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CE

### IEC/EN 60947-2

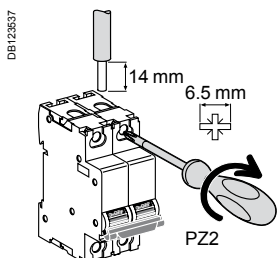
The C60H-DC supplementary protectors are used in direct current circuits (Industrial control and automations, transport, renewable energy...). They combine the following functions of circuit protection against short-circuit and overload currents, control and isolation.

Direct current (DC)						
Breaking capacity (Icu) according to IEC/EN 60947-2						Rated service breaking capacity (Ics)
Type	110 V	220 V	250 V	440 V	500 V	
1P	20 kA	10 kA	6 kA	-	-	75 % Icu
Rating 0.5 to 63 A (In)						
2P (in series)	20 kA	10 kA	6 kA	-	-	75 % Icu
Rating 0.5 to 63 A						

### Catalogue numbers

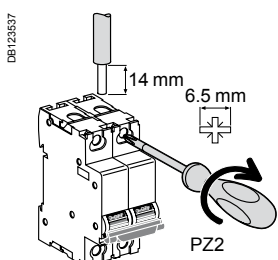
C60H-DC		
Type	1P	2P
	<p>Supply from above or below, observing the polarity</p>	<p>Supply from above      Supply from below</p>
Auxiliaries	Remote signalisation and tripping, module CA907008	
Rating (In)	Curve C	Curve C
0.5 A	A9N61500	A9N61520
1 A	A9N61501	A9N61521
2 A	A9N61502	A9N61522
3 A	A9N61503	A9N61523
4 A	A9N61504	A9N61524
5 A	A9N61505	A9N61525
6 A	A9N61506	A9N61526
10 A	A9N61508	A9N61528
13 A	A9N61509	A9N61529
15 A	A9N61510	A9N61530
16 A	A9N61511	A9N61531
20 A	A9N61512	A9N61532
25 A	A9N61513	A9N61533
30 A	A9N61514	A9N61534
32 A	A9N61515	A9N61535
40 A	A9N61517	A9N61537
50 A	A9N61518	A9N61538
63 A	A9N61519	A9N61539
Number of modules of 9 mm	2	4
Accessories	Modules LIN001 and CA907012	

### Connection

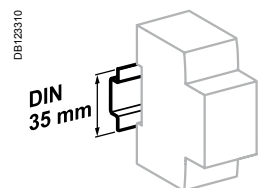


Rating	Tightening torque	Without accessory		With accessories			
		Copper cables		50 mm <sup>2</sup> Al terminal	Screw-on connection for ring terminal	Multi-cables terminal	
		Rigid / Stranded	Flexible or ferrule			Rigid cables	Flexible cables
≤ 25 A	2.5 N.m	DBI122045	DBI122046	DBI122035	DBI118789	DBI118787	
> 25 A	3.5 N.m /	1 to 25 mm <sup>2</sup>	1 to 16 mm <sup>2</sup>	50 mm <sup>2</sup>	∅ 5 mm	3 x 16 mm <sup>2</sup>	3 x 10 mm <sup>2</sup>
		1 to 35 mm <sup>2</sup>	1 to 25 mm <sup>2</sup>	-			

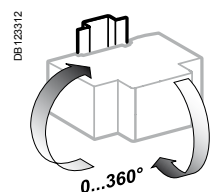
### Multi-cables connection



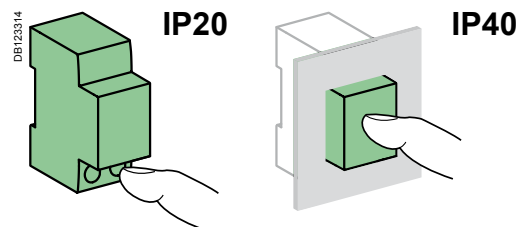
Rating	Tightening torque	Without accessory			
		2 Copper cables		3 Multi-cables / Different wires	
		Rigid / Stranded	Flexible or ferrule	Flexible / Stranded	Flexible / Stranded / Rigid
≤ 25 A	2.5 N.m	DBI122045	DBI122046	DBI118787	
> 25 A	3.5 N.m	2 x 1 mm <sup>2</sup> to 2 x 10 mm <sup>2</sup>		3 x 1 mm <sup>2</sup>	2 x 2.5 mm <sup>2</sup> + 1 x 1.5 mm <sup>2</sup>
		2 x 1 mm <sup>2</sup> to 2 x 16 mm <sup>2</sup>		3 x 4 mm <sup>2</sup>	2 x 10 mm <sup>2</sup> + 1 x 6 mm <sup>2</sup>



Clip on DIN rail 35 mm.



Indifferent position of installation.



### Technical data

- Tripping curves: C curve - Overcurrent protection for any type of application.
- Positive break indication - the green strip indicates that all the poles are open and allows work to be carried out on the downstream circuit in complete safety.
- Suitable for isolation as defined in IEC / EN 60947-2.
- Increase in the service life of the product: thanks to fast closure independent of the speed of action on the handle.
- Current limitation in the event of a fault: fast opening of the contacts prevents the loads from being destroyed in the event of a short-circuit.

Main characteristics	
According to IEC/EN 60947-2	
Insulation voltage (Ui)	500 V DC
Rated voltage (Un)	1P 250 V DC 2P 500 V DC
Operating voltage (Ue)	1P 24...250 V DC 2P 24...500 V DC
Pollution degree	3
Rated impulse withstand voltage (Uimp) under frame	6 kV
Magnetic tripping (Ii)	8.5 In (± 20 %) (compatible with curve C)
Additional characteristics	
Degree of protection (IEC 60529)	Device only IP20 Device in modular enclosure IP40
Utilization category	A (no delay in accordance with IEC/EN 60947-2 standards)
Endurance (O-C)	Electrical 3,000 cycles (where L/R=2 ms) 6,000 cycles where the circuit is resistive Mechanical 20,000 cycles
Tropicalization (IEC 60068-2)	Treatment 2 (relative humidity 95 % at 55°C)
Operating temperature	-25°C to 70°C
Storage temperature	-40°C to 85°C



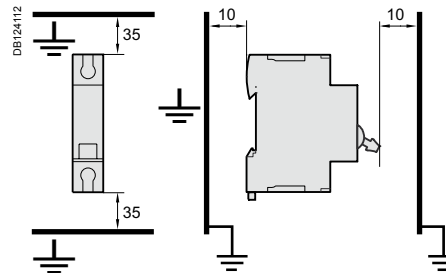
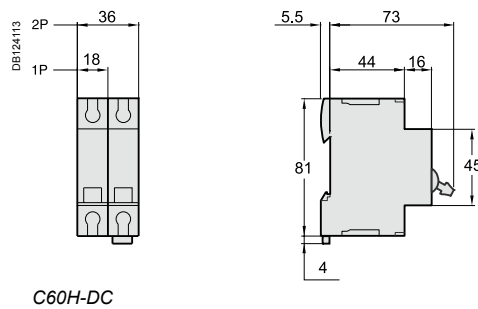
Failure to match polarity during connection may lead to a fire hazard and/or serious injury.

- The connection polarity must be observed (marked on the front panel).
- Use only with direct current.

### Weight (g)

Circuit-breaker	
Type	C60H-DC
1P	128 g
2P	256 g

### Dimensions (mm)



Details of minimum distance between circuit-breaker and earthed metal parts for circuit-breaker intended for use without enclosure.