

# Protect Earth leakage protection iC60 RCBO Contents

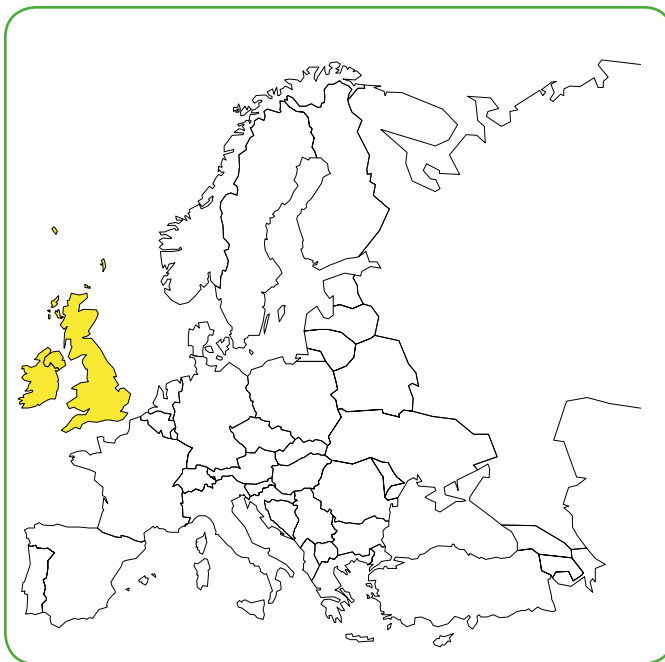


Schneider Electric's range of RCBO consists of different products (A, B) to enable it to be the most competitive range possible in each country, allowing for the special characteristics of each market:

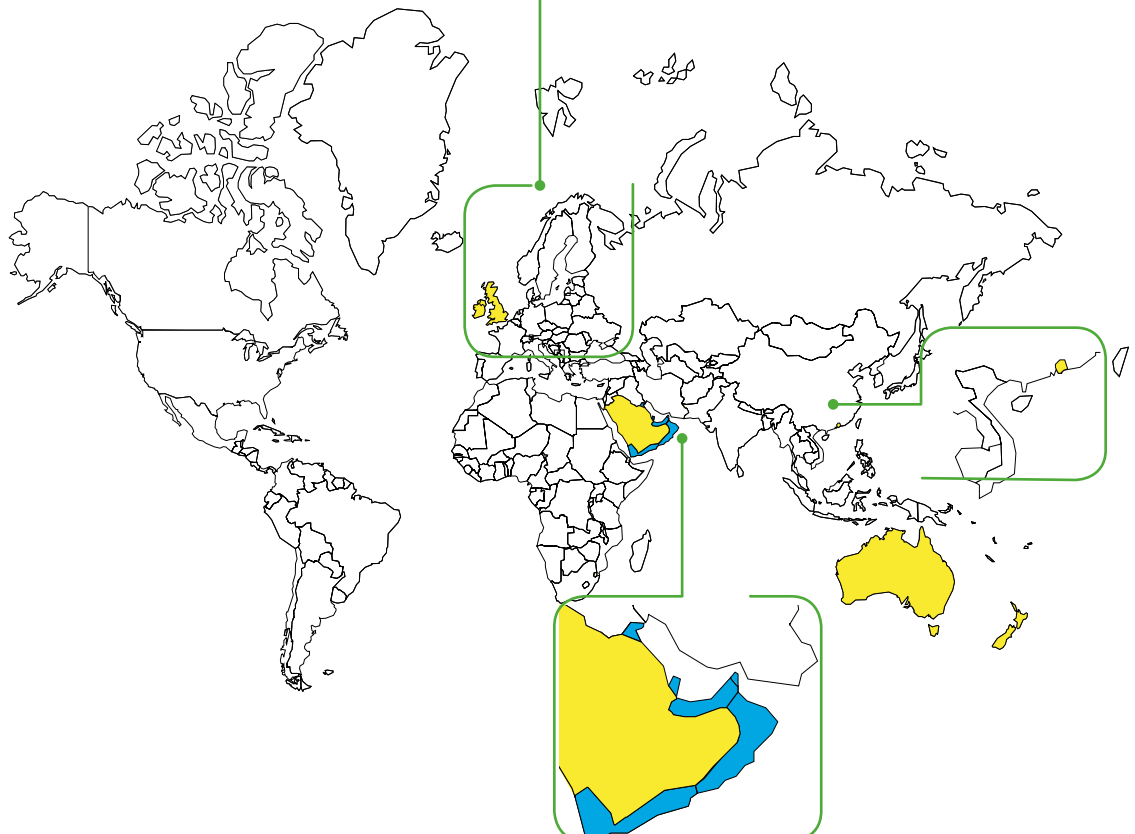
- usual installation procedure
- price
- accreditations by local bodies.

## Variants

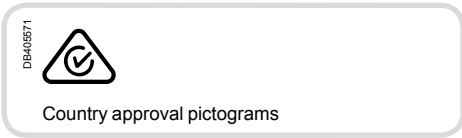
Offers		Pages
Offer A	Catalogue numbers	2
Offer B	Catalogue numbers	5
Common pages		7



Only the product range to be marketed in your country and validated by the local product manager, in agreement with his Final Distribution (FD) partner should be retained. The others will be removed before publication.



# Protect Earth leakage protection iC60N RCBO 6000 A / 30 mA



**IEC 61009-1,  
IEC 61009-2-2,  
AS/NZS 61009.1**



- The single-phase iC60N RCBO's self-contained residual current device carries out complete protection of final circuits:
  - protection against short-circuits and cable overloads,
  - protection against electrocution by direct contact.
- The neutral is not interrupted when the device is tripped. Hence iC60N RCBO can be used on most circuits, except for the ones operating under TT or IT earthing systems.

Alternating current (AC) 50/60 Hz	
Breaking capacity (Icn) according to IEC 61009-1	
Ph/N	Voltage (Ue)
Rating (In)	6 to 45 A
	6000 A

### Accessory

#### Padlocking device

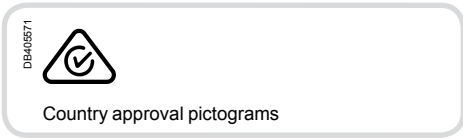
- Used to lock the toggle in the "open" or "closed" position by 4 mm diameter padlock (not supplied).

## Catalogue numbers

iC60N RCBO 6000				
1P+N	A		Width in 9-mm modules	
	<b>C curve</b> Voltage rating (V) 240	Sensitivity (IΔn) Rating (In)	30 mA	
			6 A	A9D61806
			10 A	A9D61810
			16 A	A9D61816
			20 A	A9D61820
			25 A	A9D61825
			32 A	A9D61832
			40 A	A9D61840
	45 A	A9D61845		
Operating frequency			50...60 Hz	
Auxiliaries			Module CA907022	
Accessories			Module CA907021	



# Protect Earth leakage protection iC60H RCBO 10000 A / 10, 30 and 100 mA



IEC 61009-1,  
IEC 61009-2-2,  
BS EN 61009-1  
AS/NZS 61009.1



Offer selection see page 1

Offer A

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- The single-phase iC60H RCBO's self-contained residual current device carries out complete protection of final circuits:
  - protection against short-circuits and cable overloads
  - protection of persons against electric shock by direct contact (10, 30 mA sensitivities),
  - protection of persons against electric shock by indirect contact (100 mA sensitivity),
  - protection of equipment against fires set by leakage currents (100 mA sensitivity).
- The neutral is not interrupted when the device is tripped. Hence iC60H RCBO can be used on most circuits, except for the ones operating under TT or IT earthing systems.

Alternating current (AC) 50/60 Hz		
Breaking capacity (Icn) according to IEC 61009-1		
Ph/N Rating (In)	110 V	240 V
6 to 45 A	10000 A	10000 A

**Accessory**

**Padlocking device**

- Used to lock the toggle in the "open" or "closed" position by 4 mm diameter padlock (not supplied).

**Catalogue numbers**

iC60H RCBO 10000		A				Width in 9-mm modules
<b>1P+N</b>						
<b>B curve</b> 	<b>Voltage rating (V)</b> 240  <b>Rating (In)</b> 6 A 10 A 16 A 20 A 25 A 32 A 40 A 45 A	<b>Sensitivity (IΔn)</b> 10 mA 30 mA 100 mA	10 mA	30 mA	100 mA	2
			-	A9D31806	-	
			-	A9D31810	-	
			-	A9D31816	-	
			-	A9D31820	-	
			-	A9D31825	-	
			-	A9D31832	-	
			-	A9D31840	-	
<b>C curve</b> 	<b>Voltage rating (V)</b> 110  <b>Rating (In)</b> 10 A 16 A 20 A 25 A 32 A	<b>Sensitivity (IΔn)</b> 10 mA 30 mA 100 mA	-	A9D19810	-	2
			-	A9D19816	-	
			-	A9D19820	-	
			-	A9D19825	-	
			-	A9D19832	-	
			-	A9D19840	-	
	<b>Voltage rating (V)</b> 240  <b>Rating (In)</b> 6 A 10 A 16 A 20 A 25 A 32 A 40 A 45 A	<b>Sensitivity (IΔn)</b> 10 mA 30 mA 100 mA	A9D10806	A9D11806	A9D12806	
			A9D10810	A9D11810	A9D12810	
			A9D10816	A9D11816	A9D12816	
			A9D10820	A9D11820	A9D12820	
			A9D10825	A9D11825	A9D12825	
			A9D10832	A9D11832	A9D12832	
			A9D10840	A9D11840	A9D12840	
A9D10845	A9D11845	A9D12845				
Operating frequency		50...60 Hz				
Auxiliaries		Module CA907022				
Accessories		Module CA907021				

# Protect Earth leakage protection iC60H2 RCBO 10000 A / 30 and 300 mA



IEC 61009-1,  
IEC 61009-2-2,  
AS/NZS 61009.1

- The 2-poles iC60H2 RCBO's self-contained residual current device carries out
- complete protection of final circuits:
  - protection against short-circuits and cable overloads,
  - protection of persons against electric shock by direct contact (30 mA sensitivities),
  - protection of equipment against fires set by leakage currents (300 mA sensitivity).
- iC60H2 RCBO switches neutral, together with phase. It is therefore suitable for all circuits, whatever the earthing system (except for TN-C).

Alternating current (AC) 50/60 Hz		
Breaking capacity (Icn) according to IEC 61009-1		
Ph/N, Ph/Ph	Voltage (Ue)	
	110 V	240 V
Rating (In)	10 to 32 A	10000 A
		10000 A

### Accessory

#### Padlocking device

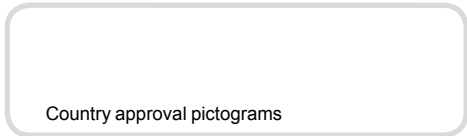
- Used to lock the toggle in the "open" or "closed" position by 4 mm diameter padlock (not supplied).

## Catalogue numbers

iC60H2 RCBO 10000			A		Width in 9-mm modules		
2P			30 mA	300 mA			
	110	Rating (In)	10 A	A9D19210	-		
			16 A	A9D19216	-		
			20 A	A9D19220	-		
			25 A	A9D19225	-		
			32 A	A9D19232	-		
			10 A	A9D11210	A9D51210		
	240	Rating (In)	16 A	A9D11216	A9D51216		
			20 A	A9D11220	A9D51220		
			25 A	A9D11225	A9D51225		
			32 A	A9D11232	A9D51232		
			Operating frequency		50...60 Hz		
			Auxiliaries		Module CA907022		
Accessories		Module CA907021					



# Protect Earth leakage protection iC60N RCBO 6000 A / 30 mA



IEC 61009-1,  
IEC 61009-2-2



- The single-phase iC60N RCBO's self-contained residual current device carries out complete protection of final circuits:
  - protection against short-circuits and cable overloads,
  - protection against electrocution by direct contact.
- The neutral is not interrupted when the device is tripped. Hence iC60N RCBO can be used on most circuits, except for the ones operating under TT or IT earthing systems.

Alternating current (AC) 50/60 Hz	
Breaking capacity (Icn) according to IEC 61009-1	
Ph/N	Voltage (Ue)
Rating (In) 6 to 45 A	240 V 6000 A

### Accessory

#### Padlocking device

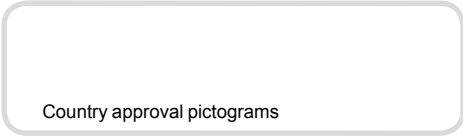
- Used to lock the toggle in the "open" or "closed" position by 4 mm diameter padlock (not supplied).

## Catalogue numbers

iC60N RCBO 6000						
1P+N	A		Width in 9-mm modules			
	<b>C curve</b> Voltage rating (V) 240	Sensitivity (Δn) 30 mA	Rating (In) 6 A 10 A 16 A 20 A 25 A 32 A 40 A 45 A	A9D64806 A9D64810 A9D64816 A9D64820 A9D64825 A9D64832 A9D64840 A9D64845	2	
				Operating frequency	50...60 Hz	
				Auxiliaries	Module CA907022	
				Accessories	Module CA907021	



# Protect Earth leakage protection iC60H RCBO 10000 A / 30 and 100 mA



IEC 61009-1,  
IEC 61009-2-2



- The single-phase iC60H RCBO's self-contained residual current device carries out complete protection of final circuits:
  - protection against short-circuits and cable overloads
  - protection of persons against electric shock by direct contact (30 mA sensitivities),
  - protection of persons against electric shock by indirect contact (100 mA sensitivity),
  - protection of equipment against fires set by leakage currents (100 mA sensitivity).
- The neutral is not interrupted when the device is tripped. Hence iC60H RCBO can be used on most circuits, except for the ones operating under TT or IT earthing systems.

Offer B

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Alternating current (AC) 50/60 Hz		
Breaking capacity (Icn) according to IEC 61009-1		
Ph/N	Voltage (Ue)	
Rating (In)	6 to 45 A	10000 A
	110 V	240 V
	10000 A	10000 A

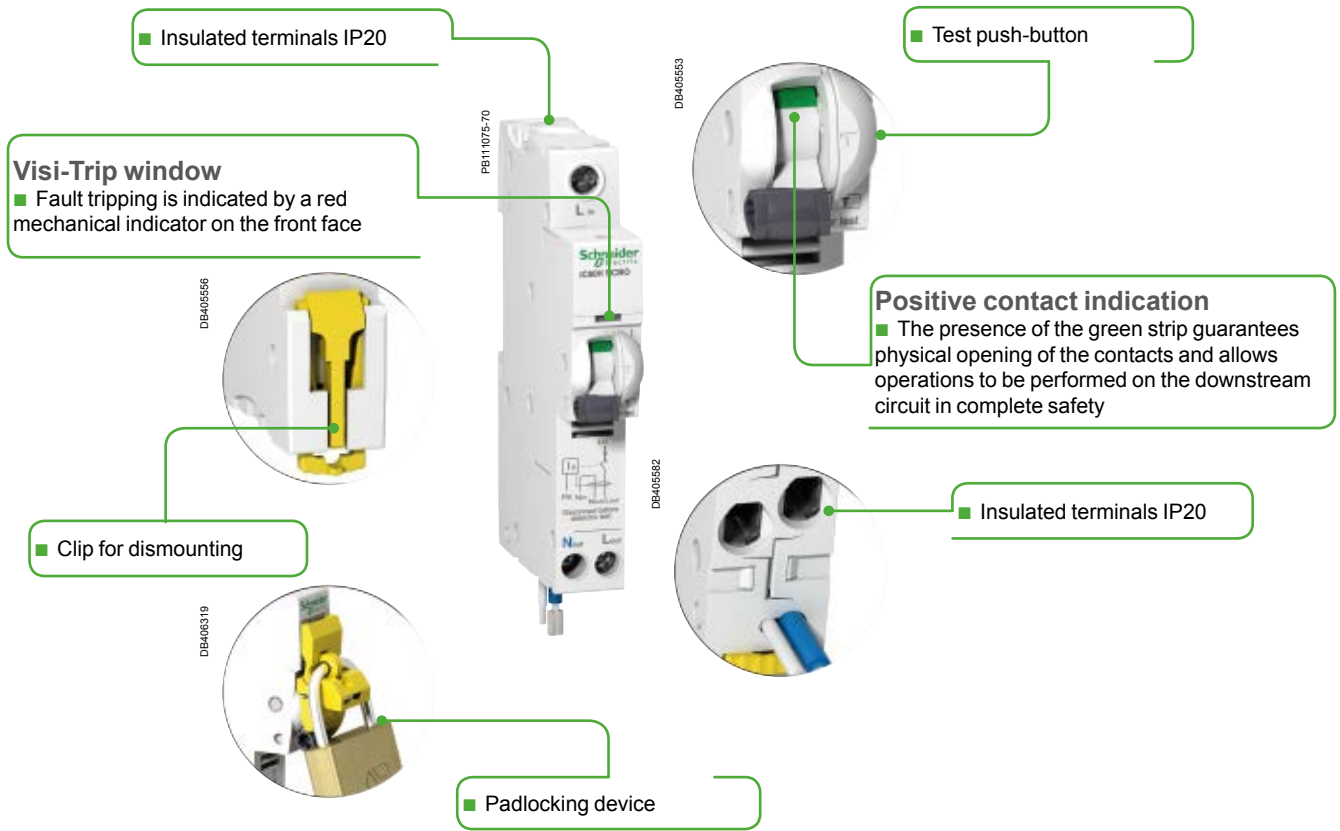
**Accessory**

- **Padlocking device**
- Used to lock the toggle in the "open" or "closed" position by 4 mm diameter padlock (not supplied).

## Catalogue numbers

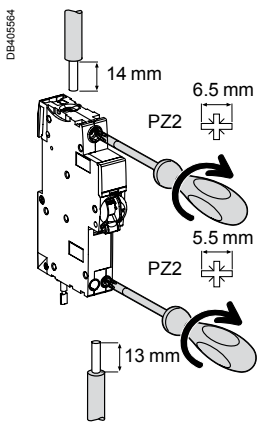
iC60H RCBO 10000						
1P+N			A			Width in 9-mm modules
B curve	Voltage rating (V)	Sensitivity (IΔn)	30 mA	100 mA		
	240	Rating (In)	6 A	-	2	
		6 A	A9D34806	-		
		10 A	A9D34810	-		
		16 A	A9D34816	-		
		20 A	A9D34820	-		
		25 A	A9D34825	-		
		32 A	A9D34832	-		
		40 A	A9D34840	-		
45 A	A9D34845	-				
C curve	Voltage rating (V)	Sensitivity (IΔn)				
	240	Rating (In)	6 A	A9D15806	2	
		6 A	A9D14806	A9D15806		
		10 A	A9D14810	A9D15810		
		16 A	A9D14816	A9D15816		
		20 A	A9D14820	A9D15820		
		25 A	A9D14825	A9D15825		
		32 A	A9D14832	A9D15832		
		40 A	A9D14840	A9D15840		
45 A	A9D14845	A9D15845				
Operating frequency			50...60 Hz			
Auxiliaries			Module CA907022			
Accessories			Module CA907021			

# Protect Earth leakage protection iC60 RCBO 10, 30 and 100 mA



- Increased product service life thanks to fast closing independent of the speed of actuation of the toggle.
- Remote indication, open/closed/tripped, by optional auxiliary contacts.

## Connection



Type	Rating	Tightening torque	Copper cables	
			Rigid	Flexible
			DB122545	DB122546
N in and L in L out and N out	6 to 45 A	3.5 N.m 2 N.m	1 to 25 mm <sup>2</sup> 1 to 16 mm <sup>2</sup>	1 to 16 mm <sup>2</sup> 1 to 10 mm <sup>2</sup>

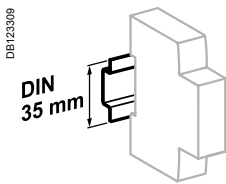
# Protect Earth leakage protection

## iC60 RCBO

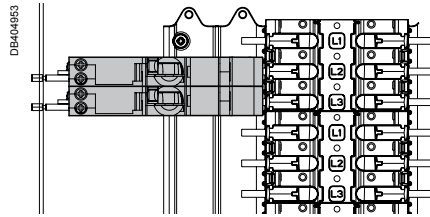
10, 30 and 100 mA

### Technical data

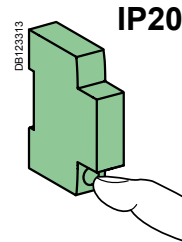
Main characteristics		iC60N RCBO	iC60H RCBO	iC60H2 RCBO
Insulation voltage (Ui)		400 V AC		
Rated impulse withstand voltage (Uimp)		4 kV		
Rated residual operating current (IΔn)		30 mA	10, 30, 100 mA	30, 300 mA
Thermal tripping	Reference temperature	50°C		
Temperature derating		See module CA908007		
Limitation class		3		
Surge current withstand (8/20 μs) without tripping		250 A		
Rated nominal breaking capacity (Icn)		6,000 A	10,000 A	10,000 A
Phase/earth rated residual breaking and making capacity (IΔm)		6,000 A	7,500 A	7,500 A
Additional characteristics				
Degree of protection	Device only	IP20		
	Device in modular enclosure	IP40		
Endurance (O-C)	Electrical	5,000 cycles		
	Mechanical	20,000 cycles		
Operating temperature		-15°C to +60°C		
Storage temperature		-40°C to +85°C		
Tropicalization		Treatment 2 (relative humidity: 95 % at 55°C)		



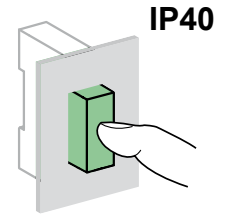
Clip on DIN rail 35 mm.



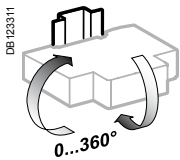
Installation on Fishbone.



IP20



IP40

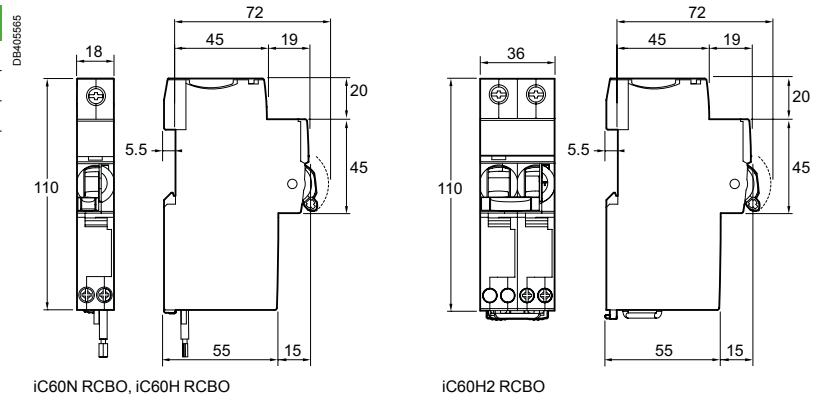


Indifferent position of installation.

### Weight (g)

iC60 RCBO	
iC60N RCBO	205
iC60H RCBO	205
iC60H2 RCBO	332

### Dimensions (mm)





Protect  
Earth leakage protection  
iC60 RCBO  
10, 30 and 100 mA



2.2	22/05/2018	Remove RCM quality mark from offer B products	Sonovision
2.0	18/04/2017	New charte	Sonovision
1.7	14/08/2013	Changed Padlocking device diameter to 4 mm and add "closed" position	Sedoc
1.6	8/07/2013	Add for C60H2 RCBO 2P 240 V, new cat. no. and text 300 mA	Sedoc
1.5	31/05/2013	Add Accessories cross-reference module CA907021 and Padlocking device photo and new text.	Sedoc
1.4	24/04/2013	Changed text for Auxiliaries informations: See module CA907022	Sedoc
1.3	25/03/2013	Changed drawing dimensions	Sedoc
1.2	30/07/2012	Changed Idm : for iC60H RCBO : 7500A, for iC60H2 RCBO :7500A.	JPM
1.1	30/05/2012	Changed photos + text pages 7, 8	Sedoc
1.0	08/03/2012	Creation	Sedoc
<b>Indice</b>	<b>Date</b>	<b>Modification</b>	<b>Name</b>