

Residual Current Devices – selection chart



OVERVIEW	DIN-SAFE						MOD6						
RCD	Ties of the law in Kurgery Ti	Mark States Tree States Tree States State	Din-Safe MCB C20 TEST 10 kA 7rjp Ian 7900A 1102269 504tz	Din-Safe C20 0 AA TEST C20 0 AA TO TO AMOV SORT OFFICE OFFI OFFI OFFI OFFI OFFI OFFI OFFI OFF	DIN-T C20 10kA 30mA 4004150- lom Bias Soreone Lam Bias So	Din-Safe 63A 300MA, TRIP 230V/50Hz 1230V/50Hz DSRCD263300S RCDAPPOVILHER ROTAN MUSE OR PARE MACRIE MACRIE SPAN MORE OF SPAN COTAGO COTAGO	N L OUT Made in Hungary TEST CAG 6KA 22004 122 2200 142	TEST C16 6kA SOWN 220V SWITZB GENERAL SOWN A	CONT SALES ON SALES O	TEST MODE RC80-2-20-30 ON C 20 6kA OFF MOD6	1/2 3/4 5/6 N 1/2 3/4 5/6 N 1/2 3/4 5/6 N 1/2 4/3 6/5 N 2/1 4/3 6/5	MODE C20 GKA TEST MORE B72030A ASIN25 610091 L1	MODERCCB-4-25-30 ADA NO TEST ON OPP MODE NO NO NO NO NO NO NO NO NO N
	DSRCBS	DSRCBH	DSRCB	DSRCBxxxxAI	DSRCBT	DSRCD	M6RCBS	M6RCBD	M6RCBO1	M6RCBO2	M6RCBF	M6RCBT	MOD6RCCB
Standard (AS/NZS)	61009	61009	61009	61009	61009	61008	61009	61009	61009	61009	61009	61009	61008
No. poles and module width	1P + N - 18 mm	1P + N - 18 mm	2P - 36 mm	2P - 36 mm	3P + N- 54mm	2P - 36 mm 4P - 72 mm	1P + N - 18 mm	1P + N - 18 mm	1P + N - 18 mm	2P - 36 mm	3P + N - 72 mm	3P + N - 54 mm	2P - 36 mm 4P - 72 mm
Mounting	Chassis / DIN rail	Chassis / DIN rail	Chassis / DIN rail	Chassis / DIN rail	Chassis/ DIN rail	DIN rail	Chassis / DIN rail	DIN rail	Chassis / DIN rail	Chassis / DIN rail	DIN rail	Chassis / DIN rail	DIN rail
Current ratings	6A / 10A / 16A / 20A / 25A / 32A	6A / 10A / 16A / 20A / 25A / 32A / 40A	6A / 10A / 16A / 20A / 25A / 32A / 40A	6A / 10A / 16A / 20A / 25A / 32A / 40A	6A / 10A / 16A / 20A / 25A / 32A / 40A/ 50A / 63A	40A / 63A / 80A	6A / 10A / 16A / 20A / 25A / 32A	6A / 10A / 16A / 20A / 25A / 32A	10A / 16A / 20A / 25A / 32A	10A / 16A / 20A / 25A / 32A / 40A	6A / 10A / 16A / 20A / 25A / 32A	6A / 10A / 16A / 20A / 25A / 32A / 40A / 50A / 63A	40A / 63A
Trip sensitivity	10 mA / 30 mA	10 mA / 30 mA / 100 mA	10 mA / 30 mA / 100 mA	30 mA	30 mA / 100 mA / 300 mA	30 mA / 100mA / 300mA	10 mA / 30 mA	10 mA / 30 mA	30 mA	10 mA / 30 mA	30mA	30mA	30 mA
Neutral	Switched	Unswitched	Switched	Switched with overcurrent protection	Unswitched	Switched	Switched	Switched	Unswitched	Switched	Switched	Unswitched	Switched
Line side	Bottom	Bottom	Top or bottom	Top or bottom	Bottom	Top or bottom	Bottom	Top or bottom	Bottom	Top or bottom	Top or bottom	Bottom	Top or bottom
Sensitivity type	А	А	А	AI	А	A, AI, S, F & B	А	А	А	А	А	А	А
Short circuit rating	6 kA/ 10kA ¹⁾	6 kA / 10 kA	10 kA	6 kA	10kA	Inc -10 kA MCB or fuse backup	6 kA	6 kA	6 kA	6 kA	6 kA	6 kA	Inc -10 kA MCB or fuse backup
Curve types	B and C	C and D	С	С	С	_	С	С	С	С	С	С	_
Rated AC voltage 1P/2,3,4P	230 / 240 V	230 / 240 V	230 / 240 V ²⁾	230 / 240 V	400 / 415 V	2P 230 / 240 V 4P 400 / 415 V	230 / 240 V	230 / 240 V	230 / 240 V	230 / 240 V	400 / 415 V	400 / 415 V	2P 230 / 240 V 4P 400 / 415 V
Sealable in ON-Off position	No	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	No
Terminal size - on-top	16 mm²	25 mm ²	25 mm ²	25 mm²	25 mm ²	50 mm ²	16 mm²	16 mm²	25 mm ²	25 mm²	25 mm ²	25 mm ²	50 mm ²
Terminal size - OFF - bottom	35 mm²	35 mm²	35 mm ²	35 mm²	25 mm ²	50 mm²	25 mm²	16 mm²	35 mm²	25 mm²	25 mm²	25 mm²	50 mm ²
Notes: 1) 10kA only available up to 20A in C curve. 2) DSRCBxx30A units are suitable for 110/240 V.													

Frequently asked questions

Q: I have a 20A RCBO running at 6A but the unit still trips?

A: When selecting an RCBO, the earth leakage current of the end devices needs to be considered, not just the load current. Typically an RCD device should be designed to run at not more than 1/3 of its rating e.g: 30mA devices normally run at 10mA or less.

Device	Typical leakage current			
Computer	1.5 mA			
Fluorescent light	0.5 mA			
Printer	0.8 mA			

Approximate values only, as leakage will vary from device to device, brand to brand.

Q: What is the tripping time for general type 30mA RCDs as per standards AS/NZS 61009 and AS/NZS61008?

A: As per the table below:

Test leakage current	Tripping times		
I∆n 30 mA	≤300 ms		
I∆n 60 mA	≤150 ms		
IΔn 150 mA	≤40 ms		

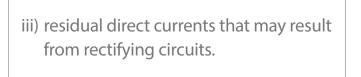
Q: What RCD type?

Тур	2	Description	Use
AC		Type AC RCDs are designed to operate when residual sinusoidal alternating currents are detected.	These type of RCDs are ideal for circuits containing AC operated equipment – general purpose applications.
A	\sim	Type A RCDs are designed to operate on both residual sinusoidal alternating current and residual pulsating direct currents.	This type of RCD is ideal for general purpose applications as well as recitified loads such as switch mode power supplies, power tools and motor speed controllers.
F	1	Type F as per type A and in addition are capable of detecting composite residual currents.	Single phase invertors, such as washing machines, dishwashers with a built in drives

В	
В	

-	e B RCDs ensure tripping as cribed for Type F RCDs as well as:	This type of RCD is specifically for		
-	residual sinusoidal alternating currents up to 1000Hz.	applications such as s inverters, data centres and even electric vehi		
(residual alternating currents or pulsating direct currents superimposed on a smooth direct	recharging.		
(current current of 0.4 times the rated			

Use



Description

residual current.

