

Din Modular Residual Current Protection

“New RCCB Design!”



TDURCCB & TDURCBO

Types AC and A

Instantaneous, Short Time Delay and Selective Options

OUR CUSTOMER CARE COMMITMENTS



Quality is Guaranteed

All products supplied from this Catalogue carry a guarantee against defects in materials and workmanship for a period of 12 months from date of purchase as standard.

Quality is Accredited

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Technical Support is Free

We offer free technical support and application software to all customers. This could range from selecting a product for an unusual application through to carrying out a protection study.

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Terasaki is a world class specialist in innovative circuit protection, control and system products for electrical energy distribution. We supply low-voltage circuit breakers for industrial, marine and commercial building projects.



DIN MODULAR RESIDUAL CURRENT PROTECTION

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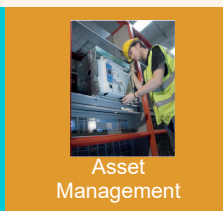
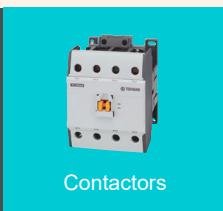
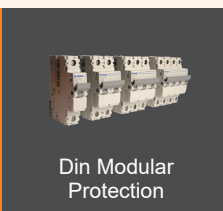
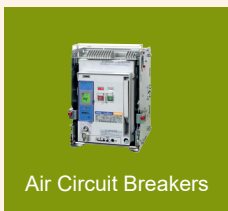
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Other Terasaki Products:



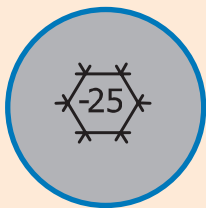


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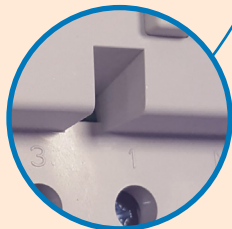
Features of residual circuit breakers TDURCCB



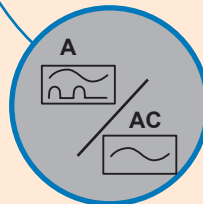
→ RCCB terminals accept cable or busbar connection



→ Low temperature limit



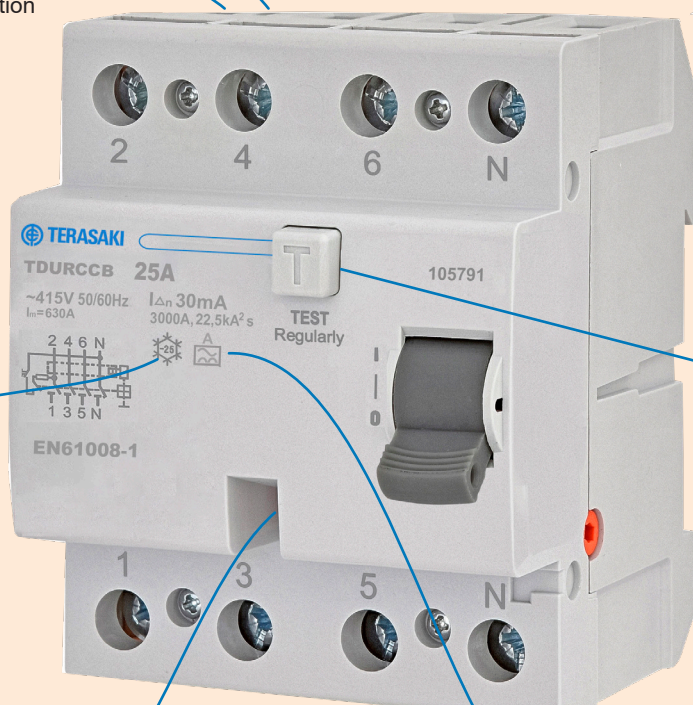
→ Real contact position indication for easy contact status identification



→ AC - pure sine residual current,
→ A - AC + pulsating direct current



→ Test button enables user to check residual functionality





i Introduction



Residual current circuit breakers can be used in TN-S, TN-C-S, TT and IT network systems for fault protection.

Residual current protective devices with a rated residual current of $I_{\Delta n} \leq 30\text{mA}$ fulfill the conditions for fault protection. For protection against fire, according to IEC 60364-4-482, all cables and conductors in TN and TT systems must be protected by means of residual current protective devices with rated residual current of $I_{\Delta n} \leq 300\text{mA}$.

Types:

- **AC Type:** they are sensitive to alternating (sinusoidal) AC residual currents.
- **A Type:** they are sensitive to alternating (sinusoidal) AC residual currents and pulsating DC residual currents.

Classification regarding breaking time:

- **Instantaneous:** max. break time 40ms.
- **Ai: Short Time Delay:** time delayed min. 10ms and max 40ms
- **S: Selective:** Time delayed min. 40ms and max. 150ms.

TDURCCB		Type AC	Type A		
		Inst.	Inst.	Ai	S
	For alternating residual current	✓	✓	✓	✓
	For alternating and pulsating direct residual current		✓	✓	✓
	Short-circuit capacity with back-up fuse	✓	✓	✓	✓
	Lower temperature limit of application - 25°C	✓	✓	✓	✓
	Short time delayed (10 - 40 ms)			✓	
	Selective time delayed (40 - 150 ms)				✓



i Use of AC and A Type RCCB's in different fault conditions

Connection	Normal mains current	Fault earth current	AC	A
1 Single phase 			✓	✓
2 Phase control 			✓	✓
3 Burst control 			✓	✓
4 Single phase rectifier 				✓
5 Two-pulse bridge 				✓
6 Two-pulse bridge, half controlled 				✓
7 Two-pulse bridge between phases 				✓



TDURCCB & TDURCBO Din Modular Residual Current Protection

1 Order Codes for TDURCCB - 2 Pole

Rated residual current
0.03 -0.3A

Rated current
25-100A

Type
A, AC, Ai, S



Profile 1



Profile 2



Profile 3

Description	Code		Refer to Profile
TDURCCB 50 and 60 Hz 2P 25A 30mA type AC	4547560	105548	1
TDURCCB 50 and 60 Hz 2P 40A 30mA type AC	4547560	105555	1
TDURCCB 50 and 60 Hz 2P 63A 30mA type AC	4547560	105562	1
TDURCCB 50 and 60 Hz 2P 25A 300mA type AC	4547560	105579	1
TDURCCB 50 and 60 Hz 2P 40A 300mA type AC	4547560	105586	1
TDURCCB 50 and 60 Hz 2P 63A 300mA type AC	4547560	105593	1
TDURCCB 50 and 60 Hz 2P 25A 100mA type AC	4547560	105906	1
TDURCCB 50 and 60 Hz 2P 40A 100mA type AC	4547560	105609	1
TDURCCB 50 and 60 Hz 2P 63A 100mA type AC	4547560	105616	1
TDURCCB 50 and 60 Hz 2P 100A 100mA type AC	4547560	108488	3
TDURCCB 50 and 60 Hz 2P 25A 30mA type A	4547560	105623	1
TDURCCB 50 and 60 Hz 2P 40A 30mA type A	4547560	105630	1
TDURCCB 50 and 60 Hz 2P 63A 30mA type A	4547560	105647	1
TDURCCB 50 and 60 Hz 2P 25A 30mA type Ai	4547560	108365	2
TDURCCB 50 and 60 Hz 2P 40A 30mA type Ai	4547560	108372	2
TDURCCB 50 and 60 Hz 2P 63A 30mA type Ai	4547560	108389	2
TDURCCB 50 and 60 Hz 2P 40A 300mA type S	4547560	108396	2
TDURCCB 50 and 60 Hz 2P 63A 300mA type S	4547560	108402	2
Auxiliary Switch for TDURCCB 1NO + 1NC	4547560	108112	-



TDURCCB & TDURCBO Din Modular Residual Current Protection

2 Order Codes for TDURCCB - 4 Pole

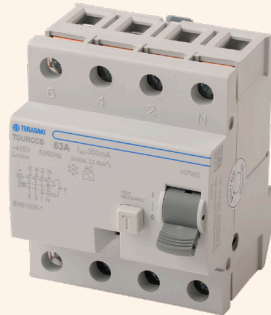
Rated residual current
0.03 -0.3A

Rated current
25-100A

Type
A, AC, Ai, S



Profile 1



Profile 2



Profile 3

Description	Code		Refer to Profile
TDURCCB 50 and 60Hz 4P 25A 30mA type AC	4547560	105708	1
TDURCCB 50 and 60Hz 4P 40A 30mA type AC	4547560	105715	1
TDURCCB 50 and 60Hz 4P 63A 30mA type AC	4547560	105722	1
TDURCCB 50 and 60Hz 4P 80A 30mA type AC	4547560	107931	2
TDURCCB 50 and 60Hz 4P 100A 30mA type AC	4547560	107948	3
TDURCCB 50 and 60Hz 4P 25A 100mA type AC	4547560	105760	1
TDURCCB 50 and 60Hz 4P 40A 100mA type AC	4547560	105777	1
TDURCCB 50 and 60Hz 4P 63A 100mA type AC	4547560	105784	1
TDURCCB 50 and 60Hz 4P 100A 100mA type AC	4547560	108037	3
TDURCCB 50 and 60Hz 4P 25A 300mA type AC	4547560	105739	1
TDURCCB 50 and 60Hz 4P 40A 300mA type AC	4547560	105746	1
TDURCCB 50 and 60Hz 4P 63A 300mA type AC	4547560	105753	1
TDURCCB 50 and 60Hz 4P 80A 300mA type AC	4547560	108006	2
TDURCCB 50 and 60Hz 4P 100A 300mA type AC	4547560	108013	3
TDURCCB 50 and 60Hz 4P 25A 30mA type A	4547560	105791	1
TDURCCB 50 and 60Hz 4P 40A 30mA type A	4547560	105807	1
TDURCCB 50 and 60Hz 4P 63A 30mA type A	4547560	105814	1
TDURCCB 50 and 60Hz 4P 100A 30mA type A	4547560	108099	3
TDURCCB 50 and 60Hz 4P 25A 300mA type A	4547560	105821	1
TDURCCB 50 and 60Hz 4P 40A 300mA Type A	4547560	105838	1
TDURCCB 50 and 60Hz 4P 63A 300mA type A	4547560	105845	1
TDURCCB 50 and 60Hz 4P 100A 300mA type A	4547560	108105	3
TDURCCB 50 and 60Hz 4P 40A 300mA type S	4547560	108334	2
TDURCCB 50 and 60Hz 4P 40A 30mA type Ai	4547560	108341	2
TDURCCB 50 and 60Hz 4P 40A 300mA type Ai	4547560	108358	2
Auxiliary Switch for TDU RCCB 1NO + 1NC	4547560	108112	-



TDURCCB & TDURCBO Din Modular Residual Current Protection

3 Order Codes for TDURCBO

TDURCBO is a residual current circuit breaker combining the features of a miniature circuit breaker and a residual current circuit breaker and is functionally independent on line voltage.

Rated short-circuit capacity
10kA

Rated current
6-40A

Tripping characteristic
B,C

Rated residual current
0.03 - 0.3A

Type
AC, A



2 Module - 10kA RCBO

Description	In (A)	I _{Δn}	Type	Code			
				B Characteristic		C Characteristic	
TDURCBO 50 and 60Hz 1P+N 10kA	6	30mA	AC	4547560	106705	4547560	108129
TDURCBO 50 and 60Hz 1P+N 10kA	10	30mA	AC	4547560	106712	4547560	108136
TDURCBO 50 and 60Hz 1P+N 10kA	13	30mA	AC	4547560	106729		
TDURCBO 50 and 60Hz 1P+N 10kA	16	30mA	AC	4547560	106736	4547560	108143
TDURCBO 50 and 60Hz 1P+N 10kA	20	30mA	AC	4547560	106743	4547560	108150
TDURCBO 50 and 60Hz 1P+N 10kA	25	30mA	AC	4547560	106750	4547560	108167
TDURCBO 50 and 60Hz 1P+N 10kA	32	30mA	AC	4547560	106767	4547560	108174
TDURCBO 50 and 60Hz 1P+N 10kA	40	30mA	AC	4547560	106774	4547560	108181
TDURCBO 50 and 60Hz 1P+N 10kA	6	300mA	AC	4547560	106781	4547560	108198
TDURCBO 50 and 60Hz 1P+N 10kA	10	300mA	AC	4547560	106798	4547560	108204
TDURCBO 50 and 60Hz 1P+N 10kA	13	300mA	AC	4547560	106804		
TDURCBO 50 and 60Hz 1P+N 10kA	16	300mA	AC	4547560	106811	4547560	108211
TDURCBO 50 and 60Hz 1P+N 10kA	20	300mA	AC	4547560	106828	4547560	108228
TDURCBO 50 and 60Hz 1P+N 10kA	25	300mA	AC	4547560	106835	4547560	108235
TDURCBO 50 and 60Hz 1P+N 10kA	32	300mA	AC	4547560	106842	4547560	108242
TDURCBO 50 and 60Hz 1P+N 10kA	40	300mA	AC	4547560	106859	4547560	108259
TDURCBO 50 and 60Hz 1P+N 10kA	6	30mA	A	4547560	106866		
TDURCBO 50 and 60Hz 1P+N 10kA	10	30mA	A	4547560	106873		
TDURCBO 50 and 60Hz 1P+N 10kA	13	30mA	A	4547560	106880		
TDURCBO 50 and 60Hz 1P+N 10kA	16	30mA	A	4547560	106897	4547560	108280
TDURCBO 50 and 60Hz 1P+N 10kA	20	30mA	A	4547560	106903	4547560	108297
TDURCBO 50 and 60Hz 1P+N 10kA	25	30mA	A	4547560	106910	4547560	108303
TDURCBO 50 and 60Hz 1P+N 10kA	32	30mA	A	4547560	106927	4547560	108310
TDURCBO 50 and 60Hz 1P+N 10kA	40	30mA	A	4547560	106934	4547560	108327



i

Technical Data - TDURCCB 2 Pole

In (A)	Instantaneous	Ai type	S type
Electrical			
Rated voltage U_n	230 / 240 V AC		240V AC
Rated current I_n	25, 40, 63, 100	25, 40, 63A	25, 40, 63A
Rated frequency f_n	50/60Hz		50/60Hz
Rated Insulation voltage U_i	440V		440V
Peak withstand current	400A (8/20 μ s) -	3kA (8/20ms) surge current proof	5kA (8/20ms) surge current proof
Electrical isolation	> 4mm contact space		> 4mm contact space
Rated residual operating current $I_{\Delta n}$	0.03; 0.1 & 0.3A	0.03 & 0.3A	0.3A
Rated conditional short-circuit current I_{cn}	10kA		10kA
Rated making and breaking capacity I_m	800A		630A
Maximum back-up fuse	80A gG 100 gG	100A gG	100A gG
Isolation class	B		B
Standard	IEC/EN 61008		IEC/EN 61008, OVE E 8601
Mechanical endurance (op. c.)	> 10000 > 2000	> 4000	> 4000
Electrical endurance (op. c.)	> 4000 > 4000	> 2000	> 2000
Mechanical			
Frame size	45mm		45mm
Device height	68mm (DIN rail acc to EN60715)		68mm (DIN rail acc to EN60715)
Device width	36mm (2 x Module units 18mm)		36mm (2 x Module units 18mm)
Degree of protection	IP20		IP20
Upper and lower terminals	open mounted/lift terminals		open mounted/lift terminals
Terminal capacity	1-25mm ² (100A 1-35mm ²)		1-25mm ²
Terminal screw	M5 (Pozidrive PZ2)		M5 (Pozidrive PZ2)
Terminal torque	3Nm 2-2.5Nm	3Nm	3Nm
Busbar thickness	0.8 - 2 mm		0.8 - 2 mm
Operating temperature	-25°C ... +55°C		-25°C ... +55°C
Storage and transport temperature	-40°C ... +70°C		-40°C ... +70°C
Resistance to climatic conditions	IEC/EN 61008		IEC/EN 61008
Contact position indicator	mechanical red/green		mechanical red/green
Supply possibility	Top or bottom		Top or bottom
Mounting position	any		any
Profile type	1 3	2	2

TDURCCB Power dissipation 2P P/pole (W)		
In (A)	Instantaneous	Ai & S type
25	1.22-1.27	1.29-1.43
40	3.48-3.72	2.80 - 3.05
63	2.14-2.58	4.28 - 5.34

Conductor cross-section [mm ²]	Conductor cross section rigid, single wire CU conductor				
	1	2	3	4	5
1.5	✓	✓	✓	✓	✗
2.5	✓	✓	✓	✗	✗
4	✓	✓	✓	✗	✗
6	✓	✓	✗	✗	✗
10	✓	✓	✗	✗	✗
16	✓	✗	✗	✗	✗
25	✓	✗	✗	✗	✗

Note: When you use more than 2 cables you have to be careful how those cables are inserted, to ensure proper pressure on each cable

Conductor cross-section [mm ²]	Number of single conductors, flexible Cu conductors without cable ferrule					
	1	2	3	4	5	6
1.5	✓	✓	✓	✓	✓	✓
2.5	✓	✓	✓	✓	✓	✓
4	✓	✓	✓	✓	✓	✓
6	✓	✓	✓	✗	✗	✗
10	✓	✓	✗	✗	✗	✗
16	✓	✗	✗	✗	✗	✗
25	✓	✗	✗	✗	✗	✗

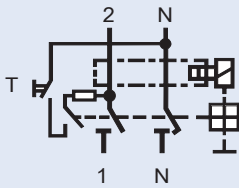
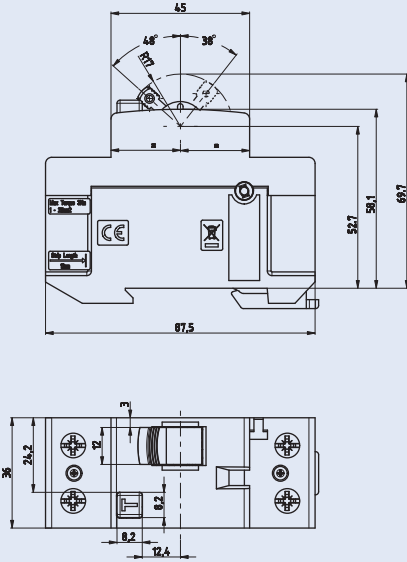
Note: Combination of rigid single-wire and flexible multi-wire Cu conductors is not allowed.



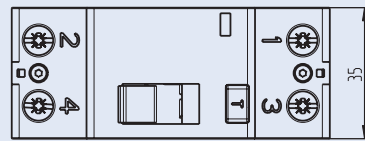
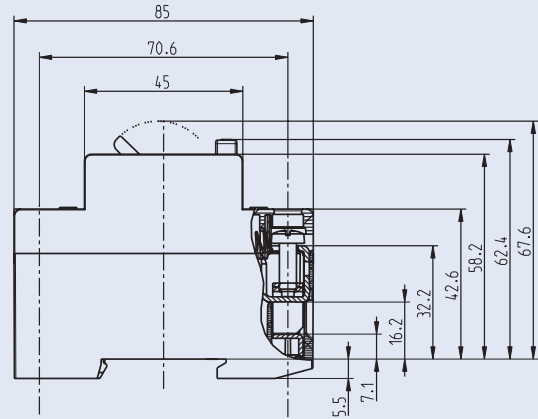
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Dimensions - TDURCCB 2 Pole

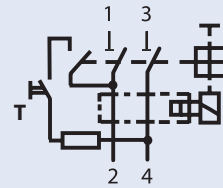
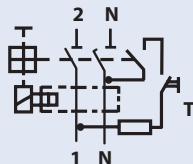
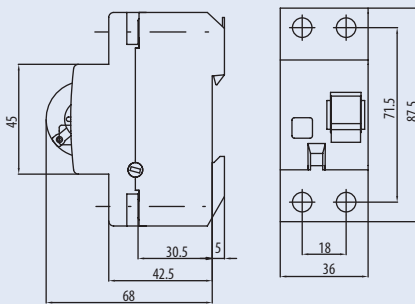
Profile 1



Profile 3



Profile 2





TDURCCB & TDURCBO Din Modular Residual Current Protection

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Technical Data - TDURCCB 4 Pole

In (A)	Instantaneous			Ai type	S type
Electrical					
Rated voltage U_N	230 / 240 V AC			415V AC	415V AC
Rated current I_N	25, 40, 63	80	100	40	40
Rated frequency f_N	50/60Hz			50/60Hz	50/60Hz
Rated Insulation voltage U_i	440V			440V	440V
Peak withstand current	400A (8/20 μ s)		-	3kA (8/20ms) surge current proof	5kA (8/20ms) surge current proof
Electrical isolation	> 4mm contact space			> 4mm contact space	> 4mm contact space
Rated residual operating current $I_{\Delta N}$	0.03; 0.1 & 0.3A			0.03 & 0.3A	0.3A
Rated conditional short-circuit current I_{cn}	10kA			10kA	10kA
Rated making and breaking capacity I_m	630A (63A)	800A		800A	630A
Maximum back-up fuse	63A gG (63A)	80A gG	100A gG	100A gG	100A gG
Isolation class	B			B	B
Standard	IEC/EN 61008			IEC/EN 61008, OVE E 8601	IEC/EN 61008
Mechanical endurance (op. c.)	> 10000			> 4000	> 4000
Electrical endurance (op. c.)	> 4000			> 2000	> 2000
Mechanical					
Frame size	45mm			45mm	45mm
Device height	68mm (DIN rail acc to EN60715)			68mm (DIN rail acc to EN60715)	68mm (DIN rail acc to EN60715)
Device width	72mm (4 x Module units 18mm)			72mm (4 x Module units 18mm)	72mm (4 x Module units 18mm)
Degree of protection	IP20			IP20	IP20
Upper and lower terminals	open mounted/lift terminals			open mounted/lift terminals	open mounted/lift terminals
Terminal capacity	1-25mm ²			1-25mm ²	1-25mm ²
Terminal screw	M5 (Pozidrive PZ2)			M5 (Pozidrive PZ2)	M5 (Pozidrive PZ2)
Terminal torque	3Nm	2-2.5Nm		3Nm	3Nm
Busbar thickness	0.8 - 2 mm			0.8 - 2 mm	0.8 - 2 mm
Operating temperature	-25°C ... +55°C			-25°C ... +55°C	-25°C ... +55°C
Storage and transport temperature	-40°C ... +70°C			-40°C ... +70°C	-40°C ... +70°C
Resistance to climatic conditions	IEC/EN 61008			IEC/EN 61008	IEC/EN 61008
Contact position indicator	mechanical red/green			mechanical red/green	mechanical red/green
Supply possibility	Top or bottom			Top or bottom	Top or bottom
Mounting position	any			any	any
Profile type	1	2	3	2	2

TDURCCB Power dissipation 4P P/pole (W)		
In (A)	Instantaneous	Ai & S type
25	1.27-1.52	1.40-1.61
40	4.14-5.00	2.73 - 4.11
63	2.45-3.00	4.76 - 5.69

Conductor cross-section [mm ²]	Conductor cross section rigid, single wire CU conductor				
	1	2	3	4	5
1.5	✓	✓	✓	✓	✗
2.5	✓	✓	✓	✗	✗
4	✓	✓	✓	✗	✗
6	✓	✓	✗	✗	✗
10	✓	✓	✗	✗	✗
16	✓	✗	✗	✗	✗
25	✓	✗	✗	✗	✗

Note: When you use more than 2 cables you have to be careful how those cables are inserted, to ensure proper pressure on each cable

Conductor cross-section [mm ²]	Number of single conductors, flexible Cu conductors without cable ferrule					
	1	2	3	4	5	6
1.5	✓	✓	✓	✓	✓	✓
2.5	✓	✓	✓	✓	✓	✓
4	✓	✓	✓	✓	✓	✓
6	✓	✓	✓	✗	✗	✗
10	✓	✓	✗	✗	✗	✗
16	✓	✗	✗	✗	✗	✗
25	✓	✗	✗	✗	✗	✗

Note: Combination of rigid single-wire and flexible multi-wire Cu conductors is not allowed.

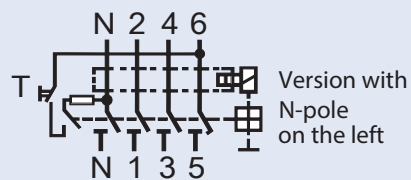
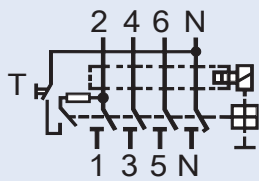
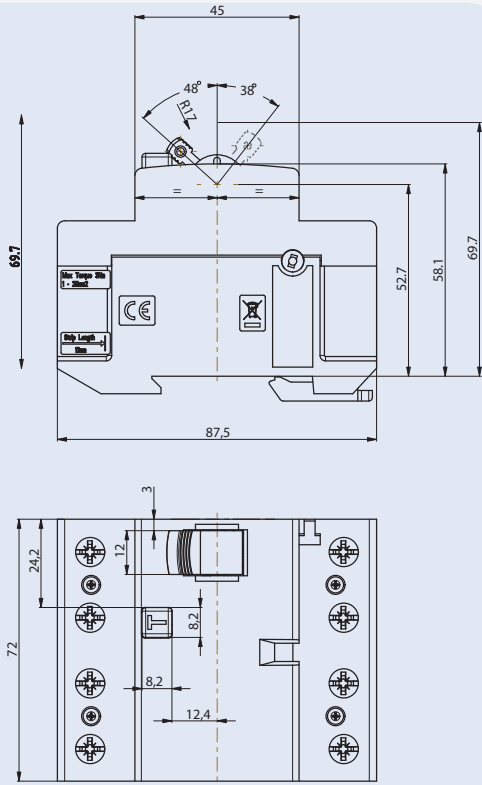


TDURCCB & TDURCBO Din Modular Residual Current Protection

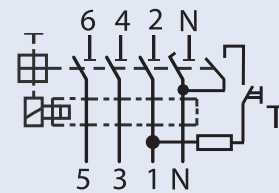
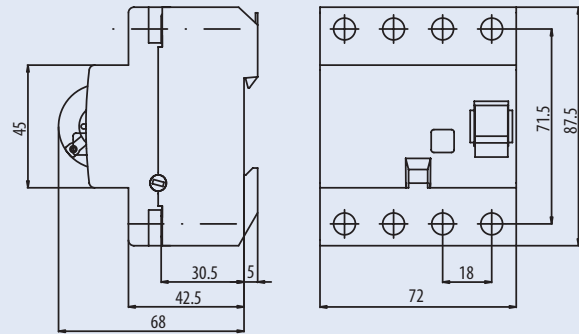
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Dimensions - TDURCCB 4 Pole

Profile 1



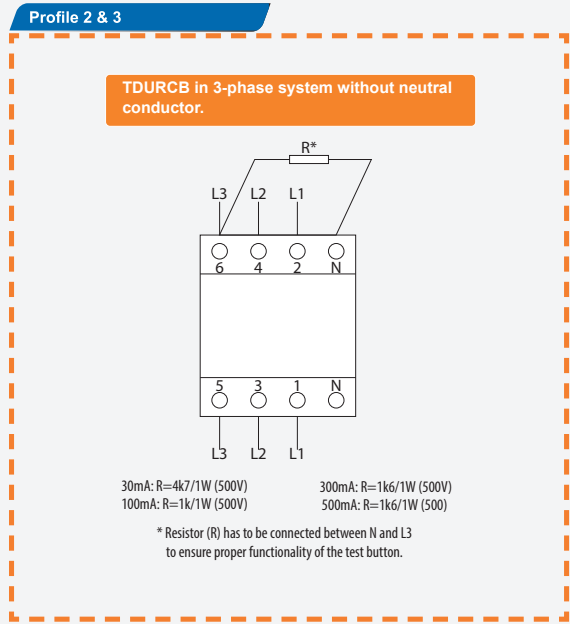
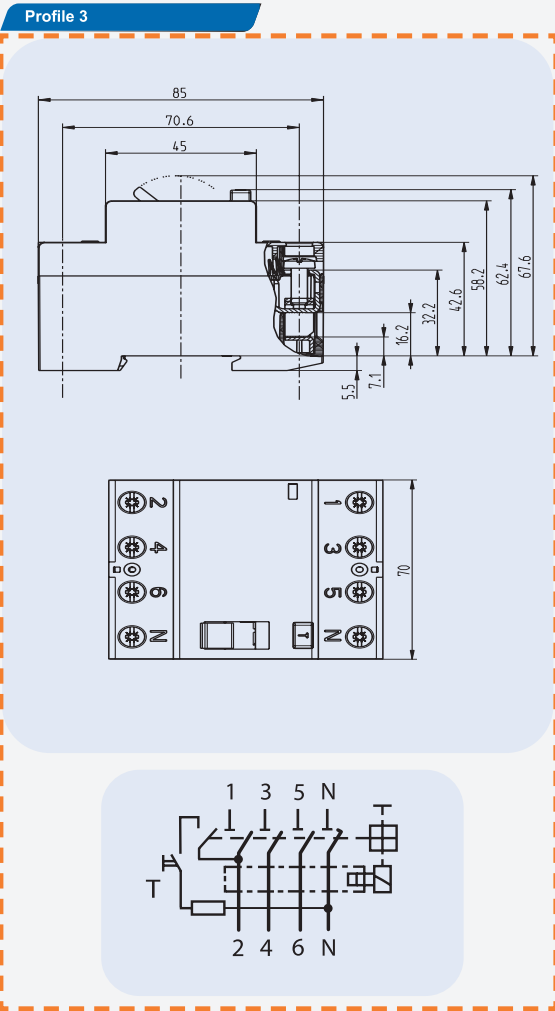
Profile 2





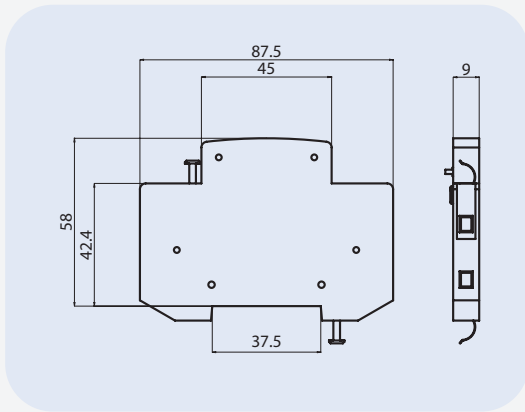
TDURCCB & TDURCBO Din Modular Residual Current Protection

i Dimensions - TDURCCB 4 Pole



i Auxiliary Switch - TDURCCB

Technical data	
Rated current I_n	6 A (230 V AC), AC 12,
Rated current I_n	1 A (110 V DC), DC 12
Conditional short-circuit current	1 kA with fuse-link 20 A
Mounting position	any
Standards	EN 62019





Technical Data - TDURCBO

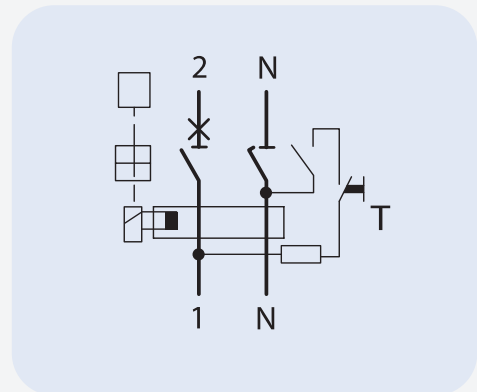
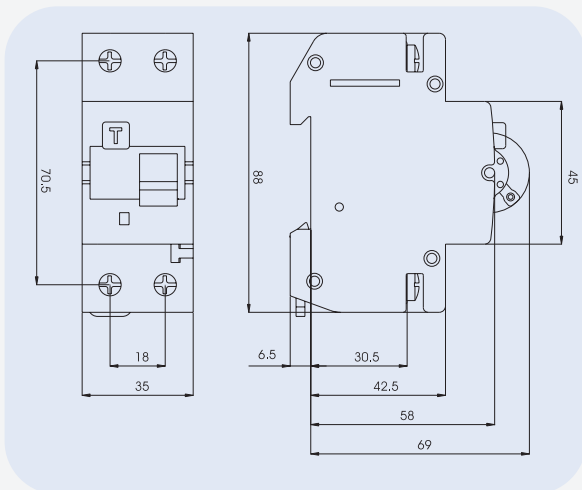
Technical data	
Rated voltage U_n	230 V AC
Rated current I_n	6-40 A
Rated frequency f_n	50/60Hz
Rated short-circuit capacity	10,000 A
Back-up fuse	100 A gG
Tripping characteristic	B, C
Type	A, AC
Rated residual current $I_{\Delta n}$	30, 300 mA
Peak withstand current	250 A
Rated residual making and breaking capacity $I_{\Delta m}$	10,000A
Terminals	1-25 mm ² , max. 3Nm
Terminal Screws	M5 (Pozidrive PZ2)
Width	36 mm
Mounting position	5g (10,60 & 500Hz)
Resistance to vibrations acc. to IEC 60068-2-7	any
Standard	IEC 61009, EN 61009

Conductor cross-section [mm ²]	Number of single conductors, flexible Cu conductors without cable ferrule					
	1	2	3	4	5	6
1.5	✓	✓	✓	✓	✓	✓
2.5	✓	✓	✓	✓	✓	✓
4	✓	✓	✓	✓	✓	✓
6	✓	✓	✓	x	x	x
10	✓	✓	x	x	x	x
16	✓	x	x	x	x	x
25	✓	x	x	x	x	x

Note: Combination of rigid single-wire and flexible multi-wire Cu conductors is not allowed.

Conductor cross-section [mm ²]	Conductor cross section rigid, single wire CU conductor				
	1	2	3	4	5
1.5	✓	✓	✓	✓	x
2.5	✓	✓	✓	x	x
4	✓	✓	✓	x	x
6	✓	✓	x	x	x
10	✓	✓	x	x	x
16	✓	x	x	x	x
25	✓	x	x	x	x

Note: When you use more than 2 cables you have to be careful how those cables are inserted, to ensure proper pressure on each cable





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Ratings and specifications are subject to change without notice.