

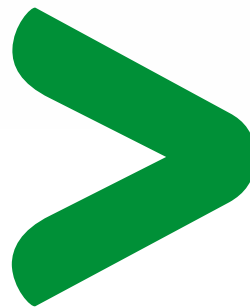
Low voltage

Acti 9

the efficiency you deserve

Catalogue
09/2013

<https://hoplongtech.com>



Schneider
Electric

General**Principle of catalogue numbers, protection (Acti 9)****Circuit protection**

Choice of circuit protective devices

Circuit breaker panorama

Neutral breaking circuit breakers

i DPN, DT40, DT60, C40 (Clario, Libro, Prodis)

Circuit breakers up to 63 A

iC60a

iC60N

iC60N double terminals

iC60H

iC60H double terminals

iC60L

iK60 (B curve)

iK60 (C curve)

iK60 Biconnect

Circuit breakers up to 125 A

C 120a, N, H (RSA)

C 120N

C 120H

High performance circuit breakers

NG125a

NG125N

NG125H

NG125L

Direct current circuit breakers

C60H-DC

C60PV-DC

C60NA-DC

SW60-DC

Motor protection circuit breakers

P25M

iC60LMA

NG125LMA

Fuses

STI

DO fuse disconnectors switches (projet Dido)

Fuse holder with indicator light SBI

Residual current devices

Choice of earth leakage protection devices

Overview of the earth leakage protection product range

Residual current circuit breakers

iID

iID double terminals

iID K

iID K biconnect

IDc, ITG40, ID C40 (Clario, Libro, Prodis)

RCCB-ID 125 A

RCCB-ID type B

Add-on residual current devices for circuit breakers

Vigi iC60

Vigi iC60 double terminals

Vigi C120

Vigi NG125

Residual current devices

iDPN Vigi

i DPN Vigi, Vigi i DPN, Vigi TG40, Vigi TG60, DT40 Vigi, Vigi DT40, Vigi C40, C40 Vigi (Clario, Libro, Prodis)

DPNa Vigi, DPN N Vigi

DPN Vigi K

SPN N Vigi

DPN N Vigi

REDs, REDtest

Load protection (surge arrester)**LV surge arresters**

Choice of surge arresters

iPRF1 - PRF1 - PRD1

iPF

iPRD Acti 9

iPRD (white product)

iQuick PRD

iQuick PF

Surge arresters for telephon and informatic networks

iPRC/iPRI

Surge arresters for photovoltaic installations

iPRD-DC PV (white product)

iPRD-PV-DC

Disconnection**Switch-disconnectors**

iSW Acti 9

SW Biconnect switches

Trip switch-disconnectors

iSW-NA

NG125NA

CA901009E	1
CA901011E	2
CA901000E	4
CA901012E	14
CA901010E	26
CA901002E	31
CA901019E	40
CA901003E	45
CA901020E	54
CA901004E	58
CA901006E	61
CA901007E	64
CA901027E	70
CA901017E	73
CA901015E	78
CA901016E	82
CM901027E	85
CM901028E	89
CM901029E	95
CM901030E	99
CA901024E	105
CA901031E	108
CA901032E	112
CA901030E	116
CM901028E	120
CA901005E	125
CM901031E	128
CM901033E	132
CA901035E	135
CM901034E	137
CA902000E	140
CA902011E	142
CA902002E	145
CA902018E	161
CA902007E	167
CA902027E	171
CA902012E	173
CM902001E	178
CM902002E	180
CA902005E	182
CA902019E	193
CA902016E	199
CM902008E	204
CA902026E	214
CA902013E	217
CA902014E	227
CA902032E	231
CA902017E	233
CA902037E	235
CM902017E	237
CA903010E	244
CA903005E	248
CA903001E	254
CA903008E	258
CA903002E	264
CA903003E	268
CA903004E	271
CA903006E	273
CA903007E	275
CA903009E	278
CA904027E	282
CA904030E	288
CA904013E	290
CM901035E	292

Install, connection, power distribution

Accessorisation/Auxiliarisation

Accessories / Auxiliarisation iC60, iID, iSW-NA, Reflex iC60, RCA, ARA
Accessories and auxiliaries for C120, Vigi C120, DPN, C60H-DC devices
Accessories and auxiliaries for NG125 devices

Circuit breakers and residual current devices accessories

Accessories for iC60, iID, iSW-NA, Reflex iC60, RCA, ARA
Accessories for DT60
Accessories for C120, DPN, DPN Vigi, C60H-DC devices
Accessories for NG125 devices

Comb busbar and devices feeders

Linergy FH et FV: Horizontal and vertical comb busbars
Linergy DX : Quick distribution blocks
Linergy FM: Quick device feeders
Linergy DS: Devices feeders

Supervision and switchboard control

Acti 9 control system

Smartlink Acti 9

Monitoring and control of protections

Indication and tripping

Electrical auxiliaries for iC60, iID, iSW-NA, RCA, ARA
Electrical auxiliaries for C120, DPN, DPN Vigi, ID, C60H-DC devices
Electrical auxiliaries for NG125 devices

Remote control

RCA remote controls for iC60 circuit breakers

Automatic reclosers

ARA automatic reclosers for iC60 and iID

Electrical circuit control

Manual control

iPB pushbuttons
iSSW linear switches
DIN rail selector switches iCMB, iCMD, iCME, iCMC, iCMV and iCMA
Button holders

Electrical control

Reflex iC60 integrated control circuit breakers
iCT contactors
iTL impulse relays
TL impulse relays (Clario, Libro, Prodis)
CT contactors (Clario, Libro, Prodis)
TL+ impulse relays
CT+ contactors

Indication

Indicators

iLL indicator lights
iSO bells and iRO buzzers
iTR transformers

Lighting, time and energy management

Relays iRTA, iRTB, iRTC, iRTH, iRTL, iRTMF, iRBN, iRTBT, iRLI, iERL, iRCP, iRCI, iRCU, iRCC
CDS load-shedding
Modular iPC power sockets
Kilowatt-hour meters iEM, iME

Complementary technical information

400 Hz network
Influence of ambient temperature
Dissipated power, Impedance and Voltage drop
Resistance to environmental conditions

Circuit protections

Tripping curves
Short-circuit current limiting
Cascading
Protection discrimination

Circuit breakers for direct current applications

Direct current distribution

Motor protections

Motor circuit protection and contactor combination

Photovoltaic

Examples of installation architectures

Acti 9 Smartlink

Acti 9 Smartlink installation

Earth leakage protections

Routine operating checks
Response time of high-sensitivity residual current devices
Response time of medium-sensitivity residual current devices
Electrical and electromagnetic interference
Co-ordination
DCP Vigi RCBO

Fuses

SBI/STI curves

Impulse relays, contactors

iTL impulse relays and iCT contactors, choice of rating according to load type

Auxiliaries

Auxiliary indicating contacts for Acti 9 protective devices

Auxiliary trip units for Acti 9 protective devices

Combination electrical auxiliaries for iC60, iID, iSW-NA, ARA and RCA

Twilight and time switches, timers, thermostats

IC twilight switches

IHP, ITM time switches

MIN timers

STD, STU dimmers

TH4, TH7, THP1, THP2 thermostats

CA907000E	298
CA907013E	305
CM907004E	311
CA907001E	312
CA907011E	318
CA907012E	320
CM907006E	324
LIN001	326
LIN003	334
LIN022	336
CA907023E	338
CA907019E	341
CA907002E	347
CA907008E	355
CM907005E	361
CA904011E	365
CA904010E	370
CA904003E	375
CA904004E	376
CA904024E	378
CA907007E	381
CA904012E	382
CA904007E	387
CA904008E	404
CA904020E	417
CA904021E	423
CA904018E	429
CA904019E	431
CA904006E	433
CA904014E	434
CA904015E	435
CA904022E	438
CA904023E	447
CA904017E	453
CA904009E	456
CA908005E	460
CA908007E	462
CA908009E	470
CA908027E	472
CA908024E	474
CA908025E	483
557E4200	501
557E4300	539
557E4305	546
557E4310	580
557E4330	587
CA908036E	607
CA908032E	609
CA908006E	627
CA908022E	653
CA908035E	654
CA908033E	660
CA908012E	663
CA908013E	666
CA908018E	667
CA908015E	671
CA908023E	674
CM902006E	681
CM908003E	691
CA908026E	695
CA908028E	700
CA908029E	703
CA908030E	710
LSB02323EN	712
LSB02322EN	720
LSB02321EN	735
LSB02325EN	739
LSB02324EN	744

iID, iC60, Vigi iC60, Reflex iC60, switches

A9 R 15 2 63

Range

Acti 9 (A9)

Family

iID

Vigi iC60

iC60

iK60

Auxiliaries and accessories

Switches

Reflex iC60

Code

R

V

F

K

A

S

C

Internal code

Poles

0

1P

2P

3P

4P

1N

1P+N

3P+N

Code

0

1

2

3

4

5

6

7

Rating (A)

0

0.5

0.75

1

1.6

2

2.5

3

4

6

6.3

8

10

12.5

13

16

20

25

32

40

50

63

80

100

125

Code

00

70

71

01

72

02

73

03

04

06

76

08

10

82

13

16

20

25

32

40

50

63

80

91

92

Comb busbar and comb busbar accessories

A9

X

P

H

4

12

Range	Family	Code	Type	Type of installation	Number of poles	Dimensioning			
Acti 9 (A9)	Comb busbar	X	Comb busbar		1P	1	Comb busbar		
			Fork teeth	F	Horizontal	H			
			Pin teeth	P			2P	2	Accessories
			Auxiliarisable	A			3P	3	
			Accessories				4P	4	
			End-piece	E	Double terminals	D	4P balanced, with neutral	5	
			Tooth cover	T	Single terminal	M	3P balanced for single-poles	6	
			Connector	C					

Number of 18 mm modules (approximately)

Number of pieces per cat. no.



Protection of electrical connections against short circuits and overloads



Protection of loads against overloads



Protection of control devices



Protection for people against indirect contacts in IT and TN earthing systems

- Circuit breakers can:
 - break a faulty electrical circuit (short-circuit, overload, insulation fault), to prevent fires,
 - protect control devices,
 - increase the service life of the installation, thanks to its ability to limit the short-circuit current (see module CA908025),
 - in IT and TN systems, they ensure personal protection against electrocution in the event of indirect contacts.
- The choice of circuit breakers must be optimised to provide absolute protection while ensuring continuity of service.
- Although circuit breakers are sometimes used as control units, it is recommended to install separate control devices which are more suitable for frequent switching operations (switch, contactor, impulse relay).

Choice of protective circuit breakers

This depends on several criteria:

- prospective short-circuit current
- max. voltage rating
- planned amperage for the circuit to be protected
- nature and cross section of cables
- ambient temperature (possible derating)
- the network and neutral system, which determine the number of poles of the protective circuit breaker installed on their power supply circuit and the tripping curve
- coordination with the other electrical devices (protection, discrimination, cascading).

Choice of breaking capacity

- The breaking capacity must be greater than or equal to the prospective short-circuit current (I_{sc}) upstream of the circuit-breaker (I_{sc} depends on the length, type of conductor and cross section of the cable and the power of the source).
- However, in the event of use in combination with an upstream circuit-breaker limiting the current, this breaking capacity can possibly be reduced (cascading, see module 557E4200).

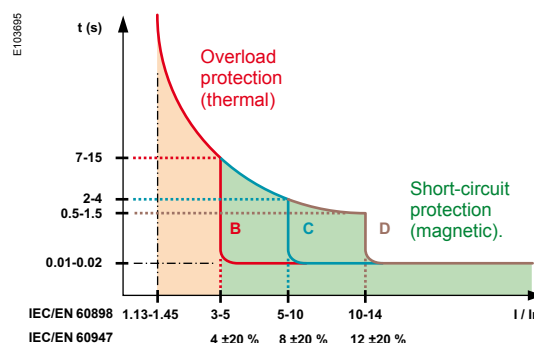
Choice of rating

- The rating (I_n) is chosen above all to protect the electrical connections:
 - for cables: it is chosen according to the cross section and type of conductor,
 - for Canalis prefabricated busbar trunking: it must be simply less than or equal to the rating of the busbar trunking.
- The rating should be greater than the nominal current of the loads.

Choice of tripping curve

The tripping curve makes the protection more or less sensitive to:

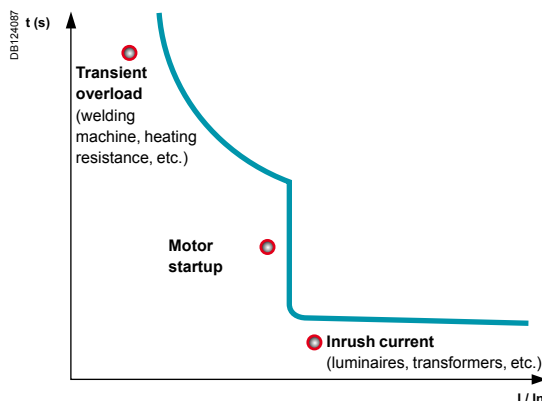
- the inrush current at power up
- the overload current.



Tripping thresholds (x I_n)

Curves	IEC /EN 60898	IEC/EN 60947-2
B	Between 3 I _n and 5 I _n	4 ± 20 %
C	Between 5 I _n and 10 I _n	8 ± 20 %
D or K	Between 10 I _n and 14 I _n	12 ± 20 %
MA	-	12 ± 20 %
Z	-	3 ± 20 %

- To prevent nuisance tripping, it may be advisable to choose a less sensitive curve, e.g. change from B to C (tripping curves, see module CA908024).



Continuity of service

■ Nuisance tripping can be generated by:

- the inrush current at circuit closure,
- the overload current, and sometimes the harmonic current flowing through the neutral of three-phase circuits ⁽¹⁾,
- motor startup currents.

Solutions

■ **Choose a circuit breaker with a less sensitive curve:** change from B curve to C curve or from C curve to D curve ⁽²⁾.

■ **Reduce the number of loads per circuit.**

■ **Energize the circuits in succession**, using time delay auxiliaries on the control devices.

■ **Under no circumstances may the circuit breaker rating be increased beyond the maximum constraints permitted by the cable as the electrical connections will no longer be protected.**

■ **Ensure discrimination of the protective devices**

(see modules 557E4300).

Discrimination is the coordination of automatic breaking devices in such a way that a fault occurring at any point on the network is eliminated by the circuit breaker located immediately upstream of the fault, and by it alone.

Total discrimination

For all values of the fault, from overload to non-resistive short circuit, distribution is fully discriminating if D2 opens and if D1 remains closed.

Partial discrimination

Discrimination is partial if the above condition is not complied with up to full short-circuit current, but only up to a lower value. This value is called the discrimination limit.

In the event of a fault exceeding this value, circuit breakers D1 and D2 open.

(1) In the case of three-phase circuits, third-order harmonic currents and harmonic currents that are multiples of three are generated by loads (discharge lamps with electronic ballast, etc.). The neutral cable must be sized to prevent it from overheating. The current flowing through the neutral conductor may become greater than the current of each phase and cause nuisance tripping.

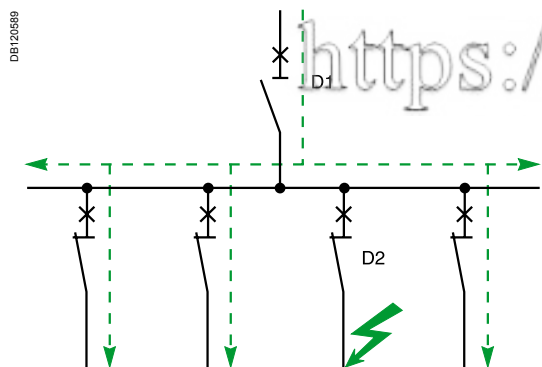
(2) In the case of installations with very long cables in a TN or IT system, it may be necessary to add an earth leakage protection device to protect human life..

Disconnection

The purpose of disconnection is to separate and isolate a circuit or a device from the rest of the electrical installation in order to ensure the safety of personnel having to work on the electrical installation for maintenance or repair.

- The circuit breaking must be omnipolar, i.e. the live conductors, including neutral ⁽³⁾, must be cut off (depending on country regulations).
- It must be lockable or padlockable in "open" position in order to prevent any unintentional reclosing, at least in industrial environments.
- It must be in compliance with a standard ensuring its suitability for isolation.

(3) With the exception of the PEN conductor which should never be cut off.



Circuit disconnection

iC60H				iC60L			
							
IEC/EN 60947-2, 60898-1				IEC/EN 60947-2, 60898-1			
Country approval pictogram				Country approval pictogram			
1P, 1P+N		2, 3, 4P		1P		2, 3, 4P	
■		■		■		■	
■		■		■		■	
B, C, D				B, C, K, Z			
0.5 to 63 (1 to 63 in DC)				0.5 to 63 (1 to 63 in DC)			
AC (50/60 Hz) 240/415, 440				AC (50/60 Hz) 240/415, 440			
DC 250				DC 250			
AC (50/60 Hz) 12				AC (50/60 Hz) 12			
DC 12				DC 12			
500				500			
6				6			
3				3			

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240/415 V - 230/400 V	10000		10000		15000		15000	
	1P, 1P+N		2, 3, 4P		1P		2, 3, 4P	
	0.5 to 4 A	6 to 63 A	0.5 to 4 A	6 to 63 A	0.5 to 4 A	6 to 25 A	32/40 A	50/63 A
12...60 V	70	42	—	—	100	70	70	70
12...133 V	—	—	70	42	—	—	—	—
100...133 V	70	30	—	—	100	50	36	30
220...240 V	70	15	70	30	100	25	20	15
380...415 V	—	—	70	15	—	—	—	—
440 V	—	—	50	10	—	—	—	—
	100 % of Icu	50 % of Icu	100 % of Icu	50 % of Icu	100 % of Icu	50 % of Icu ⁽¹⁾	50 % of Icu	50 % of Icu

12...60 V (1P)	20		25
≤ 72 V (1P)	15		20
≤ 125 V (2P)	15		20
≤ 180 V (3P)	15		20
≤ 250 V (4P)	15		20
	100 % of Icu		100 % of Icu

■	■
50°C	50°C
Visi-trip window	Visi-trip window
■	■
■	■
IP20	IP20
IP40	IP40
Insulation class II	Insulation class II
CA901003	CA901004
CA907000 and CA907001	CA907000 and CA907001
CA907000 and CA907002	CA907000 and CA907002
CA902005	CA902005

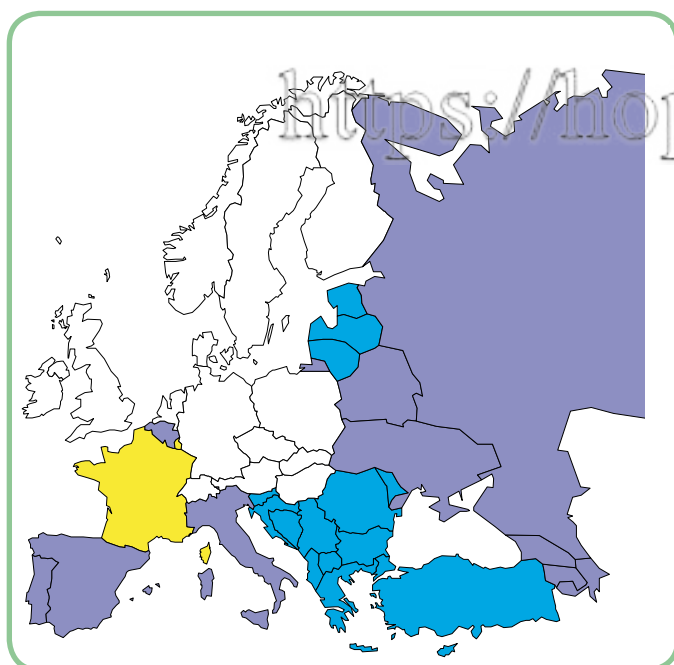
(1) 100 % of Icu for ratings 6 to 25 A under Ue 100 to 133 V AC Ph/Ph and Ue 12 to 60 V AC Ph/N.

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

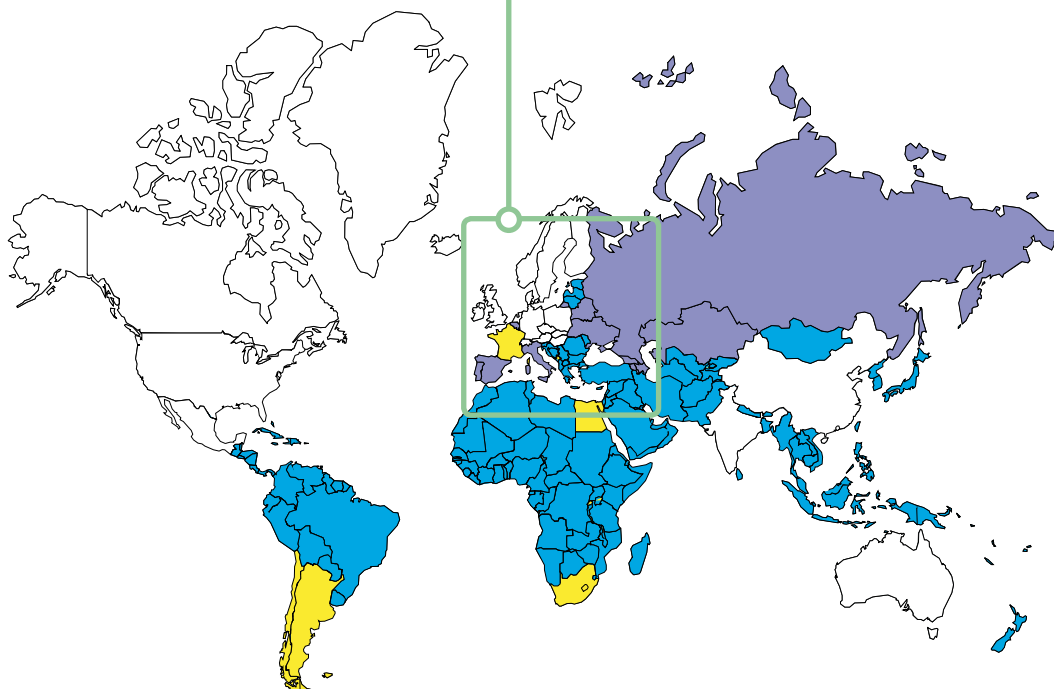
- usual installation procedure
- price
- accreditations by local bodies.

Variants

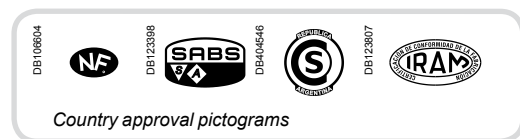
Offers		Pages
Offer A	Catalogue numbers	46
Offer B	Catalogue numbers	48
Offer C	Catalogue numbers	50
Common pages		52



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.



iC60H circuit breakers (curve B, C, D)



IEC/EN 60947-2 IEC/EN 60898-1

- iC60H circuit breakers are multi-standard circuit breakers which combine the following functions:
 - circuit protection against short-circuit currents,
 - circuit protection against overload currents,
 - suitable for industrial isolation according to IEC/EN 60947-2, standard.
 - fault tripping indication by a red mechanical indicator in circuit breaker front face.



Alternating current (AC) 50/60 Hz

Breaking capacity (Icu) according to IEC/EN 60947-2					Service breaking capacity (Ics)
	Voltage (Ue)				
Ph/Ph (2P, 3P, 4P)	12 to 133 V	220 to 240 V	380 to 415 V	440 V	100 % of Icu
Ph/N (1P, 1P+N)	12 to 60 V	100 to 133 V	220 to 240 V	-	
Rating (In) 0.5 to 4 A	70 kA	70 kA	70 kA	50 kA	100 % of Icu
6 to 63 A	42 kA	30 kA	15 kA	10 kA	50 % of Icu

Breaking capacity (Icn) according to IEC/EN 60898-1

Voltage (Ue)	
Ph/Ph	400 V
Ph/N	230 V
Rating (In)	0.5 to 63 A
	10000 A

Direct current (DC)

Breaking capacity (Icu) according to IEC/EN 60947-2						Service breaking capacity (Ics)
	Voltage (Ue)					
Between +/-	12 to 60 V	≤ 72 V	≤ 125 V	≤ 180 V	≤ 250 V	
Number of poles	1P		2P	3P	4P	
Rating (In) 1 to 63 A	20 kA	15 kA	15 kA	15 kA	15 kA	100 % of Icu

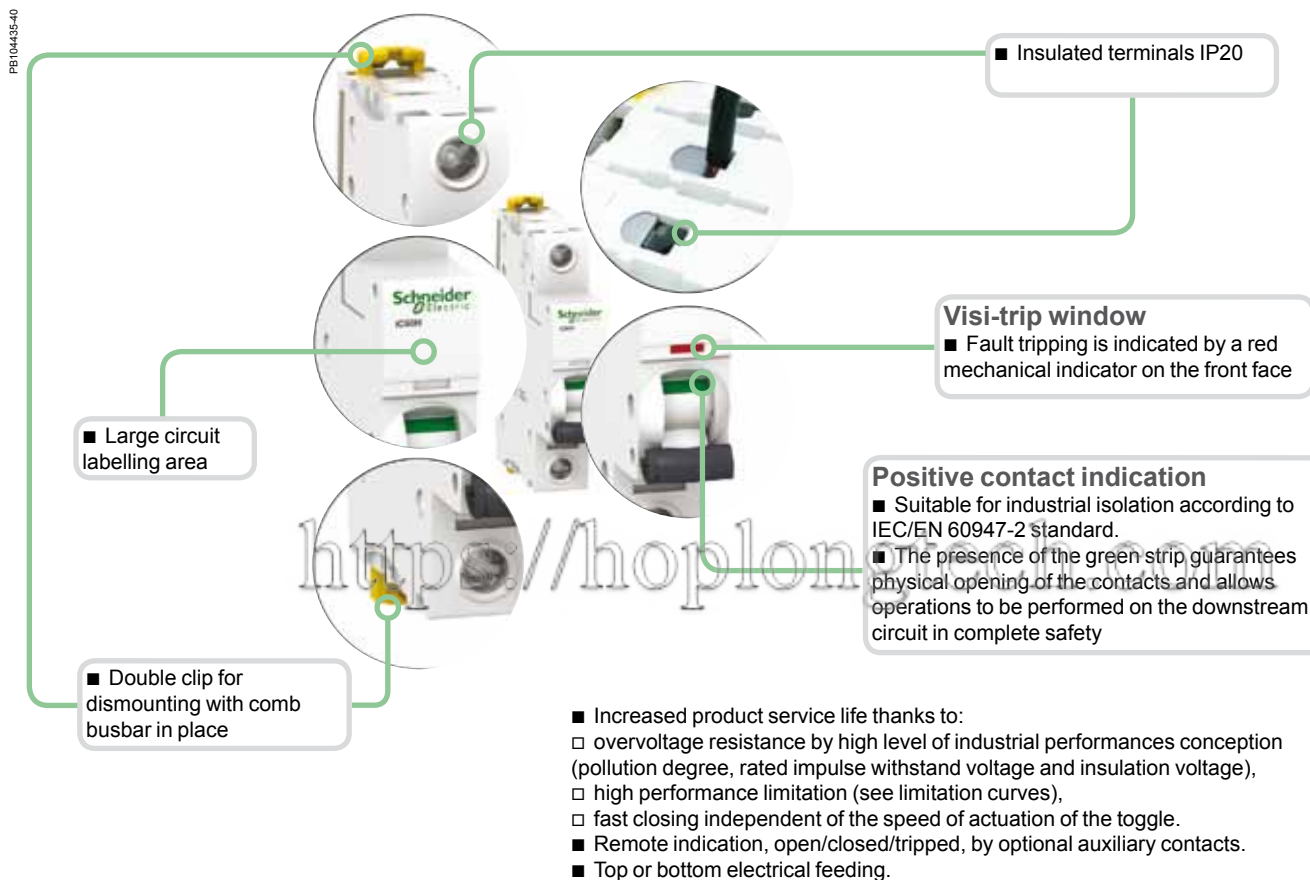
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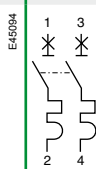
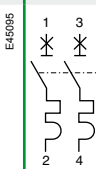
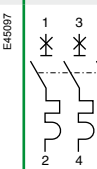
iC60H circuit breaker

Type	1P			1P+N		
	E45092 			D8123389 		
Auxiliaries	Remote tripping and indication, module CA907000 and CA907002			Remote tripping and indication, module CA907000 and CA907002		
Vigi iC60	Vigi iC60 add-on residual current device, module CA902005			Vigi iC60 add-on residual current device, module CA902005		
Rating (In)	Curve			Curve		
	B	C	D ⁽¹⁾	B	C	D ⁽¹⁾
0.5 A ⁽¹⁾	A9F83170	A9F84170	A9F85170	A9F83670	A9F84670	A9F85670
1 A ⁽¹⁾	A9F83101	A9F84101	A9F85101	A9F83601	A9F84601	A9F85601
2 A ⁽¹⁾	A9F83102	A9F84102	A9F85102	A9F83602	A9F84602	A9F85602
3 A ⁽¹⁾	A9F83103	A9F84103	A9F85103	A9F83603	A9F84603	A9F85603
4 A ⁽¹⁾	A9F83104	A9F84104	A9F85104	A9F83604	A9F84604	A9F85604
6 A	A9F86106	A9F87106	A9F85106	A9F86606	A9F87606	A9F85606
10 A	A9F86110	A9F87110	A9F85110	A9F86610	A9F87610	A9F85610
13 A ⁽¹⁾	A9F83113	A9F84113	A9F85113	A9F83613	A9F84613	A9F85613
16 A	A9F86116	A9F87116	A9F85116	A9F86616	A9F87616	A9F85616
20 A	A9F86120	A9F87120	A9F85120	A9F86620	A9F87620	A9F85620
25 A	A9F86125	A9F87125	A9F85125	A9F86625	A9F87625	A9F85625
32 A	A9F86132	A9F87132	A9F85132	A9F86632	A9F87632	A9F85632
40 A	A9F86140	A9F87140	A9F85140	A9F86640	A9F87640	A9F85640
50 A	A9F86150	A9F87150	A9F85150	A9F86650	A9F87650	A9F85650
63 A	A9F86163	A9F87163	A9F85163	A9F86663	A9F87663	A9F85663
Width in 9-mm modules	2			4		
Accessories	Module CA907000 and CA907001			Module CA907000 and CA907001		

(1) VDE approved only.

iC60H circuit breakers (curve B, C, D) (cont.)



2P				3P				4P			
											
Remote tripping and indication, module CA907000 and CA907002				Remote tripping and indication, module CA907000 and CA907002				Remote tripping and indication, module CA907000 and CA907002			
Vigi iC60 add-on residual current device, module CA902005				Vigi iC60 add-on residual current device, module CA902005				Vigi iC60 add-on residual current device, module CA902005			
Curve				Curve				Curve			
B				B				B			
A9F83270				A9F83370				A9F83470			
A9F83201				A9F83301				A9F83401			
A9F83202				A9F83302				A9F83402			
A9F83203				A9F83303				A9F83403			
A9F83204				A9F83304				A9F83404			
A9F86206				A9F86306				A9F86406			
A9F86210				A9F86310				A9F86410			
A9F83213				A9F83313				A9F83413			
A9F86216				A9F86316				A9F86416			
A9F86220				A9F86320				A9F86420			
A9F86225				A9F86325				A9F86425			
A9F86232				A9F86332				A9F86432			
A9F86240				A9F86340				A9F86440			
A9F86250				A9F86350				A9F86450			
A9F86263				A9F86363				A9F86463			
4				6				8			
Module CA907000 and CA907001				Module CA907000 and CA907001				Module CA907000 and CA907001			

iC60H circuit breakers (curve B, C, D)



IEC/EN 60947-2 IEC/EN 60898-1

- iC60H circuit breakers are multi-standard circuit breakers which combine the following functions:
 - circuit protection against short-circuit currents,
 - circuit protection against overload currents,
 - suitable for industrial isolation according to IEC/EN 60947-2, standard.
 - fault tripping indication by a red mechanical indicator in circuit breaker front face.

Alternating current (AC) 50/60 Hz

Breaking capacity (Icu) according to IEC/EN 60947-2

	Voltage (Ue)					Service breaking capacity (Ics)
	12 to 133 V	220 to 240 V	380 to 415 V	440 V		
Ph/Ph (2P, 3P, 4P)	12 to 133 V	220 to 240 V	380 to 415 V	440 V		
Ph/N (1P, 1P+N)	12 to 60 V	100 to 133 V	220 to 240 V	-		
Rating (In) 0.5 to 4 A	70 kA	70 kA	70 kA	50 kA		100 % of Icu
6 to 63 A	42 kA	30 kA	15 kA	10 kA		50 % of Icu

Breaking capacity (Icn) according to IEC/EN 60898-1

	Voltage (Ue)	
	400 V	230 V
Ph/Ph	400 V	230 V
Ph/N	230 V	
Rating (In) 0.5 to 63 A	10000 A	

Direct current (DC)

Breaking capacity (Icu) according to IEC/EN 60947-2

	Voltage (Ue)					Service breaking capacity (Ics)
	12 to 60 V	≤ 72 V	≤ 125 V	≤ 180 V	≤ 250 V	
Between +/-	12 to 60 V	≤ 72 V	≤ 125 V	≤ 180 V	≤ 250 V	
Number of poles	1P		2P	3P	4P	
Rating (In) 1 to 63 A	20 kA	15 kA	15 kA	15 kA	15 kA	100 % of Icu

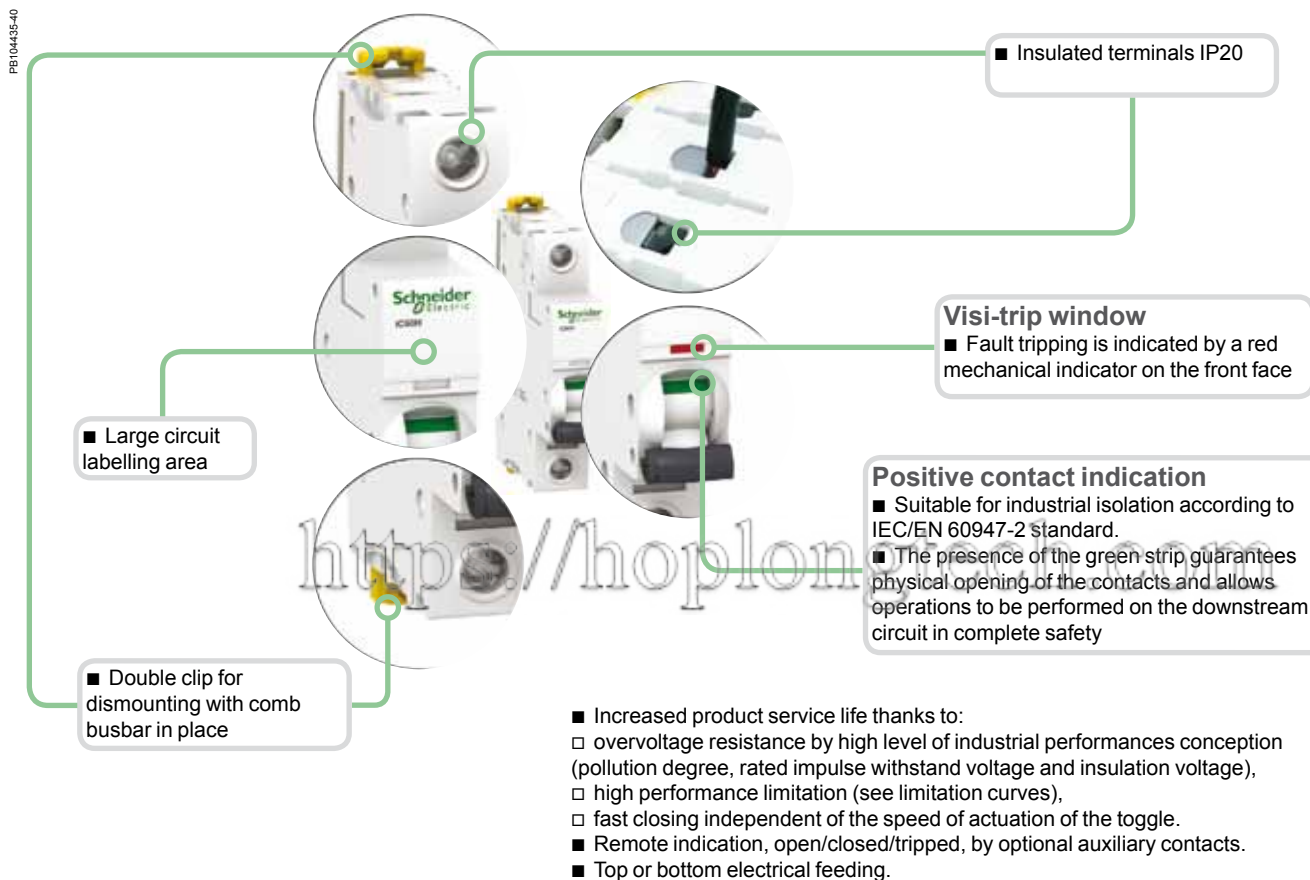
Catalogue numbers

iC60H circuit breaker

Type	1P			1P+N		
Auxiliaries	Remote tripping and indication, module CA907000 and CA907002			Remote tripping and indication, module CA907000 and CA907002		
Vigi iC60	Vigi iC60 add-on residual current device, module CA902005			Vigi iC60 add-on residual current device, module CA902005		
Rating (In)	Curve			Curve		
	B	C	D ⁽¹⁾	B	C	D ⁽¹⁾
0.5 A ⁽¹⁾	A9F83170	A9F84170	A9F85170	A9F83670	A9F84670	A9F85670
1 A ⁽¹⁾	A9F83101	A9F84101	A9F85101	A9F83601	A9F84601	A9F85601
2 A ⁽¹⁾	A9F83102	A9F84102	A9F85102	A9F83602	A9F84602	A9F85602
3 A ⁽¹⁾	A9F83103	A9F84103	A9F85103	A9F83603	A9F84603	A9F85603
4 A ⁽¹⁾	A9F83104	A9F84104	A9F85104	A9F83604	A9F84604	A9F85604
6 A	A9F88106	A9F89106	A9F85106	A9F88606	A9F89606	A9F85606
10 A	A9F88110	A9F89110	A9F85110	A9F88610	A9F89610	A9F85610
13 A ⁽¹⁾	A9F83113	A9F84113	A9F85113	A9F83613	A9F84613	A9F85613
16 A	A9F88116	A9F89116	A9F85116	A9F88616	A9F89616	A9F85616
20 A	A9F88120	A9F89120	A9F85120	A9F88620	A9F89620	A9F85620
25 A	A9F88125	A9F89125	A9F85125	A9F88625	A9F89625	A9F85625
32 A	A9F88132	A9F89132	A9F85132	A9F88632	A9F89632	A9F85632
40 A	A9F88140	A9F89140	A9F85140	A9F88640	A9F89640	A9F85640
50 A	A9F88150	A9F89150	A9F85150	A9F88650	A9F89650	A9F85650
63 A	A9F88163	A9F89163	A9F85163	A9F88663	A9F89663	A9F85663
Width in 9-mm modules	2			4		
Accessories	Module CA907000 and CA907001			Module CA907000 and CA907001		

(1) VDE approved only.

iC60H circuit breakers (curve B, C, D) (cont.)



2P				3P				4P			
Remote tripping and indication, module CA907000 and CA907002				Remote tripping and indication, module CA907000 and CA907002				Remote tripping and indication, module CA907000 and CA907002			
Vigi iC60 add-on residual current device, module CA902005				Vigi iC60 add-on residual current device, module CA902005				Vigi iC60 add-on residual current device, module CA902005			
Curve				Curve				Curve			
B	C	D ⁽¹⁾		B	C	D ⁽¹⁾		B	C	D ⁽¹⁾	
A9F83270	A9F84270	A9F85270		A9F83370	A9F84370	A9F85370		A9F83470	A9F84470	A9F85470	
A9F83201	A9F84201	A9F85201		A9F83301	A9F84301	A9F85301		A9F83401	A9F84401	A9F85401	
A9F83202	A9F84202	A9F85202		A9F83302	A9F84302	A9F85302		A9F83402	A9F84402	A9F85402	
A9F83203	A9F84203	A9F85203		A9F83303	A9F84303	A9F85303		A9F83403	A9F84403	A9F85403	
A9F83204	A9F84204	A9F85204		A9F83304	A9F84304	A9F85304		A9F83404	A9F84404	A9F85404	
A9F88206	A9F89206	A9F85206		A9F88306	A9F89306	A9F85306		A9F88406	A9F89406	A9F85406	
A9F88210	A9F89210	A9F85210		A9F88310	A9F89310	A9F85310		A9F88410	A9F89410	A9F85410	
A9F83213	A9F84213	A9F85213		A9F83313	A9F84313	A9F85313		A9F83413	A9F84413	A9F85413	
A9F88216	A9F89216	A9F85216		A9F88316	A9F89316	A9F85316		A9F88416	A9F89416	A9F85416	
A9F88220	A9F89220	A9F85220		A9F88320	A9F89320	A9F85320		A9F88420	A9F89420	A9F85420	
A9F88225	A9F89225	A9F85225		A9F88325	A9F89325	A9F85325		A9F88425	A9F89425	A9F85425	
A9F88232	A9F89232	A9F85232		A9F88332	A9F89332	A9F85332		A9F88432	A9F89432	A9F85432	
A9F88240	A9F89240	A9F85240		A9F88340	A9F89340	A9F85340		A9F88440	A9F89440	A9F85440	
A9F88250	A9F89250	A9F85250		A9F88350	A9F89350	A9F85350		A9F88450	A9F89450	A9F85450	
A9F88263	A9F89263	A9F85263		A9F88363	A9F89363	A9F85363		A9F88463	A9F89463	A9F85463	
4				6				8			
Module CA907000 and CA907001				Module CA907000 and CA907001				Module CA907000 and CA907001			

iC60H circuit breakers (curve B, C, D)



Country approval pictograms

IEC/EN 60947-2 IEC/EN 60898-1

- iC60H circuit breakers are multi-standard circuit breakers which combine the following functions:
 - circuit protection against short-circuit currents,
 - circuit protection against overload currents,
 - suitable for industrial isolation according to IEC/EN 60947-2, standard.
 - fault tripping indication by a red mechanical indicator in circuit breaker front face.

Alternating current (AC) 50/60 Hz

Breaking capacity (Icu) according to IEC/EN 60947-2

	Voltage (Ue)				Service breaking capacity (Ics)
	12 to 133 V	220 to 240 V	380 to 415 V	440 V	
Ph/Ph (2P, 3P, 4P)	12 to 133 V	220 to 240 V	380 to 415 V	440 V	100 % of Icu
Ph/N (1P, 1P+N)	12 to 60 V	100 to 133 V	220 to 240 V	-	
Rating (In) 0.5 to 4 A	70 kA	70 kA	70 kA	50 kA	50 % of Icu
6 to 63 A	42 kA	30 kA	15 kA	10 kA	

Breaking capacity (Icn) according to IEC/EN 60898-1

	Voltage (Ue)	
	400 V	230 V
Ph/Ph	400 V	230 V
Ph/N	230 V	10000 A
Rating (In) 0.5 to 63 A	10000 A	

Direct current (DC)

Breaking capacity (Icu) according to IEC/EN 60947-2

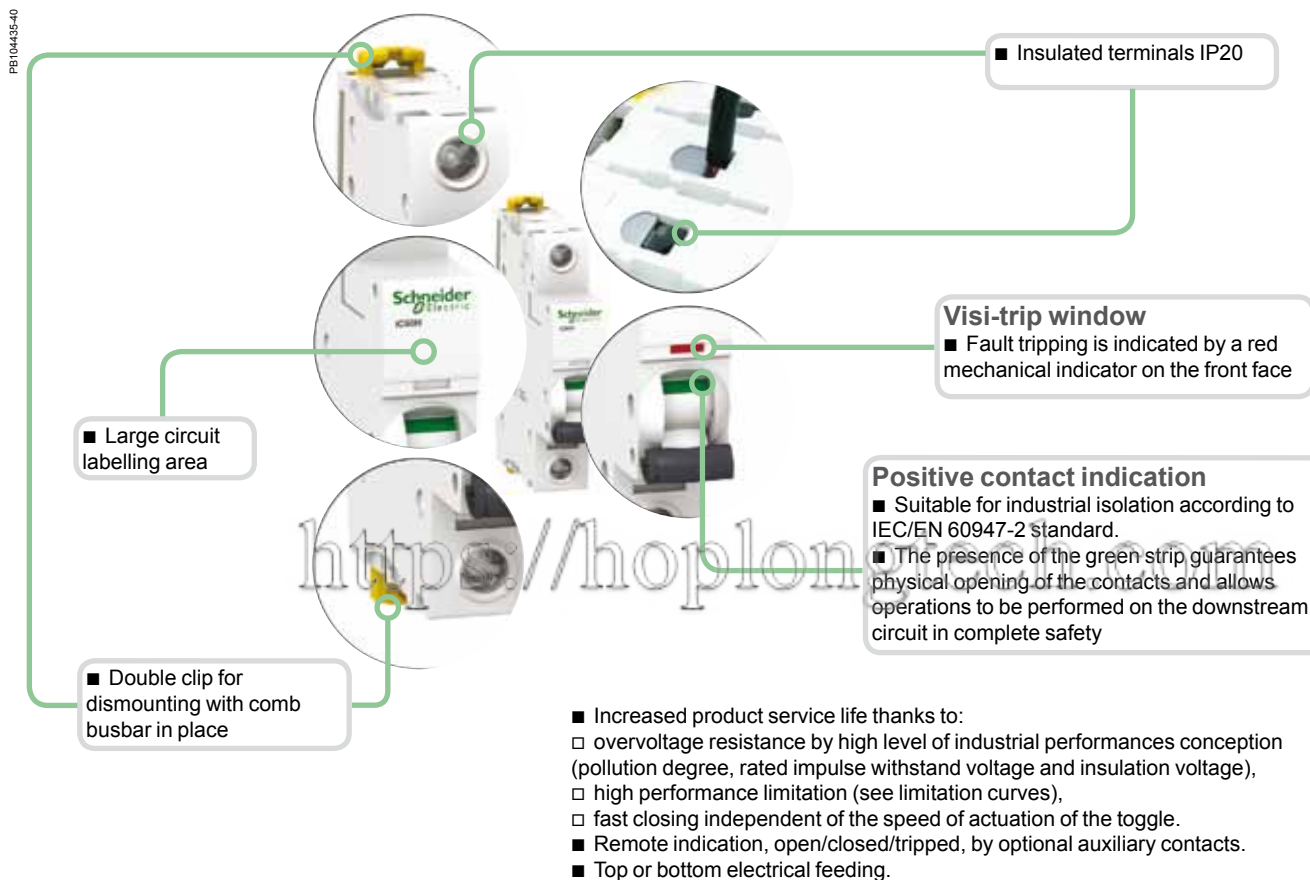
	Voltage (Ue)					Service breaking capacity (Ics)
	12 to 60 V	≤ 72 V	≤ 125 V	≤ 180 V	≤ 250 V	
Between +/-	12 to 60 V	≤ 72 V	≤ 125 V	≤ 180 V	≤ 250 V	100 % of Icu
Number of poles	1P	2P	3P	4P		
Rating (In) 1 to 63 A	20 kA	15 kA	15 kA	15 kA	15 kA	

Catalogue numbers

iC60H circuit breaker

Type	1P			1P+N		
Auxiliaries	Remote tripping and indication, module CA907000 and CA907002			Remote tripping and indication, module CA907000 and CA907002		
Vigi iC60	Vigi iC60 add-on residual current device, module CA902005			Vigi iC60 add-on residual current device, module CA902005		
Rating (In)	Curve			Curve		
	B	C	D	B	C	D
0.5 A	A9F83170	A9F84170	A9F85170	A9F83670	A9F84670	A9F85670
1 A	A9F83101	A9F84101	A9F85101	A9F83601	A9F84601	A9F85601
2 A	A9F83102	A9F84102	A9F85102	A9F83602	A9F84602	A9F85602
3 A	A9F83103	A9F84103	A9F85103	A9F83603	A9F84603	A9F85603
4 A	A9F83104	A9F84104	A9F85104	A9F83604	A9F84604	A9F85604
6 A	A9F83106	A9F84106	A9F85106	A9F83606	A9F84606	A9F85606
10 A	A9F83110	A9F84110	A9F85110	A9F83610	A9F84610	A9F85610
13 A	A9F83113	A9F84113	A9F85113	A9F83613	A9F84613	A9F85613
16 A	A9F83116	A9F84116	A9F85116	A9F83616	A9F84616	A9F85616
20 A	A9F83120	A9F84120	A9F85120	A9F83620	A9F84620	A9F85620
25 A	A9F83125	A9F84125	A9F85125	A9F83625	A9F84625	A9F85625
32 A	A9F83132	A9F84132	A9F85132	A9F83632	A9F84632	A9F85632
40 A	A9F83140	A9F84140	A9F85140	A9F83640	A9F84640	A9F85640
50 A	A9F83150	A9F84150	A9F85150	A9F83650	A9F84650	A9F85650
63 A	A9F83163	A9F84163	A9F85163	A9F83663	A9F84663	A9F85663
Width in 9-mm modules	2			4		
Accessories	Module CA907000 and CA907001			Module CA907000 and CA907001		

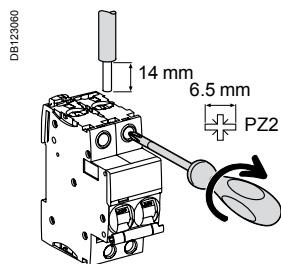
iC60H circuit breakers (curve B, C, D) (cont.)



2P				3P				4P			
Remote tripping and indication, module CA907000 and CA907002				Remote tripping and indication, module CA907000 and CA907002				Remote tripping and indication, module CA907000 and CA907002			
Vigi iC60 add-on residual current device, module CA902005				Vigi iC60 add-on residual current device, module CA902005				Vigi iC60 add-on residual current device, module CA902005			
Curve				Curve				Curve			
B				B				B			
C				C				C			
D				D				D			
A9F83270	A9F84270	A9F85270		A9F83370	A9F84370	A9F85370		A9F83470	A9F84470	A9F85470	
A9F83201	A9F84201	A9F85201		A9F83301	A9F84301	A9F85301		A9F83401	A9F84401	A9F85401	
A9F83202	A9F84202	A9F85202		A9F83302	A9F84302	A9F85302		A9F83402	A9F84402	A9F85402	
A9F83203	A9F84203	A9F85203		A9F83303	A9F84303	A9F85303		A9F83403	A9F84403	A9F85403	
A9F83204	A9F84204	A9F85204		A9F83304	A9F84304	A9F85304		A9F83404	A9F84404	A9F85404	
A9F83206	A9F84206	A9F85206		A9F83306	A9F84306	A9F85306		A9F83406	A9F84406	A9F85406	
A9F83210	A9F84210	A9F85210		A9F83310	A9F84310	A9F85310		A9F83410	A9F84410	A9F85410	
A9F83213	A9F84213	A9F85213		A9F83313	A9F84313	A9F85313		A9F83413	A9F84413	A9F85413	
A9F83216	A9F84216	A9F85216		A9F83316	A9F84316	A9F85316		A9F83416	A9F84416	A9F85416	
A9F83220	A9F84220	A9F85220		A9F83320	A9F84320	A9F85320		A9F83420	A9F84420	A9F85420	
A9F83225	A9F84225	A9F85225		A9F83325	A9F84325	A9F85325		A9F83425	A9F84425	A9F85425	
A9F83232	A9F84232	A9F85232		A9F83332	A9F84332	A9F85332		A9F83432	A9F84432	A9F85432	
A9F83240	A9F84240	A9F85240		A9F83340	A9F84340	A9F85340		A9F83440	A9F84440	A9F85440	
A9F83250	A9F84250	A9F85250		A9F83350	A9F84350	A9F85350		A9F83450	A9F84450	A9F85450	
A9F83263	A9F84263	A9F85263		A9F83363	A9F84363	A9F85363		A9F83463	A9F84463	A9F85463	
4				6				8			
Module CA907000 and CA907001				Module CA907000 and CA907001				Module CA907000 and CA907001			

iC60H circuit breakers (curve B, C, D) (cont.)

Connection



		Without accessory		With accessories			
Rating	Tightening torque	Copper cables		50 mm² Al terminal	Screw-on connection for ring terminal	Multi-cables terminal	
		Rigid	Flexible or ferrule			Rigid cables	Flexible cables
		DB122945 	DB122946 	DB122935  Al	DB118789 	DB118787 	
0.5 to 25 A	2 N.m	1 to 25 mm²	1 to 16 mm²	-	Ø 5 mm	-	-
32 to 63 A	3.5 N.m	1 to 35 mm²	1 to 25 mm²	50 mm²		3 x 16 mm²	3 x 10 mm²

Technical data

Main characteristics

According to IEC/EN 60947-2

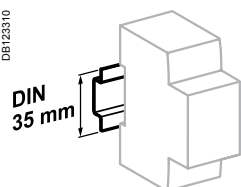
Insulation voltage (U _i)	500 V AC
Pollution degree	3
Rated impulse withstand voltage (U _{imp})	6 kV
Thermal tripping	Reference temperature
	Temperature derating
	See module CA908007
Magnetic tripping	B curve
	C curve
	D curve
	4 I _n ± 20 %
	8 I _n ± 20 %
	12 I _n ± 20 %
Utilization category	A

According to IEC/EN 60898-1

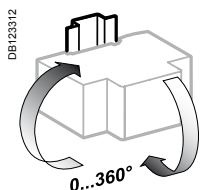
Limitation class	3
Rated making and breaking capacity of an individual pole (I _{cn1})	I _{cn1} = I _{cn}

Additional characteristics

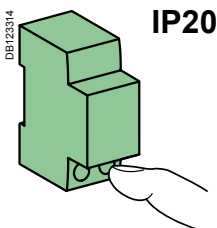
Breaking capacity under 1 pole with IT 380-415 V isolated neutral system (case of double fault)	40 A	4 kA
	50/63 A	3 kA
Degree of protection (IEC 60529)	Device only	IP20
	Device in modular enclosure	IP40
Endurance (O-C)	Electrical	10,000 cycles
	Mechanical	20,000 cycles
Overvoltage category (IEC 60364)		IV
Operating temperature		-35°C to +70°C
Storage temperature		-40°C to +85°C
Tropicalization (IEC 60068-1)		Treatment 2 (relative humidity 95 % to 55°C)



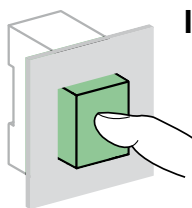
Clip on DIN rail 35 mm.



Indifferent position of installation.



IP20

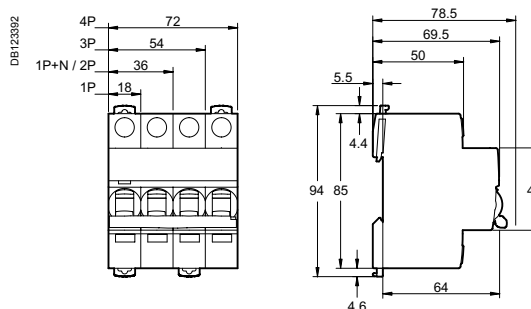


IP40

Weight (g)

Circuit-breaker	
Type	iC60H
1P	125
2P	250
3P	375
4P	500

Dimensions (mm)



iC60H double terminals circuit breakers (curve B, C, D)



IEC/EN 60947-2 IEC/EN 60898-1

- iC60H double terminals circuit breakers are multi-standard circuit breakers which combine the following functions:
 - circuit protection against short-circuit currents,
 - circuit protection against overload currents,
 - suitable for industrial isolation according to IEC/EN 60947-2, standard.
 - fault tripping indication by a red mechanical indicator in circuit breaker front face.

Alternating current (AC) 50/60 Hz

Breaking capacity (Icu) according to IEC/EN 60947-2					Service breaking capacity (Ics)	
	Voltage (Ue)					
Ph/Ph (2P, 3P, 4P)	12 to 133 V	220 to 240 V	380 to 415 V	440 V		
Ph/N (1P, 1P+N)	12 to 60 V	100 to 133 V	220 to 240 V	-		
Rating (In)	0.5 to 4 A	70 kA	70 kA	70 kA	50 kA	100 % of Icu
	6 to 40 A	42 kA	30 kA	15 kA	10 kA	50 % of Icu
	50/63 A	42 kA	30 kA	15 kA	10 kA	50 % of Icu

Breaking capacity (Icn) according to IEC/EN 60898-1

Voltage (Ue)	
Ph/Ph	400 V
Ph/N	230 V
Rating (In)	0.5 to 63 A
	10000 A

Direct current (DC)

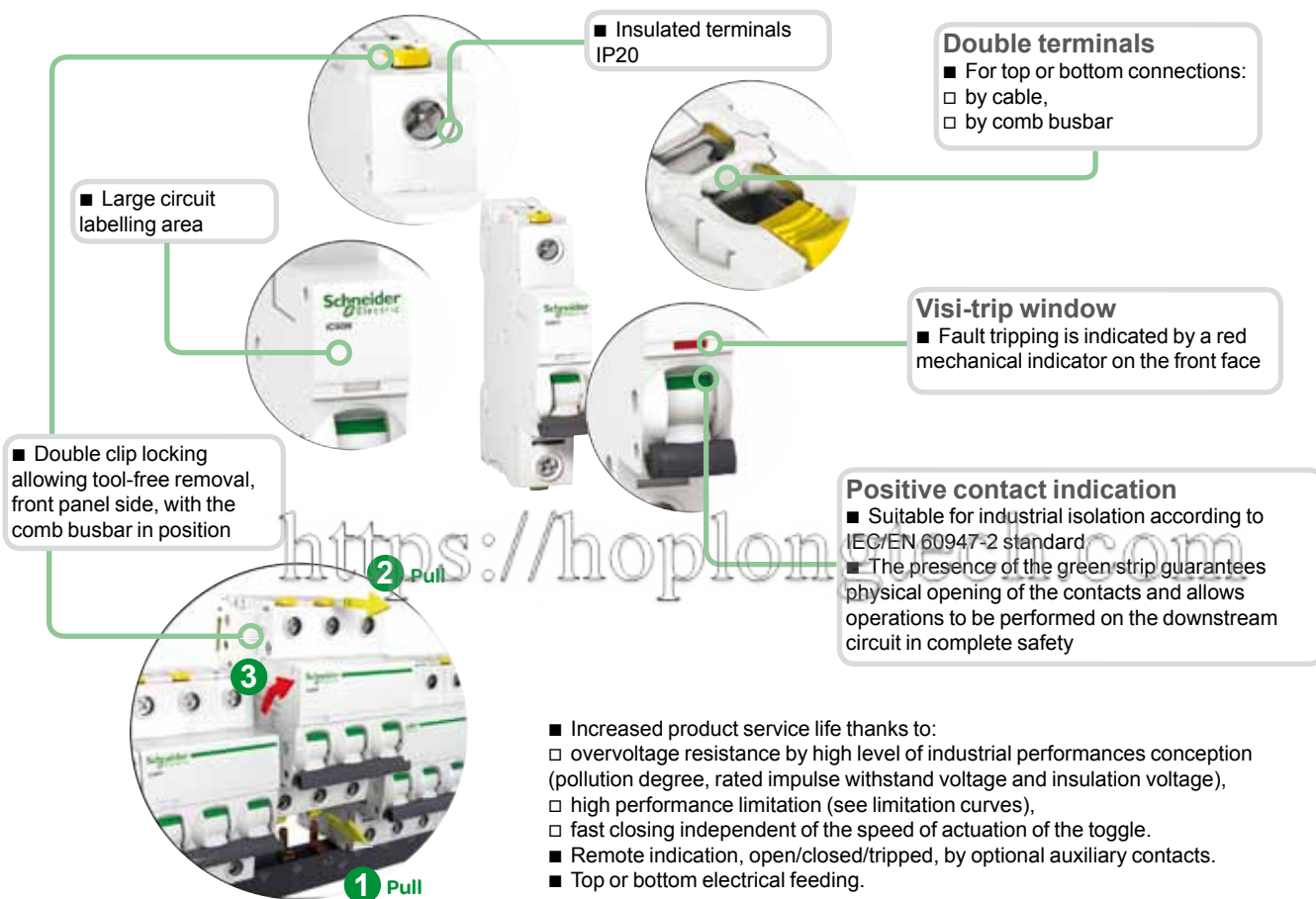
Breaking capacity (Icu) according to IEC/EN 60947-2						Service breaking capacity (Ics)
	Voltage (Ue)					
Between +/-	12 to 60 V	≤ 72 V	≤ 125 V	≤ 180 V	≤ 250 V	
Number of poles	1P		2P	3P	4P	
Rating (In) 1 to 63 A	20 kA	15 kA	15 kA	15 kA	15 kA	
						100 % of Icu

Catalogue numbers

iC60H double terminals circuit breaker

Type	1P	1P+N	2P
Auxiliaries	Remote tripping and indication, module CA907000 and CA907002	Remote tripping and indication, module CA907000 and CA907002	Remote tripping and indication, module CA907000 and CA907002
Vigi iC60	Vigi iC60 add-on residual current device, module CA902005	Vigi iC60 add-on residual current device, module CA902005	Vigi iC60 add-on residual current device, module CA902005
Rating (In)	Curve		
	B	C	D
0.5 A	-	A9F07170	A9F08170
1 A	-	A9F07101	A9F08101
2 A	-	A9F07102	A9F08102
3 A	-	A9F07103	A9F08103
4 A	-	A9F07104	A9F08104
6 A	A9F06106	A9F07106	A9F08106
10 A	A9F06110	A9F07110	A9F08110
13 A	A9F06113	A9F07113	A9F08113
16 A	A9F06116	A9F07116	A9F08116
20 A	A9F06120	A9F07120	A9F08120
25 A	A9F06125	A9F07125	A9F08125
32 A	A9F06132	A9F07132	A9F08132
40 A	A9F06140	A9F07140	A9F08140
50 A	A9F06150	A9F07150	A9F08150
63 A	A9F06163	A9F07163	A9F08163
Width in 9-mm modules	2	4	4
Accessories	Modules CA907000 and CA907001	Modules CA907000 and CA907001	Modules CA907000 and CA907001

iC60H double terminals circuit breakers (curve B, C, D) (cont.)



3P				4P			
Remote tripping and indication, module CA907000 and CA907002				Remote tripping and indication, module CA907000 and CA907002			
Vigi iC60 add-on residual current device, module CA902005				Vigi iC60 add-on residual current device, module CA902005			
Curve				Curve			
B	C	D		B	C	D	
-	A9F07370	A9F08370		-	A9F07470	A9F08470	
-	A9F07301	A9F08301		-	A9F07401	A9F08401	
-	A9F07302	A9F08302		-	A9F07402	A9F08402	
-	A9F07303	A9F08303		-	A9F07403	A9F08403	
-	A9F07304	A9F08304		-	A9F07404	A9F08404	
A9F06306	A9F07306	A9F08306		A9F06406	A9F07406	A9F08406	
A9F06310	A9F07310	A9F08310		A9F06410	A9F07410	A9F08410	
A9F06313	A9F07313	A9F08313		A9F06413	A9F07413	A9F08413	
A9F06316	A9F07316	A9F08316		A9F06416	A9F07416	A9F08416	
A9F06320	A9F07320	A9F08320		A9F06420	A9F07420	A9F08420	
A9F06325	A9F07325	A9F08325		A9F06425	A9F07425	A9F08425	
A9F06332	A9F07332	A9F08332		A9F06432	A9F07432	A9F08432	
A9F06340	A9F07340	A9F08340		A9F06440	A9F07440	A9F08440	
A9F06350	A9F07350	A9F08350		A9F06450	A9F07450	A9F08450	
A9F06363	A9F07363	A9F08363		A9F06463	A9F07463	A9F08463	
6				8			
Modules CA907000 and CA907001				Modules CA907000 and CA907001			

iC60H double terminals circuit breakers (curve B, C, D) (cont.)

Connection between double terminal circuit breakers

With comb busbar at the back/cables at the front

Without comb busbar at the back/cables at the front

DB404815



Rating	Tightening torque	Comb busbar	Copper cables	
		Thickness of the teeth	Rigid	Flexible or ferrule
			DB122945	DB122946
0.5 to 25 A	2 N.m	1.5 mm	1 to 25 mm ²	1 to 16 mm ²
32 to 63 A	3.5 N.m	1.5 mm	1 to 25 mm ²	1 to 25 mm ²

<https://hoplongtech.com>

Between double terminal circuit breakers and single-terminal circuit breakers

Cables at the back/comb busbar at the front

DB404817

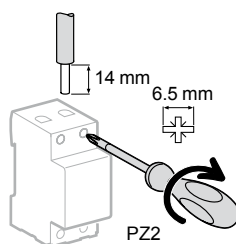


Rating	Tightening torque	Copper cables		Thickness of the teeth
		Rigid	Flexible or ferrule	
		DB122945	DB122946	
0.5 to 25 A	2 N.m	1 to 16 mm ²	1 to 10 mm ²	1.5 mm
32 to 63 A	3.5 N.m	1 to 16 mm ²	1 to 10 mm ²	1.5 mm

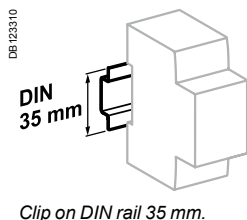
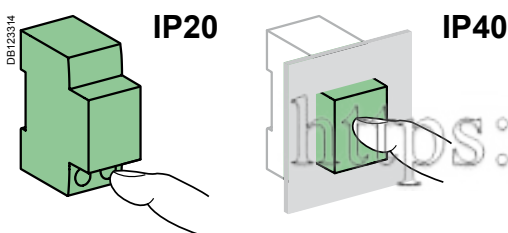
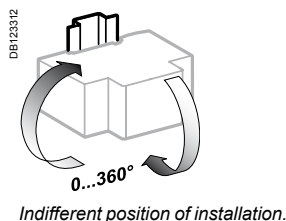
■ Connection by comb busbar or by cable (according to EN 50027).

Connection

DB123847



Rating	With accessories			
	50 mm ² Al terminal	Screw-on connection for ring terminal	Multi-cables terminal	
			Rigid cables	Flexible cables
	DB122935	DB118789	DB118787	
0.5 to 25 A	-	Ø 5 mm	-	-
32 to 63 A	50 mm ²		3 x 16 mm ²	3 x 10 mm ²



Technical data

Main characteristics

According to IEC/EN 60947-2

Insulation voltage (Ui)		500 V AC
Pollution degree		3
Rated impulse withstand voltage (Uimp)		6 kV
Thermal tripping	Reference temperature	50°C
	Temperature derating	See module CA908007
Magnetic tripping	B curve	4 In ± 20 %
	C curve	8 In ± 20 %
	D curve	12 In ± 20 %
Utilization category		A

According to IEC/EN 60898-1

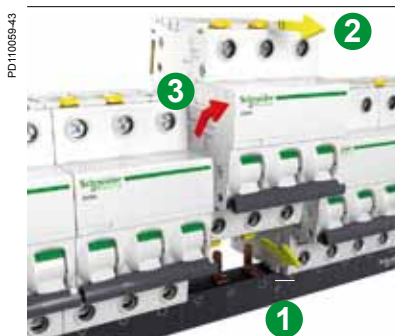
Limitation class	3
Rated making and breaking capacity of an individual pole (Icn1)	Icn1 = Icn

Additional characteristics

Degree of protection (IEC 60529)	Device only	IP20
	Device in modular enclosure	IP40
Endurance (O-C)	Electrical	10,000 cycles
	Mechanical	20,000 cycles
Overvoltage category (IEC 60364)	IV	
Operating temperature	-35°C to +70°C	
Storage temperature	-40°C to +85°C	
Tropicalization (IEC 60068-1)	Treatment 2 (relative humidity 95 % to 55°C)	

Disassembly double terminals iC60 circuit breaker with the comb busbar in position

Comb busbar downstream

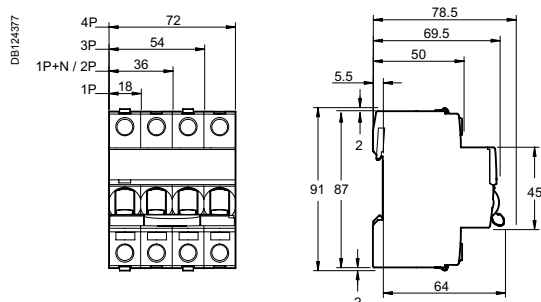


Comb busbar upstream



- 1- Pull lower "clip locking"
- 2- Pull upper "clip locking"
- 3- Remove the circuit breaker

Dimensions (mm)



Weight (g)

Circuit-breaker

Type	iC60H
1P	125
2P (1P+N)	250
3P	375
4P	500

iC60L circuit breakers (curve B, C, K, Z)



IEC/EN 60947-2

IEC/EN 60898-1 up to 40 A

■ iC60L circuit breakers are multi-standard circuit breakers which combine the following functions:

- circuit protection against short-circuit currents,
- circuit protection against overload currents,
- suitable for industrial isolation according to IEC/EN 60947-2, standard.
- fault tripping indication by a red mechanical indicator in circuit breaker front face.

Alternating current (AC) 50/60 Hz

Breaking capacity (Icu) according to IEC/EN 60947-2

	Voltage (Ue)					Service breaking capacity (Ics)
	Ph/Ph (2P, 3P, 4P)	12 to 133 V	220 to 240 V	380 to 415 V	440 V	
	Ph/N (1P)	12 to 60 V	100 to 133 V	220 to 240 V	-	
Rating (In)	0.5 to 4 A	100 kA	100 kA	100 kA	70 kA	100 % of Icu
	6 to 25 A	70 kA	50 kA	25 kA	20 kA	50 % of Icu ⁽¹⁾
	32 / 40 A	70 kA	36 kA	20 kA	15 kA	50 % of Icu
	50 / 63 A	70 kA	30 kA	15 kA	10 kA	50 % of Icu

Breaking capacity (Icn) according to IEC/EN 60898-1

Voltage (Ue)	
Ph/Ph	400 V
Ph/N	230 V
Rating (In)	0.5 to 40 A 15000 A

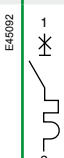
Direct current (DC)

Breaking capacity (Icu) according to IEC/EN 60947-2

	Voltage (Ue)					breaking capacity (Ics)
Between +/-	12 to 60 V	≤ 72 V	≤ 125 V	≤ 180 V	≤ 250 V	
Number of poles	1P		2P	3P	4P	
Rating (In) 1 to 63 A	25 kA	20 kA	20 kA	20 kA	20 kA	
						100 % of Icu

Catalogue numbers

iC60L circuit breaker

Type		1P				2P			
									
Auxiliaries		Remote tripping and indication, module CA907000 and CA907002				Remote tripping and indication, module CA907000 and CA907002			
Vigi iC60		Vigi iC60 add-on residual current device, module CA902005				Vigi iC60 add-on residual current device, module CA902005			
Rating (In)	Quality label ⁽²⁾	Curve				Curve			
		B	C	K	Z	B	C	K	Z
0.5 A		A9F93170	A9F94170	A9F95170	A9F92170	A9F93270	A9F94270	A9F95270	A9F92270
1 A		A9F93101	A9F94101	A9F95101	A9F92101	A9F93201	A9F94201	A9F95201	A9F92201
1.6 A		-	-	A9F95172	A9F92172	-	-	A9F95272	A9F92272
2 A		A9F93102	A9F94102	A9F95102	A9F92102	A9F93202	A9F94202	A9F95202	A9F92202
3 A		A9F93103	A9F94103	A9F95103	A9F92103	A9F93203	A9F94203	A9F95203	A9F92203
4 A		A9F93104	A9F94104	A9F95104	A9F92104	A9F93204	A9F94204	A9F95204	A9F92204
6 A		A9F93106	A9F94106	A9F95106	A9F92106	A9F93206	A9F94206	A9F95206	A9F92206
10 A		A9F93110	A9F94110	A9F95110	A9F92110	A9F93210	A9F94210	A9F95210	A9F92210
16 A		A9F93116	A9F94116	A9F95116	A9F92116	A9F93216	A9F94216	A9F95216	A9F92216
20 A		A9F93120	A9F94120	A9F95120	A9F92120	A9F93220	A9F94220	A9F95220	A9F92220
25 A		A9F93125	A9F94125	A9F95125	A9F92125	A9F93225	A9F94225	A9F95225	A9F92225
32 A		A9F93132	A9F94132	A9F95132	A9F92132	A9F93232	A9F94232	A9F95232	A9F92232
40 A		A9F93140	A9F94140	A9F95140	A9F92140	A9F93240	A9F94240	A9F95240	A9F92240
50 A		A9F93150	A9F94150	A9F95150 ⁽³⁾	A9F92150	A9F93250	A9F94250	A9F95250	A9F92250
63 A		A9F93163	A9F94163	A9F95163 ⁽³⁾	A9F92163	A9F93263	A9F94263	A9F95263	A9F92263
Width in 9-mm modules		2				4			
Accessories		Module CA907000 and CA907001				Module CA907000 and CA907001			

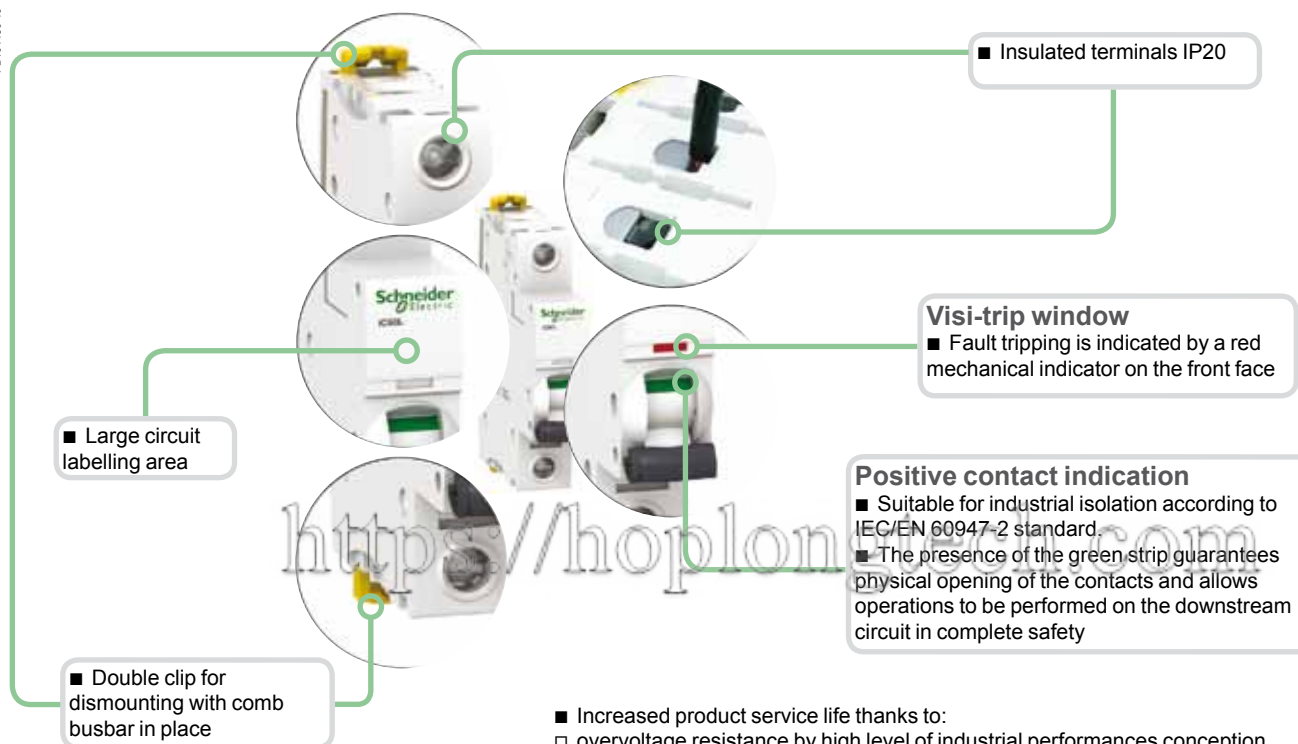
(1) 100 % of Icu for ratings 6 to 25 A under Ue 100 to 133 V AC Ph/Ph and Ue 12 to 60 V AC Ph/N.

(2) Information to be provided by the country.

(3) Without approval.

iC60L circuit breakers (curve B, C, K, Z) (cont.)

PS 104436-40

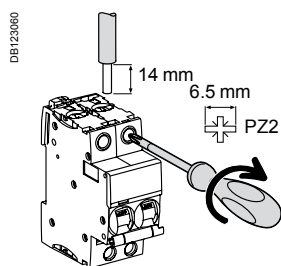


- Increased product service life thanks to:
 - overvoltage resistance by high level of industrial performances conception (pollution degree, rated impulse withstand voltage and insulation voltage),
 - high performance limitation (see limitation curves),
 - fast closing independent of the speed of actuation of the toggle.
- Remote indication, open/closed/tripped, by optional auxiliary contacts.
- Top or bottom electrical feeding.

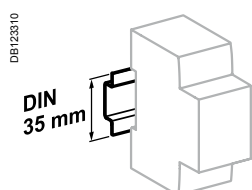
3P					4P				
Remote tripping and indication, module CA907000 and CA907002					Remote tripping and indication, module CA907000 and CA907002				
Vigi iC60 add-on residual current device, module CA902005					Vigi iC60 add-on residual current device, module CA902005				
Curve					Curve				
B	C	K	Z		B	C	K	Z	
A9F93370	A9F94370	A9F95370	A9F92370		A9F93470	A9F94470	A9F95470	A9F92470	
A9F93301	A9F94301	A9F95301	A9F92301		A9F93401	A9F94401	A9F95401	A9F92401	
-	-	A9F95372	A9F92372		-	-	A9F95472	A9F92472	
A9F93302	A9F94302	A9F95302	A9F92302		A9F93402	A9F94402	A9F95402	A9F92402	
A9F93303	A9F94303	A9F95303	A9F92303		A9F93403	A9F94403	A9F95403	A9F92403	
A9F93304	A9F94304	A9F95304	A9F92304		A9F93404	A9F94404	A9F95404	A9F92404	
A9F93306	A9F94306	A9F95306	A9F92306		A9F93406	A9F94406	A9F95406	A9F92406	
A9F93310	A9F94310	A9F95310	A9F92310		A9F93410	A9F94410	A9F95410	A9F92410	
A9F93316	A9F94316	A9F95316	A9F92316		A9F93416	A9F94416	A9F95416	A9F92416	
A9F93320	A9F94320	A9F95320	A9F92320		A9F93420	A9F94420	A9F95420	A9F92420	
A9F93325	A9F94325	A9F95325	A9F92325		A9F93425	A9F94425	A9F95425	A9F92425	
A9F93332	A9F94332	A9F95332	A9F92332		A9F93432	A9F94432	A9F95432	A9F92432	
A9F93340	A9F94340	A9F95340	A9F92340		A9F93440	A9F94440	A9F95440	A9F92440	
A9F93350	A9F94350	A9F95350	A9F92350		A9F93450	A9F94450	A9F95450	A9F92450	
A9F93363	A9F94363	A9F95363	A9F92363		A9F93463	A9F94463	A9F95463	A9F92463	
4					6				
Module CA907000 and CA907001					Module CA907000 and CA907001				

iC60L circuit breakers (curve B, C, K, Z) (cont.)

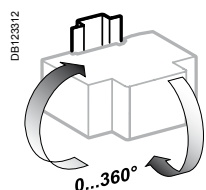
Connection



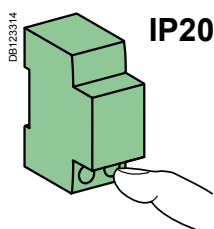
		Without accessory		With accessories			
Rating	Tightening torque	Copper cables		50 mm ² Al terminal	Screw-on connection for ring terminal	Multi-cables terminal	
		Rigid	Flexible or ferrule			Rigid cables	Flexible cables
		DB122945 	DB122946 	DB122935  Al	DB118789 	DB118787 	
0.5 to 25 A	2 N.m	1 to 25 mm ²	1 to 16 mm ²	-	Ø 5 mm	-	-
32 to 63 A	3.5 N.m	1 to 35 mm ²	1 to 25 mm ²	50 mm ²		3 x 16 mm ²	3 x 10 mm ²



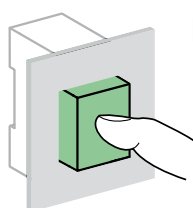
Clip on DIN rail 35 mm.



Indifferent position of installation.



IP20



IP40

Technical data

Main characteristics

According to IEC/EN 60947-2

Insulation voltage (U _i)		500 V AC
Pollution degree		3
Rated impulse withstand voltage (U _{imp})		6 kV
Thermal tripping	Reference temperature	50 °C
	Temperature derating	See module CA908007
Magnetic tripping	B curve	4 I _n ± 20 %
	C curve	8 I _n ± 20 %
	K curve	12 I _n ± 20 %
	Z curve	3 I _n ± 20 %
Utilization category		A

According to IEC/EN 60898-1

Rated making and breaking capacity of an individual pole (Icn1)	Icn1 = Icn
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Additional characteristics

Breaking capacity under 1 pole with IT 380-415 V isolated neutral system (case of double fault)	40 A	4 kA
	50/63 A	3 kA
Degree of protection (IEC 60529)	Device only	IP20
	Device in modular enclosure	IP40
		Insulation classe II
Endurance (O-C)	Electrical	10,000 cycles
	Mechanical	20,000 cycles
Overvoltage category (IEC 60364)	IV	
Operating temperature	-35°C to +70°C	
Storage temperature	-40°C to +85°C	
Tropicalization (IEC 60068-1)	Treatment 2 (relative humidity 95 % to 55°C)	

Weight (g)

Circuit-breaker	
Type	iC60L
1P	125
2P	250
3P	375
4P	500

Dimensions (mm)

