

Product Information

Type : RCCB 2 and 4 poles
Reference : CD / CDS / CDJ / CF / CFJ / CDC



General Characteristics

The residual current circuit breakers (RCCB) has 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 installateur rules.

Standards and specifications: EN 61008-1 and IEC 61008-1

Range

Two pole (2x17.5mm) and four pole (4x17.5mm)

Rated current I_n

16A, 25A, 40A, 63A

Rated fault current

30mA/300mA/300mA[S]/500mA

Type

AC Class

Rated voltage U_n

Two pole 230V ~ Four pole 230/400V ~

Rated Frequency

60Hz, neutral on the left or right

Breaking capacity:

Rated conditional short-circuit current (I_{nc})	6kA according to EN 61008-1
Rated conditional residual short-circuit current (I_{Δc})	4.5kA according to EN 61008-1

Test button

	Two pole	Four pole
Min.	127 V	230V
Max	253V	440V

Rated residual making and breaking capacity I_{Δm}
 1500A

Rated making and breaking capacity I_m
 1500A

Peak withstand current

Lightning : Wave 8/20 μs
 A and AC type : 250A
 A[S] type : 3000A
 HI : 5000A

Rated impulse withstand current

Wave 1.2/50 μs
 6000A

Tripping time

In <300ms which is the standard.

Mechanical characteristics(service life)

Electrical endurance in number of cycles	1000 cycles on load with I_n x cosj 0.9 (each operating cycle consisting of a closing operation followed by an opening operation). 500 cycles by test button / 500 cycles by fault current
Mechanical endurance in number of operations	2000 cycles

Insulation voltage

2P 500V~
 4P 900V~

Dielectric

2500V~

Power loss at In in W

		16A	25A	40A	63A
2P	30mA	1	2.5	6.3	8.4
	300mA and [S]		1	2.6	6.4
	500mA		1	2.6	6.4
4P	30mA		4.6	11.8	17.5
	300mA and [S]		2	5	12.5
	500mA		2	5	12.5

Tightening torque

Recommended terminal torque

On the Top terminals: 2.8 Nm

Bi-connect terminals : 2.8 Nm

Maximum terminal torque :

On the Top terminals: 3.45 Nm

Bi-connect terminals : 3.45 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

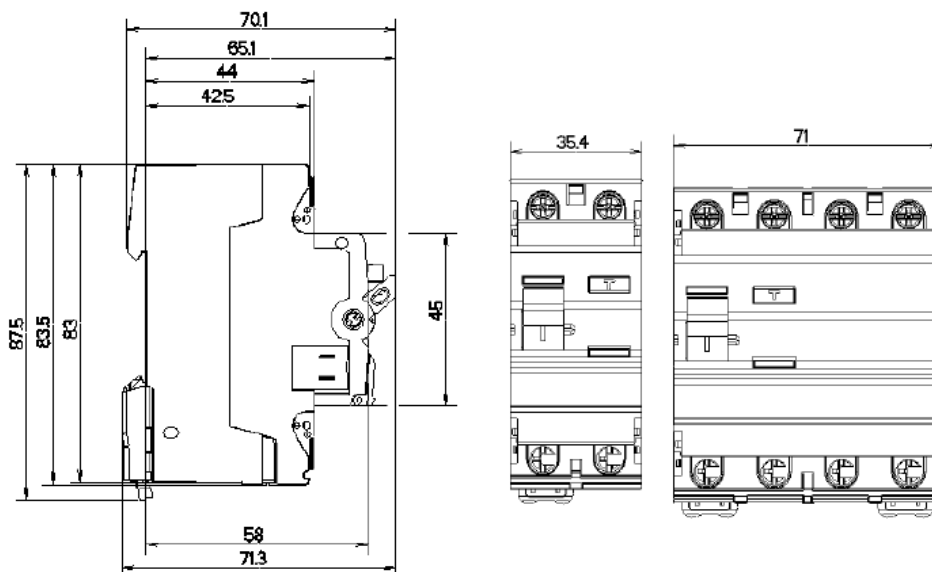
Test of resistance to fire IEC 60965

For externals parts: 960°C

For all others parts: 650°C

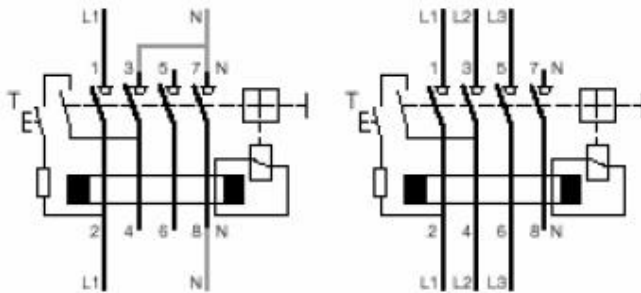
Dimensions, weight and packaging

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



Installation

Diagram connection



Type of cable :

Copper

No Usable with Aluminium cable

Sealable :

The locking kit (MZN 175) allows locking of the device toggle in the “off” position.
The locking kit is sealable. .

Flag indicator :

for the contact position : Red / Green

for the Earth Fault tripping : Yellow

Temperature :

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*

*No compatible salt works and chlorinated environment

Standards

Approval

