

Protection

Circuit protection

iK60N circuit breakers (curve C)

DB408121



Country approval pictogram

IEC/EN 60898-1



iK60N circuit breakers are circuit breakers which combine the following functions:

- circuit protection against short-circuit currents,
- circuit protection against overload currents,
- disconnection, opening and closing.

iK60N circuit breaker 50/60 Hz

Breaking capacity in short circuit (I_{cn}) as per IEC/EN 60898-1

| | |
|------------------------------------|--------|
| Ph/Ph | 400 V |
| Ph/N | 230 V |
| Rating (I _n) 6 to 63 A | 6000 A |

Service breaking capacity (I_{cs})
100 % of I_{cn}

Catalogue numbers

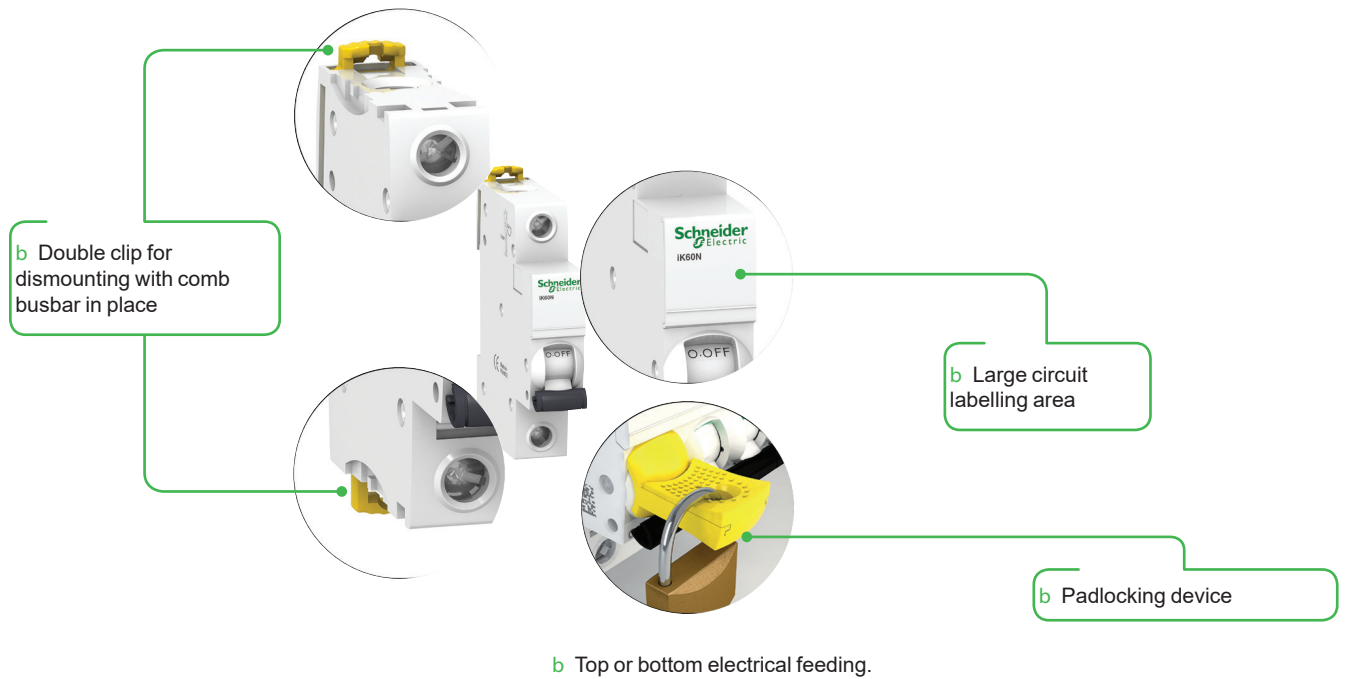
iK60N circuit breakers

| Type | 1P | 2P | 3P | 4P |
|-------------------------------|--|--------------|--------------|--------------|
| | | | | |
| Auxiliaries | Without auxiliaries | | | |
| Vigi iC60 | Without Vigi iC60 | | | |
| Rating (I_n) | Curve | Curve | Curve | Curve |
| | C | C | C | C |
| 1 A | A9K24101 | - | - | - |
| 2 A | A9K24102 | - | - | - |
| 3 A | A9K24103 | - | - | - |
| 4 A | A9K24104 | - | - | - |
| 6 A | A9K27106 | A9K27206 | A9K24306 | A9K24406 |
| 10 A | A9K27110 | A9K27210 | A9K24310 | A9K24410 |
| 16 A | A9K27116 | A9K27216 | A9K24316 | A9K24416 |
| 20 A | A9K27120 | A9K27220 | A9K24320 | A9K24420 |
| 25 A | A9K27125 | A9K27225 | A9K24325 | A9K24425 |
| 32 A | A9K27132 | A9K27232 | A9K24332 | A9K24432 |
| 40 A | A9K24140 | A9K24240 | A9K24340 | A9K24440 |
| Operating frequency | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz |
| Width in 9-mm modules | 2 | 4 | 6 | 8 |
| Accessories | Padlocking device cat. no. A9A26970 | | | |

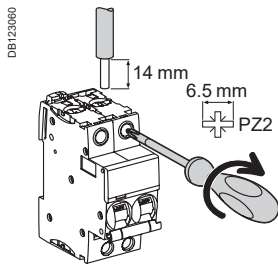
Protection



Circuit protection

iK60N circuit breakers (curve C) (cont.)



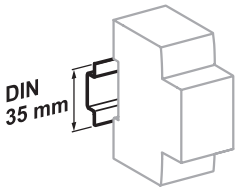
Connection



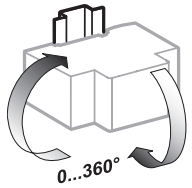
| Type | Rating | Tightening torque | Copper cables | |
|---------|------------|-------------------|---|---|
| | | | Rigid | Flexible or with ferrule |
| C curve | 1 to 32 A | 2 N.m |  |  |
| | 40 to 63 A | 3.5 N.m | 1 to 35 mm ² | 1 to 25 mm ² |

Protection
Circuit protection

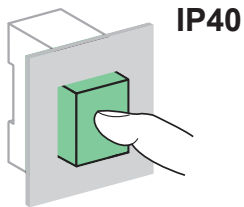
iK60N circuit breakers (curve C) (cont.)



Clip on DIN rail 35 mm.



Position d'installation indifférente.



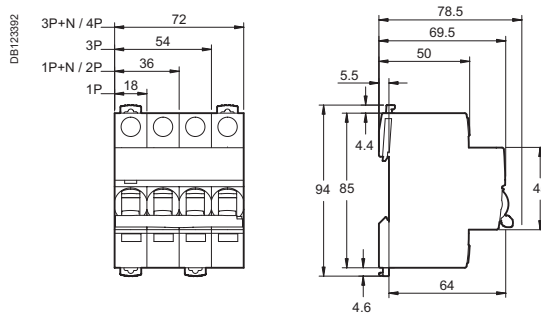
Technical data

| Main characteristics | | |
|--|-----------------------------|------------------------------------|
| According to IEC/EN 60898-1 | | |
| Insulation voltage (U _i) | | 440 V AC |
| Pollution degree | | 2 |
| Rated impulse withstand voltage (U _{imp}) | | 4 kV |
| Thermal tripping | Reference temperature | 30°C |
| | Temperature derating | See module CA908007 |
| Magnetic tripping | C curve | 5 to 10 I _n |
| Limitation class | | 3 |
| Rated making and breaking capacity of an individual pole (I _{cn1}) | | I _{cn1} = I _{cn} |
| Additional characteristics | | |
| Degree of protection (IEC 60529) | Device in modular enclosure | IP40 Insulation class II |
| Endurance (O-C) | Electrical | 10,000 cycles |
| | Mechanical | 20,000 cycles |
| Overvoltage category (IEC 60364) | | III |
| Operating temperature | | -25°C to +60°C |
| Storage temperature | | -40°C to +85°C |

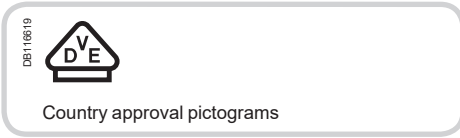
Weight (g)

| Circuit-breaker | |
|-----------------|-------|
| Type | iK60N |
| 1P | 100 |
| 2P (1P+N) | 200 |
| 3P | 300 |
| 4P (3P+N) | 400 |

Dimensions (mm)



iC60N circuit breakers (curve B, C, D)



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

iC60N 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 75 % 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 | 50 kA | 50 kA | 50 kA | | 25 kA |
| | 6 to 63 A | 36 kA | 20 kA | 10 kA | 6 kA | |

| 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 |
| | 6000 A |

Direct current (DC)

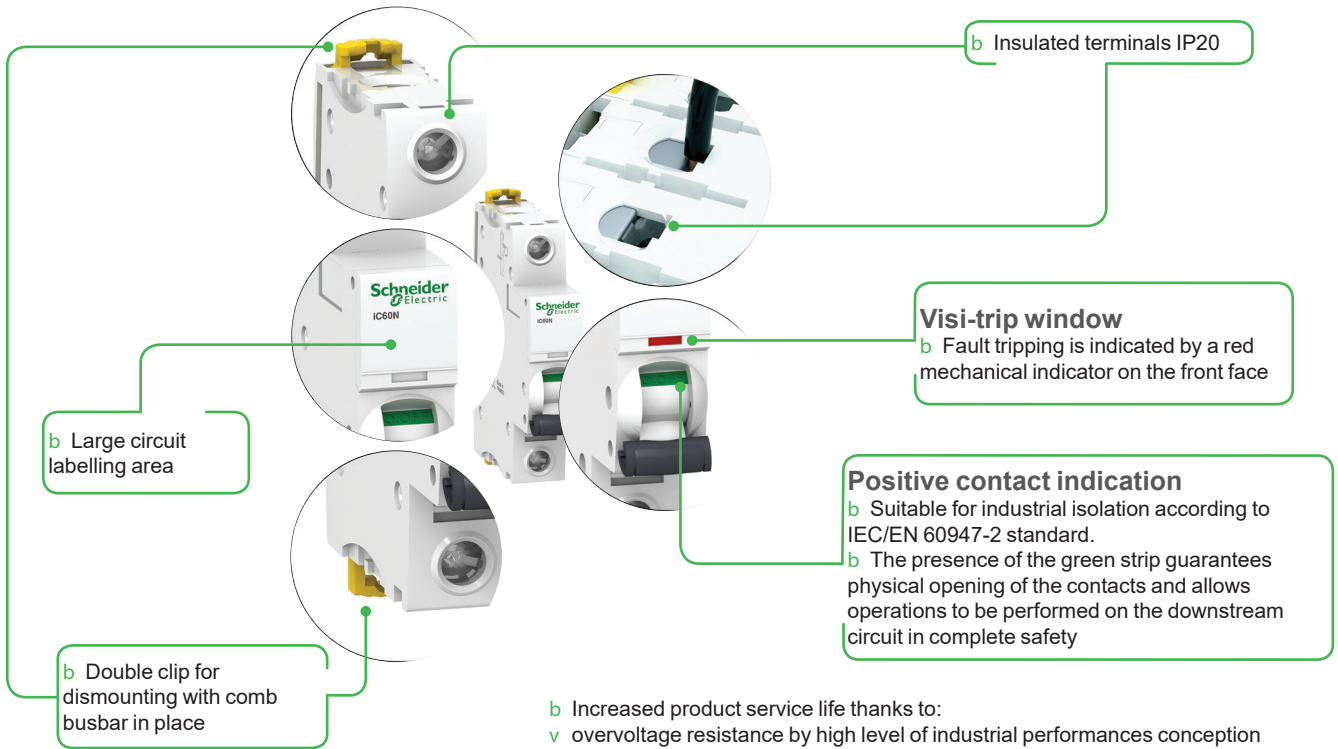
| Breaking capacity (Icu) according to IEC/EN 60947-2 | | | | | Service breaking capacity (Ics) |
|---|--------------|---------|----------|----------|---------------------------------|
| | Voltage (Ue) | | | | |
| Between +/- | 12 to 60 V | <= 72 V | <= 125 V | <= 180 V | <= 250 V |
| Number of poles | 1P | | 2P | 3P | 4P |
| Rating (In) | 0.5 to 63 A | 15 kA | 10 kA | 10 kA | 10 kA |
| | | | | | 100 % of Icu |

Catalogue numbers

iC60N 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 B C D | Curve B C D |
| 0.5 A | A9F73170 | A9F74170 |
| 1 A | A9F73101 | A9F74101 |
| 2 A | A9F73102 | A9F74102 |
| 3 A | A9F73103 | A9F74103 |
| 4 A | A9F73104 | A9F74104 |
| 6 A | A9F73106 | A9F74106 |
| 10 A | A9F73110 | A9F74110 |
| 13 A | A9F73113 | A9F74113 |
| 16 A | A9F73116 | A9F74116 |
| 20 A | A9F73120 | A9F74120 |
| 25 A | A9F73125 | A9F74125 |
| 32 A | A9F73132 | A9F74132 |
| 40 A | A9F73140 | A9F74140 |
| 50 A | A9F73150 | A9F74150 |
| 63 A | A9F73163 | A9F74163 |
| Width in 9-mm modules | 2 | 4 |
| Accessories | Module CA907000 and CA907001 | Module CA907000 and CA907001 |

iC60N circuit breakers (curve B, C, D) (cont.)



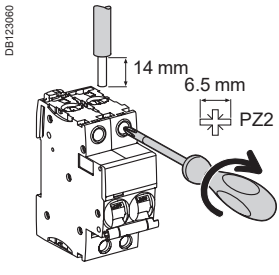
- b Increased product service life thanks to:
 - v overvoltage resistance by high level of industrial performances conception (pollution degree, rated impulse withstand voltage and insulation voltage),
 - v high performance limitation (see limitation curves),
 - v fast closing independent of the speed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

| 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 | | B | C | D | B | C | D |
| A9F73270 | A9F74270 | A9F75270 | | A9F73370 | A9F74370 | A9F75370 | A9F73470 | A9F74470 | A9F75470 |
| A9F73201 | A9F74201 | A9F75201 | | A9F73301 | A9F74301 | A9F75301 | A9F73401 | A9F74401 | A9F75401 |
| A9F73202 | A9F74202 | A9F75202 | | A9F73302 | A9F74302 | A9F75302 | A9F73402 | A9F74402 | A9F75402 |
| A9F73203 | A9F74203 | A9F75203 | | A9F73303 | A9F74303 | A9F75303 | A9F73403 | A9F74403 | A9F75403 |
| A9F73204 | A9F74204 | A9F75204 | | A9F73304 | A9F74304 | A9F75304 | A9F73404 | A9F74404 | A9F75404 |
| A9F73206 | A9F74206 | A9F75206 | | A9F73306 | A9F74306 | A9F75306 | A9F73406 | A9F74406 | A9F75406 |
| A9F73210 | A9F74210 | A9F75210 | | A9F73310 | A9F74310 | A9F75310 | A9F73410 | A9F74410 | A9F75410 |
| A9F73213 | A9F74213 | A9F75213 | | A9F73313 | A9F74313 | A9F75313 | A9F73413 | A9F74413 | A9F75413 |
| A9F73216 | A9F74216 | A9F75216 | | A9F73316 | A9F74316 | A9F75316 | A9F73416 | A9F74416 | A9F75416 |
| A9F73220 | A9F74220 | A9F75220 | | A9F73320 | A9F74320 | A9F75320 | A9F73420 | A9F74420 | A9F75420 |
| A9F73225 | A9F74225 | A9F75225 | | A9F73325 | A9F74325 | A9F75325 | A9F73425 | A9F74425 | A9F75425 |
| A9F73232 | A9F74232 | A9F75232 | | A9F73332 | A9F74332 | A9F75332 | A9F73432 | A9F74432 | A9F75432 |
| A9F73240 | A9F74240 | A9F75240 | | A9F73340 | A9F74340 | A9F75340 | A9F73440 | A9F74440 | A9F75440 |
| A9F73250 | A9F74250 | A9F75250 | | A9F73350 | A9F74350 | A9F75350 | A9F73450 | A9F74450 | A9F75450 |
| A9F73263 | A9F74263 | A9F75263 | | A9F73363 | A9F74363 | A9F75363 | A9F73463 | A9F74463 | A9F75463 |
| 4 | | | | 6 | | | 8 | | |
| Module CA907000 and CA907001 | | | | Module CA907000 and CA907001 | | | Module CA907000 and CA907001 | | |

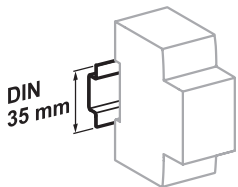
Protection Circuit protection

iC60N circuit breakers (curve B, C, D) (cont.)

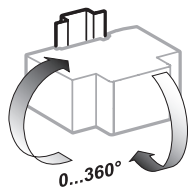
Connection



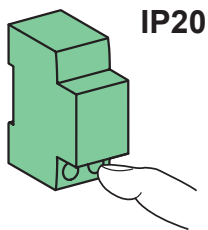
| Rating | Tightening torque | Without accessory | | With accessories | | |
|-------------|-------------------|-------------------------|--------------------------|--------------------------------|---------------------------------------|------------------------|
| | | Rigid | Flexible or with ferrule | 50 mm ² Al terminal | Screw-on connection for ring terminal | Multi-cables terminal |
| 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 |



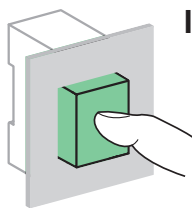
Clip on DIN rail 35 mm.



Indifferent position of installation.



IP20



IP40

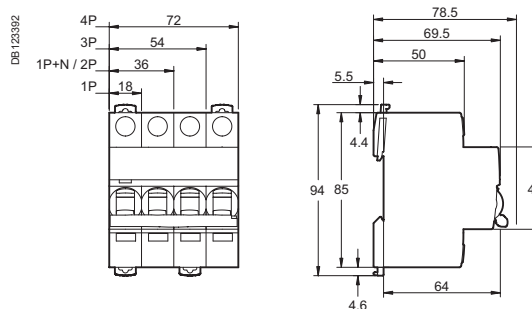
Technical data

| 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 % |
| | D curve | 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) |

Weight (g)

| Circuit-breaker | |
|-----------------|-------|
| Type | iC60N |
| 1P | 125 |
| 2P | 250 |
| 3P | 375 |
| 4P | 500 |

Dimensions (mm)

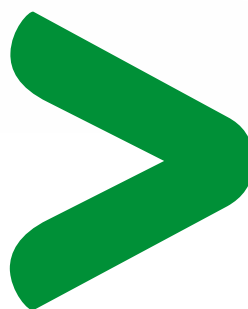


Low voltage

Acti 9

the efficiency you deserve

Catalogue
09/2013



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

CA901009E 1

Circuit protection

Choice of circuit protective devices

CA901011E 2

Circuit breaker panorama

CA901000E 4

Neutral breaking circuit breakers

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

CA901012E 14

Circuit breakers up to 63 A

iC60a

CA901010E 26

iC60N

CA901002E 31

iC60N double terminals

CA901019E 40

iC60H

CA901003E 45

iC60H double terminals

CA901020E 54

iC60L

CA901004E 58

iK60 (B curve)

CA901006E 61

iK60 (C curve)

CA901007E 64

iK60 Biconnect

CA901027E 70

Circuit breakers up to 125 A

C 120a, N, H (RSA)

CA901017E 73

C 120N

CA901015E 78

C 120H

CA901016E 82

High performance circuit breakers

NG125a

CM901027E 85

NG125N

CM901028E 89

NG125H

CM901029E 95

NG125L

CM901030E 99

Direct current circuit breakers

C60H-DC

CA901024E 105

C60PV-DC

CA901031E 108

C60NA-DC

CA901032E 112

SW60-DC

CA901030E 116

Motor protection circuit breakers

P25M

CM901026E 120

iC60LMA

CA901005E 125

NG125LMA

CM901031E 128

Fuses

STI

CM901033E 132

DO fuse disconnectors switches (projet Dido)

CA901035E 135

Fuse holder with indicator light SBI

CM901034E 137

Residual current devices

Choice of earth leakage protection devices

CA902000E 140

Overview of the earth leakage protection product range

CA902011E 142

Residual current circuit breakers

iID

CA902002E 145

iID double terminals

CA902018E 161

iID K

CA902007E 167

iID K biconnect

CA902027E 171

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

CA902012E 173

RCCB-ID 125 A

CM902001E 178

RCCB-ID type B

CM902002E 180

Add-on residual current devices for circuit breakers

Vigi iC60

CA902005E 182

Vigi iC60 double terminals

CA902019E 193

Vigi C120

CA902016E 199

Vigi NG125

CM902008E 204

Residual current devices

iDPN Vigi

CA902026E 214

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

CA902013E 217

DPNa Vigi, DPN N Vigi

CA902014E 227

DPN Vigi K

CA902032E 231

SPN N Vigi

CA902017E 233

DPN N Vigi

CA902037E 235

REDs, REDtest

CM902017E 237

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

Choice of surge arresters

CA903010E 244

iPRF1 - PRF1 - PRD1

CA903005E 248

iPF

CA903001E 254

iPRD Acti 9

CA903008E 258

iPRD (white product)

CA903002E 264

iQuick PRD

CA903003E 268

iQuick PF

CA903004E 271

Surge arresters for telephon and informatic networks

iPRC/iPRI

CA903006E 273

Surge arresters for photovoltaic installations

iPRD-DC PV (white product)

CA903007E 275

iPRD-PV-DC

CA903009E 278

Disconnection**Switch-disconnectors**

iSW Acti 9

CA904027E 282

SW Biconnect switches

CA904030E 288

Trip switch-disconnectors

iSW-NA

CA904013E 290

NG125NA

CM901035E 292

Install, connection, power distribution

Accessorisation/Auxiliarisation

| | | |
|--|-----------|-----|
| Accessories / Auxiliarisation iC60, iID, iSW-NA, Reflex iC60, RCA, ARA | CA907000E | 298 |
| Accessories and auxiliaries for C120, Vigi C120, DPN, C60H-DC devices | CA907013E | 305 |
| Accessories and auxiliaries for NG125 devices | CM907004E | 311 |

Circuit breakers and residual current devices accessories

| | | |
|--|-----------|-----|
| Accessories for iC60, iID, iSW-NA, Reflex iC60, RCA, ARA | CA907001E | 312 |
| Accessories for DT60 | CA907011E | 318 |
| Accessories for C120, DPN, DPN Vigi, C60H-DC devices | CA907012E | 320 |
| Accessories for NG125 devices | CM907006E | 324 |

Comb busbar and devices feeders

| | | |
|--|-----------|-----|
| Lineryg FH et FV: Horizontal and vertical comb busbars | LIN001 | 326 |
| Lineryg DX : Quick distribution blocks | LIN003 | 334 |
| Lineryg FM: Quick device feeders | LIN022 | 336 |
| Lineryg DS: Devices feeders | CA907023E | 338 |

Supervision and switchboard control

Acti 9 control system

| | | |
|------------------|-----------|-----|
| Smartlink Acti 9 | CA907019E | 341 |
|------------------|-----------|-----|

Monitoring and control of protections

Indication and tripping

| | | |
|---|-----------|-----|
| Electrical auxiliaries for iC60, iID, iSW-NA, RCA, ARA | CA907002E | 347 |
| Electrical auxiliaries for C120, DPN, DPN Vigi, ID, C60H-DC devices | CA907008E | 355 |
| Electrical auxiliaries for NG125 devices | CM907005E | 361 |

Remote control

| | | |
|---|-----------|-----|
| RCA remote controls for iC60 circuit breakers | CA904011E | 365 |
|---|-----------|-----|

Automatic reclosers

| | | |
|--|-----------|-----|
| ARA automatic reclosers for iC60 and iID | CA904010E | 370 |
|--|-----------|-----|

Electrical circuit control

Manual control

| | | |
|--|-----------|-----|
| iPB pushbuttons | CA904003E | 375 |
| iSSW linear switches | CA904004E | 376 |
| DIN rail selector switches iCMB, iCMD, iCME, iCMC, iCMV and iCMA | CA904024E | 378 |
| Button holders | CA907007E | 381 |

Electrical control

| | | |
|---|-----------|-----|
| Reflex iC60 integrated control circuit breakers | CA904012E | 382 |
| iCT contactors | CA904007E | 387 |
| iTL impulse relays | CA904008E | 404 |
| TL impulse relays (Clario, Libro, Prodis) | CA904020E | 417 |
| CT contactors (Clario, Libro, Prodis) | CA904021E | 423 |
| TL+ impulse relays | CA904018E | 429 |
| CT+ contactors | CA904019E | 431 |

Indication

Indicators

| | | |
|---------------------------|-----------|-----|
| iLL indicator lights | CA904006E | 433 |
| iSO bells and iRO buzzers | CA904014E | 434 |
| iTR transformers | CA904015E | 435 |

Lighting, time and energy management

| | | |
|---|-----------|-----|
| Relays iRTA, iRTB, iRTC, iRTH, iRTL, iRTMF, iRBN, iRTBT, iRLI, iERL, iRCP, iRCI, iRCU, iRCC | CA904022E | 438 |
| CDS load-shedding | CA904023E | 447 |
| Modular iPC power sockets | CA904017E | 453 |
| Kilowatt-hour meters iEM, iME | CA904009E | 456 |

Complementary technical information

| | | |
|--|-----------|-----|
| 400 Hz network | CA908005E | 460 |
| Influence of ambient temperature | CA908007E | 462 |
| Dissipated power, Impedance and Voltage drop | CA908009E | 470 |
| Resistance to environmental conditions | CA908027E | 472 |

Circuit protections

| | | |
|--------------------------------|-----------|-----|
| Tripping curves | CA908024E | 474 |
| Short-circuit current limiting | CA908025E | 483 |
| Cascading | 557E4200 | 501 |
| Protection discrimination | 557E4300 | 539 |

| | | |
|--|-----------|-----|
| | 557E4305 | 546 |
| | 557E4310 | 580 |
| | 557E4330 | 587 |
| Circuit breakers for direct current applications | CA908036E | 607 |
| Direct current distribution | CA908032E | 609 |
| | CA908006E | 627 |

Motor protections

| | | |
|--|-----------|-----|
| Motor circuit protection and contactor combination | CA908022E | 653 |
|--|-----------|-----|

Photovoltaic

| | | |
|--|-----------|-----|
| Examples of installation architectures | CA908035E | 654 |
|--|-----------|-----|

Acti 9 Smartlink

| | | |
|-------------------------------|-----------|-----|
| Acti 9 Smartlink installation | CA908033E | 660 |
|-------------------------------|-----------|-----|

Earth leakage protections

| | | |
|--|-----------|-----|
| Routine operating checks | CA908012E | 663 |
| Response time of high-sensitivity residual current devices | CA908013E | 666 |
| Response time of medium-sensitivity residual current devices | CA908018E | 667 |
| Electrical and electromagnetic interference | CA908015E | 671 |
| Co-ordination | CA908023E | 674 |
| DCP Vigi RCBO | CM902006E | 681 |

Fuses

| | | |
|----------------|-----------|-----|
| SBI/STI curves | CM908003E | 691 |
|----------------|-----------|-----|

Impulse relays, contactors

| | | |
|--|-----------|-----|
| iTL impulse relays and iCT contactors, choice of rating according to load type | CA908026E | 695 |
|--|-----------|-----|

Auxiliaries

| | | |
|---|-----------|-----|
| Auxiliary indicating contacts for Acti 9 protective devices | CA908028E | 700 |
| Auxiliary trip units for Acti 9 protective devices | CA908029E | 703 |
| Combination electrical auxiliaries for iC60, iID, iSW-NA, ARA and RCA | CA908030E | 710 |

Twilight and time switches, timers, thermostats

| | | |
|----------------------------------|------------|-----|
| IC twilight switches | LSB02323EN | 712 |
| IHP, ITM time switches | LSB02322EN | 720 |
| MIN timers | LSB02321EN | 735 |
| STD, STU dimmers | LSB02325EN | 739 |
| TH4, TH7, THP1, THP2 thermostats | LSB02324EN | 744 |

iID, iC60, Vigi iC60, Reflex iC60, switches

A9 R 15 2 63

| Range | Family | Code | Internal code | Poles | Code | Rating (A) | Code |
|-------------|-----------------------------|------|---------------|-----------|----------|------------|-----------|
| Acti 9 (A9) | iID | R | | 0 | 0 | 0 | 00 |
| | Vigi iC60 | V | | 1P | 1 | 0.5 | 70 |
| | iC60 | F | | 2P | 2 | 0.75 | 71 |
| | iK60 | K | | 3P | 3 | 1 | 01 |
| | Auxiliaries and accessories | A | | 4P | 4 | 1.6 | 72 |
| | Switches | S | | 1N | 5 | 2 | 02 |
| | Reflex iC60 | C | | 1P+N | 6 | 2.5 | 73 |
| | | | | 3P+N | 7 | 3 | 03 |
| | | | | | | 4 | 04 |
| | | | | | | 6 | 06 |
| | | | | | | 6.3 | 76 |
| | | | | | | 8 | 08 |
| | | | | | | 10 | 10 |
| | | | | | | 12.5 | 82 |
| | | | | | | 13 | 13 |
| | | | | | | 16 | 16 |
| | | | | | | 20 | 20 |
| | | | | | | 25 | 25 |
| | | | | | | 32 | 32 |
| | | | | | | 40 | 40 |
| | | | | | | 50 | 50 |
| | | | | | | 63 | 63 |
| | | | | | | 80 | 80 |
| | | | | | | 100 | 91 |
| | | | | | | 125 | 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 | Number of 18 mm modules (approximately) | |
| | | | Pin teeth | P | | | 2P | 2 | Accessories | |
| | | | Auxiliarisable | A | | | 3P | | | Number of pieces per cat. no. |
| | | | Accessories | | | | 4P | | | |
| | | | 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 | | | | | | |



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).

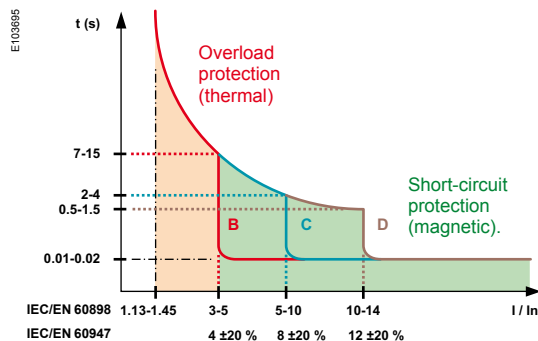
Choice of rating

- 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:

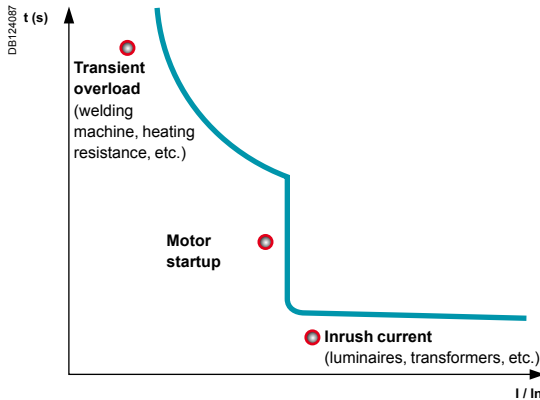
- the inrush current at power up
- the overload current.



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

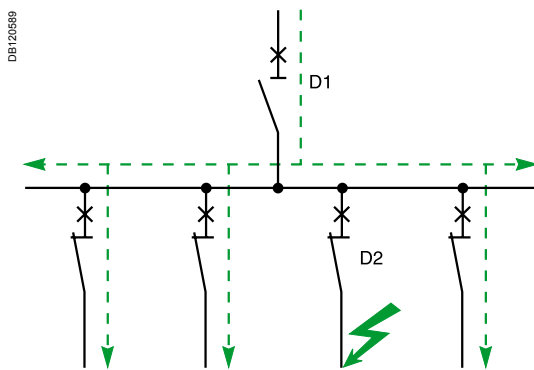
For all values of the fault, from overload to non-resistive short circuit, distribution is fully discriminating if D2 opens and if D1 remains closed.

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..



Circuit disconnection

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.

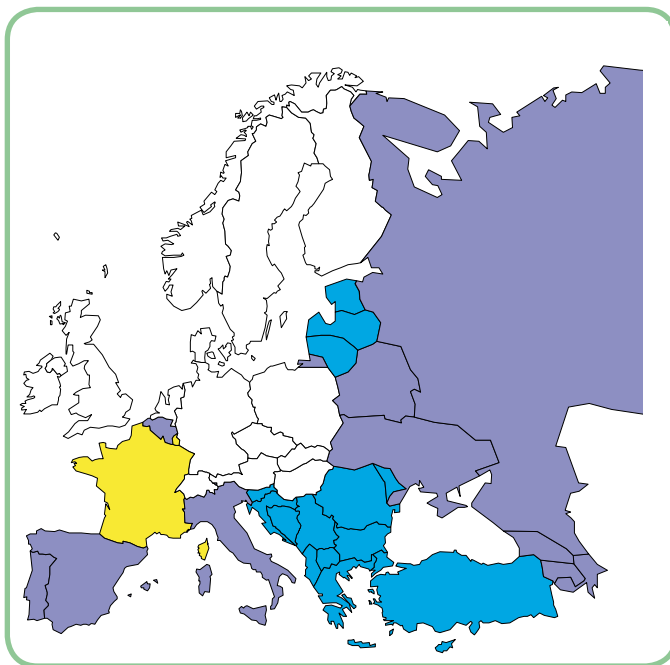


Schneider Electric's range of circuit breakers consists of different products (A, B, C) to enable it to be the most competitive range possible in each country, allowing for the special characteristics of each market:

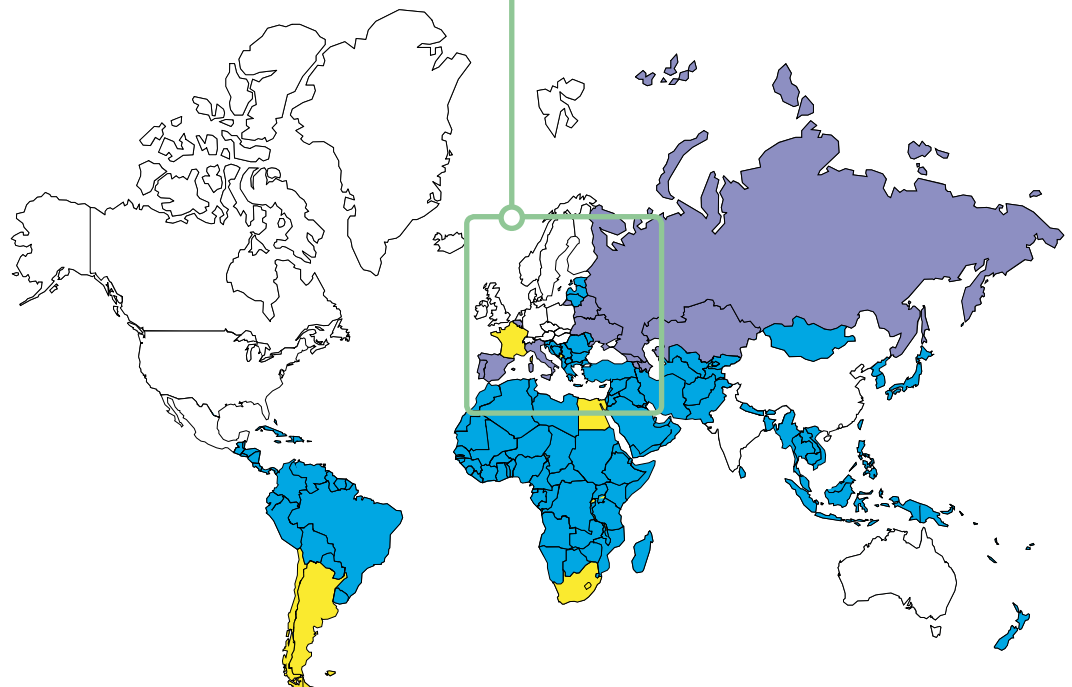
- usual installation procedure
- price
- accreditations by local bodies.

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 | | |
| 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 |

Catalogue numbers

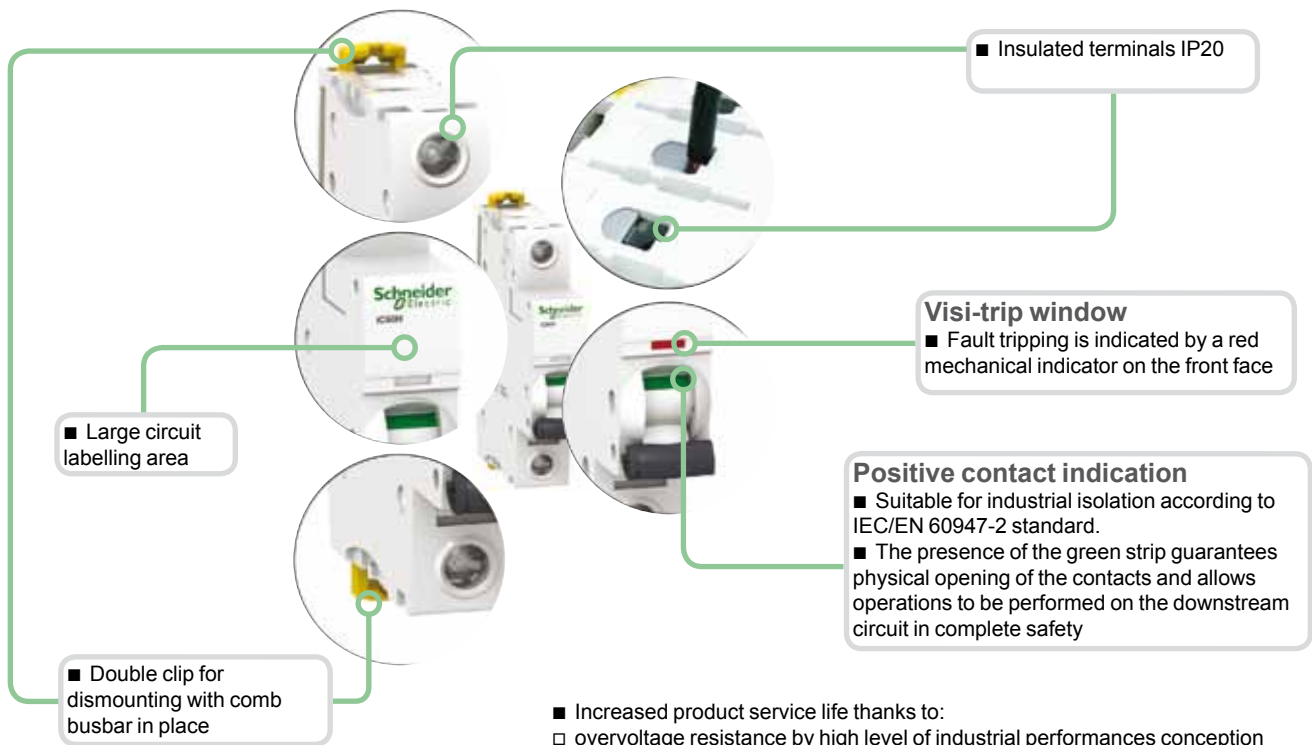
iC60H circuit breaker

| 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 | 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.)

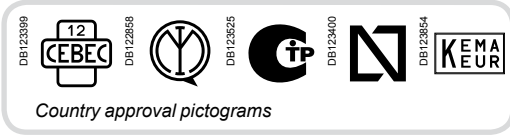
PB104495-40



- 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.

| 2P | | | 3P | | | 4P | | | |
|--|------------------------------|----------|--|------------------------------|----------|--|------------------------------|----------|------------------|
| E-6094 | | | E-6095 | | | E-6097 | | | |
| | | | | | | | | | |
| 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 |
| | A9F86206 | A9F87206 | A9F85206 | A9F86306 | A9F87306 | A9F85306 | A9F86406 | A9F87406 | A9F85406 |
| | A9F86210 | A9F87210 | A9F85210 | A9F86310 | A9F87310 | A9F85310 | A9F86410 | A9F87410 | A9F85410 |
| | A9F83213 | A9F84213 | A9F85213 | A9F83313 | A9F84313 | A9F85313 | A9F83413 | A9F84413 | A9F85413 |
| | A9F86216 | A9F87216 | A9F85216 | A9F86316 | A9F87316 | A9F85316 | A9F86416 | A9F87416 | A9F85416 |
| | A9F86220 | A9F87220 | A9F85220 | A9F86320 | A9F87320 | A9F85320 | A9F86420 | A9F87420 | A9F85420 |
| | A9F86225 | A9F87225 | A9F85225 | A9F86325 | A9F87325 | A9F85325 | A9F86425 | A9F87425 | A9F85425 |
| | A9F86232 | A9F87232 | A9F85232 | A9F86332 | A9F87332 | A9F85332 | A9F86432 | A9F87432 | A9F85432 |
| | A9F86240 | A9F87240 | A9F85240 | A9F86340 | A9F87340 | A9F85340 | A9F86440 | A9F87440 | A9F85440 |
| | A9F86250 | A9F87250 | A9F85250 | A9F86350 | A9F87350 | A9F85350 | A9F86450 | A9F87450 | A9F85450 |
| | A9F86263 | A9F87263 | A9F85263 | A9F86363 | A9F87363 | A9F85363 | A9F86463 | A9F87463 | A9F85463 |
| 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 | | | | | | 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 | 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) | | | | | |
| 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 | 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

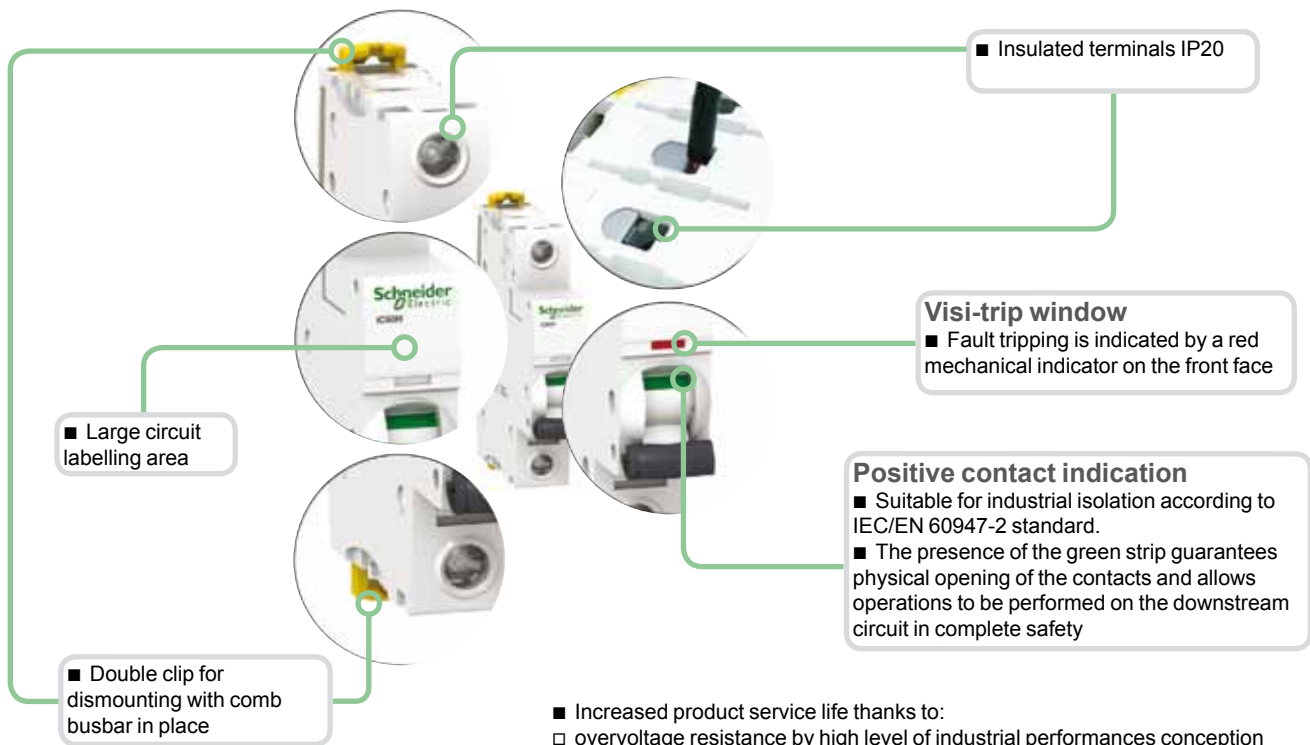
iC60H circuit breaker

| 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) | <table border="1"> <thead> <tr> <th>Curve</th> <th>B</th> <th>C</th> <th>D⁽¹⁾</th> </tr> </thead> <tbody> <tr><td>0.5 A⁽¹⁾</td><td>A9F83170</td><td>A9F84170</td><td>A9F85170</td></tr> <tr><td>1 A⁽¹⁾</td><td>A9F83101</td><td>A9F84101</td><td>A9F85101</td></tr> <tr><td>2 A⁽¹⁾</td><td>A9F83102</td><td>A9F84102</td><td>A9F85102</td></tr> <tr><td>3 A⁽¹⁾</td><td>A9F83103</td><td>A9F84103</td><td>A9F85103</td></tr> <tr><td>4 A⁽¹⁾</td><td>A9F83104</td><td>A9F84104</td><td>A9F85104</td></tr> <tr><td>6 A</td><td>A9F88106</td><td>A9F89106</td><td>A9F85106</td></tr> <tr><td>10 A</td><td>A9F88110</td><td>A9F89110</td><td>A9F85110</td></tr> <tr><td>13 A⁽¹⁾</td><td>A9F83113</td><td>A9F84113</td><td>A9F85113</td></tr> <tr><td>16 A</td><td>A9F88116</td><td>A9F89116</td><td>A9F85116</td></tr> <tr><td>20 A</td><td>A9F88120</td><td>A9F89120</td><td>A9F85120</td></tr> <tr><td>25 A</td><td>A9F88125</td><td>A9F89125</td><td>A9F85125</td></tr> <tr><td>32 A</td><td>A9F88132</td><td>A9F89132</td><td>A9F85132</td></tr> <tr><td>40 A</td><td>A9F88140</td><td>A9F89140</td><td>A9F85140</td></tr> <tr><td>50 A</td><td>A9F88150</td><td>A9F89150</td><td>A9F85150</td></tr> <tr><td>63 A</td><td>A9F88163</td><td>A9F89163</td><td>A9F85163</td></tr> </tbody> </table> | | | Curve | B | C | D ⁽¹⁾ | 0.5 A ⁽¹⁾ | A9F83170 | A9F84170 | A9F85170 | 1 A ⁽¹⁾ | A9F83101 | A9F84101 | A9F85101 | 2 A ⁽¹⁾ | A9F83102 | A9F84102 | A9F85102 | 3 A ⁽¹⁾ | A9F83103 | A9F84103 | A9F85103 | 4 A ⁽¹⁾ | A9F83104 | A9F84104 | A9F85104 | 6 A | A9F88106 | A9F89106 | A9F85106 | 10 A | A9F88110 | A9F89110 | A9F85110 | 13 A ⁽¹⁾ | A9F83113 | A9F84113 | A9F85113 | 16 A | A9F88116 | A9F89116 | A9F85116 | 20 A | A9F88120 | A9F89120 | A9F85120 | 25 A | A9F88125 | A9F89125 | A9F85125 | 32 A | A9F88132 | A9F89132 | A9F85132 | 40 A | A9F88140 | A9F89140 | A9F85140 | 50 A | A9F88150 | A9F89150 | A9F85150 | 63 A | A9F88163 | A9F89163 | A9F85163 | <table border="1"> <thead> <tr> <th>Curve</th> <th>B</th> <th>C</th> <th>D⁽¹⁾</th> </tr> </thead> <tbody> <tr><td>0.5 A⁽¹⁾</td><td>A9F83670</td><td>A9F84670</td><td>A9F85670</td></tr> <tr><td>1 A⁽¹⁾</td><td>A9F83601</td><td>A9F84601</td><td>A9F85601</td></tr> <tr><td>2 A⁽¹⁾</td><td>A9F83602</td><td>A9F84602</td><td>A9F85602</td></tr> <tr><td>3 A⁽¹⁾</td><td>A9F83603</td><td>A9F84603</td><td>A9F85603</td></tr> <tr><td>4 A⁽¹⁾</td><td>A9F83604</td><td>A9F84604</td><td>A9F85604</td></tr> <tr><td>6 A</td><td>A9F88606</td><td>A9F89606</td><td>A9F85606</td></tr> <tr><td>10 A</td><td>A9F88610</td><td>A9F89610</td><td>A9F85610</td></tr> <tr><td>13 A⁽¹⁾</td><td>A9F83613</td><td>A9F84613</td><td>A9F85613</td></tr> <tr><td>16 A</td><td>A9F88616</td><td>A9F89616</td><td>A9F85616</td></tr> <tr><td>20 A</td><td>A9F88620</td><td>A9F89620</td><td>A9F85620</td></tr> <tr><td>25 A</td><td>A9F88625</td><td>A9F89625</td><td>A9F85625</td></tr> <tr><td>32 A</td><td>A9F88632</td><td>A9F89632</td><td>A9F85632</td></tr> <tr><td>40 A</td><td>A9F88640</td><td>A9F89640</td><td>A9F85640</td></tr> <tr><td>50 A</td><td>A9F88650</td><td>A9F89650</td><td>A9F85650</td></tr> <tr><td>63 A</td><td>A9F88663</td><td>A9F89663</td><td>A9F85663</td></tr> </tbody> </table> | | | Curve | B | C | D ⁽¹⁾ | 0.5 A ⁽¹⁾ | A9F83670 | A9F84670 | A9F85670 | 1 A ⁽¹⁾ | A9F83601 | A9F84601 | A9F85601 | 2 A ⁽¹⁾ | A9F83602 | A9F84602 | A9F85602 | 3 A ⁽¹⁾ | A9F83603 | A9F84603 | A9F85603 | 4 A ⁽¹⁾ | A9F83604 | A9F84604 | A9F85604 | 6 A | A9F88606 | A9F89606 | A9F85606 | 10 A | A9F88610 | A9F89610 | A9F85610 | 13 A ⁽¹⁾ | A9F83613 | A9F84613 | A9F85613 | 16 A | A9F88616 | A9F89616 | A9F85616 | 20 A | A9F88620 | A9F89620 | A9F85620 | 25 A | A9F88625 | A9F89625 | A9F85625 | 32 A | A9F88632 | A9F89632 | A9F85632 | 40 A | A9F88640 | A9F89640 | A9F85640 | 50 A | A9F88650 | A9F89650 | A9F85650 | 63 A | A9F88663 | A9F89663 | A9F85663 |
| Curve | B | C | D ⁽¹⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 A ⁽¹⁾ | A9F83170 | A9F84170 | A9F85170 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 A ⁽¹⁾ | A9F83101 | A9F84101 | A9F85101 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 A ⁽¹⁾ | A9F83102 | A9F84102 | A9F85102 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 A ⁽¹⁾ | A9F83103 | A9F84103 | A9F85103 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 A ⁽¹⁾ | A9F83104 | A9F84104 | A9F85104 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 A | A9F88106 | A9F89106 | A9F85106 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 A | A9F88110 | A9F89110 | A9F85110 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 A ⁽¹⁾ | A9F83113 | A9F84113 | A9F85113 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 A | A9F88116 | A9F89116 | A9F85116 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 A | A9F88120 | A9F89120 | A9F85120 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 A | A9F88125 | A9F89125 | A9F85125 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 A | A9F88132 | A9F89132 | A9F85132 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 A | A9F88140 | A9F89140 | A9F85140 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 A | A9F88150 | A9F89150 | A9F85150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 63 A | A9F88163 | A9F89163 | A9F85163 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Curve | B | C | D ⁽¹⁾ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 A ⁽¹⁾ | A9F83670 | A9F84670 | A9F85670 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 A ⁽¹⁾ | A9F83601 | A9F84601 | A9F85601 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 A ⁽¹⁾ | A9F83602 | A9F84602 | A9F85602 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 A ⁽¹⁾ | A9F83603 | A9F84603 | A9F85603 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 A ⁽¹⁾ | A9F83604 | A9F84604 | A9F85604 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 A | A9F88606 | A9F89606 | A9F85606 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 A | A9F88610 | A9F89610 | A9F85610 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 A ⁽¹⁾ | A9F83613 | A9F84613 | A9F85613 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 A | A9F88616 | A9F89616 | A9F85616 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 A | A9F88620 | A9F89620 | A9F85620 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 A | A9F88625 | A9F89625 | A9F85625 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 A | A9F88632 | A9F89632 | A9F85632 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 A | A9F88640 | A9F89640 | A9F85640 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 A | A9F88650 | A9F89650 | A9F85650 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 63 A | 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.)

PB104495-40



- 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.

| 2P | | | 3P | | | 4P | | |
|--|----------|------------------|--|----------|------------------|--|----------|------------------|
| E-46094 | | | E-46095 | | | E-46097 | | |
| | | | | | | | | |
| 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 | | | | | 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 | 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) |
| 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 | 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 | |

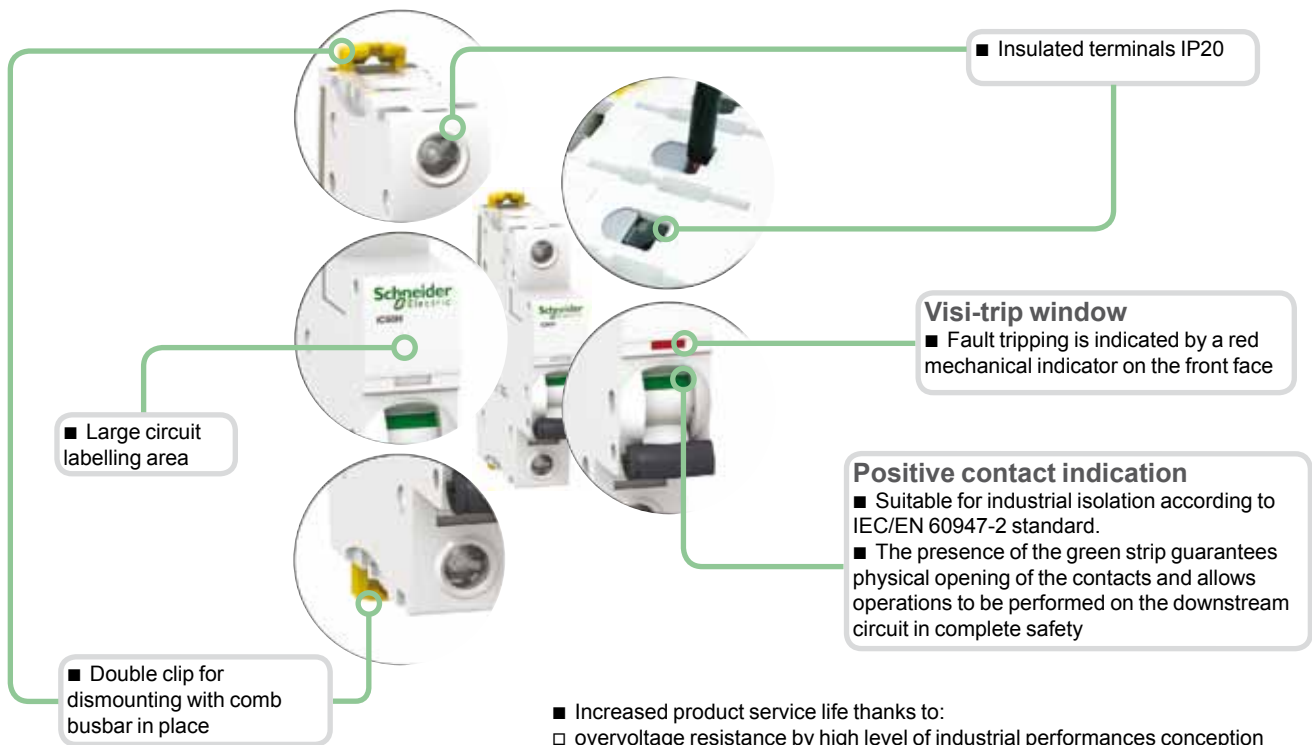
Catalogue numbers

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.)

PB104495-40

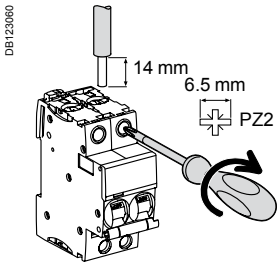


- Increased product service life thanks to:
 - overvoltage resistance by high level of industrial performances conception (pollution degree, rated impulse withstand voltage and insulation voltage),
 - high performance limitation (see limitation curves),
 - fast closing independent of the speed of actuation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

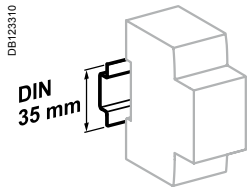
| 2P | | | 3P | | | 4P | | |
|--|----------|----------|--|----------|----------|--|----------|----------|
| E46004 | | | E46006 | | | E46007 | | |
| | | | | | | | | |
| Remote tripping and indication, module CA907000 and CA907002 | | | Remote tripping and indication, module CA907000 and CA907002 | | | 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 | B | C | D | B | C | 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.)

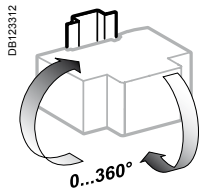
Connection



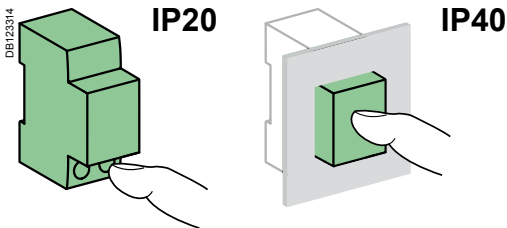
| Rating | Tightening torque | Without accessory | | With accessories | | |
|-------------|-------------------|-------------------------|-------------------------|--------------------------------|---------------------------------------|------------------------|
| | | Rigid | Flexible or ferrule | 50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



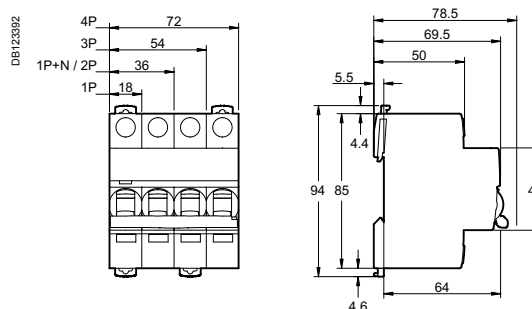
Technical data

| 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 % |
| | D curve | 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) |

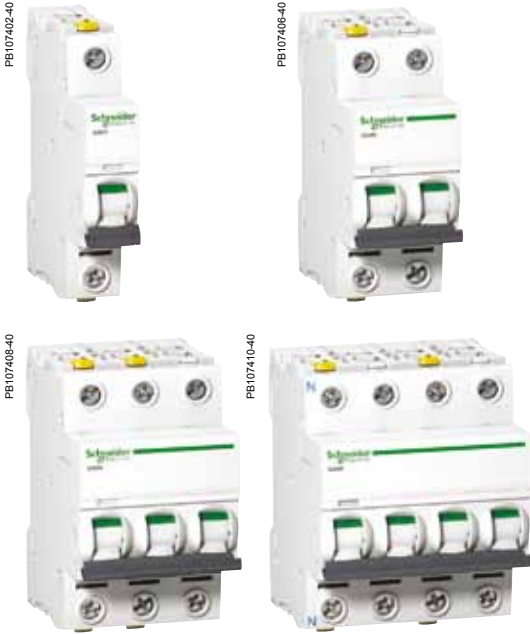
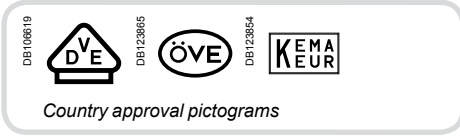
Weight (g)

| 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 | 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, 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 |
| | 6 to 40 A | 42 kA | 30 kA | 15 kA | 10 kA |
| | 50/63 A | 42 kA | 30 kA | 15 kA | 10 kA |

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

| 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 | Voltage (Ue) | | | | | Service 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 | 20 kA | 15 kA | 15 kA | 15 kA | 15 kA |

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 | | | Curve | | | Curve | | |
| | B | C | D | B | C | | B | C | D |
| 0.5 A | - | A9F07170 | A9F08170 | - | A9F07670 | | - | A9F07270 | A9F08270 |
| 1 A | - | A9F07101 | A9F08101 | - | A9F07601 | | - | A9F07201 | A9F08201 |
| 2 A | - | A9F07102 | A9F08102 | - | A9F07602 | | - | A9F07202 | A9F08202 |
| 3 A | - | A9F07103 | A9F08103 | - | A9F07603 | | - | A9F07203 | A9F08203 |
| 4 A | - | A9F07104 | A9F08104 | - | A9F07604 | | - | A9F07204 | A9F08204 |
| 6 A | A9F06106 | A9F07106 | A9F08106 | A9F06606 | A9F07606 | A9F06206 | A9F07206 | A9F08206 | |
| 10 A | A9F06110 | A9F07110 | A9F08110 | A9F06610 | A9F07610 | A9F06210 | A9F07210 | A9F08210 | |
| 13 A | A9F06113 | A9F07113 | A9F08113 | A9F06613 | A9F07613 | A9F06213 | A9F07213 | A9F08213 | |
| 16 A | A9F06116 | A9F07116 | A9F08116 | A9F06616 | A9F07616 | A9F06216 | A9F07216 | A9F08216 | |
| 20 A | A9F06120 | A9F07120 | A9F08120 | A9F06620 | A9F07620 | A9F06220 | A9F07220 | A9F08220 | |
| 25 A | A9F06125 | A9F07125 | A9F08125 | A9F06625 | A9F07625 | A9F06225 | A9F07225 | A9F08225 | |
| 32 A | A9F06132 | A9F07132 | A9F08132 | A9F06632 | A9F07632 | A9F06232 | A9F07232 | A9F08232 | |
| 40 A | A9F06140 | A9F07140 | A9F08140 | A9F06640 | A9F07640 | A9F06240 | A9F07240 | A9F08240 | |
| 50 A | A9F06150 | A9F07150 | A9F08150 | A9F06650 | A9F07650 | A9F06250 | A9F07250 | A9F08250 | |
| 63 A | A9F06163 | A9F07163 | A9F08163 | A9F06663 | A9F07663 | A9F06263 | A9F07263 | A9F08263 | |
| 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.)

- Insulated terminals IP20
- Large circuit labelling area
- Double clip locking allowing tool-free removal, front panel side, with the comb busbar in position
- Double terminals
 - For top or bottom connections:
 - by cable,
 - by comb busbar
- Visi-trip window
 - Fault tripping is indicated by a red mechanical indicator on the front face
- Positive contact indication
 - Suitable for industrial isolation according to IEC/EN 60947-2 standard
 - The presence of the green strip guarantees physical opening of the contacts and allows operations to be performed on the downstream circuit in complete safety
- 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.

1 Pull
2 Pull
3 Pull

| 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



| | | Back | Front | |
|-------------|-------------------|------------------------|-------------------------|-------------------------|
| Rating | Tightening torque | Comb busbar | Copper cables | |
| | | Thickness of the teeth | Rigid | Flexible or ferrule |
| 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 |

Between double terminal circuit breakers and single-terminal circuit breakers

Cables at the back/comb busbar at the front

DB404817

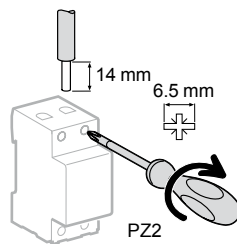


| | | Back | Front | |
|-------------|-------------------|-------------------------|-------------------------|------------------------|
| Rating | Tightening torque | Copper cables | | Thickness of the teeth |
| | | Rigid | Flexible or ferrule | |
| 0.5 to 25 A | 2 N.m | 1 to 16 mm ² | 1 to 10 mm ² |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

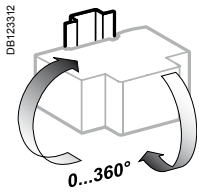
■ Connection by comb busbar or by cable (according to EN 50027).

Connection

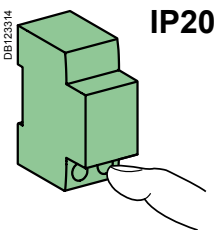
DB123847



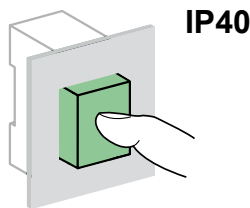
| | | With accessories | | |
|-------------|--------------------------------|---------------------------------------|------------------------|------------------------|
| Rating | 50 mm ² AI terminal | Screw-on connection for ring terminal | Multi-cables terminal | |
| | | Rigid cables | Flexible cables | |
| 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 |



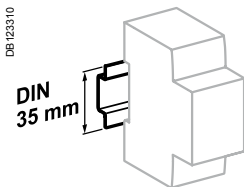
Indifferent position of installation.



IP20



IP40

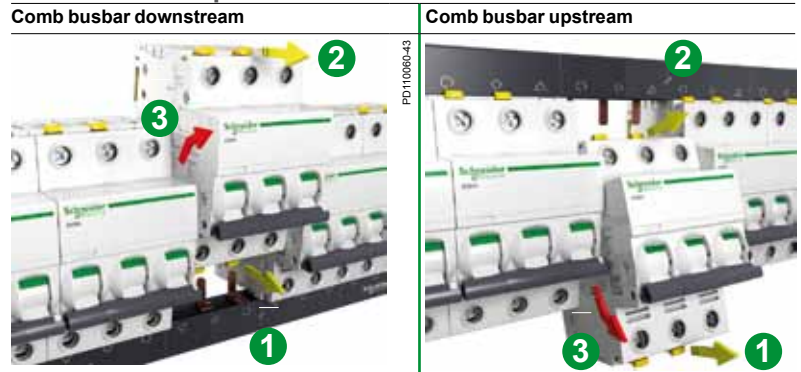


Clip on DIN rail 35 mm.

Technical data

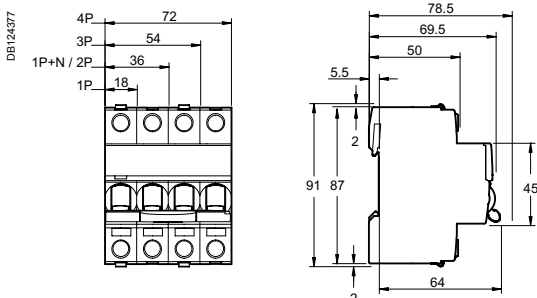
| Main characteristics | | |
|---|-----------------------------|--|
| According to IEC/EN 60947-2 | | |
| Insulation voltage (Ui) | | 500 V AC |
| Pollution degree | | 3 |
| Rated impulse withstand voltage (Uimp) | | 6 kV |
| Thermal tripping | Reference temperature | 50°C |
| | Temperature derating | 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 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) |

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



- 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 | | | | | | 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) | | 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 | | | | | | Service breaking capacity (Ics) | |
|---|-----------|--------------|--------|---------|---------|---------------------------------|--------------|
| | | Voltage (Ue) | | | | | |
| 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 | 25 kA | 20 kA | 20 kA | 20 kA | 20 kA | |

Catalogue numbers

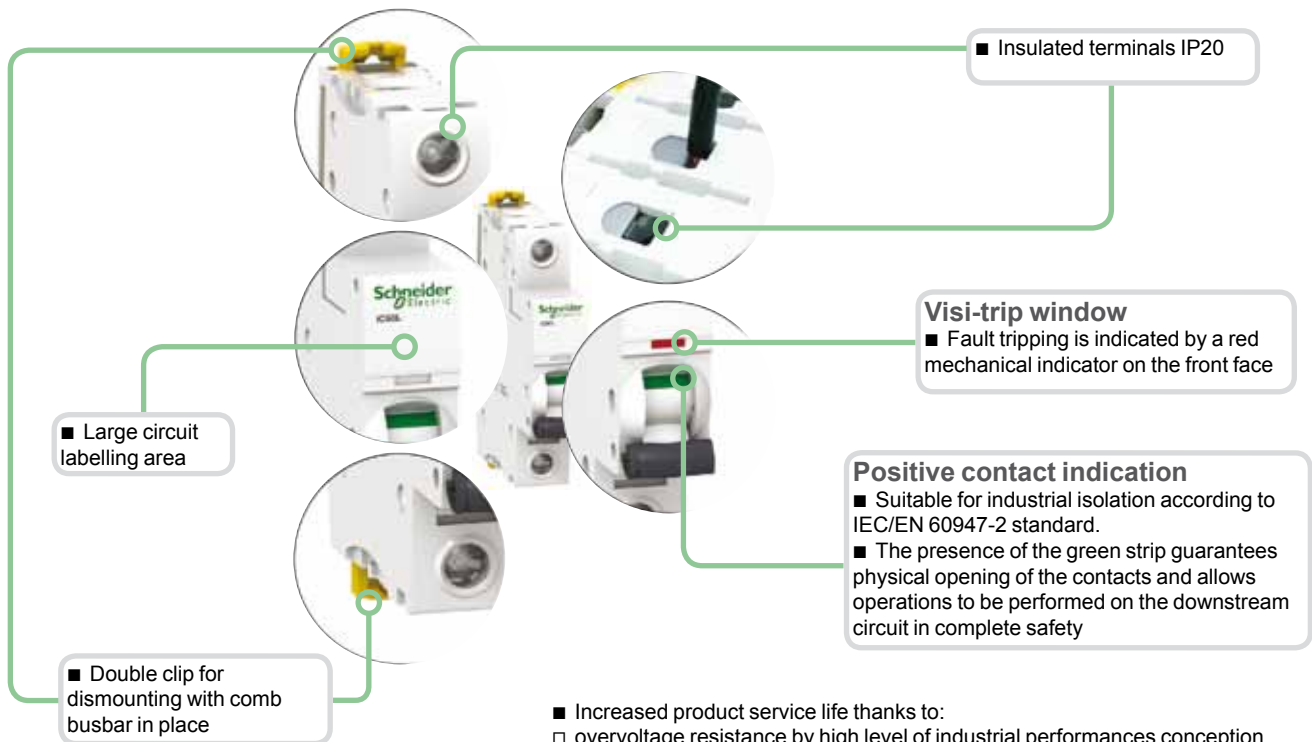
iC60L circuit breaker

| 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) | Curve | | | | Curve | | | |
| Quality label (2) | 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.)

PB104496-40

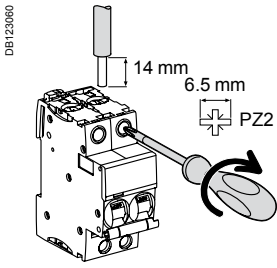


- Increased product service life thanks to:
 - overvoltage resistance by high level of industrial performances conception (pollution degree, rated impulse withstand voltage and insulation voltage),
 - high performance limitation (see limitation curves),
 - fast closing independent of the speed of actuation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

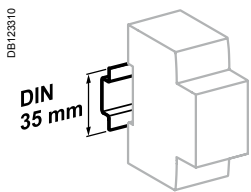
| 3P | | | | 4P | | | |
|--|----------|----------|----------|--|----------|----------|----------|
| E-60956 | | | | E-60957 | | | |
| | | | | | | | |
| Remote tripping and indication, module CA907000 and CA907002 | | | | Remote tripping and indication, module CA907000 and CA907002 | | | |
| Vigi iC60 add-on residual current device, module CA902005 | | | | Vigi iC60 add-on residual current device, module CA902005 | | | |
| Curve | | Curve | | 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.)

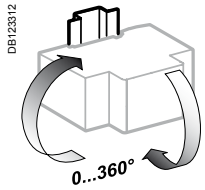
Connection



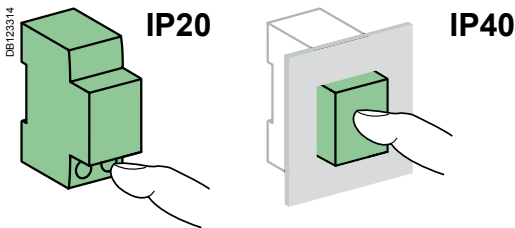
| Rating | Tightening torque | Without accessory | | With accessories | | |
|-------------|-------------------|-------------------------|-------------------------|--------------------------------|---------------------------------------|------------------------|
| | | Rigid | Flexible or ferrule | 50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



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 (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 |
| | | 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)

