Product Data Sheet

Type: RCCB 25A to 63A and 80 and 100A

Reference: **TD3RCCB**

Summary:

Product Data sheet RCCB

TYPE: RCCB 25A to 63A 2P and 4P

RCCB 80-100A 2P and 4P

REFERENCES: TD3RCCB

1 Description

The residual current circuit breakers (RCCB) have only one function: detection of earth leakage current. There is no thermal and magnetic protection, therefore an RCCB must be protected by an upstream MCB. This protection is normally given in the local contractor rules.

RCCB up to 100A

2 Global RCD Range description

- **RCCB 16-63A**
- **RCCB 80-100A**
- **RCBO 2mod**
- **RCBO 1mod BS**
- **AOB 63A**

2.1 General specification for RCCB

- The range is based on Terasaki product range TD3.

We will have following ranges:

10mA AC	25A	2P
30mA AC	from 25 to 100A	2P & 4P
300mA AC	from 25 to 100A	2P & 4P
300mA AC-S	from 40 to 100A	2P & 4P
30mA A	from 25 to 100A	2P & 4P
300mA A	from 25 to 100A	2P & 4P

2.2 Manufacturing date on the shoulder:

17 (2 first numbers)= week of production

10 (2 last numbers)= year (2010)

2.3 Packaging label

A specific white label printed with TERASAKI logo (6U0328) and information:

- Black letters on white label

2.4 Packaging

RCCB will be single packed. Overpackaging is a brown box.

3 Technical characteristics

Mechanical characteristics

Technology: in line voltage-independent tripping ELM (electro-magnetic)

IP rating: IP2X

Enclosure material: thermoplastic (Polyamide)

Glow wire test (IEC 60965): for external parts: 960°C; for all other parts: 650°C

Service life

Off-load Endurance

Endurance off- load : 4000 cycles

On-load Endurance

On-load endurance is based on cause of operation :

	Idm>10mA
Manual switching by toggle	1000 cycles
Test button operations	500 cycles
Fault current operations	500 cycles

Electrical characteristics

Range: 2 pole (2x17.5mm) and 4 pole (4x17.5mm) products

Rated current In: 25A, 40A and 63A

Rated current In: 80A and 100A

Rated fault current : 10mA, 30mA, 300mA & 300mA S

Rated Frequency: 50 Hz

Type: AC & A class

Rated voltage Un

	Two pole	Four pole	
Voltage (V_{AC})	Ph/N	Ph/N	Ph/Ph
Min.	110 V	110 V	220 V
Max	220 V	220 V	380 V

Test button :

	Two pole	Four pole	
Voltage (V_{AC})	Ph/N	Ph/N	Ph/Ph
Min.	90 V	90 V	153 V
Max	253 V	253 V	438 V

Rated residual making and breaking capacity I∆m: 630A

Rated making and breaking capacity Im: 630A

Peak withstands current: Lightning: Wave 8/20 µs,

A and AC type: 250A

Rated impulse withstand current: Wave 1.2/50 µs, 6000A

Insulation voltage : 2P 500V ; 4P 900V

Dielectric: 2500V

Power loss at In in W:

		25A	40A	63A
2P	30mA	2.5	6.3	8.4
	300mA	1	2.6	6.4
4P	30mA	4.6	11.8	17.5
	300mA	2	5	12.5

3.1 Environment :

Ambient temperature: -25°C to + 40°C

Storage temperature: -55°C to + 70°C

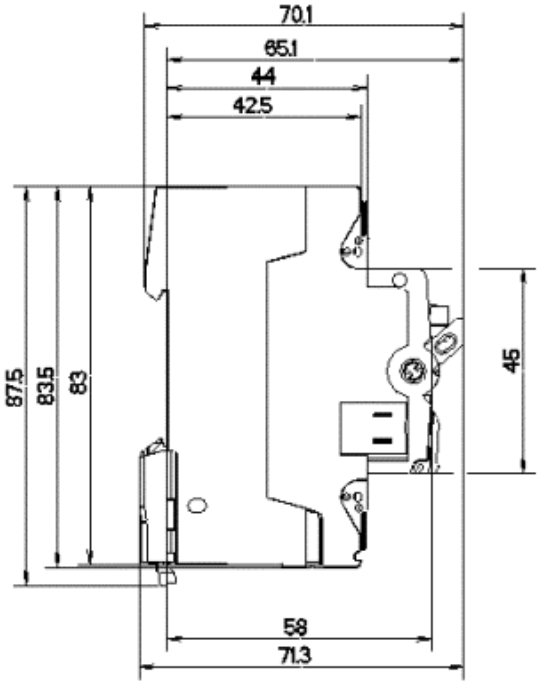
Installation altitude: 2000 meters max

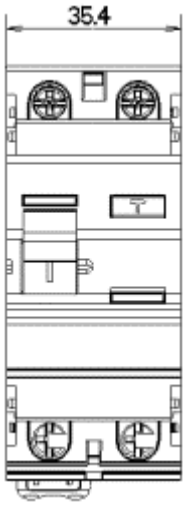
Working position: Performances not affected if installed vertically, horizontally or flat

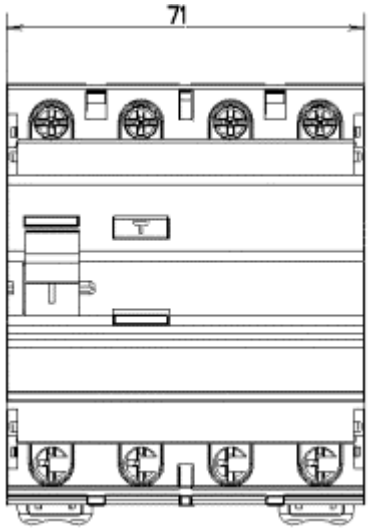
Tropicalisation: All climates* (*Not compatible with salted and chlorinated environment)

4 Dimensions, weight and packaging

No. of pole	2	4
Weight (g)	186	318
Quantity per pack	1	1







5 Approvals, Standards and specifications

 Marking on the products

5.1 Certificates

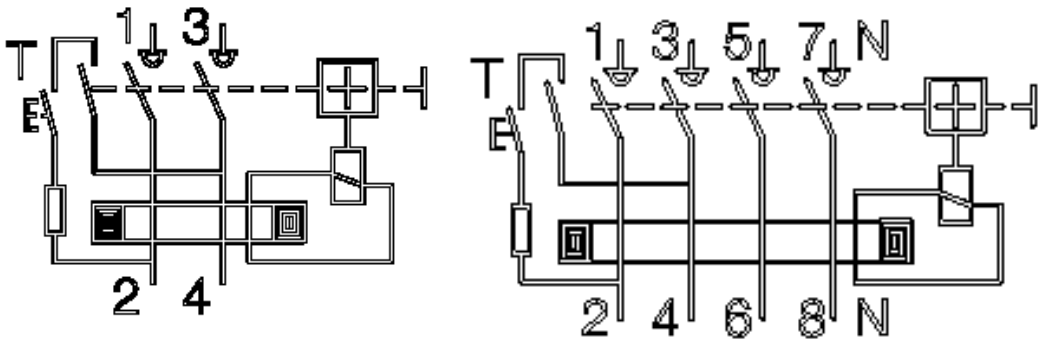
Terasaki can provide identity and conformity declarations (Test Reports and Certificates)

5.2 Product conformity

Our RCCBs are approved IEC/EN 61008-1

6 Installation

Diagramm connection



Tightening torque:	Recommended terminal torque
	On the Top terminals: 2.8 Nm
	Bi-connect terminals: 2.8 Nm
Terminal depth:	On the top terminals: 13.5mm
	On the bottom terminals: 13.5mm
Terminal capacity:	Flexible with ferrule cable: 16mm²
	Rigid cable: 25mm²
Tunnel terminal :	Screw head pozidrive size 2 and slot 6 mm

Mounting: Din rail EN 50.022-35

Supply: feed either top or bottom

Type of cable: only copper cables are suitable (no Aluminium cable)

7 Front marking

Laser marking, text written in English -25 to 63A

Tampoprint, text written in English - 80&100A - no marking on shoulder

8 General information:

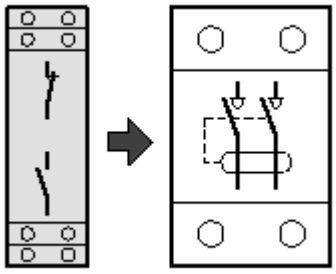
- Flag indicator for the Earth Fault tripping :Yellow
- Packaging labels in English
- User instruction sheet in English

Options : Auxiliaries :

- 103889 Interface auxiliary : indicates the position of the associated RCCB on, off, tripped.
- Also acts as RCCB interface with standard MCB auxiliaries.
- 103834 Shunt trip 230-400V ac 110-130V dc
- 103841 Shunt trip 24-48V ac 12-48V dc
- 103858 Under voltage release 230V ac

The auxiliaries have to be mounted on the left of product without any tools.

The use of UVT and Shunt on RCCBs requires the use of interface auxiliary 103889



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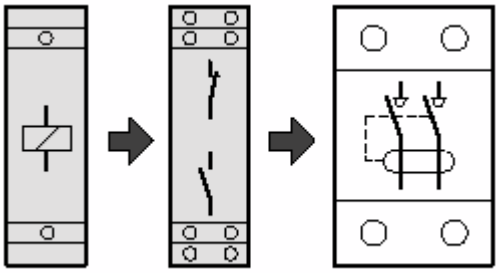

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RCCB 2 & 4 ▮	gI			230/400 V - 6 kA			230/400 V - 10 kA		
	25 A	40 A	63 A	25 A	40 A	63 A	25 A	40 A	63 A
16 A	10 kA	10 kA	6 kA	6 kA	6 kA	6 kA	10 kA	10 kA	9 kA
25 A	10 kA	10 kA	6 kA	6 kA	6 kA	6 kA	10 kA	10 kA	9 kA
40 A		10 kA	6 kA		6 kA	6 kA		10 kA	9 kA
63 A			6 kA			6 kA			9 kA