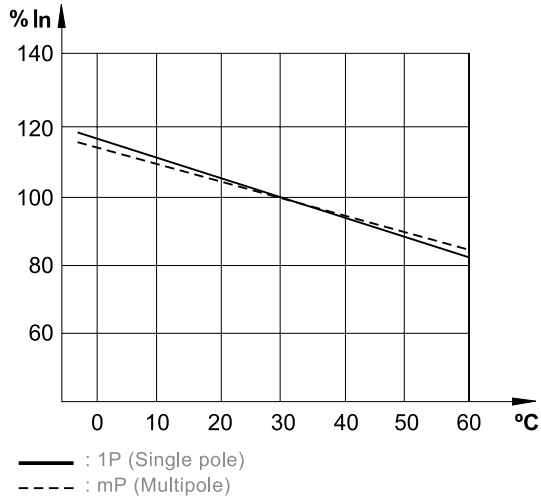


Limited Peak Current (kA) at 230 / 400 V D-Curve

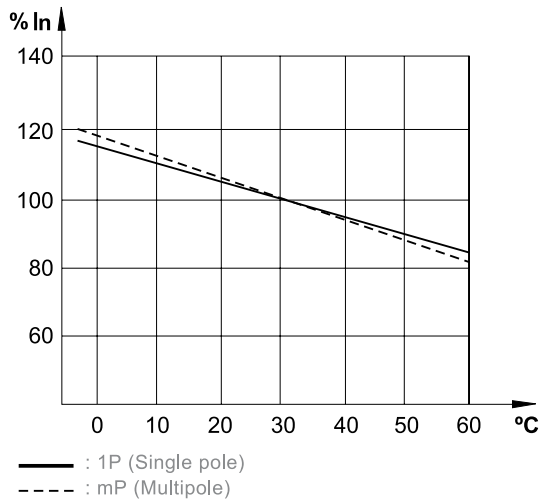




Ambient Temperature Influence at 16-40 A



Ambient Temperature Influence at 50-63 A



Power Loss

I_n (A)	Voltage Drop (V)	Energy Loss P_w (W)	Resistance Z (mOhm)
0.5	2.23	1.12	4458.00
1	1.27	1.27	1272.00
2	0.62	1.24	310.00
3	0.52	1.56	173.00
4	0.37	1.49	93.00
6	0.26	1.57	43.60
8	0.16	1.24	19.40
10	0.16	1.56	15.60
13	0.16	2.01	11.90
16	0.16	2.57	10.10
20	0.14	2.76	6.90
25	0.13	3.19	5.10
32	0.10	3.07	3.00
40	0.10	4.00	2.50
50	0.09	4.50	1.80
63	0.08	5.16	1.30

DTCB10H



- ✓ High speed and rapid arc quenching technology ensuring the highest level of protection is provided
- ✓ DIN rail mounting
- ✓ Free tripping mechanism even if toggle is locked ON or OFF
- ✓ AS/NZS 60947-2 & AS/NZS 60898*
- ✓ Centre trip position & trip test button
- ✓ Red ON or Green OFF status flag
- ✓ Sealable for tamper proof operation
- ✓ Pad lock accessory restricts unauthorized action
- ✓ Large capacity terminals
- ✓ 2 arc chambers ensuring excellent operating/backup characteristics
- ✓ Fast connection NCH Hybrid busbar chassis
- ✓ For commercial and industrial applications
- ✓ Suits pole-covers, loadcentres and the Concept range of Panelboards

* When not mounted on NCH chassis IP20 shroud must be fitted



General

Tripping Characteristics	B, C, D
Nominal Current Rating At 40 °C	80 - 125
Poles	1P / 2P / 3P / 4P
Neutral Pole Protected	Yes

Short Circuit

I _{cn} 230 / 400 V 1P / 2P / 3P / 4P	15 / 15 / 15 / 15 kA
---	----------------------

Voltage

AC	1P	240, 415 V AC
	3P / 4P	415 V AC
Nominal Voltage U _n	1P	125 V DC
	DC 2P (In Series)	250 V DC
	3P / 4P	375 / 500 V DC
Frequency	50 / 60 Hz	
Maximum Service Voltage U _{bmax}	250 / 440 V AC 125 V DC per pole	
Minimum Service Voltage U _{bmin}	12 V AC	

Connections

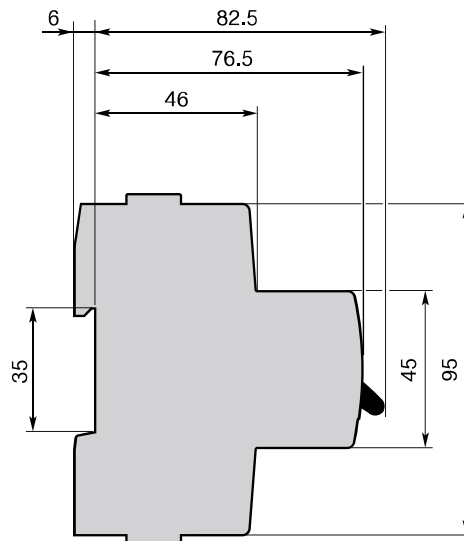
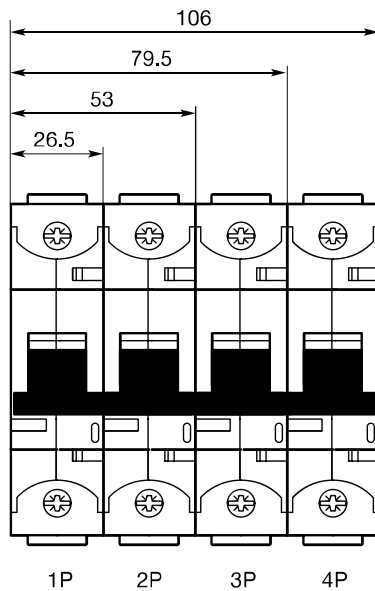
Maximum Cable Size	Rigid / Flexible (Top)	50 mm ² / 70 mm ²
	Rigid / Flexible (Bottom)	50 mm ² / 70 mm ²

Application



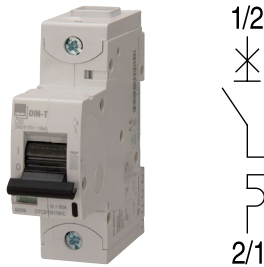
Commercial and industrial power applications when circuits exceed 63 A. Suitable for use in pole-covers, loadcentres and the Concept range of Panelboards with hybrid chassis.

Dimensions



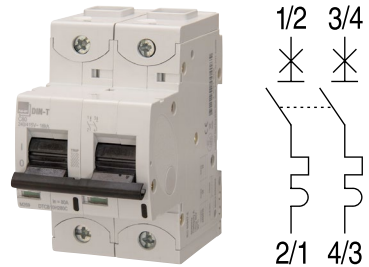


1 Pole



Width 27 mm

2 Pole

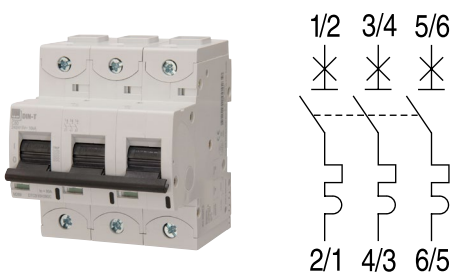


Width 53 mm

Amps (I _n)	B-Curve (3-5 I _n)	C-Curve (5-10 I _n)	D-Curve (10-20 I _n)
80	DTCB10H180B	DTCB10H180C	DTCB10H180D
100	DTCB10H1100B	DTCB10H1100C	DTCB10H1100D
125	DTCB10H1125B	DTCB10H1125C	DTCB10H1125D

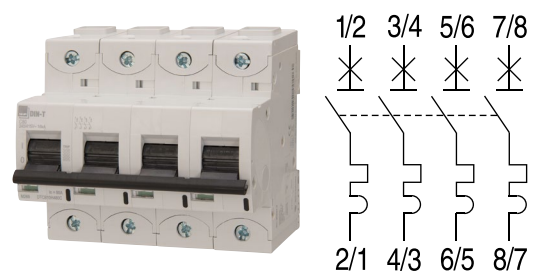
Amps (I _n)	B-Curve (3-5 I _n)	C-Curve (5-10 I _n)	D-Curve (10-20 I _n)
80	DTCB10H280B	DTCB10H280C	DTCB10H280D
100	DTCB10H2100B	DTCB10H2100C	DTCB10H2100D
125	DTCB10H2125B	DTCB10H2125C	DTCB10H2125D

3 Pole



Width 80 mm

4 Pole



Width 106 mm

Amps (I _n)	B-Curve (3-5 I _n)	C-Curve (5-10 I _n)	D-Curve (10-20 I _n)
80	DTCB10H380B	DTCB10H380C	DTCB10H380D
100	DTCB10H3100B	DTCB10H3100C	DTCB10H3100D
125	DTCB10H3125B	DTCB10H3125C	DTCB10H3125D

Amps (I _n)	B-Curve (3-5 I _n)	C-Curve (5-10 I _n)	D-Curve (10-20 I _n)
80	DTCB10H480B	DTCB10H480C	DTCB10H480D
100	DTCB10H4100B	DTCB10H4100C	DTCB10H4100D
125	DTCB10H4125B	DTCB10H4125C	DTCB10H4125D

Voltage Ratings

Nominal Voltage U_n	AC	1P	240, 415 V AC
		3P / 4P	415 V AC
	DC	1P	125 V DC
		2P (In Series)	250 V DC
3P		375 V DC	
4P		500 V DC	
Frequency	50 / 60 Hz		
	DC: 1.4 x mag. trip 400Hz: 1.5 x mag. trip		
Maximum Service Voltage U_{bmax}	250 / 440 V AC 125 V DC per pole		
Minimum Service Voltage U_{bmin}	12		
Selectivity Class (IEC 60898)	A		
Isolator Application	IEC 60947-2	Yes	
Rated Insulation Voltage	Pollution Degree 2	500 V	
	Pollution Degree 3	500 V	
Impulse Withstand Test Voltage	8 kV		
Insulation Resistance	10000 mOhm		
Dielectric Rigidity	2.5 kV		

Environmental

Vibration Resistance acc. to IEC / EN 60068-2-6	2 - 13.2 Hz / 1 mm 13.2 - 100 Hz / 0.7 g	
Endurance	Electrical at U_n, I_n	6000 (80 - 100 A) 4000 (125 A)
	Mechanical	10000 cycles
Utilisation Category (IEC 60947-2)	A	
Protection Degree	Outside	IP20
	Inside	IP40
Self-extinguish Degree (According to UL94)	-	
Tropicalisation (IEC60068-2 / DIN 40046)	+55 °C / 95% RH	
Operating Temperature	-25 °C / +60 °C	
Storage Temperature	-40 °C / +70 °C	

Connection

Rigid Cable Min / Max (Top)	50 mm ² / 50 mm ²	
Flexible Cable Min / Max (Top)	70 mm ² / 70 mm ²	
Rigid Cable Min / Max (Bottom)	6 mm ² / 50 mm ²	
Flexible Cable Min / Max (Bottom)	6 mm ² / 70 mm ²	
Torque (Top / Bottom)	3 / 4 Nm	
Busbar	Connection Top	-
	Connection Bottom	-

Physical

Dimensions (H x W x D)	1P	100 x 27 x 90 mm
	2P	100 x 53 x 90 mm
	3P	100 x 80 x 90 mm
	4P	100 x 106 x 90 mm
Weight	0.25 / 0.49 / 0.74 / 0.98 kg	
Package	1 module	

Short-Circuit Capacity AC

IEC 60898	I _{cn}	1P	230 / 400 V	15 kA	
		2P	230 / 400 V	15 kA	
		3P / 4P	230 / 400 V	15 kA	
	I _{cs (Service)}	% I _{cn}	50		
IEC 60947-2	I _{cu (Ultimate)}	1P	127 V	-	
			240 V	16 kA	
		415 V	16 kA		
		2P	127 V	-	
			240 V	16 kA	
		415 V	16 kA		
	3P / 4P	240 V	16 kA		
		415 V	16 kA		
		I _{cs (Service)}	10 kA		
		NEMA AB1 (120 / 240 V)	-		



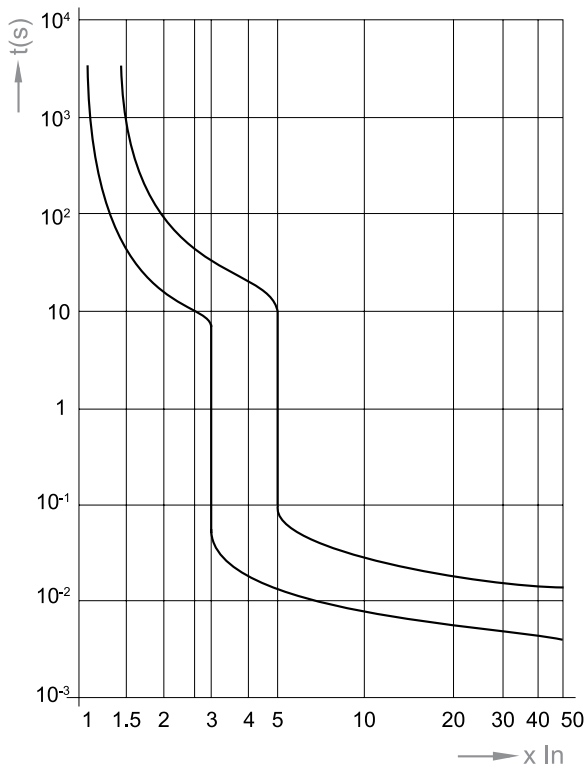
Short-Circuit Capacity DC

IEC 60947-2	I _{cu} (Ultimate)	1P 125V	10 kA
		2P 250V	10 kA
		3P 375V	10 kA
		4P 500V	10 kA
	I _{cs} (Service)	% I _{cu}	100

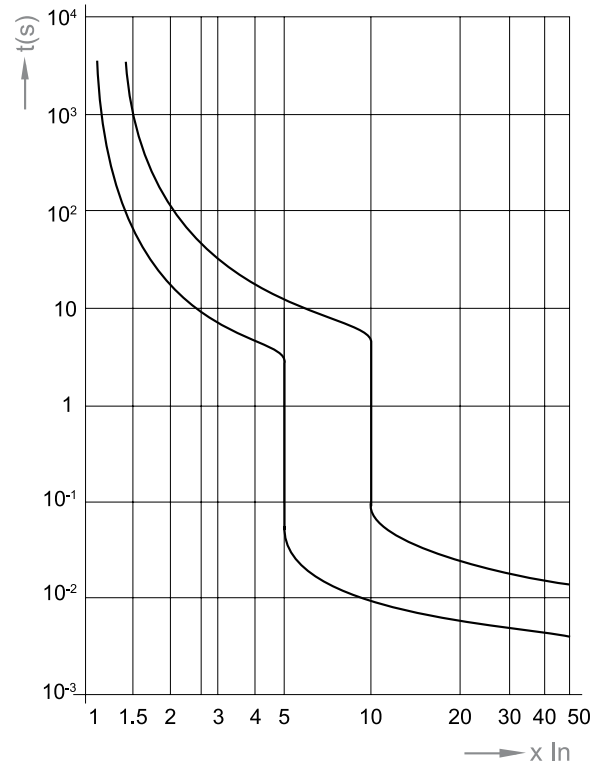
Power Loss

I _n (A)	Voltage Drop (V)	Energy Loss P _w (W)	Resistance Z (mOhm)
80	0.08	6.00	0.90
100	0.08	7.50	0.75
125	0.08	9.50	0.60

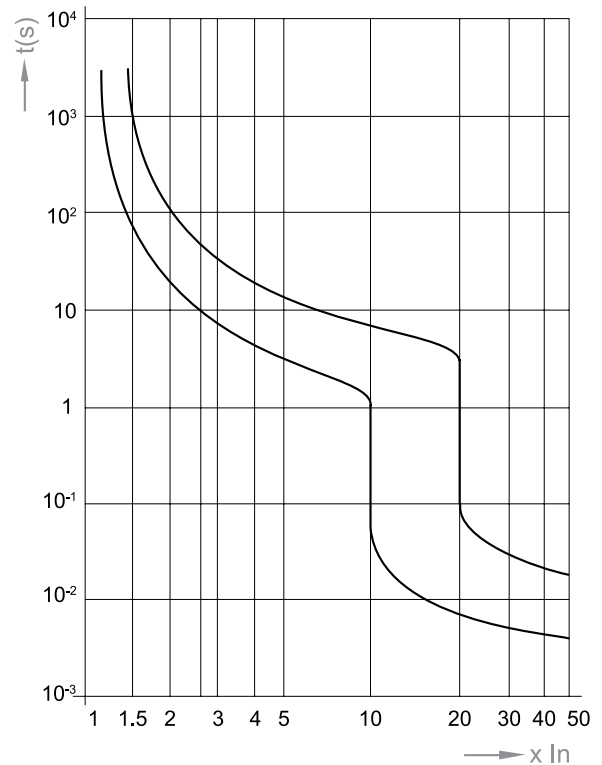
B-Curve Characteristics



C-Curve Characteristics



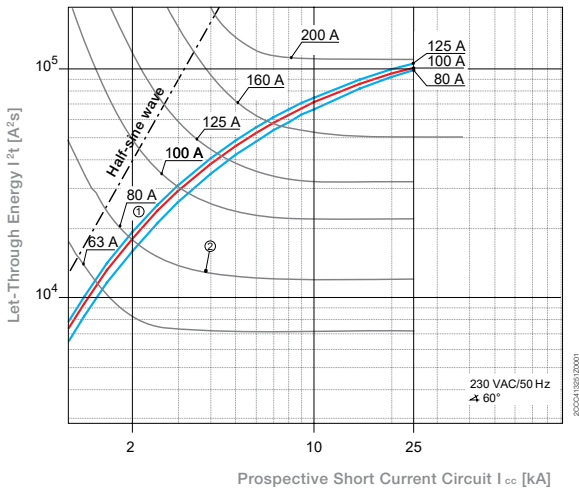
D-Curve Characteristics



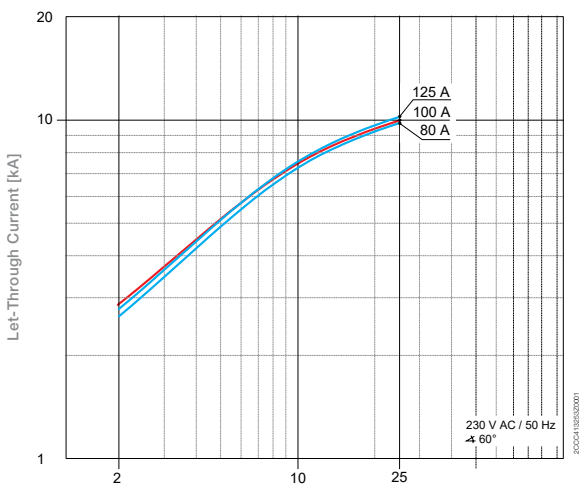
MCBs and RCBOs



230/400V Let-through energy



230/400V Let-through current



DIN-T15



- ✓ High speed and rapid arc quenching technology ensuring the highest level of protection is provided
- ✓ DIN rail mounting
- ✓ Free tripping mechanism even if toggle is locked ON or OFF
- ✓ Complies with AS/NZS 60947-2
- ✓ DIN-T15 MCBs feature 15 kA+ short circuit rating
- ✓ C curve for general light, power and motor starting applications
- ✓ Pad lockable and sealable toggle restricts unauthorized action
- ✓ Large capacity terminals
- ✓ $I_{CS} = 50\% I_{CU}$
- ✓ Fast connection pin busbar comb or NC or GB busbar chassis
- ✓ For industrial applications
- ✓ Suits pole-covers, loadcentres and the Concept range of Panelboards



General

Tripping Characteristics	C
Nominal Current Rating At 30 °C	6 - 63 A
Poles	1P / 2P / 3P / 4P
Neutral Pole Protected	Yes

Short Circuit

I_{cn} 230 / 400 V 1P / 2P / 3P / 4P	15 / 15 / 15 / 15 kA
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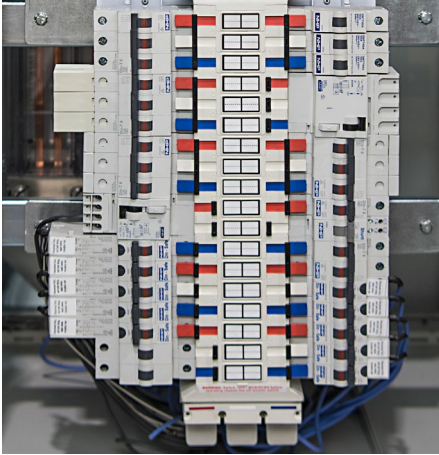
Voltage

Nominal Voltage U_n	AC	1P	240, 415 V AC
		3P / 4P	415 V AC
	DC	1P	48 V DC
		2P (In Series)	110 V DC
Frequency	50 / 60 Hz		
Maximum Service Voltage U_{bmax}	250 / 440 V AC 53 / 120 V DC		
Minimum Service Voltage U_{bmin}	12 V AC		

Connections

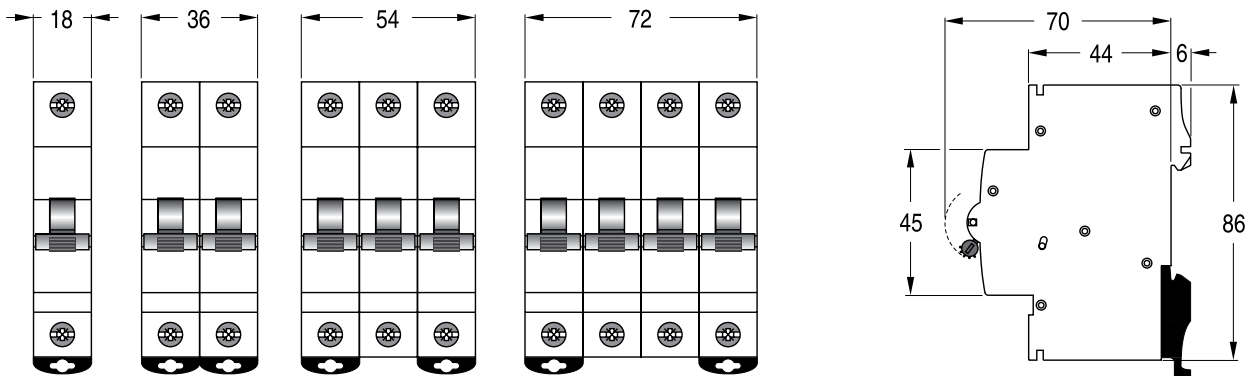
Maximum Cable Size	Rigid / Flexible (Top)	35 mm ² / 25 mm ²
	Rigid / Flexible (Bottom)	35 mm ² / 25 mm ²

Application

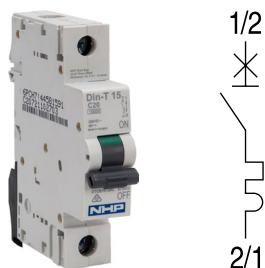


Industrial and mining light and power applications. Suitable for use in pole-covers, loadcentres utilising fork or pin busbar comb and the Concept range of Panelboards using busbar chassis.

Dimensions

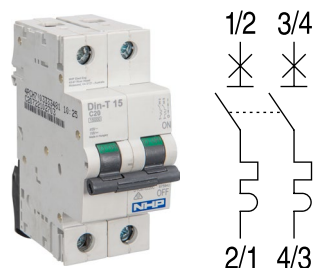


1 Pole



Width 18 mm

2 Pole



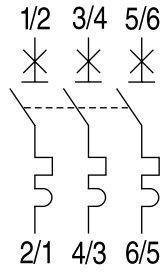
Width 36 mm

Amps (In)	C-Curve (5-10 In)
6	DTCB15106C
10	DTCB15110C
13	DTCB15113C
16	DTCB15116C
20	DTCB15120C
25	DTCB15125C
32	DTCB15132C
40	DTCB15140C
50	DTCB15150C
63	DTCB15163C

Amps (In)	C-Curve (5-10 In)
6	DTCB15206C
10	DTCB15210C
13	DTCB15213C
16	DTCB15216C
20	DTCB15220C
25	DTCB15225C
32	DTCB15232C
40	DTCB15240C
50	DTCB15250C
63	DTCB15263C

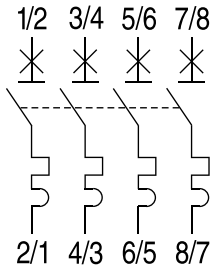


3 Pole



Width 54 mm

4 Pole



Width 72 mm

Amps (In)	C-Curve (5-10 In)
6	DTCB15306C
10	DTCB15310C
13	DTCB15313C
16	DTCB15316C
20	DTCB15320C
25	DTCB15325C
32	DTCB15332C
40	DTCB15340C
50	DTCB15350C
63	DTCB15363C

Amps (In)	C-Curve (5-10 In)
6	DTCB15406C
10	DTCB15410C
13	DTCB15413C
16	DTCB15416C
20	DTCB15420C
25	DTCB15425C
32	DTCB15432C
40	DTCB15440C
50	DTCB15450C
63	DTCB15463C

Voltage Ratings

Nominal Voltage U_n	AC	1P	240, 415 V AC
		3P / 4P	415 V AC
	DC	1P	48 V DC
		2P (In Series)	110 V DC
Frequency	50 / 60 Hz		
	DC: 1.4 x mag. trip		
	400 Hz: 1.5 x mag. trip		
Maximum Service Voltage U_{bmax}		250 / 440 V AC 53 / 120 V DC	
Minimum Service Voltage U_{bmin}		12	
Selectivity Class (IEC 60898)		A	
Isolator Application	IEC 60947-2	Yes	
Rated Insulation Voltage	Pollution Degree 2	500 V	
	Pollution Degree 3	440 V	
Impulse Withstand Test Voltage		6 kV	
Insulation Resistance		10000 mOhm	
Dielectric Rigidity		2.5 kV	

Environmental

Vibration Resistance (IEC 77 / 16.3) (in x, y, z direction)		3 g
Endurance	Electrical at U_n, I_n	4000 cycles
	Mechanical	20000 cycles
Utilisation Category (IEC 60947-2)		A
Protection Degree	Outside	IP20
	Inside	IP40
Self-extinguish Degree (According to UL94)		UL 94 V-2
Tropicalisation (IEC60068-2 / DIN 40046)		+55 °C / 95 % RH
Operating Temperature		-25 °C / +55 °C
Storage Temperature		-55 °C / +55 °C

Connection

Rigid Cable Min / Max (Top)		1 mm ² / 35 mm ²
Flexible Cable Min / Max (Top)		0.75 mm ² / 25 mm ²
Rigid Cable Min / Max (Bottom)		1 mm ² / 35 mm ²
Flexible Cable Min / Max (Bottom)		0.75 mm ² / 25 mm ²
Torque (Top / Bottom)		4.5 / 4.5 Nm
Busbar	Connection Top	Pin
	Connection Bottom	Fork / Pin

Physical

Dimensions (H x W x D)	1P	86 x 18 x 76 mm
	2P	86 x 36 x 76 mm
	3P	86 x 54 x 76 mm
	4P	86 x 72 x 76 mm
Weight		0.12 / 0.24 / 0.36 / 0.48 kg
Package		12 module



Short-Circuit Capacity AC

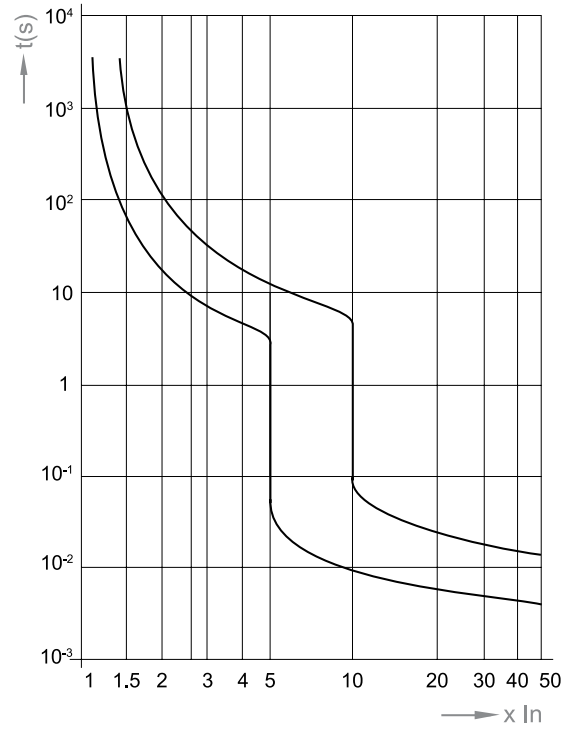
IEC 60898	I_{cn}	1P	230 / 400 V	-		
		2P	230 / 400 V	-		
		3P / 4P	230 / 400 V	-		
I_{cs} (Service)		% I_{cn}	50			
IEC 60947-2	I_{cu}^* (Ultimate)	1P	127 V	50		
			240 V	25 / 20 / 15		
		2P	127 V	-		
			240 V	50 / 40 / 30		
		3P / 4P	127 V	-		
			240 V	50 / 40 / 30		
		3P / 4P	415 V	25 / 20 / 15		
			440 V	20 / 15 / 10		
		I_{cs} (Service)		% I_{cu}	75	
		NEMA AB1 (120 / 240 V)		-		

* 6-25 A / 32-40 A / 50-63 A

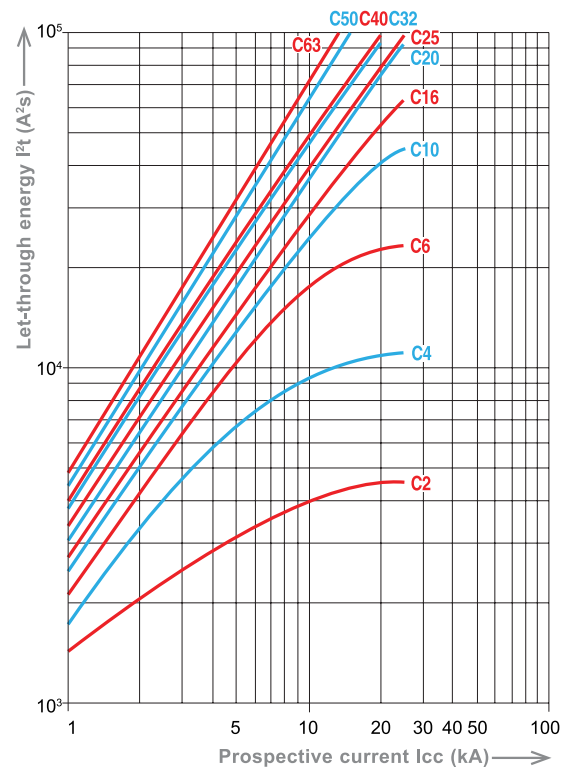
Short-Circuit Capacity DC

IEC 60947-2	I_{cu} (Ultimate)	1P	≤ 60 V	25
			≤ 220 V	-
		2P	≤ 125 V	30
			≤ 440 V	-
I_{cs} (Service)		% I_{cu}	100	

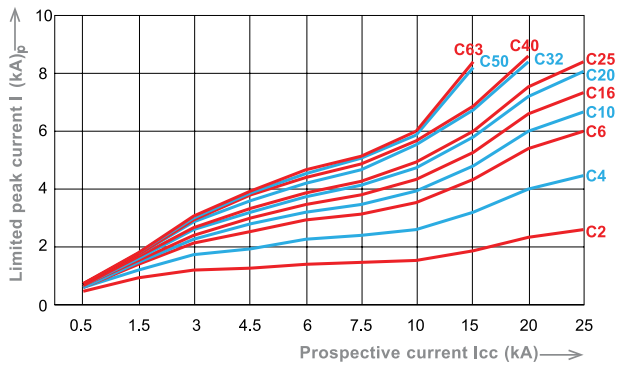
C-Curve Characteristics



Let-through energy $I^2 t$ (A² s) C-Curve



Limited peak current (kA) at 230 / 400 V C-Curve



Power Loss

I_n (A)	Voltage Drop (V)	Energy Loss P_w (W)	Resistance Z (mOhm)
0.5	2.23	1.12	4458.00
1	1.27	1.27	1272.00
2	0.62	1.24	310.00
3	0.52	1.56	173.00
4	0.37	1.49	93.00
6	0.26	1.57	43.60
8	0.16	1.24	19.40
10	0.16	1.56	15.60
13	0.16	2.01	11.90
16	0.16	2.57	10.10
20	0.14	2.76	6.90
25	0.13	3.19	5.10
32	0.10	3.07	3.00
40	0.10	4.00	2.50
50	0.09	4.50	1.80
63	0.08	5.16	1.30

General Accessories

Pole Filler, Lock Dogs and Terminals

Lock Dog to securely lock off devices. Pole filler to cover unused spaces in loadcentres and Panelboards. Terminal pins to allow connection of larger cables or multiple cables to a terminal.

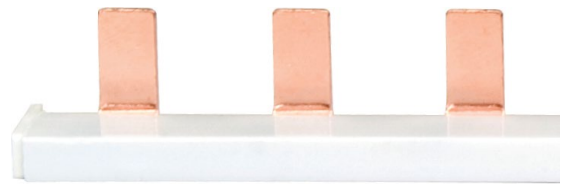


Item Description	Catalogue No.
Terminal 3 X 16 mm neutral link to suit RCCB	DTTAX16PN3

Pin Type Busbar Combs

IBC Type - 1-Phase (Comes Complete with End Caps)

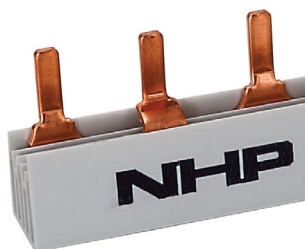
Suitable for linking regular 18 mm pitch terminals, DIN-T Main Switches, MCBs and RCBOs in a loadcenter or in a control centre. Pin type busbar comb utilises the devices main tunnel terminal.



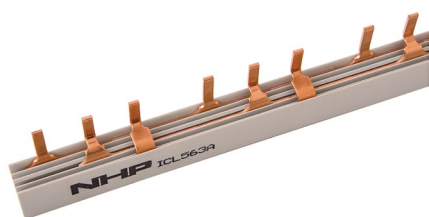
Item Description	Catalogue No.
Busbar Comb, 8 way, 100 A, 1P, Pin type with end caps	IBC108P
Busbar Comb, 12 way, 100 A, 1P, Pin type with end caps	IBC112P
Busbar Comb, 15 way, 100 A, 1P, Pin type with end caps	IBC115P
Busbar Comb, 18 way, 100 A, 1P, Pin type with end caps	IBC118P
Busbar Comb, 21 way, 100 A, 1P, Pin type with end caps	IBC121P
Busbar Comb, 55 way, 100 A, 1P, Pin type with end caps	IBC155P

ICL Type - 2P, 3P and 3P+N

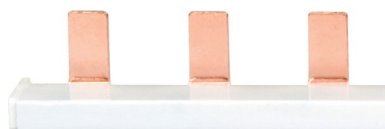
Suitable for linking regular 18 mm pitch terminals, DIN-T Main Switches, MCBs and RCBOs in a loadcenter or in a control centre. Pin type busbar comb utilises the devices main tunnel terminal.



Item Description	Catalogue No.
Busbar Comb, 10 way, 80 A / 130 A, 1P+N, Pin type	ICL102
Busbar Comb, 56 way, 80 A / 130 A, 1P+N, Pin type	ICL562
Busbar Comb 6 way, 80 A / 130 A, 1P+N, Pin type	ICL62



Item Description	Catalogue No.
Busbar Comb 56 way, 80 A / 130 A, 3P+AUX, Pin type	ICL563A
Busbar Comb 56 way, 80 A / 130 A, 3P+N, Pin type	ICL564



Item Description	Catalogue No.
Busbar Comb, 12 way, 80 A / 130 A, 3P, Pin type	ICL123
Busbar Comb, 15 way, 80 A / 130 A, 3P, Pin type	ICL153
Busbar Comb, 18 way, 80 A / 130 A, 3P, Pin type	ICL183
Busbar Comb, 21 way, 80 A / 130 A, 3P, Pin type	ICL213
Busbar Comb, 57 way, 80 A / 130 A, 3P, Pin type	ICL573

IBD Type - 3P

Suitable for linking 9 mm pitch terminals, 2-in-1 MCBs and RCBOs in a loadcenter or in a control centre. Pin type busbar comb utilises the devices main tunnel terminal.



Item Description	Catalogue No.
Busbar Comb 12 way, 80 A / 100 A, 3P, suits DTCBD	IBD312P
Busbar Comb 55 way, 80 A / 100 A, 3P, suits DTCBD	IBD355P
Busbar Comb 55 way, 80 A / 100 A, 3P+N, Pin type, suits 2P M6RCBD and DTCBD	IBD4552P
Busbar Comb 55 way, 80 A / 100 A, 3P+N, Pin type, suits DTCBD64	IBD4554P



Busbar Comb End caps

IBC and IBD Busbar End Caps

End caps to cover the end of cut busbar comb.



Item Description	Catalogue No.
Buscomb End Cap to suit 2P and 3P IBD	ICLEC23
Buscomb End Cap to suit 3P+N ICL	ICLEC4

Busbar Comb Tee-off cap

Barrier / cover to bare tee-offs on busbar comb.



Item Description	Catalogue No.
Buscomb Tee-Off Caps Yellow (Strip of 5)	ICLTOC

Terminal Connectors

Allows connection of cable to terminal, either larger cable or changes direction for cable termination.



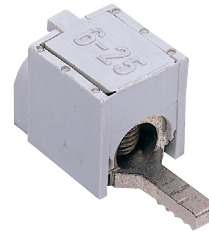
Item Description	Catalogue No.
Buscomb Terminal Feeder 35 mm	DTCF35



Item Description	Catalogue No.
Terminal Lateral Spade 35 mm to suit DIN MCBs	DTTLT35SP



Item Description	Catalogue No.
Terminal Axial Pin 25 mm ² (Insulated) to suit DIN MCBs	DTTAX25PN



Item Description	Catalogue No.
Terminal Axial Pin 50 mm (insulated) to suit DIN MCBs	DTTAX50PN



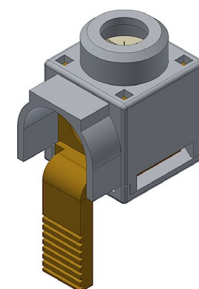
Item Description	Catalogue No.
Terminal Axial Spade 25 mm (insulated) to suit DIN MCBs	DTTAX25SP



Item Description	Catalogue No.
Terminal Lateral Pin 35 mm to suit DIN MCBs	DTTLT35PN



Item Description	Catalogue No.
Terminal Long Lateral Pin 35 mm to suit DIN MCBs	DTTLT35LPN



Item Description	Catalogue No.
Terminal rear connect 25mm pin	DTT9025PN



Terminal Covers and Pole Fillers

Barrier / cover to MCBs, RCBOs or fills void/cut-out in an escutcheon.



Item Description	Catalogue No.
Terminal Cover IP20 suits DTCB10H (required when not fitted to busbar chassis)	DTCB10HSRD



Item Description	Catalogue No.
Terminal Cover 35 mm suits DSRCBH	DSRCBHTC



Item Description	Catalogue No.
DIN Dummy MCB (Filler for touch protection)	DTLDM



Item Description	Catalogue No.
DIN Spacer 1 / 2 Module 9 mm width	DTSP



Item Description	Catalogue No.
Terminal Cover 35 mm suits DIN-T MCBs	DTTC35



Item Description	Catalogue No.
Terminal Cover 5 mm suits DIN-T MCBs	DTTC5

Other Lock Dogs (Non-Captive and Captive)

Allows for MCBs, RCBOs to be locked off by means of customer supplied padlock.



Item Description	Catalogue No.
DIN-T Metal Lock Dog Captive 6.5 mm	DCLD6



Item Description	Catalogue No.
DIN Lock Dog, Non-Captive suits hasp up to 8.0 mm.	DTLD

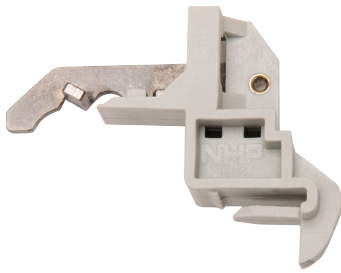


Item Description	Catalogue No.
DIN-T10H Lock Dog, Non-Captive suits hasp up to 7.0 mm.	DTLDH

LOCKDIN

Locking Devices

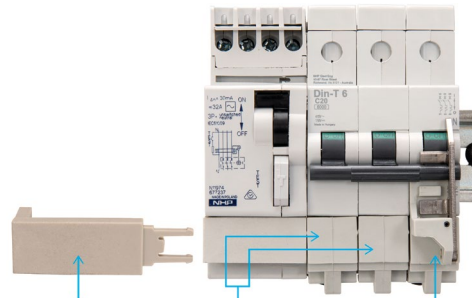
Captive locking system for MCBs, RCBOs to be securely locked off by means of customer supplied padlock up to 7.0 mm.



Item Description	Catalogue No.
LOCKDIN Left Hand Locking Assembly for MCBs and DSRCBH	DTLLA
LOCKDIN Right Hand / Left Hand Locking Assembly for DTCB MCB 27mm suit 1P-4P	DTLLADTCB10H
LOCKDIN Right Hand Locking Assembly for MCBs and DSRCBH	DTLLARH
LOCKDIN Left Hand Locking Assembly for 2 Pole RCBOs	DTLLAB
LOCKDIN Right Hand Locking Assembly for 2 Pole RCBOs	DTLLABRH
LOCKDIN Right Hand / Left Hand Locking Assembly for DIN-T 10H	DTLLA10H
LOCKDIN Left Hand Locking Assembly for MCBs and DSRCBH (12 Pack)	DTLLABULK
LOCKDIN Right Hand Locking Assembly for MCBs and DSRCBH (12 Pack)	DTLLARHBULK

Pole Fillers and Blanking Devices

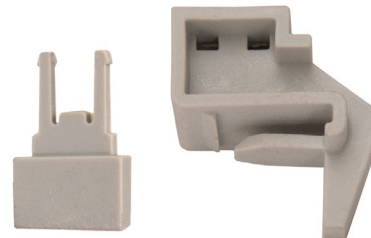
Captive locking system for MCBs, RCBOs to be securely locked off by means of customer supplied padlock.



Item Description	Catalogue No.
LOCKDIN Locking Blank for DSRCM (Add On RCCB), 3 Pole MCBs	DTLCM

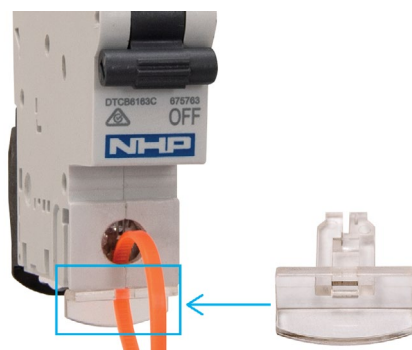


Item Description	Catalogue No.
1 strip of 12 poles (24 x 9 mm segments)	DTPF12



Item Description	Catalogue No.
LOCKDIN Locking Blank for MCBs and DSRCBH (12 Pack)	DTLLB

Additional Accessories



Item Description	Catalogue No.
DIN-T Sealing Plate 4 Pack to suit DIN-T MCBs	DTCBSEALPLATE



Item Description	Catalogue No.
RESIN	LOCTITE480

DIN-Safe RCBO Single Pole Width 10kA (DSRCBH)



- ✓ High speed and rapid arc quenching technology ensuring the highest level of protection is provided
- ✓ DIN rail mounting
- ✓ Free tripping mechanism even if toggle is locked or sealed ON or OFF
- ✓ Complies with AS/NZS 61009 (RCBOs)
- ✓ DSRCBH RCBOs feature 10 kA short circuit rating
- ✓ C curve for general light, power and motor starting applications
- ✓ D trip curve for high Inrush, motorstarting and transformer applications
- ✓ Type A RCD
- ✓ 30 mA sensitivity general personnel protection applications
- ✓ 10 mA sensitivity option for higher risk applications
- ✓ 100 mA sensitivity option
- ✓ Single screw RCBO features a neutral pigtail saving cable and installation time
- ✓ Pad lockable and sealable toggle restricts unauthorized action
- ✓ Fast connection pin/fork busbar comb or NC or GB busbar chassis
- ✓ Suits metal loadcentres and the Concept range of Panelboards
- ✓ Approval No. N17482 or RCM
- ✓ 10 mA units compliant with Type 1 requirements

General

Tripping Characteristics	C, D
Sensitivity $I\Delta n$	10, 30, 100 mA
RCD Type	A
Nominal Current Rating at 30 °C	6 - 40 A
Poles	1P + N
Switched Neutral	No

Short Circuit

Icn 230 1P	10000
I Δ m	10000

Voltage

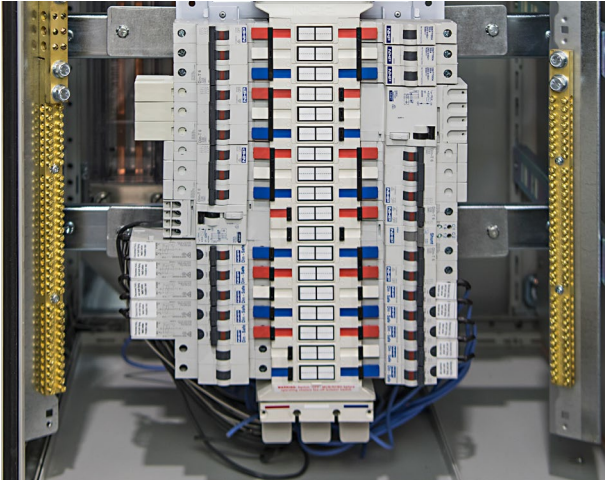
Frequency	50 / 60 Hz
Maximum Service Voltage U_{bmax}	265 V AC
Minimum Service Voltage U_{bmin}	195

Connections

Maximum Cable Size	Rigid / Flexible (Top)	25 mm ² / 16 mm ²
	Rigid / Flexible (Bottom)	35 mm ² / 25 mm ²

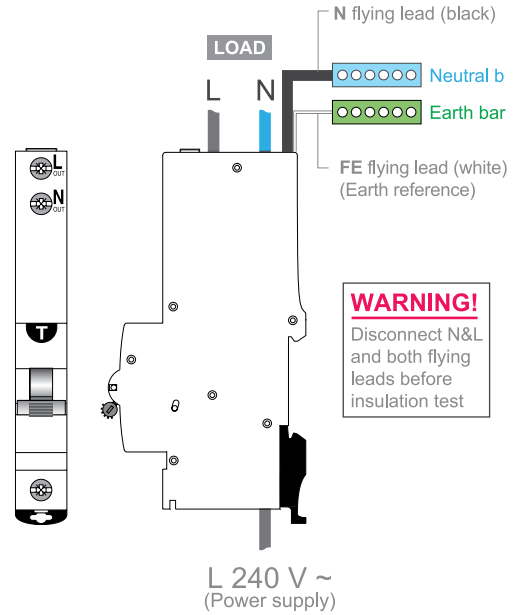


Application

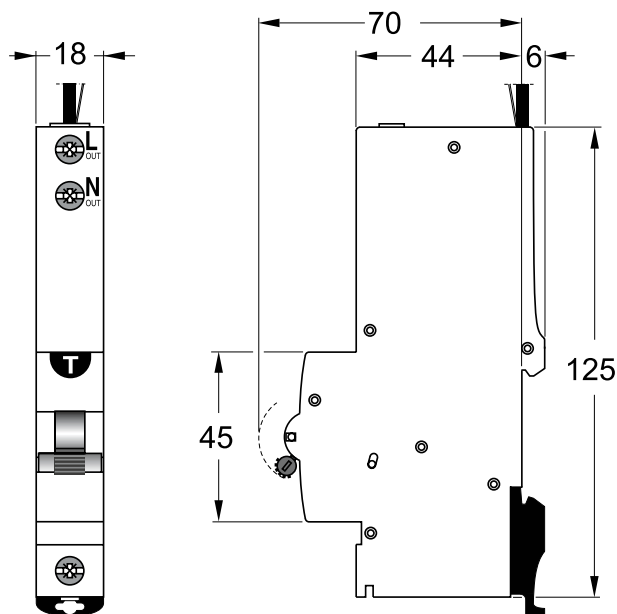


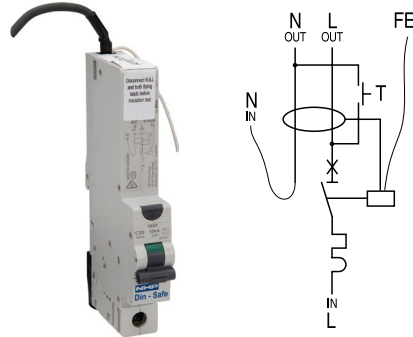
Commercial and industrial general light and power applications. Suitable for use in metal loadcentres and the Concept range of Panelboards.

Connection



Dimensions





Sensitivity (mA)	Amps (I_n)	Width (mm)	C-Curve	D-Curve
10 mA	6	18	DSRCBH0610A	DSRCBH0610AD
10 mA	10	18	DSRCBH1010A	DSRCBH1010AD
10 mA	16	18	DSRCBH1610A	DSRCBH1610AD
10 mA	20	18	DSRCBH2010A	DSRCBH2010AD
10 mA	25	18	DSRCBH2510A	DSRCBH2510AD
10 mA	32	18	DSRCBH3210A	DSRCBH3210AD
10 mA	40	18	DSRCBH4010A	DSRCBH4010AD
30 mA	6	18	DSRCBH0630A	DSRCBH0630AD
30 mA	10	18	DSRCBH1030A	DSRCBH1030AD
30 mA	16	18	DSRCBH1630A	DSRCBH1630AD
30 mA	20	18	DSRCBH2030A	DSRCBH2030AD
30 mA	25	18	DSRCBH2530A	DSRCBH2530AD
30 mA	32	18	DSRCBH3230A	DSRCBH3230AD
30 mA	40	18	DSRCBH4030A	DSRCBH4030AD
100 mA	6	18	DSRCBH06100A	DSRCBH06100AD
100 mA	10	18	DSRCBH10100A	DSRCBH10100AD
100 mA	16	18	DSRCBH16100A	DSRCBH16100AD
100 mA	20	18	DSRCBH20100A	DSRCBH20100AD
100 mA	25	18	DSRCBH25100A	DSRCBH25100AD
100 mA	32	18	DSRCBH32100A	DSRCBH32100AD
100 mA	40	18	DSRCBH40100A	DSRCBH40100AD

Voltage Ratings

Sensitivity $I_{\Delta n}$	10, 30, 100 mA	
Tripping Time at $I_{\Delta n}$	< 40 ms	
RCD Type	A	
Nominal current rating at 30 °C	6 - 40 A	
Poles	1P + N	
Switched Neutral	No	
Frequency	50 / 60 Hz	
Power Supply	Bottom	
Maximum Service Voltage U_{bmax}	265 V AC	
Minimum Service Voltage U_{bmin}	195 V AC	
Isolator Application	IEC 60947-2	Yes
Rated Insulation Voltage	Pollution Degree 2	-
Impulse Withstand Test Voltage	6 kV	
Insulation Resistance	1000 mOhm	
Dielectric Rigidity	2500 V	

Environmental

Vibration Resistance (IEC 77 / 16.3) (in x, y, z direction)	2 g	
Endurance	Electrical at U_n, I_n	10000 cycles
	Mechanical	20000 cycles
Utilisation Category (IEC 60947-2)	-	
Protection Degree	Outside	IP20
	Inside	IP40
Self-extinguish Degree (According to UL94)	UL 94 V-2	
Tropicalisation (IEC60068-2 / DIN 40046)	+55 °C / 95 % RH	
Operating Temperature	-5 °C / +55 °C	
Storage Temperature	-25 °C / +70 °C	

Connection

Rigid Cable Min / Max (Top)	1 mm ² / 25 mm ²	
Flexible Cable Min / Max (Top)	1 mm ² / 16 mm ²	
Rigid Cable Min / Max (Bottom)	1 mm ² / 35 mm ²	
Flexible Cable Min / Max (Bottom)	1 mm ² / 25 mm ²	
Torque (Top / Bottom)	3 / 4.5 Nm	
Busbar	Connection Top	-
	Connection Bottom	Fork / Pin

Physical

Dimensions (H x W x D)	1P + N	125 x 18 x 76 mm
Weight	0.35 kg	
Package	1 module	

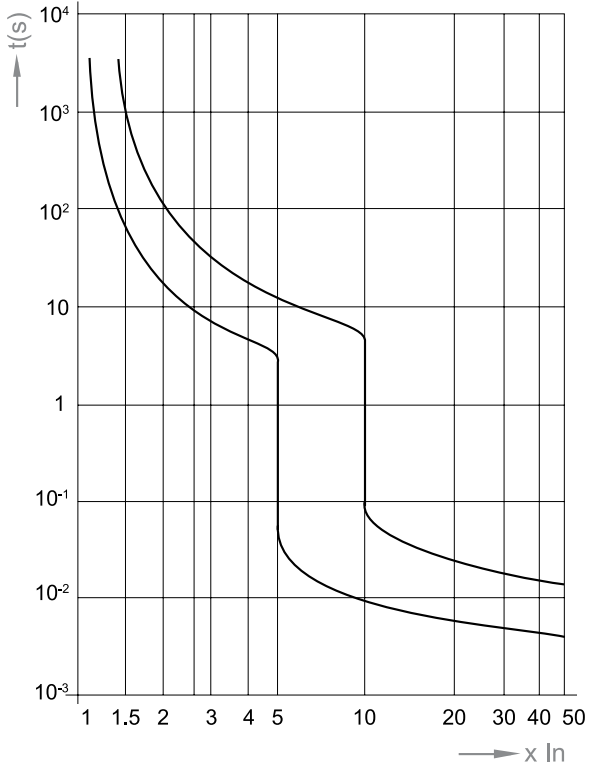
Short-Circuit Capacity

IEC 61009-1	Rated Making and Breaking Capacity (I_m)	400	A
	Residual Making and Breaking Capacity ($I_{\Delta m}$)	10000	A
	Conditional Short-Circuit Capacity (I_{nc})	10	kA
	Conditional Residual Short-Circuit Capacity ($I_{\Delta c}$)	10	kA
	Rated Short-Circuit Capacity (I_{cn})	10	kA

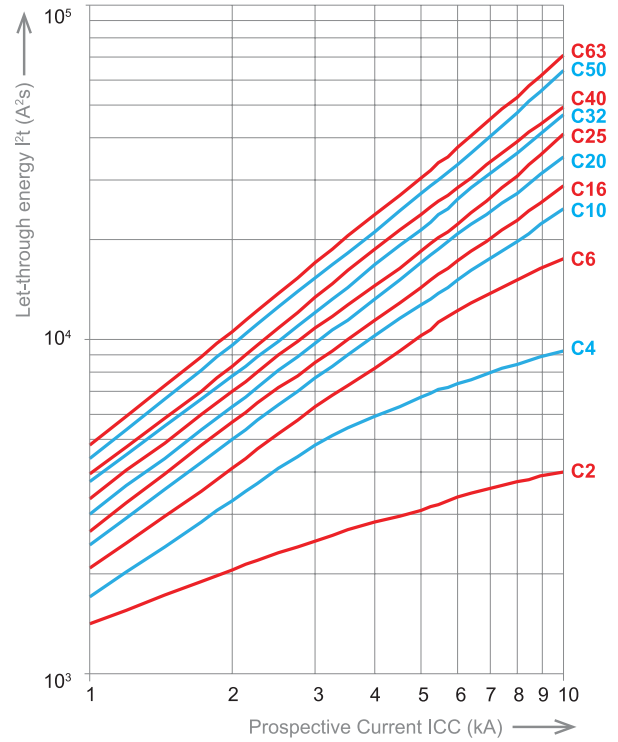


MCBs and RCBOs

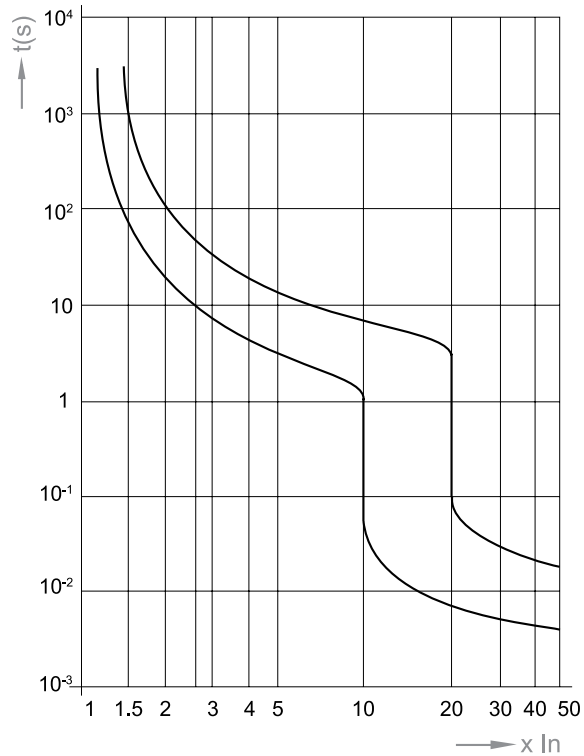
C-Curve Characteristics



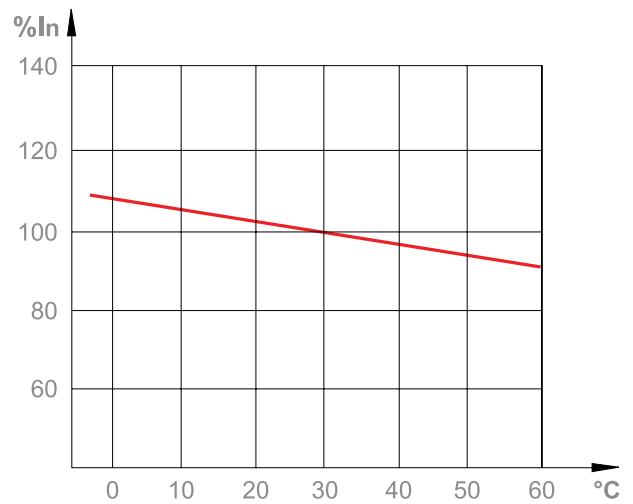
Let-through Energy I^2t (A² s) C-Curve



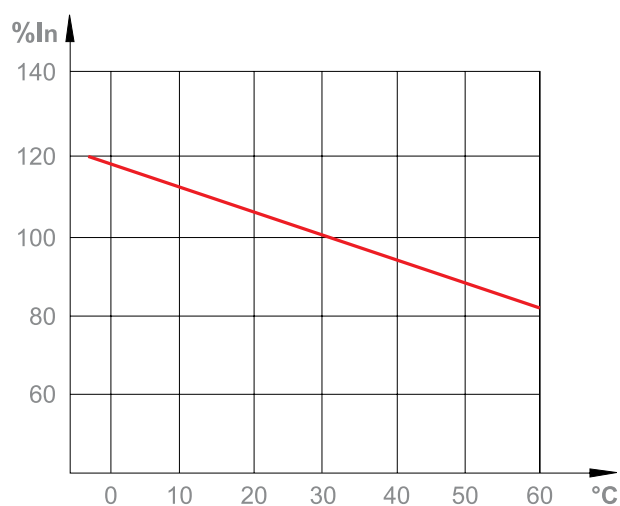
D-Curve Characteristics



Ambient Temperature Influence at 0.5-6 A



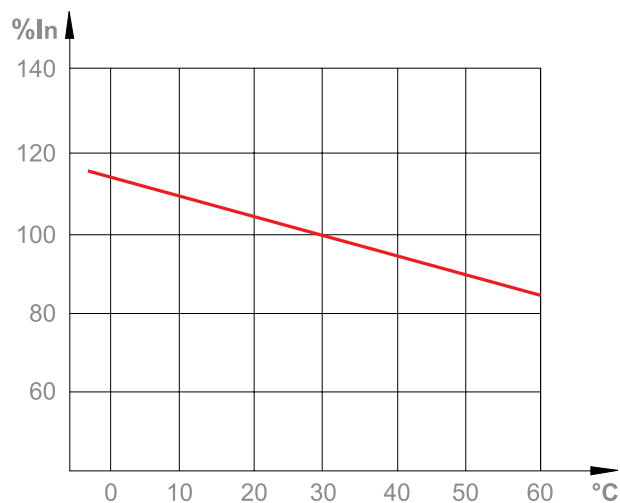
Ambient Temperature Influence at 10 A



Power Loss

I _n (A)	Voltage Drop (V)	Energy Loss P _w (W)	Resistance Z (mOhm)
6	0.26	1.57	43.6
8	0.16	1.242	19.4
10	0.16	1.56	15.6
13	0.155	2.011	11.9
16	0.162	2.566	10.1
20	0.136	2.76	6.9
25	0.128	3.188	5.1
32	0.096	3.188	3
40	0.1	4	2.5

Ambient Temperature Influence at 16-40 A



DIN-Safe RCBO Compact Single Pole Width 6kA (DSRCBS)



- ✓ Complies with AS/NZS 61009 (RCBOs)
- ✓ DSRCBS RCBOs feature 6kA short circuit rating
- ✓ C curve for general light, power and motor starting applications
- ✓ Type A RCD with switched neutral
- ✓ 30 mA sensitivity general personnel protection applications
- ✓ 10 mA sensitivity option for higher risk applications
- ✓ Compact single screw RCBO features a neutral pigtail saving cable and installation time
- ✓ Pad lockable and sealable toggle restricts unauthorised action
- ✓ Fast connection pin/fork busbar comb or NC or GB busbar chassis
- ✓ Suits pole-covers, loadcentres and the Concept range of Panelboards
- ✓ Approval No. NSW24576 or RCM
- ✓ Energy Safe Victoria (ESV) compliant for residential applications
- ✓ 10 mA units compliant with Type 1 requirements



General

Tripping Characteristics	C
Sensitivity $I\Delta n$	10, 30 mA
RCD Type	A
Nominal Current Rating at 30 °C	6 - 32A
Poles	1P + N
Switched Neutral	Yes

Short Circuit

Icn 230 1P	6000
IΔm	6000

Voltage

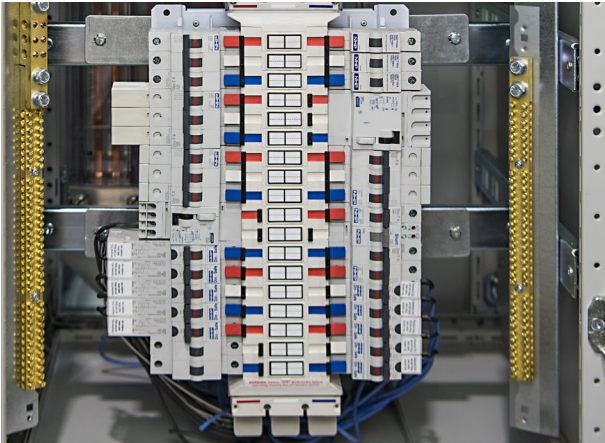
Frequency	50 / 60 Hz
Maximum Service Voltage U_{bmax}	255 V AC
Minimum Service Voltage U_{bmin}	195

Connections

Maximum Cable Size	Rigid / Flexible (Top)	25 mm ² / 16 mm ²
	Rigid / Flexible (Bottom)	35 mm ² / 25 mm ²

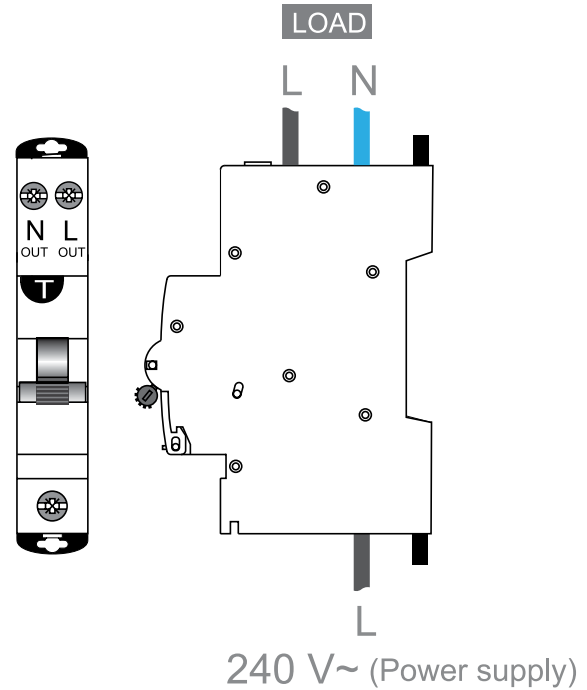


Application

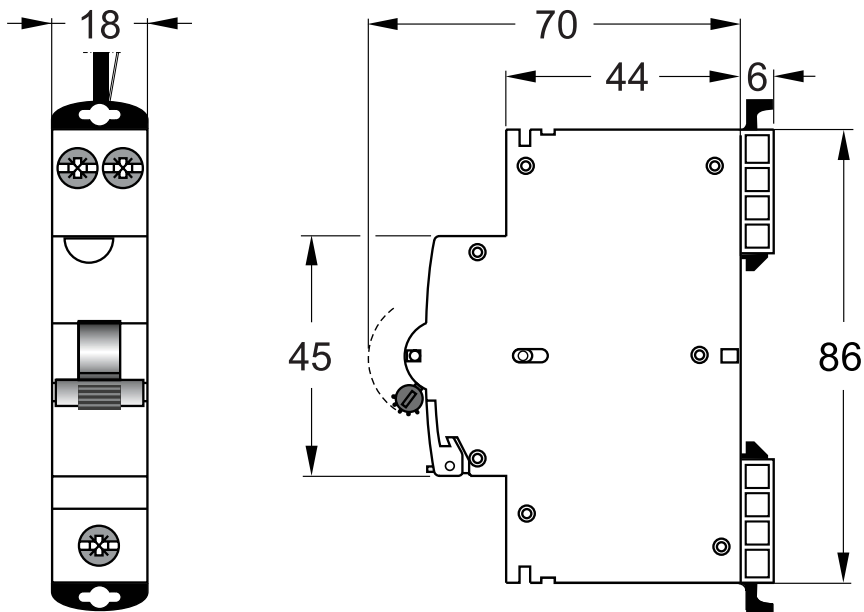


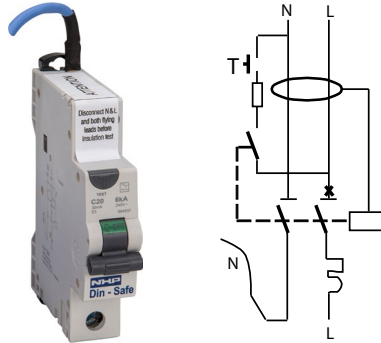
Light commercial and industrial general light and power applications. Suitable for use in loadcentres and the Concept range of Panelboards. Minimises impact into the wiring zone.

Connection



Dimensions





Sensitivity (mA)	Amp (I_n)	Width (mm)	C-Curve
10 mA	6	18	DSRCBS0610CAN
10 mA	10	18	DSRCBS1010CAN
10 mA	16	18	DSRCBS1610CAN
10 mA	20	18	DSRCBS2010CAN
10 mA	25	18	DSRCBS2510CAN
10 mA	32	18	DSRCBS3210CAN
30 mA	6	18	DSRCBS0630CAN
30 mA	10	18	DSRCBS1030CAN
30 mA	16	18	DSRCBS1630CAN
30 mA	20	18	DSRCBS2030CAN
30 mA	25	18	DSRCBS2530CAN
30 mA	32	18	DSRCBS3230CAN

Voltage Ratings

Sensitivity $I_{\Delta n}$	10,30 mA	
Tripping Time at $I_{\Delta n}$	< 40 ms	
RCD Type	A	
Nominal current rating at 30 °C	6 - 32 A	
Poles	1P + N	
Switched Neutral	Yes	
Frequency	50 / 60 Hz	
Power Supply	Bottom	
Maximum Service Voltage U_{bmax}	255 V AC	
Minimum Service Voltage U_{bmin}	195 V AC	
Isolator Application	IEC 60947-2	Yes
Rated Insulation Voltage	Pollution Degree 2	-
Impulse Withstand Test Voltage	6 kV	
Insulation Resistance	1000 mOhm	
Dielectric Rigidity	2500 V	

Environmental

Vibration Resistance (IEC 77 / 16.3) (in x, y, z direction)	2 g	
Endurance	Electrical at U_n, I_n	10000 cycles
	Mechanical	2000 cycles
Utilisation Category (IEC 60947-2)	-	
Protection Degree	Outside	IP20
	Inside	IP40
Self-extinguish Degree (According to UL94)	UL 94 V-2	
Tropicalisation (IEC60068-2 / DIN 40046)	+60 °C / 95 % RH	
Operating Temperature	-5 °C / +60 °C	
Storage Temperature	-25 °C / +70 °C	

Connection

Rigid Cable Min / Max (Top)	1 mm ² / 25 mm ²	
Flexible Cable Min / Max (Top)	1.5 mm ² / 16 mm ²	
Rigid Cable Min / Max (Bottom)	1 mm ² / 35 mm ²	
Flexible Cable Min / Max (Bottom)	1.5 mm ² / 25 mm ²	
Torque (Top / Bottom)	3 / 4.5 Nm	
Busbar	Connection Top	-
	Connection Bottom	Fork/Pin

Physical

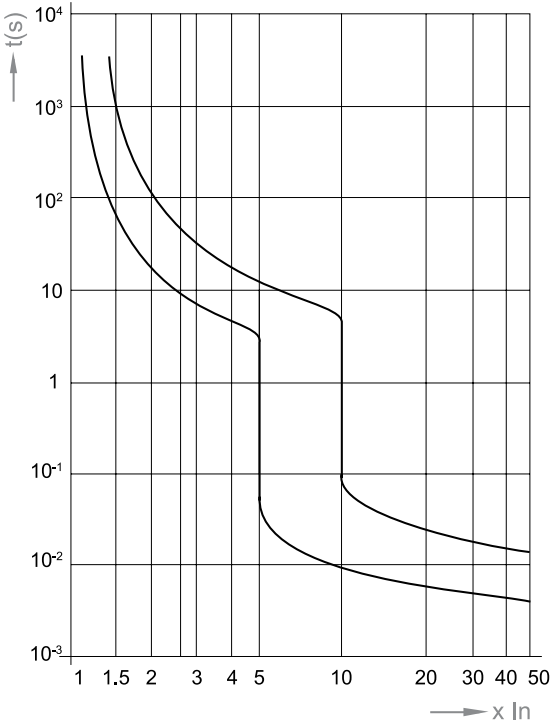
Dimensions (H x W x D)	1P + N	86 x 18 x 76 mm
Weight	0.215 kg	
Package	1 module	

Short-Circuit Capacity

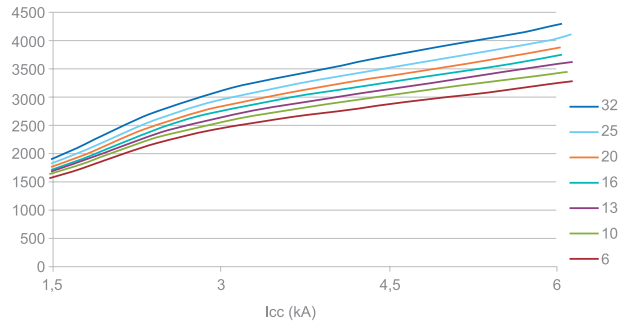
IEC 61009-1	Rated Making and Breaking Capacity (I_m)	500	A
	Residual Making and Breaking Capacity ($I_{\Delta m}$)	6000	A
	Conditional Short-Circuit Capacity (I_{nc})	6	kA
	Conditional Residual Short-Circuit Capacity ($I_{\Delta c}$)	6	kA
	Rated Short-Circuit Capacity (I_{cn})	6	kA



C-Curve Characteristics



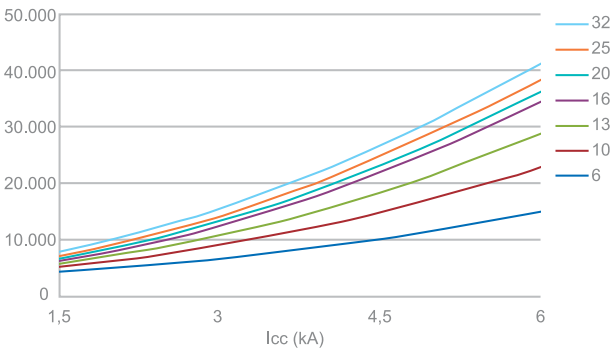
Limited Peak Current (kA) at 230 / 400V C-Curve



Power Loss

I_n (A)	Voltage Drop (V)	Energy Loss Pw (W)	Resistance Z (mOhm)
6	0.26	1.57	43.6
8	0.16	1.242	19.4
10	0.16	1.56	15.6
13	0.155	2.011	11.9
16	0.162	2.566	10.1
20	0.138	2.76	6.9
25	0.128	3.188	5.1
32	0.096	3.188	3
40	0.1	4	2.5
50	0.09	4.5	1.8
63	0.082	5.16	1.3

Let-through Energy I^2t (A²s) C-Curve



DIN-Safe RCBO (2P Width)



- ✓ High speed and rapid arc quenching technology ensuring the highest level of protection is provided
- ✓ DIN rail mounting
- ✓ Free tripping mechanism even if toggle is locked or sealed ON or OFF
- ✓ Complies with AS/NZS 61009 (RCBOs)
- ✓ DSRCB RCBOs feature 10 kA short circuit rating (AI is 6 kA)
- ✓ Type A RCD
- ✓ Non-pigtail model with switched neutral
- ✓ Pigtail model with unswitched neutral
- ✓ 30 mA sensitivity general personnel protection applications
- ✓ 10 mA sensitivity option for higher risk applications
- ✓ 100 mA sensitivity option
- ✓ C trip curve for general light and power applications
- ✓ Fast connection pin / fork busbar comb
- ✓ Suits pole-covers, loadcentres and the Conecept range of Panelboards
- ✓ Approval No. NSW17482 or RCM
- ✓ 10 mA units compliant with Type 1 requirements



General

Tripping Characteristics	C
Sensitivity $I\Delta n$	10, 30, 100 mA
RCD Type	A, AC, AI
Nominal Current Rating at 30 °C	6 - 40 A
Poles	1P + N
Switched Neutral	Yes

Short Circuit

$I_{cn} 230 1P$	10000 A / 6000 AI
$I\Delta m$	6000

Voltage

Frequency	50 / 60 Hz
Maximum Service Voltage U_{bmax}	255 V AC
Minimum Service Voltage $U_{bmin}^{1)}$	117 / 100

Connections

Maximum Cable Size	Rigid / Flexible (Top)	25 mm ² / 16 mm ²
	Rigid / Flexible (Bottom)	35 mm ² / 25 mm ²

Notes:

1) 100 V for 30 mA Type A unit only.

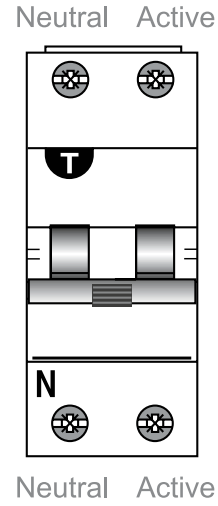


Application

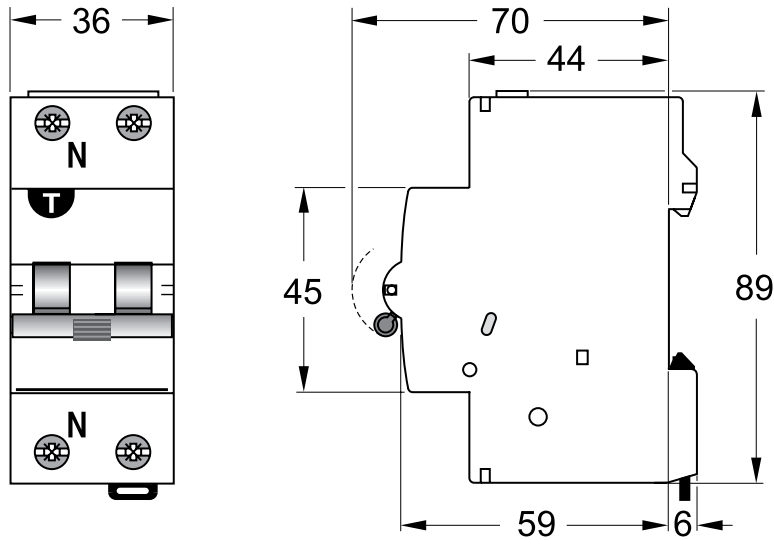


Light commercial and industrial general light and power applications. Suitable for use in loadcentres and the Concept range of Panelboards with 4P busbar chassis. AI type higher immunity to transit / surge currents 3000 A 8/20 us vs. 250 A 8/20 us.

Connection



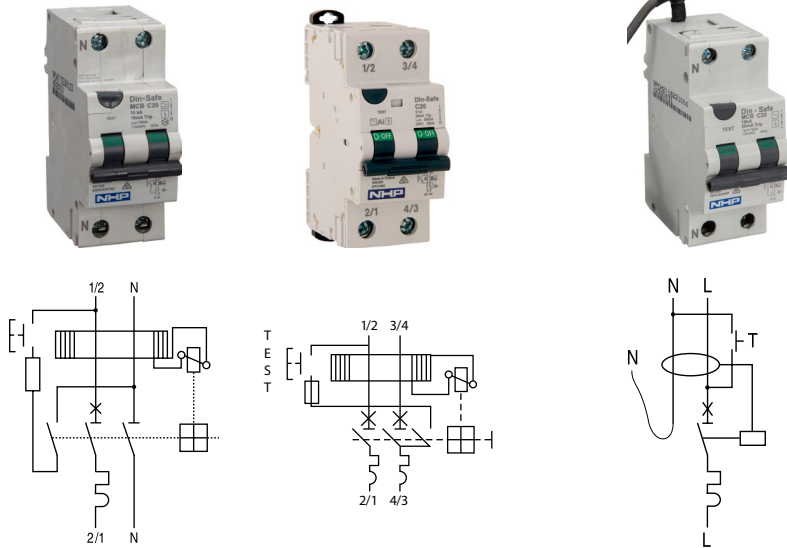
Dimensions





Without Pigtail

With Pigtail



MCBs and RCBOs

Sensitivity (mA)	Amps (I _n)	Width (mm)	Type A	Type AI	Type AC
10 mA	6	36	DSRCB0610A	-	-
10 mA	10	36	DSRCB1010A	-	-
10 mA	16	36	DSRCB1610A	-	-
10 mA	20	36	DSRCB2010A	-	-
30 mA	6	36	-	DSRCB0630AI	DSRCB0630P
30 mA	10	36	DSRCB1030A	DSRCB1030AI	DSRCB1030P
30 mA	16	36	DSRCB1630A	DSRCB1630AI	DSRCB1630P
30 mA	20	36	DSRCB2030A	DSRCB2030AI	DSRCB2030P
30 mA	25	36	DSRCB2530A	DSRCB2530AI	DSRCB2530P
30 mA	32	36	DSRCB3230A	DSRCB3230AI	DSRCB3230P
30 mA	40	36	DSRCB4030A	DSRCB4030AI	DSRCB4030P
100 mA	10	36	DSRCB10100A	-	-
100 mA	16	36	DSRCB16100A	-	-
100 mA	20	36	DSRCB20100A	-	-

Voltage Ratings

Sensitivity $I_{\Delta n}$	10, 30, 100 mA	
Tripping Time at $I_{\Delta n}$	< 40 ms	
RCD Type	A, AC, AI	
Nominal current rating at 30 °C	6 - 40 A	
Poles	1P + N	
Switched Neutral	Yes	
Frequency	50 / 60 Hz	
Power Supply	Top / Bottom	
Maximum Service Voltage U_{bmax}	255 V AC	
Minimum Service Voltage U_{bmin}	117 V AC	
Isolator Application	IEC 60947-2	Yes
Rated Insulation Voltage	Pollution Degree 2	
Impulse Withstand Test Voltage	6 kV	
Insulation Resistance	1000 mOhm	
Dielectric Rigidity	2500 V	

Environmental

Vibration Resistance (IEC 77 / 16.3) (in x, y, z direction)	1.5 g	
Endurance	Electrical at U_n, I_n	10000 cycles
	Mechanical	20000 cycles
Utilisation Category (IEC 60947-2)		
Protection Degree	Outside	IP20
	Inside	IP40
Self-extinguish Degree (According to UL94)	UL 94 V-2	
Tropicalisation (IEC60068-2 / DIN 40046)	+55 °C / 95 % RH	
Operating Temperature	-5°C / +55 °C	
Storage Temperature	-25 °C / +70 °C	

Connection

Rigid Cable Min / Max (Top)	1 mm ² / 25 mm ²	
Flexible Cable Min / Max (Top)	1 mm ² / 16 mm ²	
Rigid Cable Min / Max (Bottom)	1 mm ² / 35 mm ²	
Flexible Cable Min / Max (Bottom)	1 mm ² / 25 mm ²	
Torque (Top / Bottom)	3 / 4 Nm	
Busbar	Connection Top	-
	Connection Bottom	Fork / Pin

Physical

Dimensions (H x W x D)	1P + N	86 x 36 x 68 mm
Weight	0.25 kg	
Package	6 module	

Short-Circuit Capacity

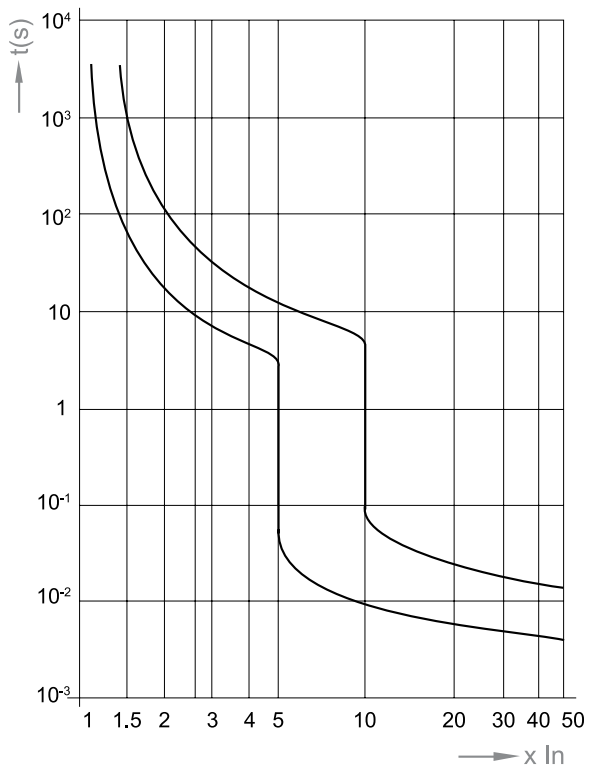
IEC 61009-1	Rated Making and Breaking Capacity (I_m)	-	A
	Residual Making and Breaking Capacity ($I_{\Delta m}$)	6000	A
	Conditional Short-Circuit Capacity (I_{nc})	6	kA
	Conditional Residual Short-Circuit Capacity ($I_{\Delta c}$)	-	kA
	Rated Short-Circuit Capacity (I_{cn})	10 ¹⁾	kA

Notes:

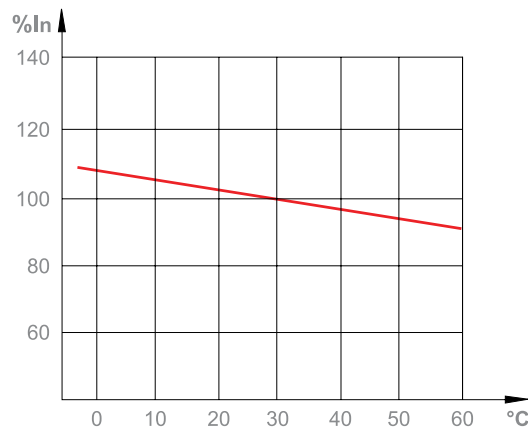
1) 6 kA for Type AI.



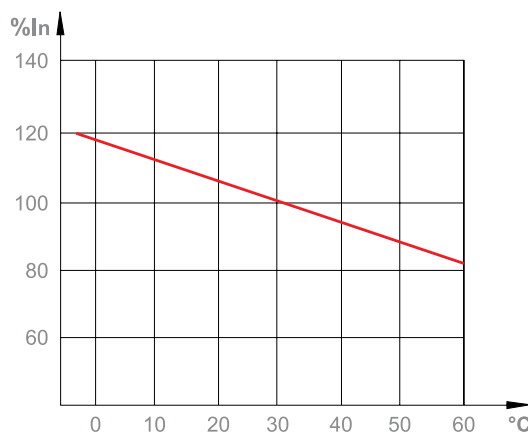
C-Curve Characteristics



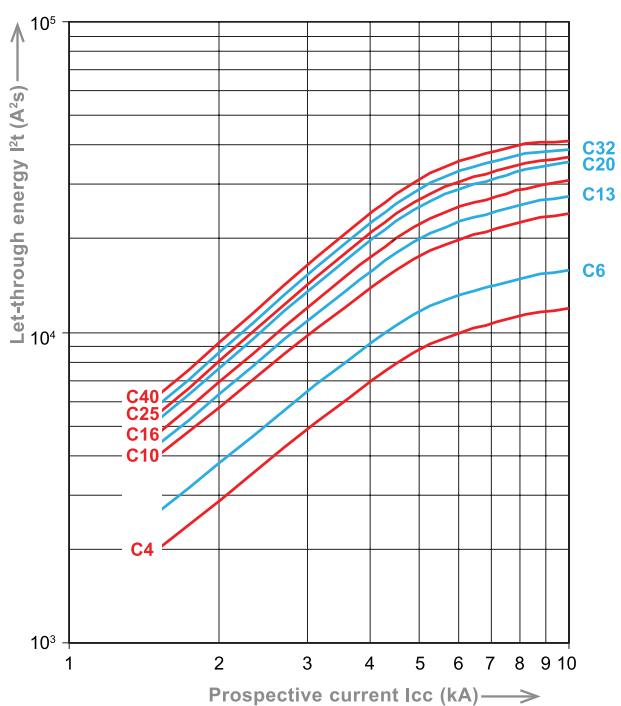
Ambient Temperature Influence at 6 A



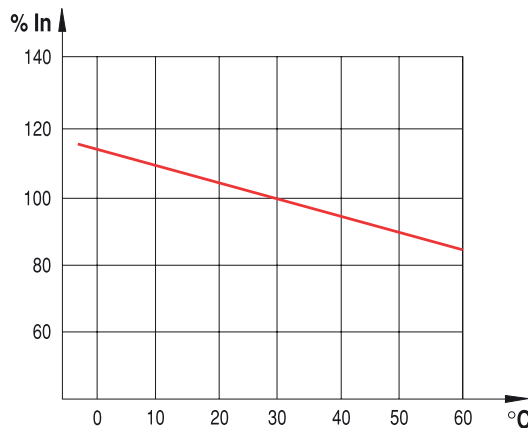
Ambient Temperature Influence at 10 A



Let-Through Energy $I^2 t$ ($A^2 s$) C-Curve



Ambient Temperature Influence at 16-40 A





Power Loss

I_n (A)	Energy Loss Pw (W)	Resistance Z (mOhm)
4	2	125
6	1.91	53
10	1.63	16.3
16	2.51	9.8
20	2.84	7.1
25	3.5	5.6
32	4.81	4.7
40	5.76	3.6

DIN-Safe Safety Switches (RCCBs)



- ✓ DIN rail mounting
- ✓ Free tripping mechanism even if toggle is locked or sealed ON or OFF
- ✓ Complies with AS/NZS 61008 (RCCBs)
- ✓ DIN-SAFE RCCBs feature 10kA conditional short circuit rating
- ✓ 1P+N and 3P+N for single or three phase loads
- ✓ Type A, AI, F, and B RCD options
- ✓ 30 mA sensitivity featured as standard simplifying the selection for personnel protection applications
- ✓ 100 mA and 300 mA sensitivity options
- ✓ Fast connection pin / fork busbar comb or busbar chassis
- ✓ Suits pole-covers and loadcentres
- ✓ Approval No. NSW17482 or RCM

Type A, AI



Type F



Type B



General

Sensitivity $I_{\Delta n}$	30, 100, 300 mA
RCD Type	A, AI, B, F
Nominal Current Rating at 30 °C	40 - 80 A
Poles	1P + N / 3P + N
Switched Neutral	Yes

Short Circuit

$I_{\Delta vc}$ Condition Short Circuit Capacity	10000
I_{nc} Condition Short Circuit Capacity	10000

Voltage

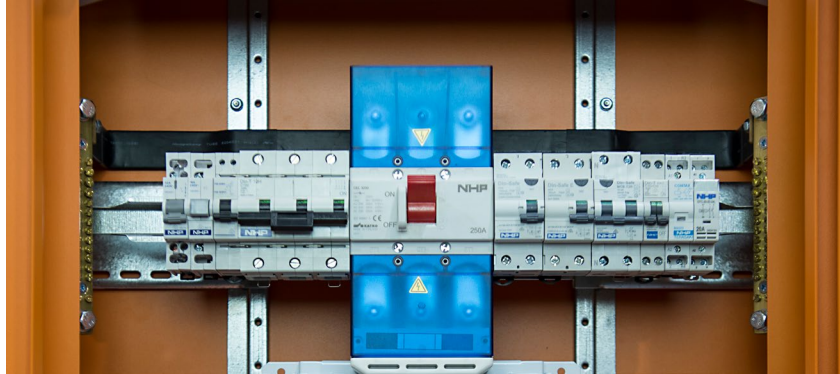
Frequency	50 / 60 Hz
Maximum Service Voltage U_{bmax} (2P / 4P)	265 / 455 V AC
Minimum Service Voltage U_{bmin} (2P / 4P)	117 / 205

Connections

Maximum Cable Size	Rigid / Flexible (Top)	50 mm ² / 35 mm ²
	Rigid / Flexible (Bottom)	50 mm ² / 35 mm ²

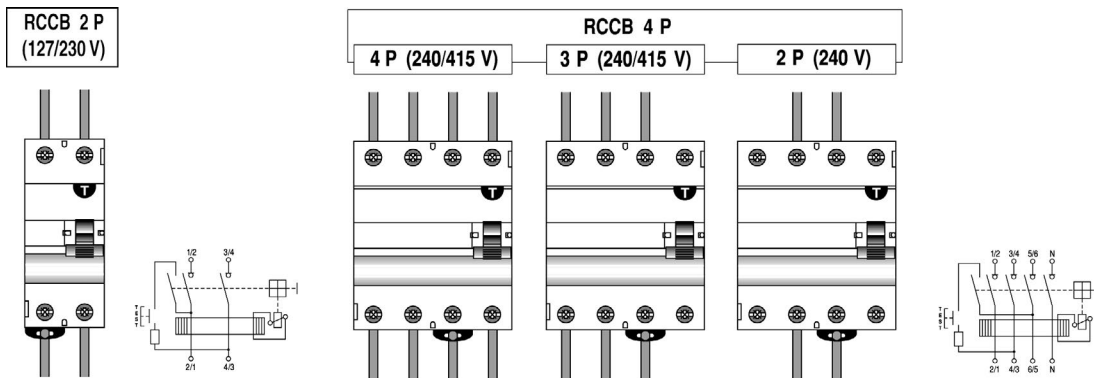


Application

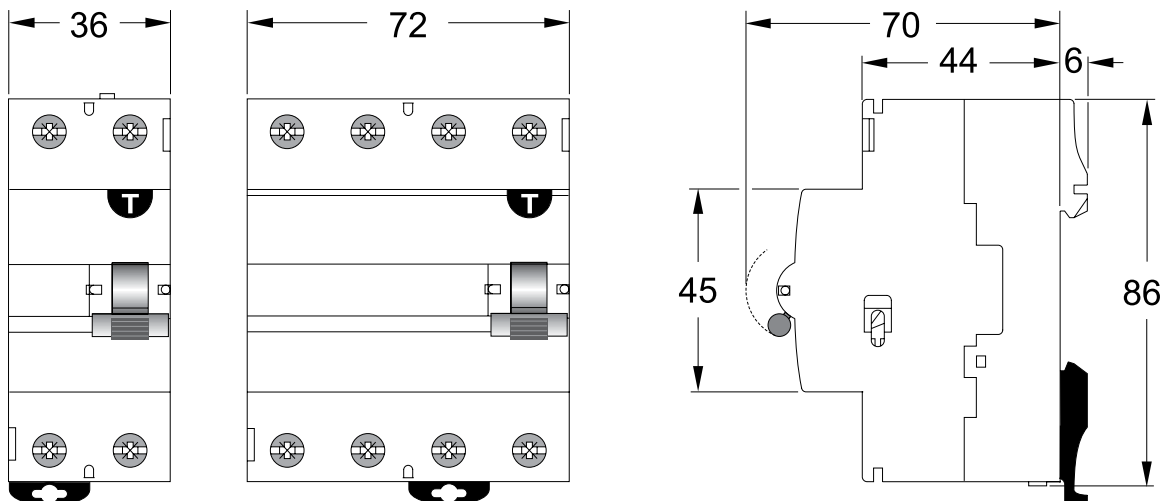


Light commercial general light, and power applications and EV charging stations. Suitable for use in pole-covers and loadcenter. Type AC for general applications, Type A protects as per Type AC and additionally for rectified loads, Type F protects as per Type A and additionally for high frequency leakages, Type B protects as per Type F and additionally for pure DC leakages. Type B is recommended for EV chargers and drives.

Connection



Dimensions



Voltage Ratings

Sensitivity $I_{\Delta n}$	30, 100, 300 mA	
Tripping Time at $I_{\Delta n}$	< 40 ms	
RCD Type	A, AI, B, F	
Nominal Current Rating at 30 °C	40 - 80 A	
Poles	1P + N / 3P + N	
Switched Neutral	Yes	
Frequency	50 / 60 Hz	
Power Supply	Top / Bottom	
Maximum Service Voltage U_{bmax}	265 / 455 V AC	
Minimum Service Voltage U_{bmin}	205 V AC	
Isolator Application	IEC 60947-2	Yes
Rated Insulation Voltage	Pollution Degree 2	440 V
Impulse Withstand Test Voltage	6 kV	
Insulation Resistance	1000 mOhm	
Dielectric Rigidity	2500 V	

Environmental

Vibration Resistance (IEC 77 / 16.3) (in x, y, z direction)	1.5 g	
Endurance	Electrical at U_n, I_n	10000 cycles
	Mechanical	20000 cycles
Utilisation Category (IEC 60947-2)		
Protection Degree	Outside	IP20
	Inside	IP40
Self-extinguish Degree (According to UL94)	UL 94 V-2	
Tropicalisation (IEC60068-2 / DIN 40046)	+55 °C / 95 % RH	
Operating Temperature	-25 °C / +55 °C	
Storage Temperature	-25 °C / +70 °C	

Connection

Rigid Cable Min / Max (Top)	1.5 mm ² / 50 mm ²	
Flexible Cable Min / Max (Top)	1.5 mm ² / 35 mm ²	
Rigid Cable Min / Max (Bottom)	1.5 mm ² / 50 mm ²	
Flexible Cable Min / Max (Bottom)	1.5 mm ² / 35 mm ²	
Torque (Top / Bottom)	5 / 5 Nm	
Busbar	Connection Top	Fork / Pin
	Connection Bottom	Fork / Pin

Physical

Dimensions (H x W x D)	1P + N	86 x 36 x 76 mm
	3P + N	86 x 72 x 76 mm
Weight	0.25 / 0.368 kg	
Package	6 / 3 module	

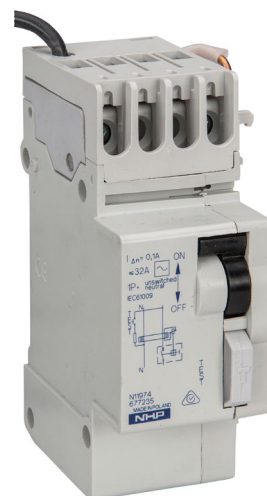
Short-Circuit Capacity

IEC 61008-1	Rated Making and Breaking Capacity (I_m)	500	A
	Residual Making and Breaking Capacity ($I_{\Delta m}$)	500	A
	Conditional Short-Circuit Capacity (I_{nc})	10	kA
	Conditional Residual Short-Circuit Capacity ($I_{\Delta c}$)	10	kA

Power Loss

I_n (A)	Resistance Z (mOhm)	Energy Loss Pw (W)
16	9.94	2.55
25	3.75	2.33
40	2.15	3.43
63	1.30	5.15
80	1.30	8.30
100	0.87	8.70

DIN-Safe RCCB Add-on Module (DSRCM)



- ✓ High speed and rapid arc quenching technology ensuring the highest level of protection is provided
- ✓ DIN rail mounting
- ✓ Free tripping mechanism even if toggle is locked or sealed ON or OFF
- ✓ Complies with AS3190 (RCCBs)
- ✓ DIN-SAFE Add-on-Modules feature 10 kA conditional short circuit rating
- ✓ 1P+N, 3P and 3P+N for single or three phase loads
- ✓ Type AC or A RCD
- ✓ 30 mA, 100 mA, 300 mA RCD options
- ✓ Suits pole-covers, loadcentres and the Concept range of Panelboards
- ✓ Approval No. N11974 or RCM



General

Sensitivity $I_{\Delta n}$	30, 100, 300 mA
RCD Type	AC, A
Nominal Current Rating at 30 °C	32 - 63 A
Poles	1P + N / 3P + N / 3P

Switched Neutral

Short Circuit

$I_{\Delta vc}$ Condition Short Circuit Capacity

I_{nc} Condition Short Circuit Capacity

Voltage

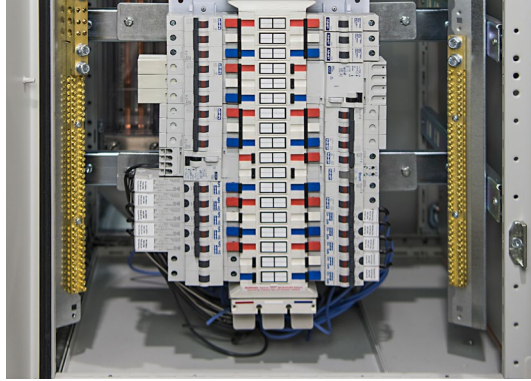
Frequency	50 / 60 Hz
Maximum Service Voltage U_{bmax} (2P / 4P)	265 / 455 V AC
Minimum Service Voltage U_{bmin} (2P / 4P)	176 / 287

Connections

Maximum Cable Size	Rigid / Flexible (Top)	25 mm ² / 25 mm ²
	Rigid / Flexible (Bottom)	- / -



Application

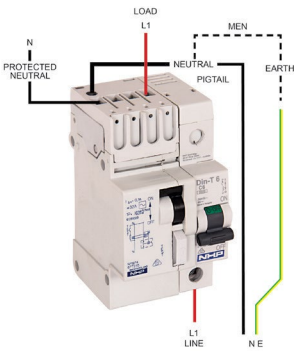


Commercial general light and power 3 phase applications. Suitable for use in pole-covers, loadcentres fork or pin busbar comb and the Concept range of Panelboards using busbar chassis.

Connection

Din-Safe-M
1P + N with 1 pole MCB

(Neutral not switched)



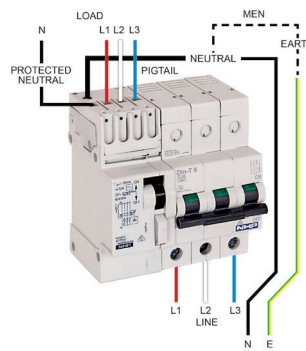
Din-Safe-M
1P + N with 2 pole MCB

(Switching active + neutral)



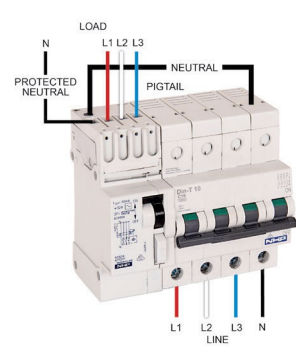
Din-Safe-M
3P + N with 3 pole MCB

(Neutral not switching)



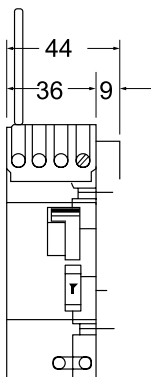
Din-Safe-M
3P + N with 4 pole MCB

(Switching active + neutral)

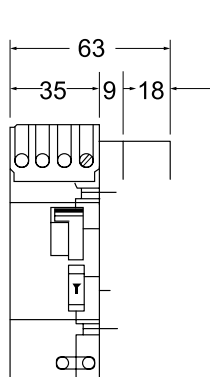


Dimensions

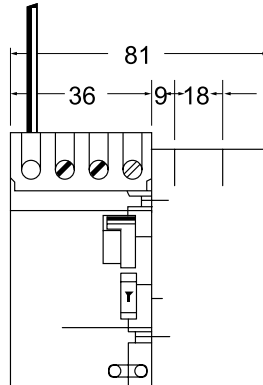
1 P+N



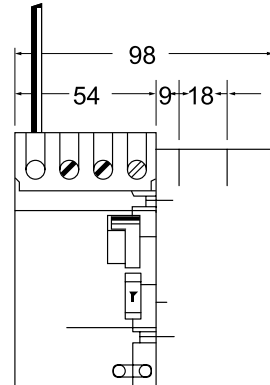
3 P+N



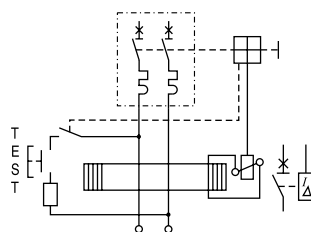
3 P+N



3 P

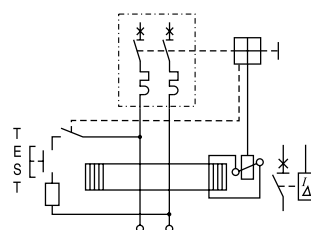


1P + N



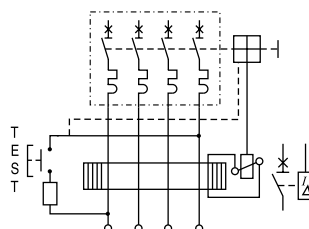
Sensitivity (mA)	Amps (I_n)	Width (mm)	Type AC
30	32	36	DSRCM32301PN
100	32	36	DSRCM321001PN
300	32	36	DSRCM323001PN

1P + N



Sensitivity (mA)	Amps (I_n)	Width (mm)	Type AC
30	63	36	DSRCM63301PN
100	63	36	DSRCM631001PN
300	63	36	DSRCM633001PN

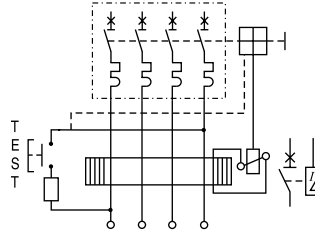
3P + N



Sensitivity (mA)	Amps (I_n)	Width (mm)	Type AC	Type A
30	32	36	DSRCM32303PN	DSRCM32303PNA
100	32	54	DSRCM321003PN	—
300	32	54	DSRCM323003PN	—

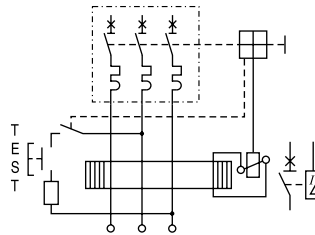


3P + N



Sensitivity (mA)	Amps (I _n)	Width (mm)	Type AC
30	63	54	DSRCM63303PN
100	63	54	DSRCM631003PN
300	63	54	DSRCM633003PN

3P



Sensitivity (mA)	Amps (I _n)	Width (mm)	Type AC	Type A
30	63	54	DSRCM63303P	DSRCM6330PA
100	63	54	DSRCM631003P	–
300	63	54	DSRCM633003P	–

Voltage Ratings

Sensitivity $I_{\Delta n}$	30, 100, 300 mA	
Tripping Time at $I_{\Delta n}$	< 40 ms	
RCD Type	AC, A	
Nominal Current Rating at 30 °C	32 - 63 A	
Poles	1P + N / 3P + N / 3P	
Switched Neutral		
Frequency	50 / 60 Hz	
Power Supply	-	
Maximum Service Voltage U_{bmax}	265 / 455 V AC	
Minimum Service Voltage U_{bmin}	287 V AC	
Isolator Application	IEC 60947-2	-
Rated Insulation Voltage	Pollution Degree 2	-
Impulse Withstand Test Voltage	-	
Insulation Resistance	1000 mOhm	
Dielectric Rigidity	2500 V	

Environmental

Vibration Resistance (IEC 77 / 16.3) (in x, y, z direction)	5 g	
Endurance	Electrical at U_n, I_n	10000 cycles
	Mechanical	20000 cycles
Utilisation Category (IEC 60947-2)	-	
Protection Degree	Outside	IP20
	Inside	IP40
Self-extinguish Degree (According to UL94)	UL 94 V-2	
Tropicalisation (IEC60068-2 / DIN 40046)	+60 °C / 95 % RH	
Operating Temperature	-5 °C / +60 °C	
Storage Temperature	-25 °C / +70 °C	

Connection

Rigid Cable Min / Max (Top)	- / 25 mm ²	
Flexible Cable Min / Max (Top)	- / 25 mm ²	
Rigid Cable Min / Max (Bottom)	1 mm ² / -	
Flexible Cable Min / Max (Bottom)	1 mm ² / -	
Torque (Top / Bottom)	- / 4.5 Nm	
Busbar	Connection Top	-
	Connection Bottom	-

Physical

Dimensions (H x W x D)	1P + N	86 x 36 x 76 mm
	1P + N	86 x 36 x 76 mm
	3P + N	86 x 36 x 76 mm
Weight	0.25 / 0.34 / 0.32 kg	
Package	1 module	

Short-Circuit Capacity

IEC 61008-1	Rated Making and Breaking Capacity (I_m)	-	A
	Residual Making and Breaking Capacity ($I_{\Delta m}$)	-	A
	Conditional Short-Circuit Capacity (I_{nc})	-	kA
	Conditional Residual Short-Circuit Capacity ($I_{\Delta c}$)	-	kA

DIN-Safe RCBO 3 Pole Width 10kA (DSRCBT)



- ✓ Complies with AS/NZS 61009 (RCBOs)
- ✓ DIN-Safe RCBOs feature 10 kA short circuit rating
- ✓ Compact 3P width for easy retrofitting
- ✓ Space saving 54mm width
- ✓ Type A RCD
- ✓ 900mm neutral pigtail saving cable and installation time
- ✓ 30 mA sensitivity general personnel protection applications
- ✓ 100 mA or 300mA sensitivity option
- ✓ C trip curve for general light and power applications
- ✓ Fast connection pin / fork busbar comb or busbar chassis
- ✓ Pad lockable and sealable toggle restricts unauthorized action
- ✓ Suits metal loadcentres and the Concept range of Panelboards
- ✓ Approval No. ESV220008 or RCM



General

Tripping Characteristics	C
Sensitivity $I\Delta n$	30 mA, 100mA, 300mA
RCD Type	A
Nominal Current Rating at 30 °C	6 - 63 A
Poles	3P + N
Switched Neutral	No

Short Circuit

I_{cn} 230 1P	10000
$I\Delta m$	6000

Voltage

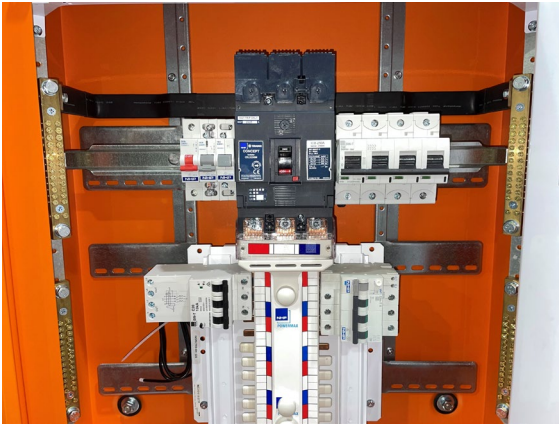
Frequency	50 / 60 Hz
Maximum Service Voltage U_{bmax}	457 V AC
Minimum Service Voltage U_{bmin}	204 V AC

Connections

Maximum Cable Size	Rigid / Flexible (Top)	25 mm ² / 16 mm ²
	Rigid / Flexible (Bottom)	25 mm ² / 16 mm ²

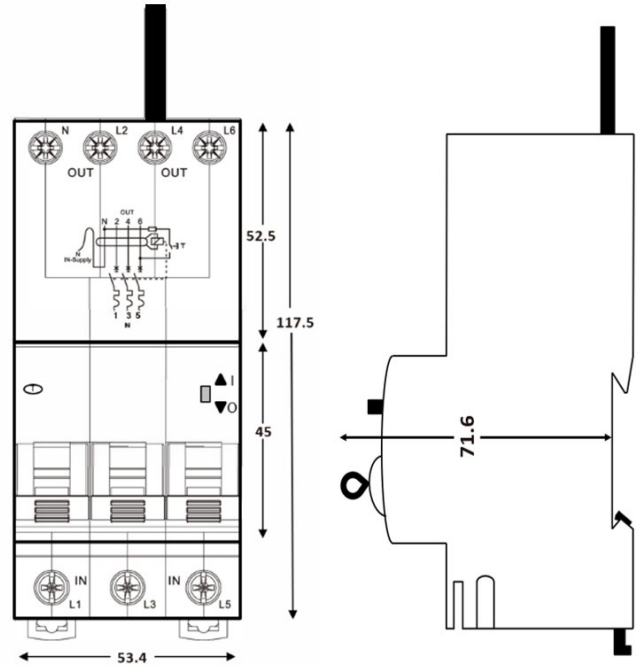


Application

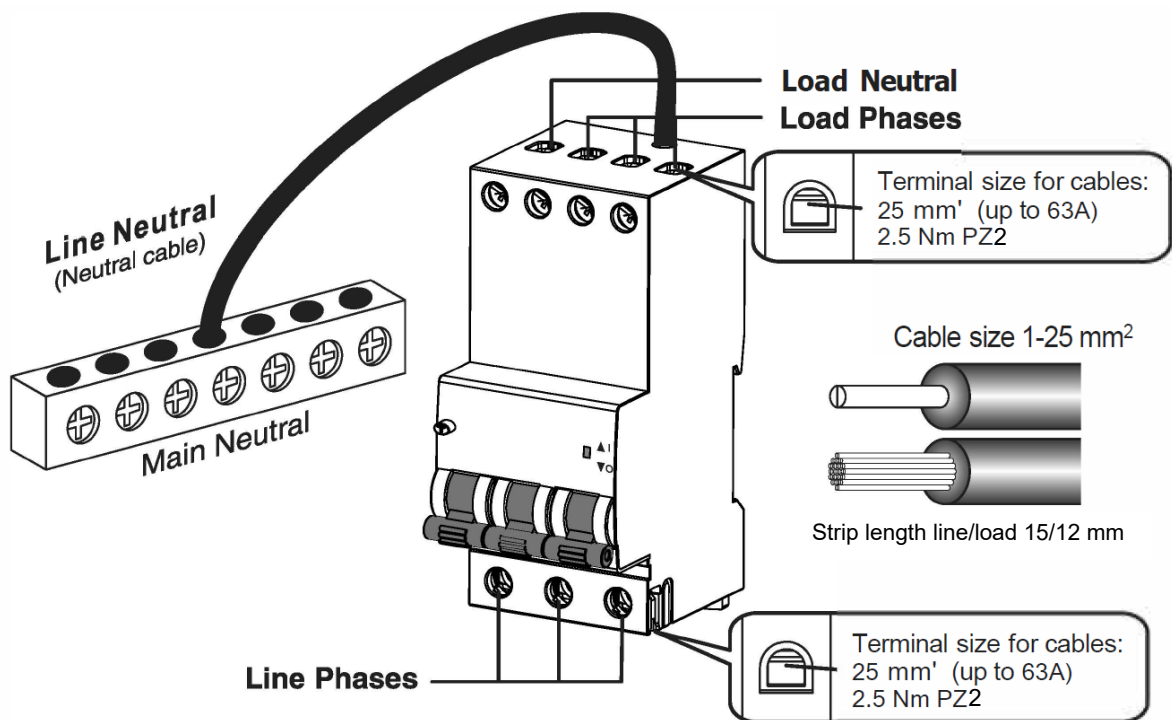


General light and power applications in commercial and industrial environments. Suitable for use in the Concept range of Panelboards.

Dimensions



Connection





Sensitivity (mA)	Amps (In)	Width (mm)	C-Curve
30	6	54	DSRCBT0630A
30	10	54	DSRCBT1030A
30	16	54	DSRCBT1630A
30	20	54	DSRCBT2030A
30	25	54	DSRCBT2530A
30	32	54	DSRCBT3230A
30	40	54	DSRCBT4030A
30	50	54	DSRCBT5030A
30	63	54	DSRCBT6330A
100	6	54	DSRCBT06100A
100	10	54	DSRCBT10100A
100	16	54	DSRCBT16100A
100	20	54	DSRCBT20100A
100	25	54	DSRCBT25100A
100	32	54	DSRCBT32100A
100	40	54	DSRCBT40100A
100	50	54	DSRCBT50100A
100	63	54	DSRCBT63100A
300	6	54	DSRCBT06300A
300	10	54	DSRCBT10300A
300	16	54	DSRCBT16300A
300	20	54	DSRCBT20300A
300	25	54	DSRCBT25300A
300	32	54	DSRCBT32300A
300	40	54	DSRCBT40300A
300	50	54	DSRCBT50300A
300	63	54	DSRCBT63300A

Voltage Ratings

Sensitivity $I_{\Delta n}$	30 mA, 100mA, 300mA	
Tripping Time at $I_{\Delta n}$	< 300 ms	
RCD Type	A	
Nominal current rating at 30 °C	6 - 63 A	
Poles	3P + N	
Switched Neutral	No	
Frequency	50 / 60 Hz	
Power Supply	Bottom	
Maximum Service Voltage U_{bmax}	457 V AC	
Minimum Service Voltage U_{bmin}	204 V AC	
Isolator Application	IEC 60947-2	Yes
Rated Insulation Voltage	Pollution Degree 2	500 V
	Pollution Degree 3	–
Impulse Withstand Test Voltage	4 kV	
Insulation Resistance	–	
Dielectric Rigidity	2000 V	

Environmental

Vibration Resistance (IEC 77 / 16.3) (in x, y, z direction)	–	
Endurance	Electrical at U_n, I_n	10000 cycles
	Mechanical	20000 cycles
Utilisation Category (IEC 60947-2)	–	
Protection Degree	Outside	IP20
	Inside	IP40
Self-extinguish Degree (According to UL94)	–	
Tropicalisation (IEC60068-2 / DIN 40046)	+55 °C / 90-96 % RH	
Operating Temperature	-5 °C / +40 °C	
Storage Temperature	-25 °C / +70 °C	

Connection

Rigid Cable Min / Max (Top)	1 mm ² / 25 mm ²	
Flexible Cable Min / Max (Top)	1 mm ² / 16 mm ²	
Rigid Cable Min / Max (Bottom)	1 mm ² / 25 mm ²	
Flexible Cable Min / Max (Bottom)	1 mm ² / 16 mm ²	
Torque (Top / Bottom)	2.5 / 2.5 Nm	
Busbar	Connection Top	–
	Connection Bottom	Fork / Pin

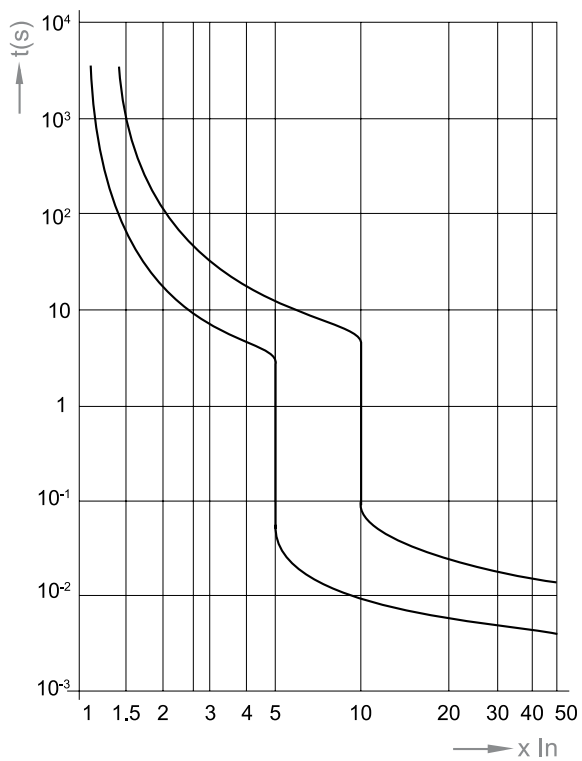
Physical

Dimensions (H x W x D)	1P + N	117 x 54 x 71.6 mm
Weight	0.549 kg	
Package	1 module	

Short-Circuit Capacity

IEC 61009-1	Rated Making and Breaking Capacity (I_m)	–	A
	Residual Making and Breaking Capacity ($I_{\Delta m}$)	6000	A
	Conditional Short-Circuit Capacity (I_{nc})	–	kA
	Conditional Residual Short-Circuit Capacity ($I_{\Delta c}$)	–	kA
	Rated Short-Circuit Capacity (I_{cn})	10	kA

C-Curve Characteristics



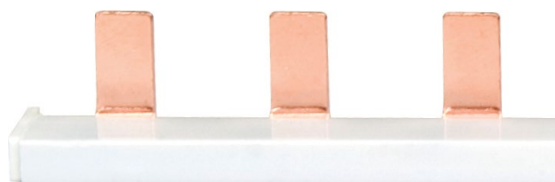
Power Loss

I_n (A)	Energy Loss P_w (W) L/N	Resistance Z (mOhm) L/N
6	1.1 / 0.3	27.3 / 7.7
10	1.9 / 0.7	15.8 / 7.9
16	2.5 / 2.1	9.9 / 7.6
20	2.9 / 3.2	6.7 / 7.5
25	2.8 / 5.2	4.0 / 8.0
32	3.4 / 5.6	2.9 / 5.2
40	4.0 / 8.9	2.6 / 5.3
50	5.0 / 9.0	1.5 / 3.5
63	7.4 / 15.5	1.9 / 3.4

Pin Type Busbar Combs

IBC Type - 1-Phase (Comes Complete with End Caps)

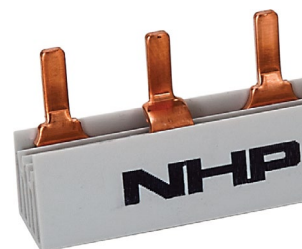
Suitable for linking regular 18 mm pitch terminals, DIN-T Main Switches, MCBs and RCBOs in a loadcenter or in a control centre. Pin type busbar comb utilises the devices main tunnel terminal.



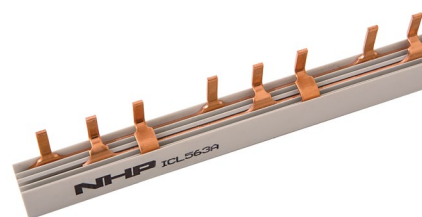
Item Description	Catalogue No.
Busbar Comb, 8 way, 100 A, 1P, Pin type with end caps	IBC108P
Busbar Comb, 12 way, 100 A, 1P, Pin type with end caps	IBC112P
Busbar Comb, 15 way, 100 A, 1P, Pin type with end caps	IBC115P
Busbar Comb, 18 way, 100 A, 1P, Pin type with end caps	IBC118P
Busbar Comb, 21 way, 100 A, 1P, Pin type with end caps	IBC121P
Busbar Comb, 55 way, 100 A, 1P, Pin type with end caps	IBC155P

ICL Type - 2P, 3P and 3P+N

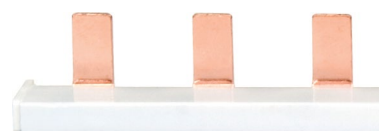
Suitable for linking regular 18 mm pitch terminals, DIN-T Main Switches, MCBs and RCBOs in a loadcenter or in a control centre. Pin type busbar comb utilises the devices main tunnel terminal.



Item Description	Catalogue No.
Busbar Comb 6 way, 80 A / 130 A, 1P+N, Pin type	ICL62
Busbar Comb, 10 way, 80 A / 130 A, 1P+N, Pin type	ICL102
Busbar Comb, 56 way, 80 A / 130A, 1P+N, Pin type	ICL562



Item Description	Catalogue No.
Busbar Comb 56 way, 80 A / 130 A, 3P+AUX, Pin type	ICL563A
Busbar Comb 56 way, 80 A / 130 A, 3P+N, Pin type	ICL564



Item Description	Catalogue No.
Busbar Comb, 12 way, 80 A / 130 A, 3P, Pin type	ICL123
Busbar Comb, 15 way, 80 A / 130 A, 3P, Pin type	ICL153
Busbar Comb, 18 way, 80 A / 130 A, 3P, Pin type	ICL183
Busbar Comb, 21 way, 80 A / 130 A, 3P, Pin type	ICL213
Busbar Comb, 57 way, 80 A / 130 A, 3P, Pin type	ICL573

IBD Type - 3P

Suitable for linking 9 mm pitch terminals, 2-in-1 MCBs and RCBOs in a loadcenter or in a control centre. Pin type busbar comb utilises the devices main tunnel terminal.



Item Description	Catalogue No.
Busbar Comb 12 way, 80 A / 100 A, 3P, suits DTCBD	IBD312P
Busbar Comb 55 way, 80 A / 100 A, 3P, suits DTCBD	IBD355P
Busbar Comb 55 way, 80 A / 100 A, 3P+N, Pin type, suits 2P M6RCBD and DTCBD	IBD4552P
Busbar Comb 55 way, 80 A / 100 A, 3P+N, Pin type, suits DTCBD64	IBD4554P

Busbar Comb End caps

IBC and IBD Busbar End Caps

End caps to cover the end of cut busbar comb.



Item Description	Catalogue No.
Buscomb End Cap to suit 2P and 3P IBD	ICLEC23
Buscomb End Cap to suit 3P+N ICL	ICLEC4

Busbar Comb Tee-off cap

Barrier / cover to bare tee-offs on busbar comb.



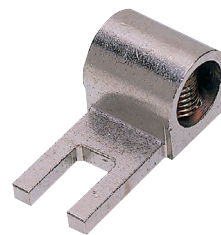
Item Description	Catalogue No.
Buscomb Tee-Off Caps Yellow (Strip of 5)	ICLTOC

Terminal Connectors

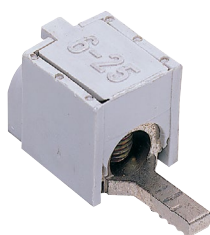
Allows connection of cable to terminal, either larger cable or changes direction for cable termination.



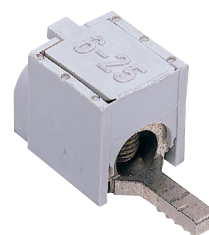
Item Description	Catalogue No.
Buscomb Terminal Feeder 35 mm	DTCF35



Item Description	Catalogue No.
Terminal Lateral Spade 35 mm to suit DIN MCBs	DTTLT35SP



Item Description	Catalogue No.
Terminal Axial Pin 25 mm ² (Insulated) to suit DIN MCBs	DTTAX25PN



Item Description	Catalogue No.
Terminal Axial Pin 50 mm (insulated) to suit DIN MCBs	DTTAX50PN



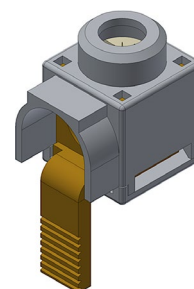
Item Description	Catalogue No.
Terminal Axial Spade 25 mm (insulated) to suit DIN MCBs	DTTAX25SP



Item Description	Catalogue No.
Terminal Lateral Pin 35 mm to suit DIN MCBs	DTTLT35PN



Item Description	Catalogue No.
Terminal Long Lateral Pin 35 mm to suit DIN MCBs	DTTLT35LPN



Item Description	Catalogue No.
Terminal rear connect 25mm pin	DTT9025PN



Terminal Covers and Pole Fillers

Barrier / cover to MCBs, RCBOs or fills void/cut-out in an escutcheon.



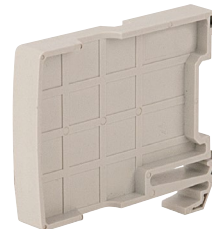
Item Description	Catalogue No.
Terminal Cover IP20 suits DTCB10H (required when not fitted to busbar chassis)	DTCB10HSRD



Item Description	Catalogue No.
Terminal Cover 35 mm suits DSRCBH	DSRCBHTC



Item Description	Catalogue No.
DIN Dummy MCB (Filler for touch protection)	DTLDM



Item Description	Catalogue No.
DIN Spacer 1 / 2 Module 9 mm width	DTSP



Item Description	Catalogue No.
Terminal Cover 35 mm suits DIN-T MCBs	DTTC35



Item Description	Catalogue No.
Terminal Cover 5 mm suits DIN-T MCBs	DTTC5

Other Lock Dogs (Non-Captive and Captive)

Allows for MCBs, RCBOs to be locked off by means of customer supplied padlock.



Item Description	Catalogue No.
DIN-T Metal Lock Dog Captive 6.5 mm	DCLD6



Item Description	Catalogue No.
DIN Lock Dog, Non-Captive suits hasp up to 8.0 mm.	DTLD

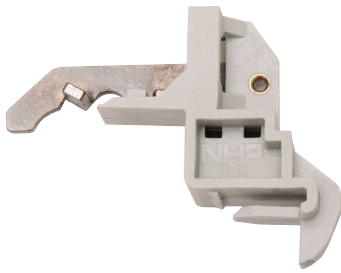


Item Description	Catalogue No.
DIN-T10H Lock Dog, Non-Captive suits hasp up to 7.0 mm.	DTLDH

LOCKDIN

Locking Devices

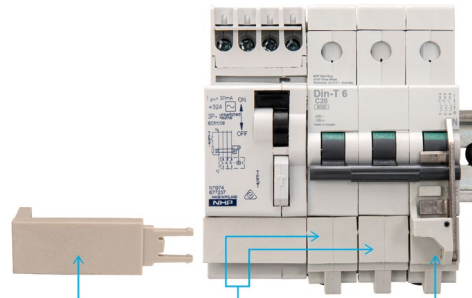
Captive locking system for MCBs, RCBOs to be securely locked off by means of customer supplied padlock up to 7.0 mm.



Item Description	Catalogue No.
LOCKDIN Left Hand Locking Assembly for MCBs and DSRCBH	DTLLA
LOCKDIN Right Hand / Left Hand Locking Assembly for DTCB MCB 27mm suit 1P-4P	DTLLADTCB10H
LOCKDIN Right Hand Locking Assembly for MCBs and DSRCBH	DTLLARH
LOCKDIN Left Hand Locking Assembly for 2 Pole RCBOs	DTLLAB
LOCKDIN Right Hand Locking Assembly for 2 Pole RCBOs	DTLLABRH
LOCKDIN Right Hand / Left Hand Locking Assembly for DIN-T 10H	DTLLA10H
LOCKDIN Left Hand Locking Assembly for MCBs and DSRCBH (12 Pack)	DTLLABULK
LOCKDIN Right Hand Locking Assembly for MCBs and DSRCBH (12 Pack)	DTLLARHBULK
LOCKDIN Right Hand/Left Hand Locking Assembly for DSRCBT RCBO 3P 54mm	DTLLADSRGBT

Pole Fillers and Blanking Devices

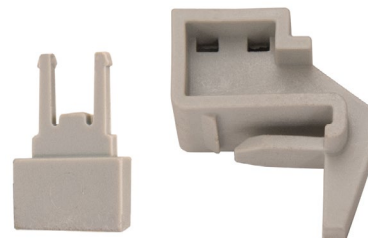
Captive locking system for MCBs, RCBOs to be securely locked off by means of customer supplied padlock.



Item Description	Catalogue No.
LOCKDIN Locking Blank for DSRCM (Add On RCCB), 3 Pole MCBs	DTLCM



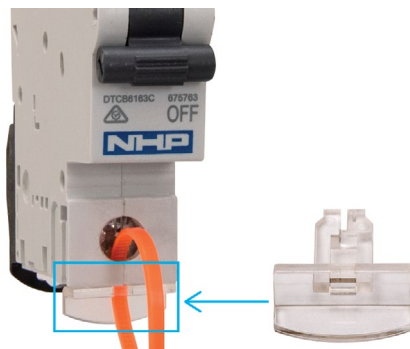
Item Description	Catalogue No.
1 strip of 12 poles (24 x 9 mm segments)	DTPF12



Item Description	Catalogue No.
LOCKDIN Locking Blank for MCBs and DSRCBH (12 Pack)	DTLLB



Additional Accessories



Item Description	Catalogue No.
DIN-T Sealing Plate 4 Pack to suit DIN-T MCBs	DTCBSEALPLATE



Item Description	Catalogue No.
RESIN	LOCTITE480



DIN-T Add-on Modules

MCB Accessories Compatibility Table	162
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MCB Accessories Compatibility Table

Part	Description	DIN-T6	DIN-T10	Din-T15	DIN-TDC	DIN-T Easy-Fit	DIN-T 2-in-1	DIN-T10H	DIN-TMS
DTAUXAL	Signal or Auxiliary Contact	LH/RH	LH/RH	LH/RH	LH/RH	LH/RH	LH/RH	-	LH/RH
DTAUXALG	Signal or Auxiliary Gold Contact	LH/RH	LH/RH	LH/RH	LH/RH	LH/RH	LH/RH	-	LH/RH
DTCB10HAUXAL	Signal or Auxiliary Contact	-	-	-	-	-	-	LH/-	-
DSRCBSAX	Auxiliary Contact	-	-	-	-	LH/RH	-	-	-
DSRCBSAXAL	Signal or Auxiliary Contact	-	-	-	-	LH/RH	-	-	-
DTCB10HSHT	Shunt Trip	-	-	-	-	-	-	LH/-	-
DTSHT	Shunt Trip	LH/RH	LH/RH	LH/RH	LH/RH	LH/RH	LH/RH	-	-
DTUVT	Undervoltage Trip	LH/RH	LH/RH	LH/RH	LH/RH	LH/RH	LH/RH	-	-
DTMD	Motor Operator	LH/RH	LH/RH	LH/RH	LH/RH	LH/RH	LH/RH	-	-

RCD Accessories Compatibility Table

Part	Description	DSRCBS	DSRCBH	DSRCB	DSRCBxxAI	DSRCB
DTAUXAL	Signal or Auxiliary Contact	-/RH	-	-/RH	LH/RH	-/RH
DTAUXALG	Signal or Auxiliary Gold Contact	-/RH	-	-/RH	LH/RH	-/RH
DINT10HHS	Signal or Auxiliary Contact	-	-	-	-	-
DSRCBSAX	Auxiliary Contact	-/RH	-	-	LH/RH	-
DSRCBSAXAL	Signal or Auxiliary Contact	-/RH	-	-	LH/RH	-
DINTSHT	Shunt Trip	-	-	-	-	-
DTSHT	Shunt Trip	-/RH	-	-/RH	LH/RH	-/RH
DTUVT	Undervoltage Trip	-/RH	-	-/RH	LH/RH	-/RH
DTMD	Motor Operator	LH/RH	-	-/RH	LH/RH	-/RH

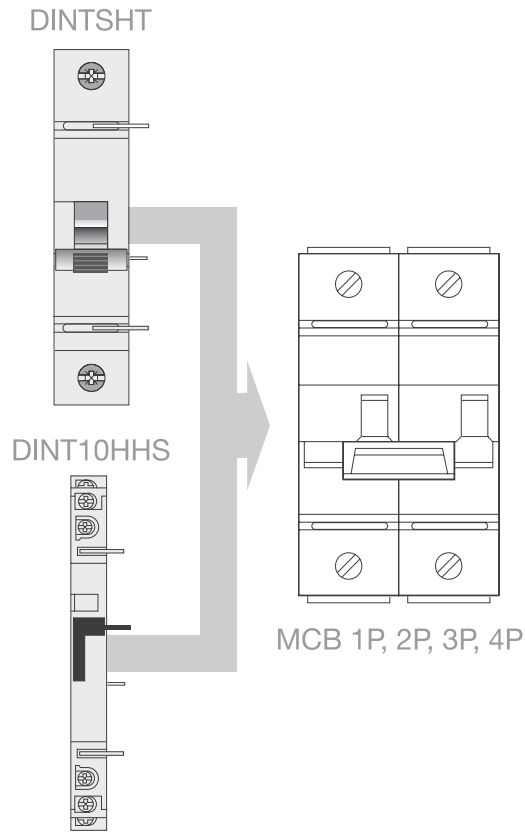
Common Add-On Devices Suitable for All MCBs and RCDs

Function

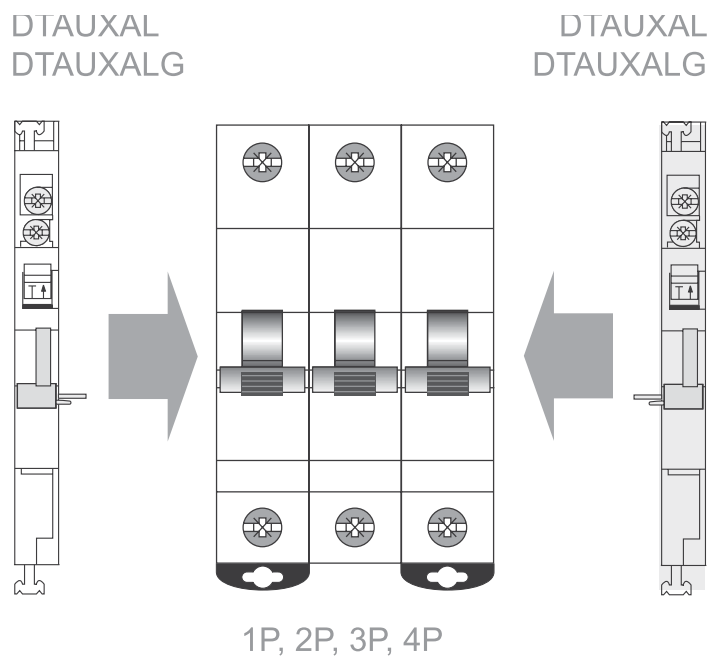
AUX		<p>Auxiliary Contact H</p> <p>For monitoring the status of the protection device (Open / Closed) independently, if it has been actuated manually or automatically.</p>
AL		<p>Signal or Auxiliary Contact S/H</p> <p>For signaling the automatic tripping of the protection devices: Overload or short-circuit for MCBs Earth leakage tripping for RCDs</p>
AUXAL		<p>Signal or Auxiliary Contact S/H + Auxiliary Contact H</p> <p>Two change-over contacts that include both functions as described above (S/H+H).</p>
SHT		<p>Shunt Trip (Distance Tripping by Emission)</p> <p>For opening the device when it is fed locally or remotely.</p>
UVT		<p>Undervoltage Release</p> <p>For opening the device when the voltage goes lower than a certain value.</p>
MD		<p>Motor Operator</p> <p>Allows to switch on/off the devices from a distance.</p>



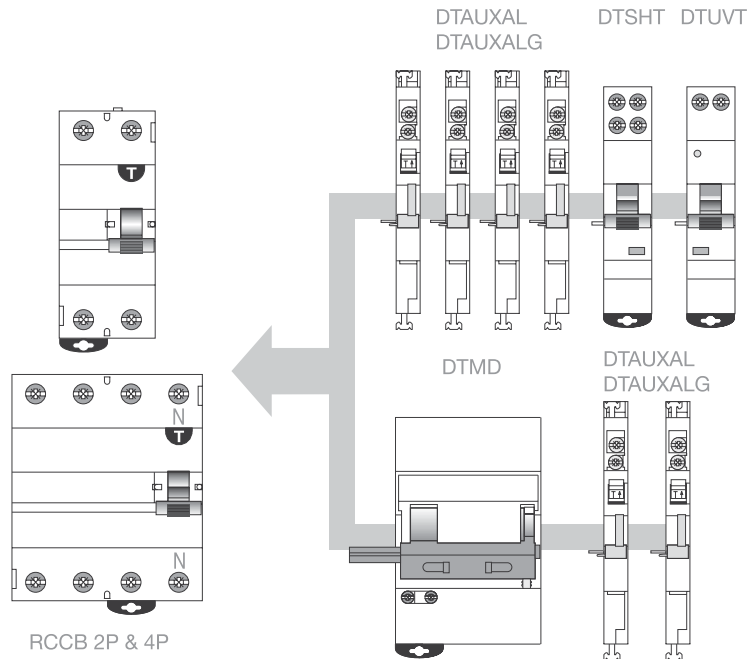
MCBs- DIN-T10H



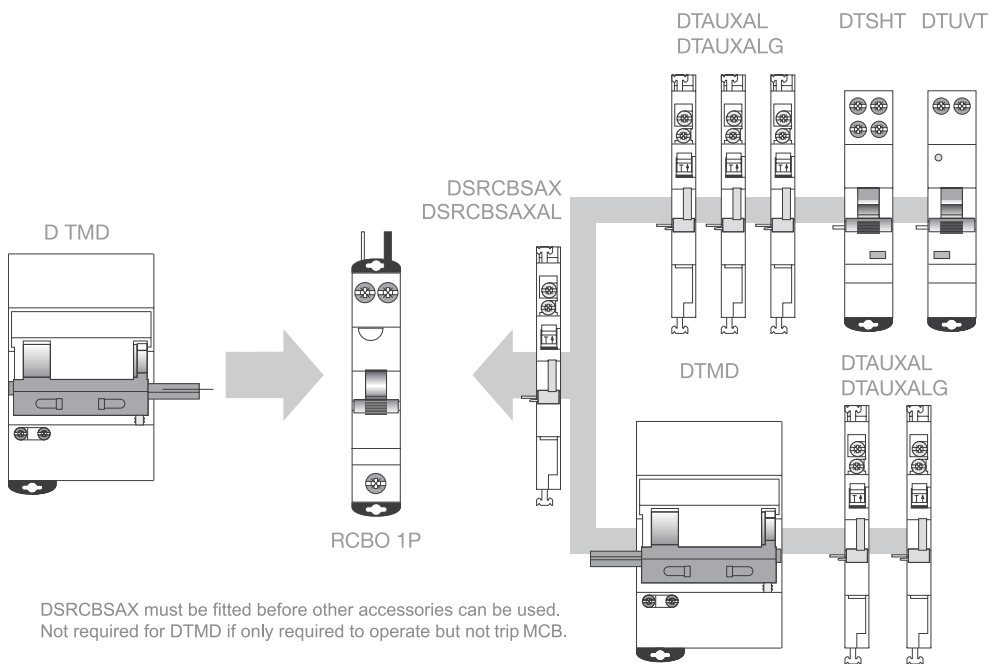
ISOLATOR- DIN-TMS



RCCB- DSRCD

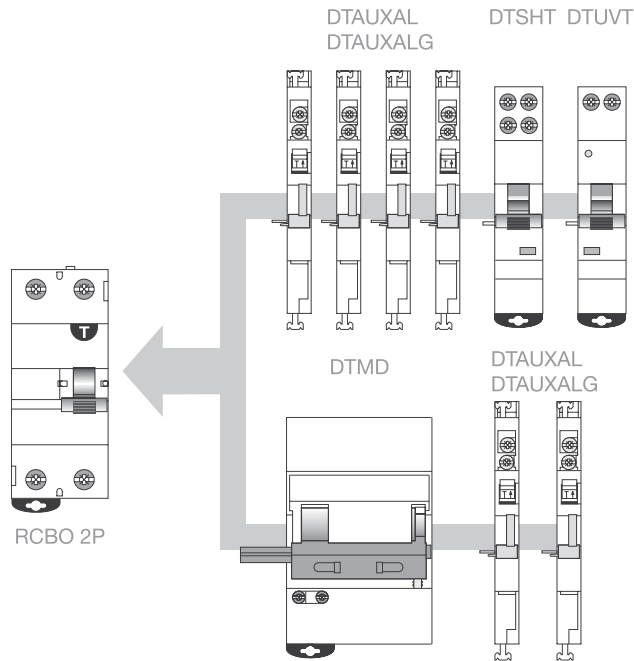


RCBOs- DSRCBS

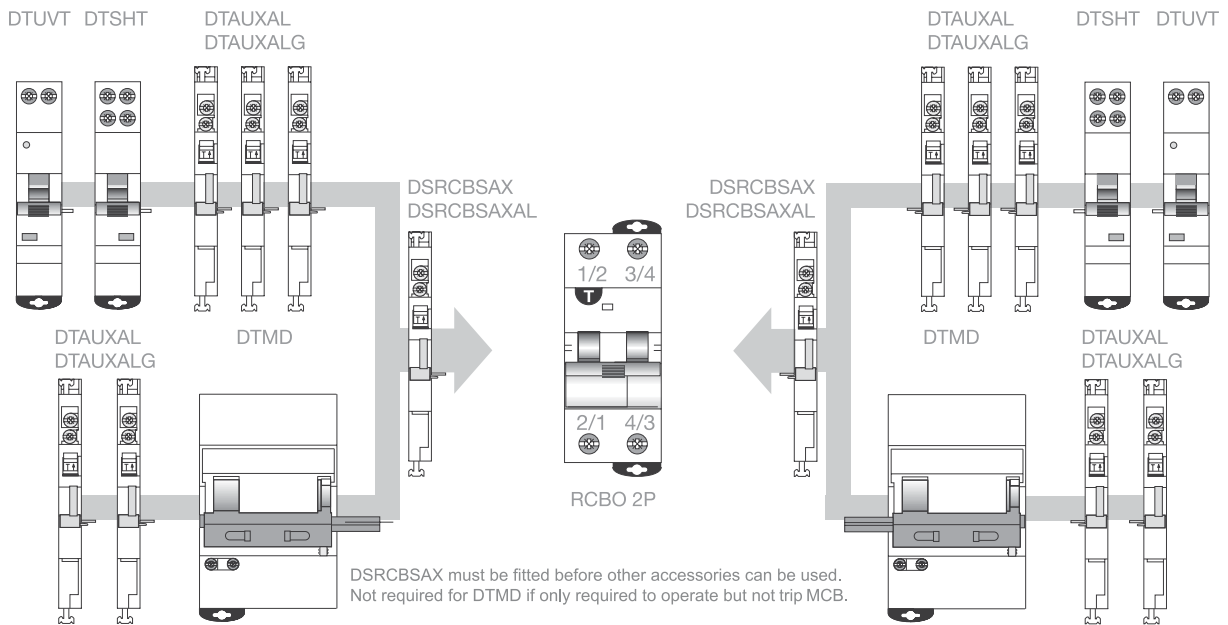




RCBOs– DSRCB



RCBO– DSRCBxxAI



DSRCBSAX must be fitted before other accessories can be used.
Not required for DTMD if only required to operate but not trip MCB.

DIN-T Add-on Modules

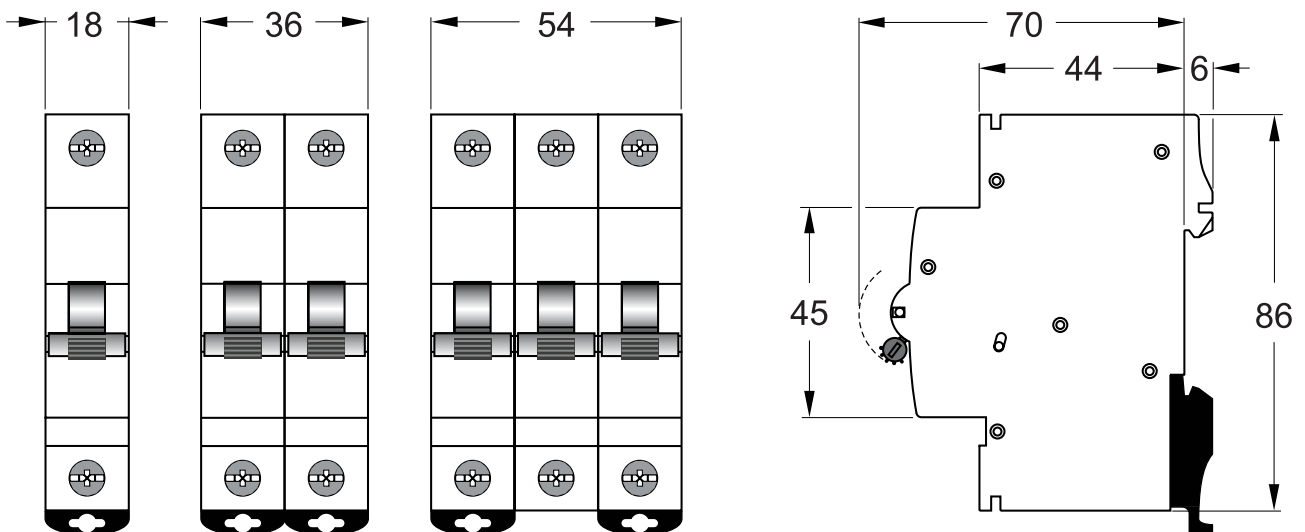
DIN-T Main Switches



- ✓ IEC 60947-3
- ✓ Double break contacts
- ✓ Sealable toggle
- ✓ DIN Rail Mount
- ✓ Red Toggle
- ✓ Suits NC on GB Chassis
- ✓ Side Mount 63 - 100 A NC Chassis
- ✓ Side Mount 63 - 80 A CD Chassis



Dimensions





Rating In (A)	No. of Poles	No. of Modules	Contacts	Catalogue No.
---------------	--------------	----------------	----------	---------------

63	1	1		DINTMS631
	2	2		DINTMS632
	3	3		DINTMS633
80	1	1		DINTMS801
	2	2		DINTMS802
	3	3		DINTMS803
100	1	1		DINTMS1001
	2	2		DINTMS1002
	3	3		DINTMS1003

| DIN-T Add-on Modules

DIN-T Shunt Trip

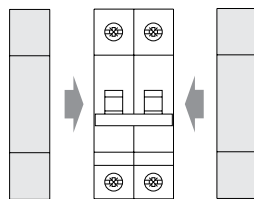


- ✓ Coupled to left or right side of MCB
- ✓ Modular width - 18 mm
- ✓ Busbar cavity both ends
- ✓ Field assembly
- ✓ Continuously rated
- ✓ Terminals for remote indication
- ✓ Suits DIN-T6, 10, 15, DC, E6

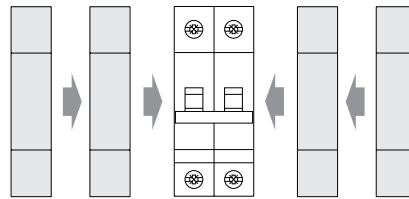


| Application

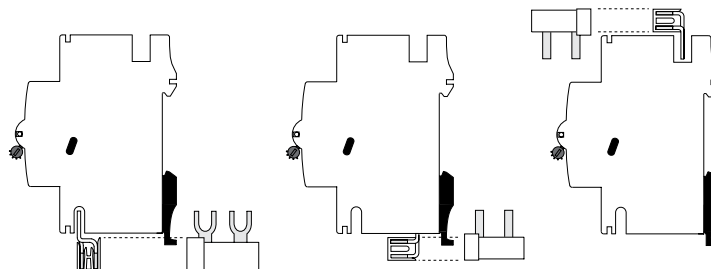
Coupling



Stack-on

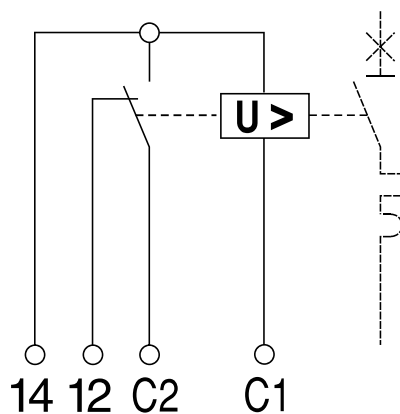


Busbar pass-through

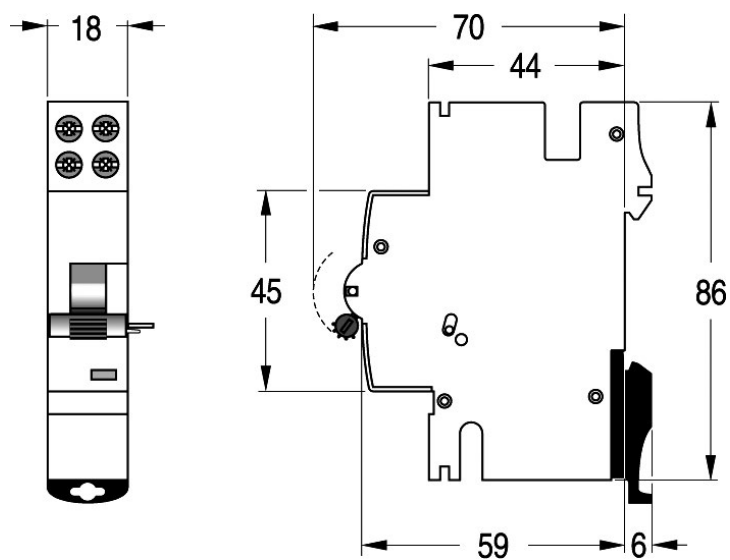


Commercial and industrial applications. Suitable for remotely tripping circuit protection devices.

Connection



Dimensions



Item Description

Catalogue No.

DIN-T10H Shunt Trip 110-415 V AC & 110-125 V DC

DINTSHT110415U

DIN-T10H Shunt Trip 24-60 V AC & 24-48 V DC

DINTSHT2460U

DIN-T Shunt Trip 110-415 V AC & 110-125 V DC

DTSHT110415V

DIN-T Shunt Trip 24-60 V AC & 24-48 V DC

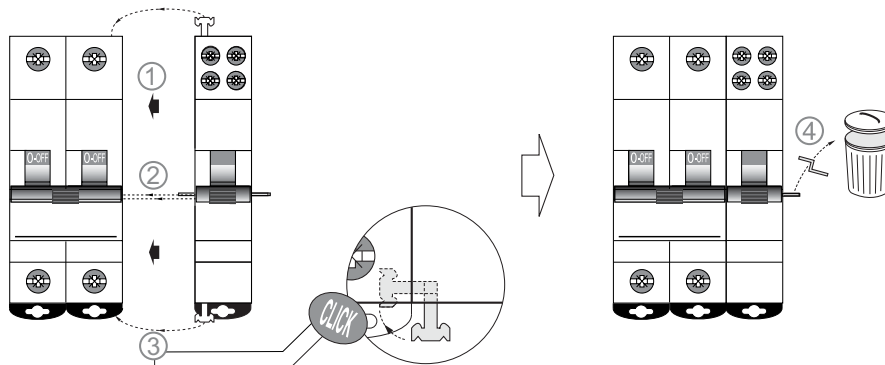
DTSHT2460V



How to Couple the Shunt Trip to the Main Device

The shunt trip can easily be coupled either to the right or the left-hand side of the main device (see fig.1 and 2). The shunt trip can be coupled on the righthand side of the main device (see fig.1).

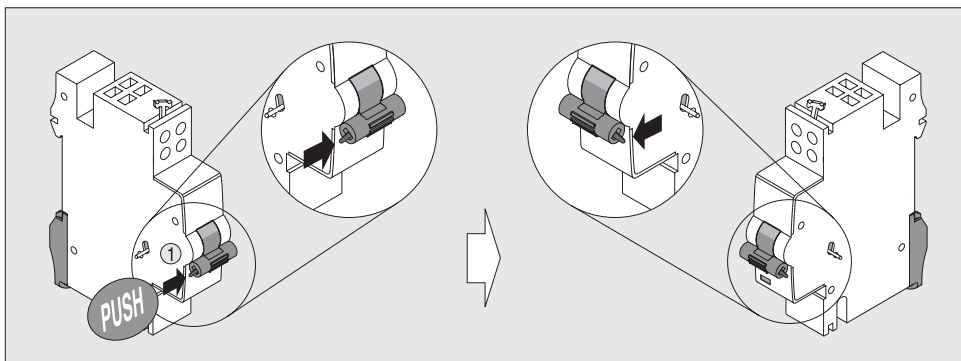
fig.1 To couple on the right-hand side



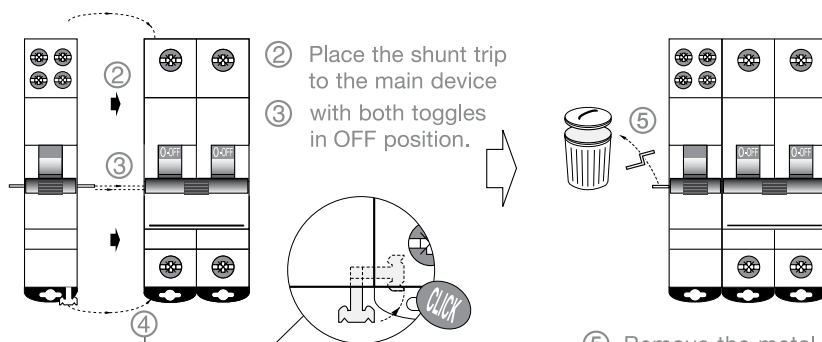
Place the shunt trip next to the main device with both toggles in OFF position.

Lock the coupling clips at the top, bottom and rear into position.

fig.2 To couple on the left-hand side: can be easily done according to the following instructions.



① With the help of a screwdriver, push the toggle pin to the right-hand side.

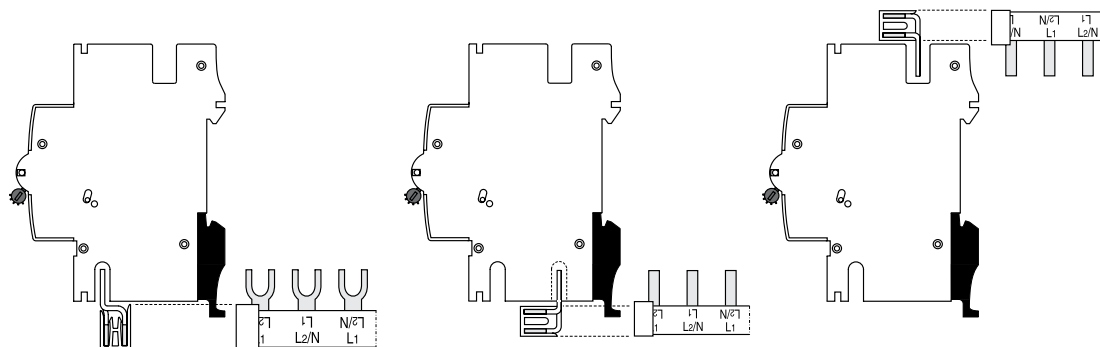


② Place the shunt trip to the main device
③ with both toggles in OFF position.

④ Lock the coupling parts in top and bottom as well as the coupling part in the back side into position.

⑤ Remove the metal pin on the left-hand side.

Busbar connection: the shunt trip allows the use of the PIN or FORK type busbars at the bottom terminals as well as the use of the PIN type busbars at the top terminals.



Technical Data

		110 - 415 V Type		24 - 60 V Type	
Nominal Voltage AC	V	110 to 415		24 to 60	
Nominal Voltage DC	V	110 to 125		24 to 48	
Minimum Voltage AC / DC	V	0.85 U _n		0.85 U _n	
Closing Current	110 V	A	0.3	-	
	240 V	A	0.6	-	
	415 V	A	1	-	
	48 V	A	-	2	
	24 V	A	-	1	
Operating Time	110 V	ms	10		
	240 V	ms	4	-	
	415 V	ms	2	-	
	48 V	ms	-	10	
	24 V	ms	-	4	
Coil Impedance	Ω	290	24		
Electrical Endurance (Operations)			2000		2000
Terminal Capacity	Rigid Cable	mm ²	1 - 2.5		1 - 2.5
	Flexible Cable	mm ²	0.75 - 2.5		0.75 - 2.5
Terminal Capacity For 2 Rigid Cables		mm ²	2 x 1.5		2 x 1.5
Torque		Nm	2		2

DIN-T Add-on Modules

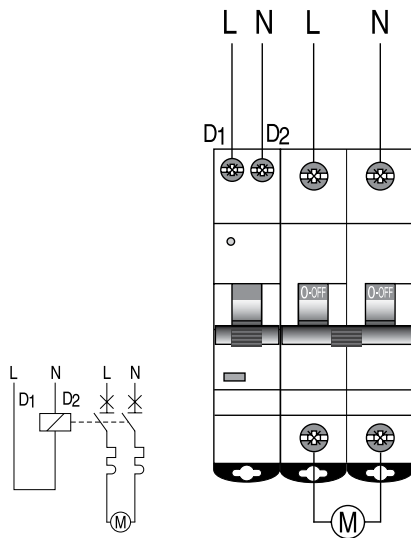
DIN-T Undervoltage Trip



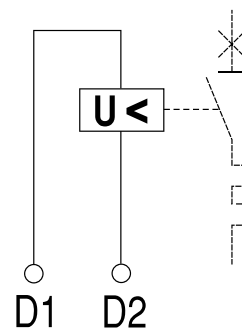
- ✓ Suitable for DIN-T6, 10, 15 (Not DIN-T10H)
- ✓ Operating threshold 50 % of nominal voltage
- ✓ Time delay adjustable 0 - 300 ms
- ✓ Coupled to left or right side of MCB
- ✓ One module width (18 mm)
- ✓ Busbar cavity both ends



Application

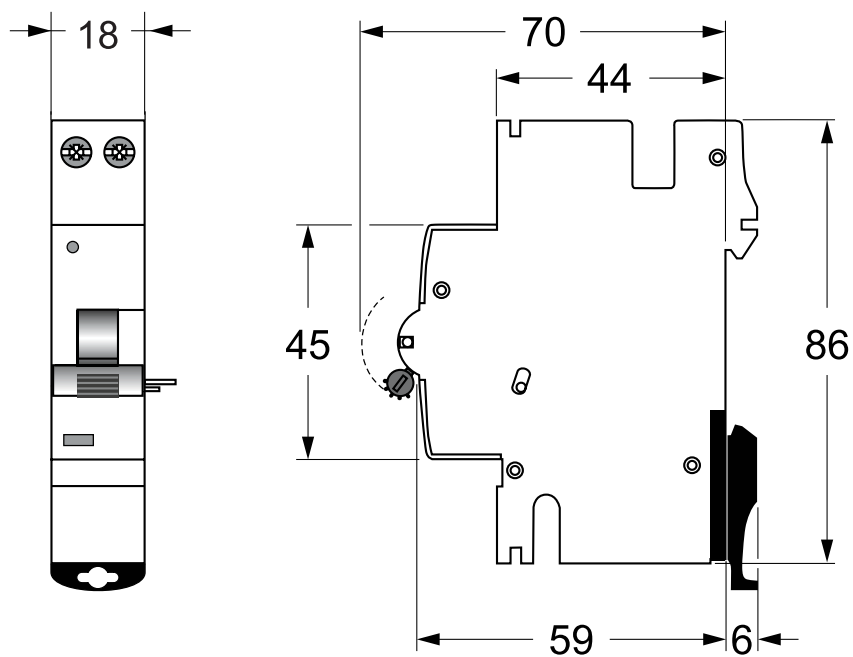


Connection



Commercial and industrial applications. Suitable for fail safe remotely tripping circuit protection devices (Emergency Stop).

Dimensions



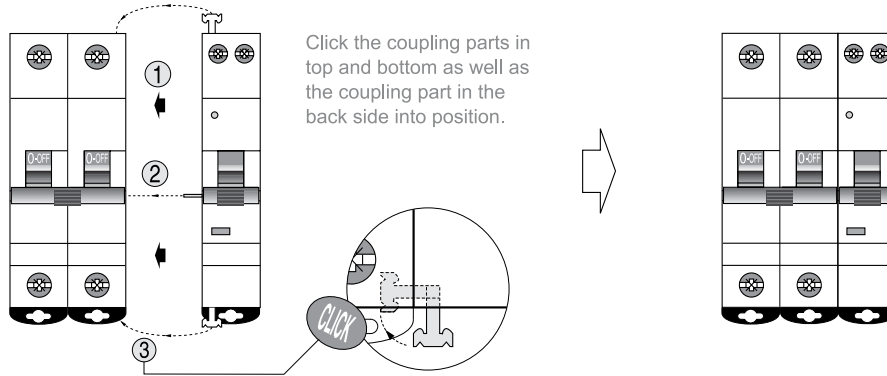
Item Description	Catalogue No.
DIN-T Undervoltage Trip 230 V AC	DTUVT240VAC
DIN-T Undervoltage Trip 12 V AC / DC	DTUVT12VDC
DIN-T Undervoltage Trip 24 V AC / DC	DTUVT24VDC



How to Couple the Undervoltage Trip to the Main Device

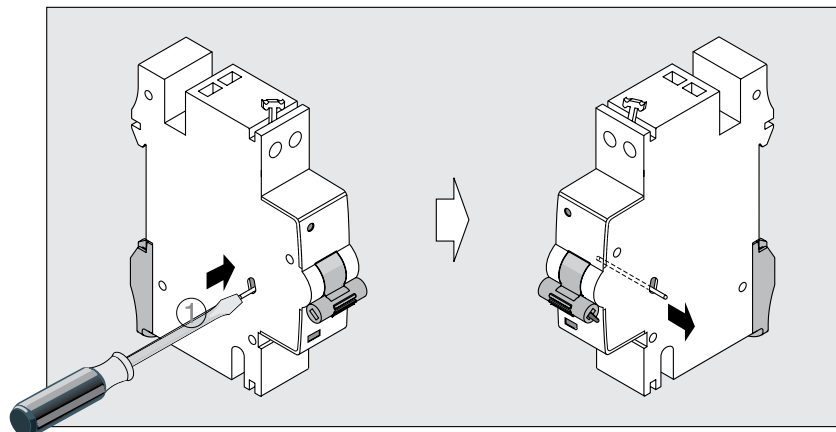
The undervoltage release can easily be coupled either on the right or the left-hand side of the main device (see fig. 1 and fig. 2). The undervoltage release is designed to be coupled on the right-hand side of the main device (see fig. 1).

fig.1 To couple on the right-hand side

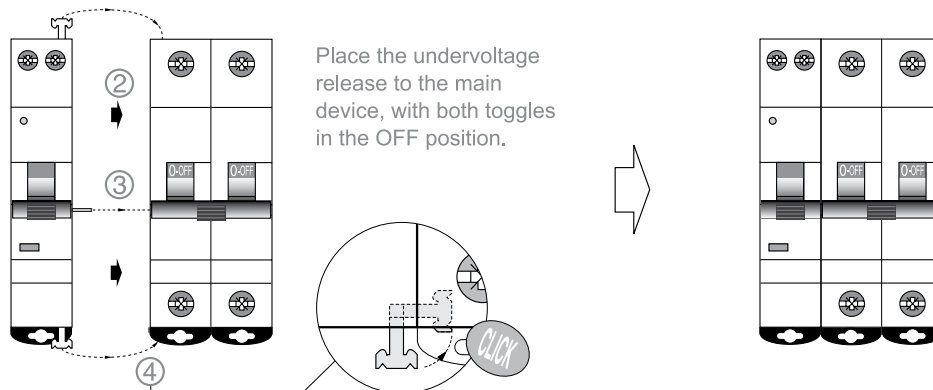


Place the undervoltage release to the main device, with both toggles in OFF position.

fig.2 To couple on the left-hand side: can be easily done according to the following instructions.

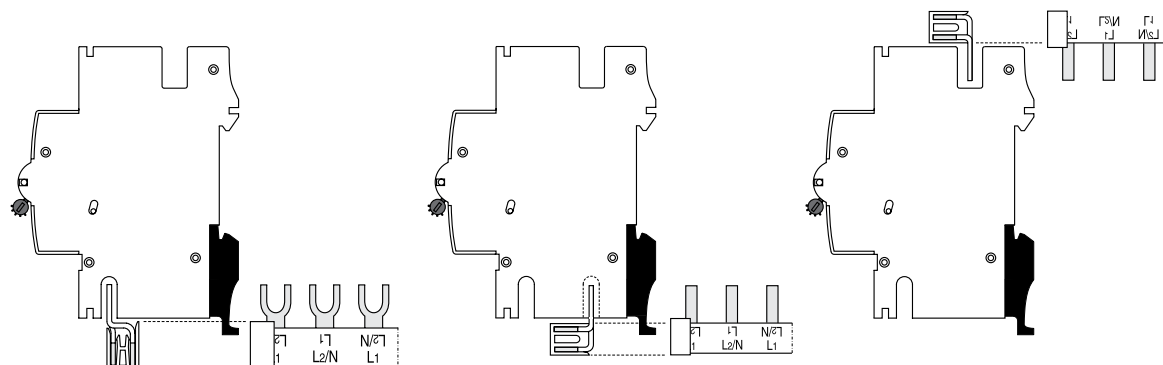


With the help of a screwdriver, push both tripping pin and toggle pin to the right-hand side.



Click the coupling parts in top and bottom as well as the coupling part in the back side into position.

Busbar passthrough: the undervoltage release allows the passthrough of the PIN or FORK type busbars at the bottom terminals as well as the passthrough of the PIN type busbars at the top terminals.



Technical Data

		12 V	24 V	48 V	230 V
Nominal Voltage	V	12 AC / DC	24 AC / DC	48 AC / DC	230 AC
Tripping Voltage	V	0.5 U _n	0.5 U _n	0.5 U _n	0.5 U _n
		(±10 %)	(±10 %)	(±10 %)	(±10 %)
Tripping Time	ms	0 - 300	0 - 300	0 - 300	0 - 300
Power Consumption	VA	3	3	3	3
Frequency	Hz	50 - 60	50 - 60	50 - 60	50 - 60
Electrical Endurance (operations)	ops	2000	2000	2000	2000
Terminal Rigid	Capacity Cable	mm ²	1 - 2.5	1 - 2.5	1 - 2.5
	Flexible Cable	mm ²	0.75 - 2.5	0.75 - 2.5	0.75 - 2.5
Terminal Capacity For 2 Rigid Cables	mm ²	2 x 1.5	2 x 1.5	2 x 1.5	2 x 1.5
Torque	Nm	2	2	2	2

DIN-T Add-on Modules

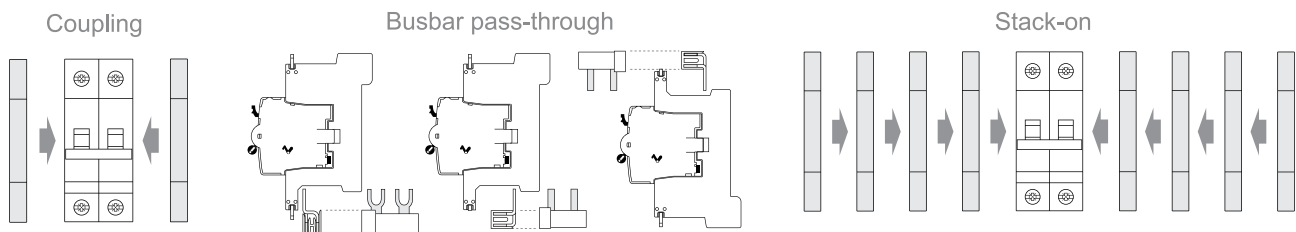
DIN-T Auxiliaries



- ✓ Auxiliary contacts are supplied as a kit for fitting to MCBs
- ✓ Field fittable. Stack up to 4 units on left or right side
- ✓ Suitable for DIN-T6, 10, 15 (Not DIN-T10H)
- ✓ DIN-T auxiliary contacts indicate main contact position of the associated main device
- ✓ Includes busbar cavity for chassis mounting
- ✓ Current rating 5 A
- ✓ Version with gold contacts available for very low current < 200 mA and voltage < 24 V applications



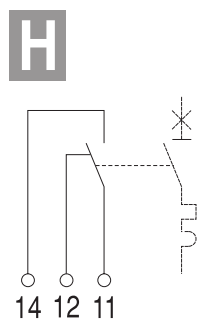
Application



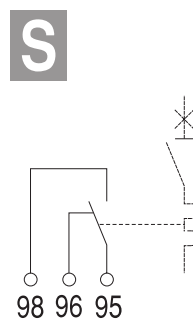
Suitable for sending remote signals indicating position of circuit protection device, switched off, switched on or tripped.

Connection

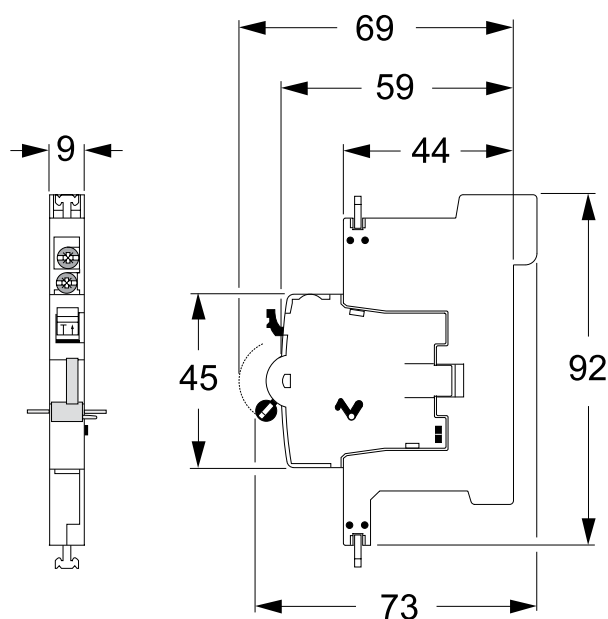
Function H



Function S



Dimensions

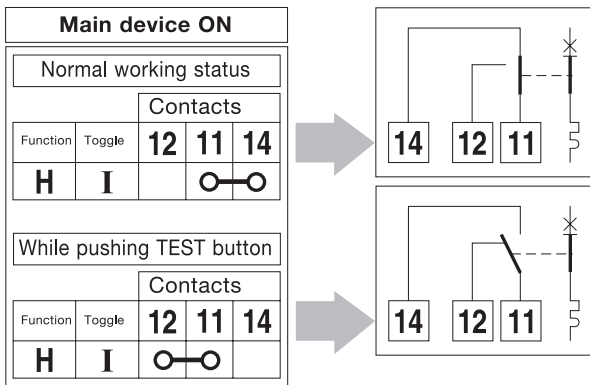


Item Description	Catalogue No.
Auxiliary Contact Silver Contacts; Alarm (S) or Auxiliary (H) Output - suits DIN-T	DTAUXAL
Auxiliary Contact Gold Contacts; Alarm (S) or Auxiliary (H) Output - suits DIN-T	DTAUXALG
Auxiliary Contact Silver Contacts; Alarm (S) Or Auxiliary (H) Output - suits DIN-T10H	DTCB10HAUXAL
Auxiliary Contact Silver Contacts - suits DSRCBS	DSRCBSAX
Auxiliary Contact Silver Contacts; Alarm (S) or Auxiliary (H) Output- suits DSRCBS	DSRCBSAXAL
Auxiliary Contact with Gold Contacts; provides Alarm (S) or Auxiliary (H) Output - suits DSRCBS	DSRCBSAXALG

Function (H) Auxiliary

When function H has been selected it is possible to know the real contact position of the associated device.

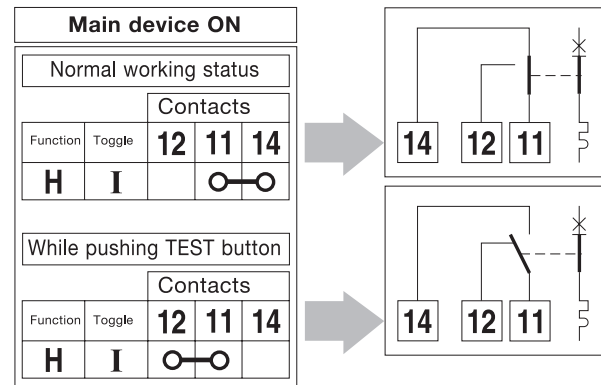
MCB ON



While both devices are in the ON position there is continuity between terminals 11-14. By pressing the display contact test button, the continuity changes over to terminals 11-12.

When released, the contacts changeover to the previous position 11-14.

MCB OFF



While both devices are in the OFF position there is continuity between terminals 11-12. By pressing the display contact test button, the continuity changes over to terminals 11-14.

When released, the contacts changeover to the previous position 11-12.

Din-T Auxiliary Contacts for MCBs

Function S (Alarm)

The function S has been selected it as possible to know if the associated device has been tripped or not. Device will not switch when associated device is manually operated.

Test and Reset Function

Test Function

Allows testing of the control circuit by moving the test button up or down, without affecting the electrical status (ON/OFF) of the main device.

Reset Function

If the main device electrically operates (due to overload, short-circuit or earth fault current), the changeover contact switches: a red line appears on the front of the test/reset button (visible indication of electrical fault in the installation). The changeover contact can be reset by pushing the test button down without changing the electrical status (ON/OFF) of the main device.

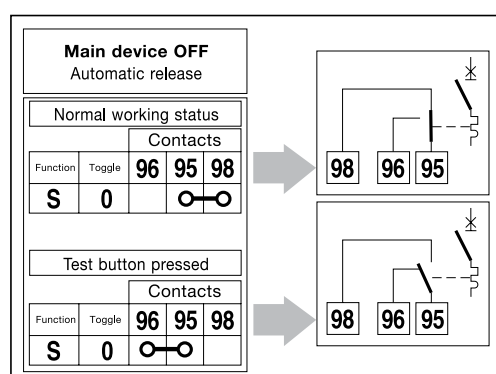
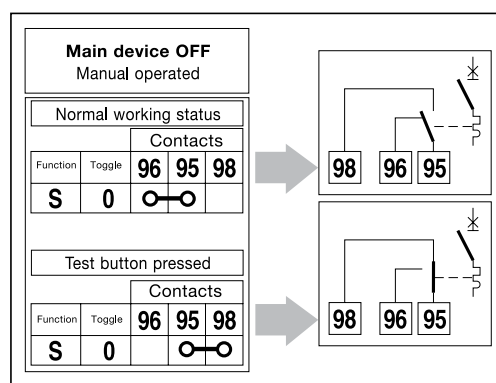
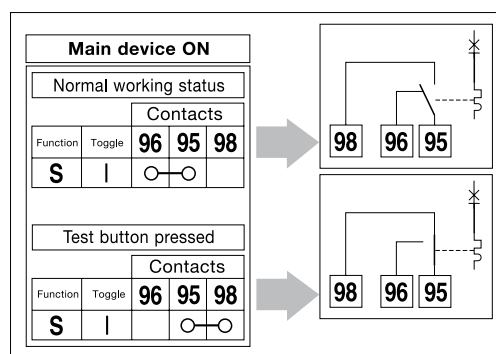
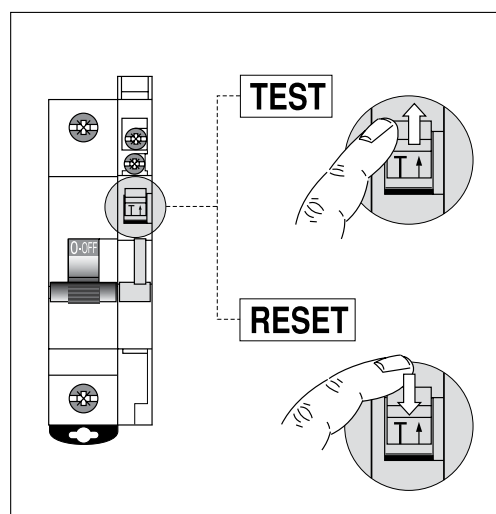
While both devices are in the ON position there is continuity between terminals 95-98. By pressing the display contact test button, the continuity changes over to terminals 95-96. When released, the contacts changeover to the previous position, 95-98.

Manual Operation

The contact position of the display contact test button has not changed. There is continuity between terminals 95-98. When pressing the display contact test button, the continuity switches over to terminals 95-96. When released, the contacts changeover to the previous position 95-98.

Automatic Release

The contact position of the display contact test/reset button has changed. There is continuity between terminals 95-96. When the display contact reset button is operated the continuity switches over to terminals 95-98, and remains in that position even when the reset button is released.





Technical Data

Display Contacts

				(Standard) DTAUXAL Silver	(Micro Current) DTAUXALG Gold
Maximum Current	AC 14	240 V	A	5	5
		60 V	A	1	1
	DC 12	48 V	A	2	2
		24 V	A	4	4
Minimum Application Voltage		AC / DC	V	24	12
Minimum Application Current		AC	mA	10	2
		DC	mA	200	25

Short-Circuit Resistance

Protected By Fuses 6 A gG		A	1000	1000
Protected By MCB DIN-T 6		A	1000	1000
Electrical Endurance	(Operations)	ops	10000	10000
Terminal Capacity	Rigid Cable	mm ²	1 - 2.5	1 - 2.5
	Flexible	mm ²	0.75 - 2.5	0.75 - 2.5
Terminal Capacity For 2 Rigid Cables		mm ²	2 x 1.5	2 x 1.5
Torque		Nm	2	2

| DIN-T Add-on Modules

DIN-T Changeover Switch



- ✓ Standard IEC 60669-1
- ✓ Complies with IEC 408 isolating duty - has double break contacts
- ✓ Terminal protection IP 20
- ✓ Handle sealable and lockable in ON or OFF position
- ✓ Captive terminal screws with cross head

| Connection

Changeover switch (without OFF) I-II

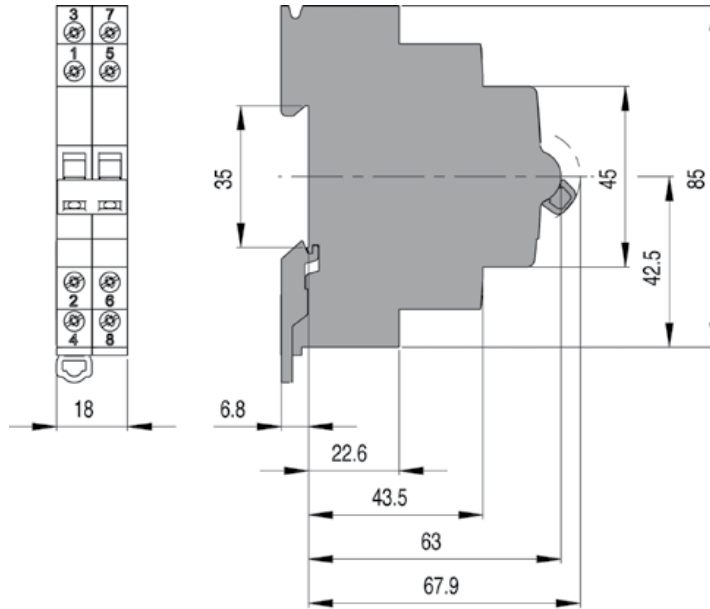
I_n (A)	No. of Poles	No. of Modules	Connection
25	2	1	

Changeover switch (with OFF) I-O-II

25	2	1	
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Dimensions



Item Description

Catalogue No.

DIN Change-Over Switch 2P 25 A without OFF Position

DTCS2522

DIN Change-Over Switch 2P 25 A with OFF Position

DTCS2523

| DIN-T Add-on Modules

DIN-T DTC...D Contactors

- ✓ Standards IEC 60947-1, IEC 60947-4-1 and IEC 61095
- ✓ 16, 20, 25, 40 and 63 A
- ✓ Silent operated, hum free AC/DC coils
- ✓ Integrated surge protection
- ✓ Low power consumption
- ✓ Indicator position flag Red/Green
- ✓ Space saving, no spacer required 16 A and 20 A models
- ✓ 9 mm Spacer required 25, 40 and 63 A models if duty time 1 hour and ambient > 40 °C
- ✓ Add on auxiliary contact 2NO or 1NO/1NC
- ✓ DIN rail mount



Ith @ 40°C (A)	Contacts	Coil Voltage (V AC / V DC)	W (mm)	AC-7a @ 230 V (A / kW)	AC-7b @ 230 V (A / kW)	Catalogue No.
16	1 NO + 1 NC	240 V AC / 240 V DC	17.8	16 A / 3.7 kW	6 A / 0.9 kW	DTC1611240D
16	2 NO	240 V AC / 240 V DC	17.8	16 A / 3.7 kW	6 A / 0.9 kW	DTC1620240D
20	2 NC	240 V AC / 240 V DC	17.8	20 A / 4.6 kW	9 A / 1.3 kW	DTC2002240D
20	1 NO + 1 NC	240 V AC / 240 V DC	17.8	20 A / 4.6 kW	9 A / 1.3 kW	DTC2011240D
20	2 NO	24 V AC / 240 V DC	17.8	20 A / 4.6 kW	9 A / 1.3 kW	DTC202024D
20	2 NO	240 V AC / 240 V DC	17.8	20 A / 4.6 kW	9 A / 1.3 kW	DTC2020240D
25	4 NO	12 V AC / 12 V DC	36	25 A / 5.8 kW	9 A / 1.3 kW	DTC254012D
25	4 NO	24 V AC / 240V DC	36	25 A / 5.8 kW	9 A / 1.3 kW	DTC254024D
25	4 NC	240 V AC / 240 V DC	36	25 A / 5.8 kW	6 A / 0.9 kW	DTC2504240D
25	4 NO	240 V AC / 240 V DC	36	25 A / 5.8 kW	9 A / 1.3 kW	DTC2540240D
40	4 NO	24 V AC / 240 V DC	54	40 A / 9.2 kW	22 A / 3.7 kW	DTC404024D
40	4 NO	240 V AC / 240 V DC	54	40 A / 9.2 kW	22 A / 3.7 kW	DTC4040240D
63	4 NO	24 V AC / 240 V DC	54	63 A / 14.5 kW	30 A / 5 kW	DTC634024D
63	4 NO	240 V AC / 240 V DC	54	63 A / 14.5 kW	30 A / 5 kW	DTC6340240D

Lamp table for DTC Installation Contactors

In the following table the maximum current and capacitor load admissible per pole at 230 V AC are listed.

Values are given for loads wired phase to neutral or 3-phases to neutral with star connection and load symmetrical distribution.

The real inrush current which could occur can be effected by several parameters like: lamp specification, cross section / length of the connection wires and power supply; for this reason, the values in the table has to be considered as information only.

		DTC16x0	DTC20x0	DTC25x0	DTC40x0	DTC63x0
permitted compensating capacity per phase	$C_{max} / \mu F$	45	75	100	350	500
Lamp types	Maximum load of the current paths during switching of electric lamps I_e / A per phase					
Incandescent and halogen lamps (230 V)		4	6	7	20	30
Mixing lamps without ballast		4	6	7	20	30
Fluorescent lamps with conventional ballast						
single lamp uncompensated		14	18	22	36	56
single lamp parallel compensated		2	3	3.5	10	15
series compensation, duo circuit		14	18	22	36	56
Fluorescent lamps with electronic ballast or CFL		4	6	7	20	30
LED lamps		4	6	7	20	30
High pressure mercury-vapor lamps						
single lamp without compensation		7	9	11	18	28
parallel compensation, single lamp with electronic ballast		2	3	3.5	10	15
Halogen metal-vapor lamps						
single lamp without compensation		7	9	11	18	28
parallel compensation, single lamp with electronic ballast		2	3	3.5	10	15
High pressure sodium-vapor lamps						
single lamp without compensation		7	9	11	18	28
parallel compensation, single lamp with electronic ballast		2	3	3.5	10	15
Low pressure sodium-vapor lamps						
single lamp without compensation		7	9	11	18	28
parallel compensation, single lamp with electronic ballast		2	3	3.5	10	15

DIN-T Add-on Modules

DIN-T Pushbuttons

- ✓ Modular size
- ✓ DIN rail mounting
- ✓ Terminal protection IP 20
- ✓ Contacts 16 amp rating @250 V AC



Connection

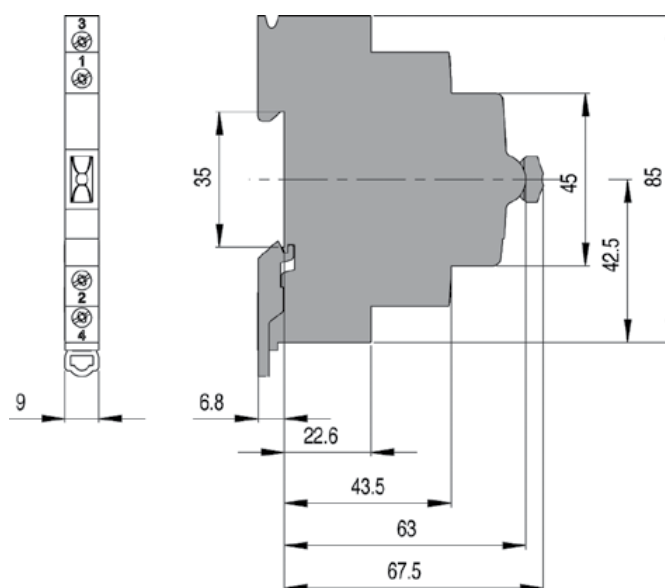
Pushbuttons

Contacts

1 x (N/O + N/C)



Dimensions



Item Description

Catalogue No.

DIN Pushbutton NO and NC 9mm

DTPC119

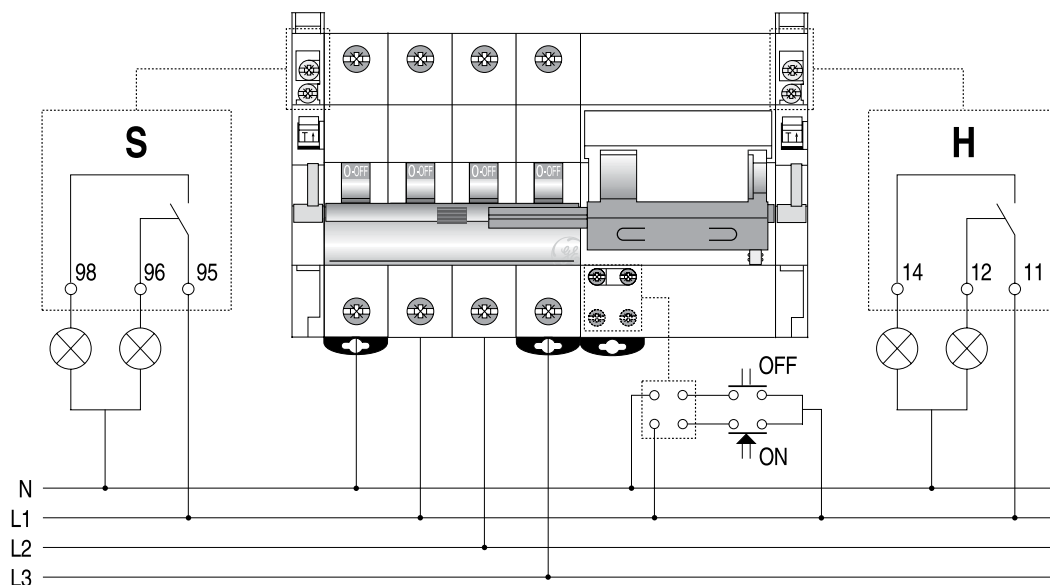
| DIN-T Add-on Modules

DIN-T Motor Operator



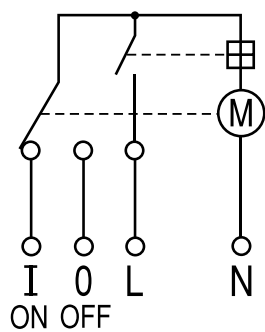
- ✓ Suits DIN-T 6, 10, 15, DC and E6
- ✓ Manual operation is possible
- ✓ Field fittable, left or right mounting
- ✓ Manual and electrical reset
- ✓ Motor must be reset before tripped MCB/RCB can be closed
- ✓ Impulse switch on < 50 ms
- ✓ Inbuilt auxiliary / alarm contacts
- ✓ Padlockable in OFF position
- ✓ Silent operation
- ✓ Stack on left or right side up to 4 auxiliary contacts
- ✓ Can operate as a stand-alone device switching accessories only

| Application



DIN profile motor operator allowing remote operation of DIN-T circuit protection devices.

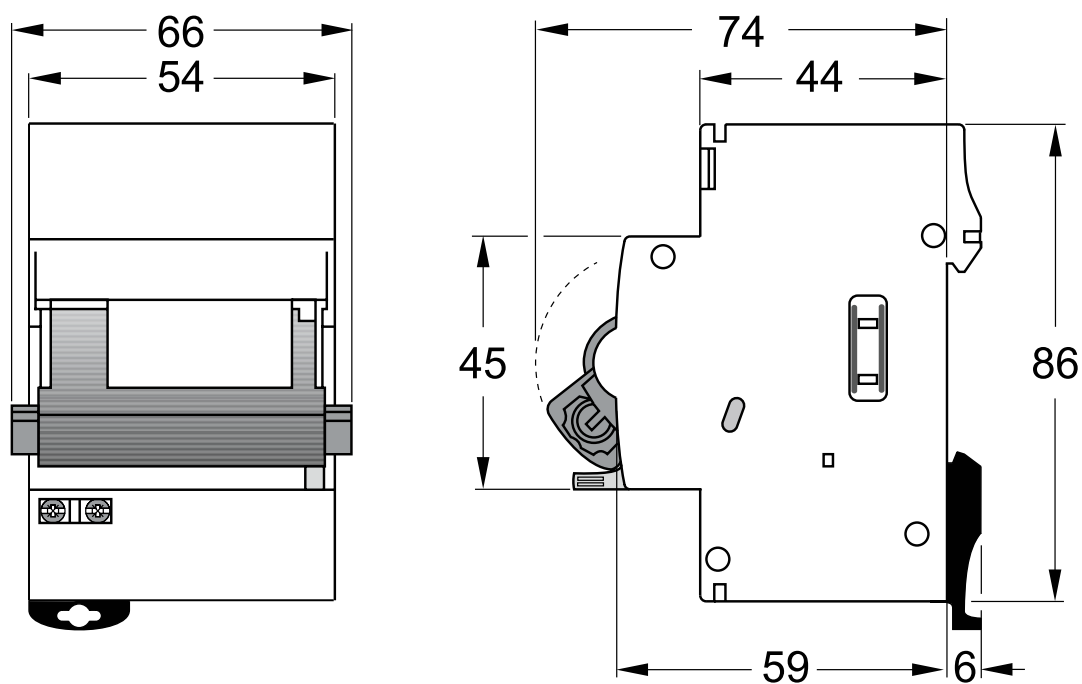
Connection



Design Considerations

- 1, 2 and 3 pole DIN-T 6, 10 and 15 MCBs
- 2 and 4 pole DIN-Safe safety switches (Fits to right side only on 2 P RCBO and 2 / 4P RCCB)
- 2 pole DIN-Safe MCBs (combined MCB / RCD)
- Not suitable for DIN-T10H MCBs

Dimensions



Item Description

Catalogue No.

DIN Motor Driver 230 V AC suits DIN-T

DTMD240VAC



Technical Data

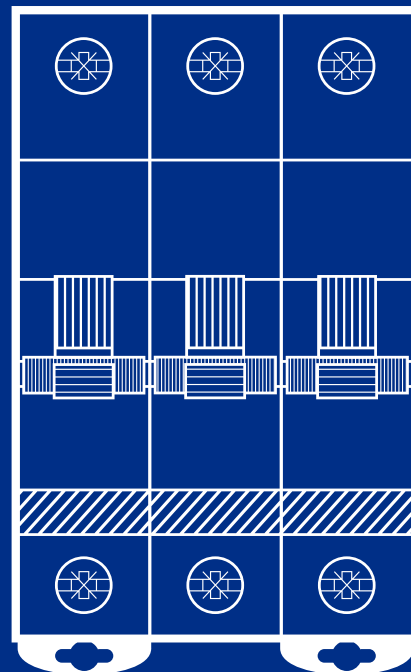
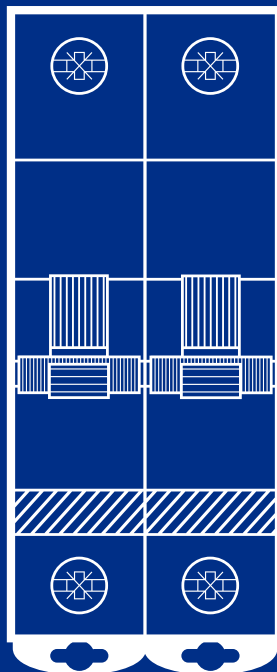
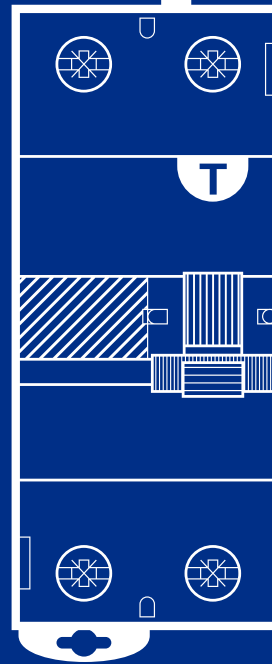
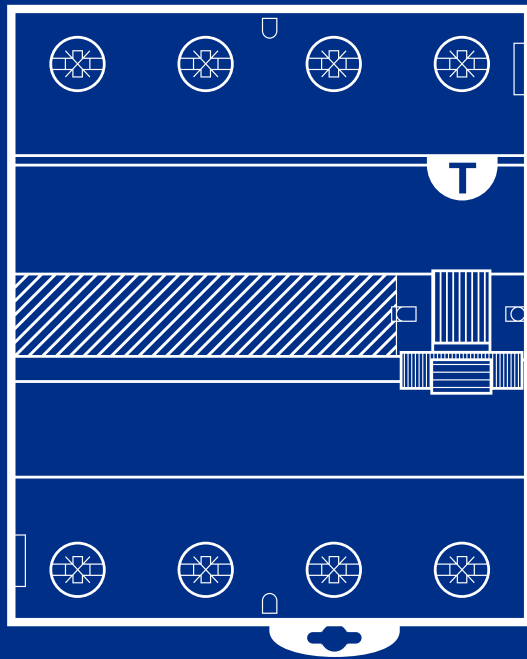
Nominal Voltage AC	V	230 ± 10 %
Frequency	Hz	50
Power Consumption	VA	35
Closing Time	ms	<500
Opening Time	ms	<200
Impulse Time to Open	ms	>50
Impulse Time to Close	ms	>50
Working Temperature	°C	-25 up to +55
Electrical Life	Ops	10,000
Terminal Capacity	Rigid Cable	mm ² 1 - 2.5
	Flexible Cable	mm ² 0.75 - 2.5
Terminal Capacity for 2 Rigid Cables	mm ²	2 x 1.5
Torque	Nm	2
Width	54 mm (motor only)	
Protection Degree of Terminals	IP 20	
Sealing Handle Prevents	In 0 Position	Closing manually or electrically the breaker
	In 1 Position	Setting out of service
Automatic Stop Power Feature Built-In	Power consumption only when closing or opening the MCB electrically	
Current I _n	0.13 A	
Time Between Successive Opening & Closing	Minimum 1 sec	
Time of Successive Closing of MCB Contacts	0.3 sec	
Weight	(g) 380	

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DSRCM631003PN	146	DTCB10132C	94	DTCB10302D	95
DSRCM633001PN	145	DTCB10132D	94	DTCB10304C	95
DSRCM633003P	146	DTCB10140B	94	DTCB10304D	95
DSRCM633003PN	146	DTCB10140C	94	DTCB10305C	95
DSRCM63301PN	145	DTCB10140D	94	DTCB10305D	95
DSRCM63303P	146	DTCB10150B	94	DTCB10306B	95
DSRCM63303PN	146	DTCB10150C	94	DTCB10306C	95
DSRCM63303PA	146	DTCB10150D	94	DTCB10306D	95
DTAUXAL	179	DTCB10163B	94	DTCB10310B	95
DTAUXALG	179	DTCB10163C	94	DTCB10310C	95
DTC1611240D	185	DTCB10163D	94	DTCB10310D	95
DTC1620240D	185	DTCB10201C	94	DTCB10313B	95
DTC2002240D	185	DTCB10201D	94	DTCB10313C	95
DTC2011240D	185	DTCB10202C	94	DTCB10313D	95
DTC2020240D	185	DTCB10202D	94	DTCB10316B	95
DTC202024D	185	DTCB10204C	94	DTCB10316C	95
DTC2504240D	185	DTCB10204D	94	DTCB10316D	95
DTC254012D	185	DTCB10205C	94	DTCB10320B	95
DTC2540240D	185	DTCB10205D	94	DTCB10320C	95
DTC254024D	185	DTCB10206B	94	DTCB10320D	95
DTC4040240D	185	DTCB10206C	94	DTCB10325B	95
DTC404024D	185	DTCB10206D	94	DTCB10325C	95
DTC6340240D	185	DTCB10210B	94	DTCB10325D	95
DTC634024D	185	DTCB10210C	94	DTCB10332B	95
DTCB10101C	94	DTCB10210D	94	DTCB10332C	95
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DTCB10102C	94	DTCB10213C	94	DTCB10340B	95
DTCB10102D	94	DTCB10213D	94	DTCB10340C	95
DTCB10103C	94	DTCB10216B	94	DTCB10340D	95
DTCB10104C	94	DTCB10216C	94	DTCB10350B	95
DTCB10104D	94	DTCB10216D	94	DTCB10350C	95
DTCB10105C	94	DTCB10220B	94	DTCB10350D	95
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DTCB10106C	94	DTCB10225B	94	DTCB10363D	95
DTCB10106D	94	DTCB10225C	94	DTCB10401C	95
DTCB10110B	94	DTCB10225D	94	DTCB10402C	95
DTCB10110C	94	DTCB10232B	94	DTCB10406C	95
DTCB10110D	94	DTCB10232C	94	DTCB10406D	95
DTCB10113B	94	DTCB10232D	94	DTCB10410C	95
DTCB10113C	94	DTCB10240B	94	DTCB10410D	95
DTCB10113D	94	DTCB10240C	94	DTCB10413C	95
DTCB10116B	94	DTCB10240D	94	DTCB10416C	95
DTCB10116C	94	DTCB10250B	94	DTCB10416D	95
DTCB10116D	94	DTCB10250C	94	DTCB10420C	95
DTCB10120B	94	DTCB10250D	94	DTCB10420D	95
DTCB10120C	94	DTCB10263B	94	DTCB10425C	95
DTCB10120D	94	DTCB10263C	94	DTCB10425D	95
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DTCB10463C	95	DTCB15213C	109	DTCB6202C	64
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DTCB10H1100C	103	DTCB15225C	109	DTCB6204D	64
DTCB10H1100D	103	DTCB15232C	109	DTCB6206C	64
DTCB10H1125B	103	DTCB15240C	109	DTCB6206D	64
DTCB10H1125C	103	DTCB15250C	109	DTCB6210C	64
DTCB10H1125D	103	DTCB15263C	109	DTCB6210D	64
DTCB10H180B	103	DTCB15306C	110	DTCB6213C	64
DTCB10H180C	103	DTCB15310C	110	DTCB6213D	64
DTCB10H180D	103	DTCB15313C	110	DTCB6216C	64
DTCB10H2100B	103	DTCB15316C	110	DTCB6216D	64
DTCB10H2100C	103	DTCB15320C	110	DTCB6220C	64
DTCB10H2100D	103	DTCB15325C	110	DTCB6220D	64
DTCB10H2125B	103	DTCB15332C	110	DTCB6225C	64
DTCB10H2125C	103	DTCB15340C	110	DTCB6225D	64
DTCB10H2125D	103	DTCB15350C	110	DTCB6232C	64
DTCB10H280B	103	DTCB15363C	110	DTCB6232D	64
DTCB10H280C	103	DTCB15406C	110	DTCB6240C	64
DTCB10H280D	103	DTCB15410C	110	DTCB6240D	64
DTCB10H3100B	103	DTCB15413C	110	DTCB6250C	64
DTCB10H3100C	103	DTCB15416C	110	DTCB6250D	64
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DTCB10H3125C	103	DTCB15432C	110	DTCB6302C	64
DTCB10H3125D	103	DTCB15440C	110	DTCB6302D	64
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DTCB10H480C	103	DTCB6113C	64	DTCB6320C	64
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AUSTRALIA

nhp.com.au
 SALES 1300 NHP NHP
 sales@nhp.com.au

NEW ZEALAND

nhpnz.co.nz
 SALES 0800 NHP NHP
 sales@nhp-nz.com

NHP Electrical Engineering Products

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