

Residual current circuit breakers (RCCBs)



Description

- Automatically trips in event of earth leakage fault
- Provides protection against direct & indirect contact with live parts

Technical data

- IS 12640-1, IEC 61008
- **ISI marking**
- CE marking
- Ratings - 16A, 25A, 40A, 63A, 100A
- No. of poles - 2P & 4P
- Sensitivity - 10mA, 30mA, 100mA & 300mA
- Trip class - class AC

Features & benefits

- Positive contact indicator on front face
- Earth fault indicator on front face
- Bi-connect terminals with pull-up design
- Finger proof (IP2X) terminal with safety shutters
- Protection against nuisance tripping due to switching transients
- **CE & RoHS compliant, "Green" product**
- Wide range of accessories are available

Connection

- 25-63A: 25sq.mm rigid
16sq.mm flexible
- 100A: 50sq.mm rigid
35sq.mm flexible

Sensitivity IDn	Rating In	Modules	Catalogue No.
-----------------	-----------	---------	---------------

Double Pole (1P + N)



CD240Y

10mA	16A	2	CC216Y
	25A	2	CC225Y
30mA	25A	2	CD225Y
	40A	2	CD240Y
	63A	2	CD263Y
	100A	2	CD284Y
100mA	25A	2	CE225Y
	40A	2	CE240Y
	63A	2	CE263Y
	100A	2	CE284Y
300mA	25A	2	CF225Y
	40A	2	CF240Y
	63A	2	CF263Y

Four Pole



CD440Y

30mA	25A	4	CD425Y
	40A	4	CD440Y
	63A	4	CD463Y
	100A	4	CD484Y
100mA	25A	4	CE425Y
	40A	4	CE440Y
	63A	4	CE463Y
	100A	4	CE484Y
300mA	25A	4	CF425Y
	40A	4	CF440Y
	63A	4	CF463Y
	100A	4	CF484Y

Residual current circuit breakers (RCCBs) - type Hi (high immunity)



Description

- Automatically trips in event of earth leakage fault
- Provides protection against direct & indirect contact with live parts
- Suitable for electrically disturbed networks with pulsated DC, transients & harmonics
- Avoids “nuisance tripping” & “blinding”

Technical data

- Conforms to IEC 61008
- Ratings - 25A, 40A, 63A
- No. of poles - 2P & 4P
- Sensitivities - 30mA & 300mA
- Trip Class - class Hi

Features & benefits

- Positive contact indicator on front face
- Earth fault indicator on front face
- Bi-connect terminals with pull-up design
- Finger proof (IP2X) terminal with safety shutters
- Protection against nuisance tripping due to switching transients & harmonics
- Avoids “blinding” due to pulsated DC currents
- **RoHS compliant, “Green” product**
- Wide range of accessories are available

Connection

- 25sq.mm rigid
- 16sq.mm flexible

Sensitivity IDn	Rating In	Modules	Catalogue No.
-----------------	-----------	---------	---------------



CH225J

Double Pole (1P + N)

30mA	25A	2	CH225J
	40A	2	CH240J
	63A	2	CH263J
300mA	25A	2	CQ225J
	40A	2	CQ240J
	63A	2	CQ263J



CQ440J

Four pole

30mA	25A	2	CH425J
	40A	2	CH440J
	63A	2	CH463J
300mA	25A	2	CQ425J
	40A	2	CQ440J
	63A	2	CQ463J

Technical Specifications

Standards	IEC 61008-1, IS 12640 (Part 1)
Rated Current In	25, 40, 63 & 100A
No. of poles	2P & 4P
Sensitivity	10, 30, 100 & 300mA
Class	Class AC & Class Hi (high immunity)
Rated Voltage	230V (2P) 415V (4P)
Rated Frequency	50Hz
Rated Residual Making & Breaking Capacity $I_{\Delta m}$	1500A
Rated Making & Breaking Capacity $I_{\Delta m}$	1500A
Short Circuit Withstand: with fuse back up	10kA for 25, 40A; 6kA for 63A
with MCB 10kA back up	10kA for 25, 40A; 9kA for 63A
Rated Impulse Withstand Current 1.2/50 μ s	6000A
Electrical Endurance at pf = 0.9	10000 operations
Rated Insulation Voltage U_i	500V (2P), 900V (4P)
Dielectric Voltage	2500V
Degree of Protection	IP2X
Contact Flag Indication	Red for ON, Green for OFF
Fault Indication	Yellow flag indication
Ambient Temperature	-25 to +40°C
Storage Temperature	-55 to +70°C
Mounting Position	Horizontally, vertically or flat
Bus Bars	KDNxxx

Residual current circuit breaker with over current protection (RCBO)

RCBO gives combined protection against earth leakages as well as against overloads and short circuits.

Technical Specifications

Standards	IEC 61009-1, EN 61009-1
Rated Current In	6,10,16,20,25,32 & 40 A
No. of Poles	2P
Sensitivity	30, 100 & 300mA
Class	Class AC & Class Hi (high immunity)
Tripping curve	C curve (5 - 10 in)
Energy Limiting Class	3
Rated Voltage	240V AC
Rated Frequency	50Hz
Rated Residual Making and Breaking Capacity $I_{\Delta m}$	6000A
Electrical Endurance at pf = 0.9	10000
Rated Insulation Voltage U_i	500V
Dielectric Voltage	2500V
Degree of protection	IP2X
Fault Indication	Yellow flag indication
Ambient Temperature	-25°C to + 30°C
Storage Temperature	-55°C to + 70°C
Mounting Position	Horizontally, Vertically or Flat
Busbars	KDNxxx