



# PROTEK

## RCDs Two, Four Module and Time Delayed



T25-30-2

T40-30-2

T63-30-2

100-200-4H

100-30-4TD

Part Number	Description	Current	Trip	Modules
<b>RCD 10mA Two Modules</b>				
T25-10-2	RCD 25A 10mA 2 Pole 2 Mod	25	10mA	2
T40-10-2	RCD 40A 10mA 2 Pole 2 Mod	40	10mA	2
T63-10-2	RCD 63A 10mA 2 Pole 2 Mod	63	10mA	2
<b>RCD 30mA Two Modules</b>				
T25-30-2	RCD 25A 30mA 2 Pole 2 Mod	25	30mA	2
T40-30-2	RCD 40A 30mA 2 Pole 2 Mod	40	30mA	2
T63-30-2	RCD 63A 30mA 2 Pole 2 Mod	63	30mA	2
T80-30-2	RCD 80A 30mA 2 Pole 2 Mod	80	30mA	2
T100-30-2	RCD 100A 30mA 2 Pole 2 Mod	100	30mA	2
<b>RCD 100mA Two Modules</b>				
T25-100-2	RCD 25A 100mA 2 Pole 2 Mod	25	100mA	2
T40-100-2	RCD 40A 100mA 2 Pole 2 Mod	40	100mA	2
T63-100-2	RCD 63A 100mA 2 Pole 2 Mod	63	100mA	2
T80-100-2	RCD 80A 100mA 2 Pole 2 Mod	80	100mA	2
T100-100-2	RCD 100A 100mA 2 Pole 2 Mod	100	100mA	2
<b>RCD 300mA Two Modules</b>				
T25-300-2	RCD 25A 300mA 2 Pole 2 Mod	25	300mA	2
T40-300-2	RCD 40A 300mA 2 Pole 2 Mod	40	300mA	2
T63-300-2	RCD 63A 300mA 2 Pole 2 Mod	63	300mA	2
T80-300-2	RCD 80A 300mA 2 Pole 2 Mod	80	300mA	2
T100-300-2	RCD 100A 300mA 2 Pole 2 Mod	100	300mA	2
<b>RCD 500mA Two Modules</b>				
T25-500-2	RCD 25A 500mA 2 Pole 2 Mod	25	500mA	2
T40-500-2	RCD 40A 500mA 2 Pole 2 Mod	40	500mA	2
T63-500-2	RCD 63A 500mA 2 Pole 2 Mod	63	500mA	2
T80-500-2	RCD 80A 500mA 2 Pole 2 Mod	80	500mA	2
T100-500-2	RCD 100A 500mA 2 Pole 2 Mod	100	500mA	2



## RCDs Two, Four Module and Time Delayed

Part Number	Description	Current	Trip	Modules
<b>RCD 30mA Four Modules</b>				
25-30-4	RCD 25A 30mA 4 Pole 4 Mod	25	30mA	4
40-30-4	RCD 40A 30mA 4 Pole 4 Mod	40	30mA	4
63-30-4	RCD 63A 30mA 4 Pole 4 Mod	63	30mA	4
80-30-4	RCD 80A 30mA 4 Pole 4 Mod	80	30mA	4
100-30-4	RCD 100A 30mA 4 Pole 4 Mod	100	30mA	4
<b>RCD 100mA Four Modules</b>				
25-100-4	RCD 25A 100mA 4 Pole 4 Mod	25	100mA	4
40-100-4	RCD 40A 100mA 4 Pole 4 Mod	40	100mA	4
63-100-4	RCD 63A 100mA 4 Pole 4 Mod	63	100mA	4
80-100-4	RCD 80A 100mA 4 Pole 4 Mod	80	100mA	4
100-100-4	RCD 100A 100mA 4 Pole 4 Mod	100	100mA	4
<b>RCD 300mA Four Modules</b>				
25-300-4	RCD 25A 300mA 4 Pole 4 Mod	25	300mA	4
40-300-4	RCD 40A 300mA 4 Pole 4 Mod	40	300mA	4
63-300-4	RCD 63A 300mA 4 Pole 4 Mod	63	300mA	4
80-300-4	RCD 80A 300mA 4 Pole 4 Mod	80	300mA	4
100-300-4	RCD 100A 300mA 4 Pole 4 Mod	100	300mA	4
<b>RCD 500mA Four Modules</b>				
25-500-4	RCD 25A 500mA 4 Pole 4 Mod	25	500mA	4
40-500-4	RCD 40A 500mA 4 Pole 4 Mod	40	500mA	4
63-500-4	RCD 63A 500mA 4 Pole 4 Mod	63	500mA	4
80-500-4	RCD 80A 500mA 4 Pole 4 Mod	80	500mA	4
100-500-4	RCD 100A 500mA 4 Pole 4 Mod	100	500mA	4
<b>100A Time Delay RCD Two Modules</b>				
T100-30-2TD	Time Delay 100A 30mA RCD	100	30mA	2
T100-100-2TD	Time Delay 100A 100mA RCD	100	100mA	2
T100-300-2TD	Time Delay 100A 300mA RCD	100	300mA	2
T100-500-2TD	Time Delay 100A 500mA RCD	100	500mA	2
<b>RCD Time Delay Four Modules</b>				
100-30-4TD	100A 30mA 4 Pole TD RCD	100	30mA	4
100-100-4TD	100A 100mA 4 Pole TD RCD	100	100mA	4
100-300-4TD	100A 300mA 4 Pole TD RCD	100	300mA	4
100-500-4TD	100A 500mA 4 Pole TD RCD	100	500mA	4



## RCDs Two, Four Module and Time Delayed

### 110v RCDs

Part Number	Description	Current	Trip	Modules
<b>RCD 30mA 110v Two Modules</b>				
T25-30-2/110	RCD 25A 30mA 2Pole 2 Mod 110v	25	30mA	2
T40-30-2/110V	RCD 40A 30mA 2 Pole 2 Mod 110V	40	30mA	2
T63-30-2/110V	RCD 63A 30mA 2 Pole 2 Mod 110V	63	30mA	2
T80-30-2/110V	RCD 80A 30mA 2 Pole 2 Mod 110V	80	30mA	2
T100-30-2/110V	RCD 100A 30mA 2 Pole 2 Mod 110 V	100	30mA	2
<b>RCD 100mA 110v Two Modules</b>				
T25-100-2/110	RCD 25A 100mA 2Pole 2 Mod 110v	25	100mA	2
T40-100-2/110V	RCD 40A 100mA 2 Pole 2 Mod 110V	40	100mA	2
T63-100-2/110V	RCD 63A 100mA 2 Pole 2 Mod 110V	63	100mA	2
T80-100-2/110V	RCD 100A 100mA 2 Pole 2 Mod 110V	80	100mA	2
T100-100-2/110V	RCD 100A 100mA 2 Pole 2 Mod 110 V	100	100mA	2
<b>RCD 300mA 110v Two Modules</b>				
T25-300-2/110	RCD 25A 300mA 2Pole 2 Mod 110v	25	300mA	2
T40-300-2/110V	RCD 40A 300mA 2 Pole 2 Mod 110V	40	300mA	2
T63-300-2/110V	RCD 63A 300mA 2 Pole 2 Mod 110V	63	300mA	2
T80-300-2/110V	RCD 80A 300mA 2 Pole 2 Mod 110V	80	300mA	2
T100-300-2/110V	RCD 100A 300mA 2 Pole 2 Mod 110 V	100	300mA	2
<b>RCD 500mA 110v Two Modules</b>				
T25-500-2/110	RCD 25A 500mA 2Pole 2 Mod 110v	25	500mA	2
T40-500-2/110V	RCD 40A 500mA 2 Pole 2 Mod 110V	40	500mA	2
T63-500-2/110V	RCD 63A 500mA 2 Pole 2 Mod 110V	63	500mA	2
T80-500-2/110V	RCD 80A 500mA 2 Pole 2 Mod 110V	80	500mA	2
T100-500-2/110V	RCD 100A 500mA 2 Pole 2 Mod 110 V	100	500mA	2

### Technical

Protek's RCDs are Type AC

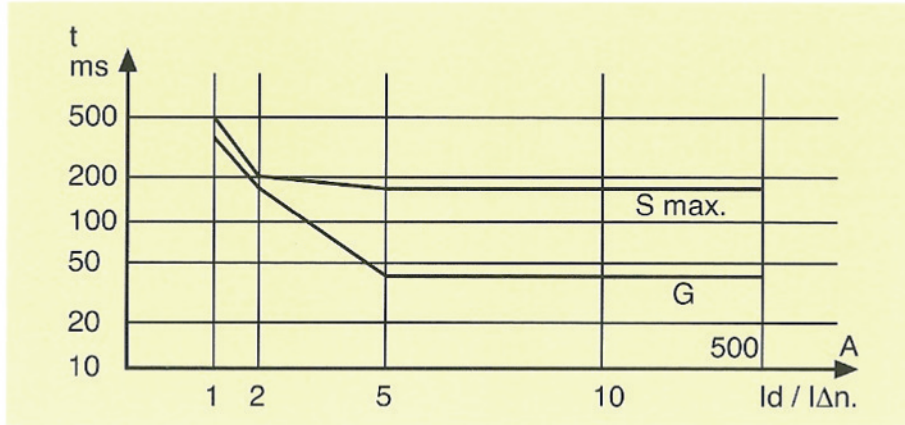
Protek's RCDs conform to BSEN 61008

Tripping is ensured for residual sinusoidal current alternating currents whether the fault is suddenly applied or is a slow rising fault.

To offer this degree of protection the RCD element of the device must have a sensitivity of 30mA or less and must trip out with a sinusoidal current of 150mA in less than 40mS.



Tripping curves for General (G) non-delayed RCDs and Selective (S) commonly known as Time Delayed RCDs



Standardised values of operating time

Type	I <sub>n</sub> A	I $\Delta$ n A	Standardised values of operating time and non-operating time (in seconds) at:-				
			I $\Delta$ n	2I $\Delta$ n	5I $\Delta$ n	500A	
General	All values	All values	0.3	0.15	0.04	0.04	Maximum operating time
Selective	>25	>0.030	0.5	0.2	0.15	0.15	Minimum operating time
			0.13	0.06	0.05	0.04	Maximum operating time

### Why do we use RCDs

RCDs are designed to prevent electrocution by detecting the leakage current, which can be far smaller (typically 5 - 30 milliamperes) than the currents needed to operate conventional circuit breakers or fuses (several amperes). RCDs are intended to operate within 25-40 milliseconds, before electric shock can drive the heart into ventricular fibrillation, the most common cause of death through electric shock.

RCDs operate by measuring the current balance between two conductors using a differential current transformer. This measures the difference between the current flowing out the live conductor and that returning through the neutral conductor. If these do not sum to zero, there is a leakage of current to somewhere else (to earth/ground, or to another circuit), and the device will open its contacts.

**Residual current detection is complementary to over-current detection. Residual current detection cannot provide protection for overload or short-circuit currents.**

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