Low voltage

Acti 9

the efficiency you deserve

Catalogue
09/2013

Schneider Electric

Contents

Principle of catalogue numbers

iID, iC60, Vigi iC60, Reflex iC60, switches

Range	Family	Code
Acti 9 (A9)	**iID**	**R**
	Vigi iC60	**V**
	iC60	**F**
	iK60	**K**
	Auxiliaries and accessories	**A**
	Switches	**S**
	Reflex iC60	**C**

Internal code

Poles	Code
0	**0**
1P	**1**
2P	**2**
3P	**3**
4P	**4**
1N	**5**
1P+N	**6**
3P+N	**7**

Rating (A)	Code
0	**00**
0.5	**70**
0.75	**71**
1	**01**
1.6	**72**
2	**02**
2.5	**73**
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

Range	Family	Code
Acti 9 (A9)	**Comb busbar**	**X**

Type		Type of installation	
Comb busbar			
Fork teeth	**F**	Horizontal	**H**
Pin teeth	**P**		
Auxiliarisable	**A**		
Accessories			
End-piece	**E**	Double terminals	**D**
Tooth cover	**T**	Single terminal	**M**
Connector	**C**		

Number of poles	
1P	**1**
2P	**2**
3P	**3**
4P	**4**
4P balanced, with neutral	**5**
3P balanced for single-poles	**6**

Dimensioning	
Comb busbar	**Number of 18 mm modules (approximately)**
Accessories	**Number of pieces per cat. no.**

Choice of circuit protective devices

■ 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).

DB123788

Protection of electrical connections against short circuits and overloads

DB123789

Protection of loads against overloads

DB123790

Protection of control devices

DB123792

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

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 (Isc) upstream of the circuit-breaker (Isc 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**).

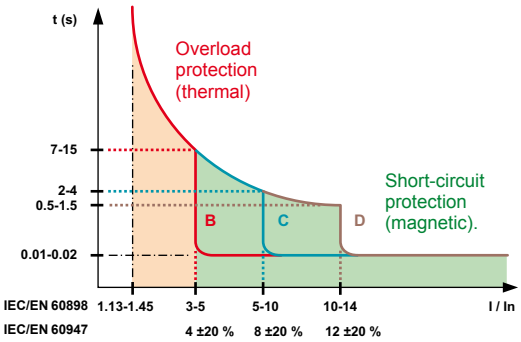
Choice of rating

■ The rating (In) 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.

E103695



Tripping thresholds (x In)		
Curves	**IEC /EN 60898**	**IEC/EN 60947-2**
B	Between 3 In and 5 In	4 ±20 %
C	Between 5 In and 10 In	8 ±20 %
D or K	Between 10 In and 14 In	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**).

Circuit breaker panorama (cont.)

Selection guide

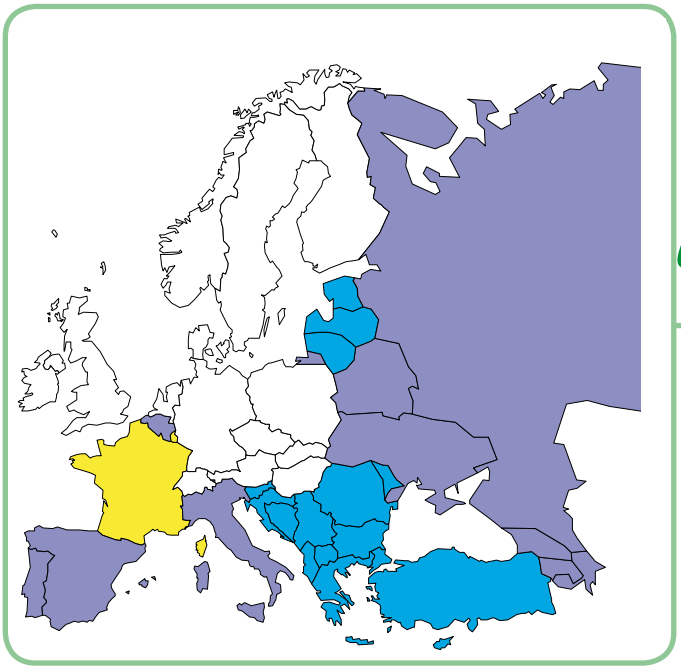
Circuit breakers

Type			iK60N		iC60N			
								
Standard			IEC/EN 60898-1		IEC/EN 60947-2, 60898-1			
Quality label			Country approval pictogram		Country approval pictogram			
Number of poles			1P, 1P+N	2, 3, 4P	1P, 1P+N		2, 3, 4P	
Add-on residual current devices (Vigi)			–		■			
Auxiliaries for remote tripping and indication			–		■			
Electrical characteristics								
Curves			B, C		B, C, D			
Ratings (A)	In		1 to 63		0.5 to 63 (1 to 63 in DC)			
Maximum operational voltage (V)	Ue max	AC (50/60 Hz)	230/400		240/415, 440			
		DC	–		250			
Minimum operational voltage (V)	Ue min	AC (50/60 Hz)	–		12			
		DC	–		12			
Insulation voltage (V AC)	Ui		400		500			
Rated impulse withstand voltage (kV)	Uimp		4		6			
Limitation class 40 A (EN 60898)			3		3			
Breaking capacity								
IEC/EN 60898 (A)	Icn	240/415 V - 230/400 V	6000	6000	6000		6000	
AC-Breaking capacity		**Ue (50/60 Hz)**	**1P, 1P+N**	**2, 3, 4P**	**1P, 1P+N**		**2, 3, 4P**	
Ratings (A)	In		1 to 63		0.5 to 4 A	6 to 63 A	0.5 to 4 A	6 to 63 A
IEC 60947-2 (kA)	Icu	12...60 V	–	–	**50**	**36**	–	–
		12...133 V	–	–	–	–	**50**	**36**
		100...133 V	–	–	**50**	**20**	–	–
		220...240 V	–	–	**50**	**10**	**50**	**20**
		380...415 V	–	–	–	–	**50**	**10**
		440 V	–	–	–	–	**25**	**6**
	Ics		–		100 % of Icu	75 % of Icu	100 % of Icu	75 % of Icu
DC-Breaking capacity		**Ue DC**						
IEC 60947-2 (kA)	Icu	12...60 V (1P)	–		**15**			
		≤ 72 V (1P)	–		**10**			
		≤ 125 V (2P)	–		**10**			
		≤ 180 V (3P)	–		**10**			
		≤ 250 V (4P)	–		**10**			
	Ics		–		100 % of Icu			
Other characteristics								
Suitable for industrial isolation according to IEC/EN 60947-2			–		■			
Reference temperature IEC/EN 60947-2			–		50°C			
Fault tripping indication			–		Visi-trip window			
Positive contact indication			–		■			
Fast closing			–		■			
Degree of protection	IP	Device only	IP20		IP20			
		Device in modular enclosure	IP40 Insulation class II		IP40 Insulation class II			
For more detail, see module			**CA901006 and CA901007**		**CA901002**			
Accessories			**–**		**CA907000 and CA907001**			
Auxiliaries			**–**		**CA907000 and CA907002**			
Add-on residual current devices (Vigi)			**–**		**CA902005**			

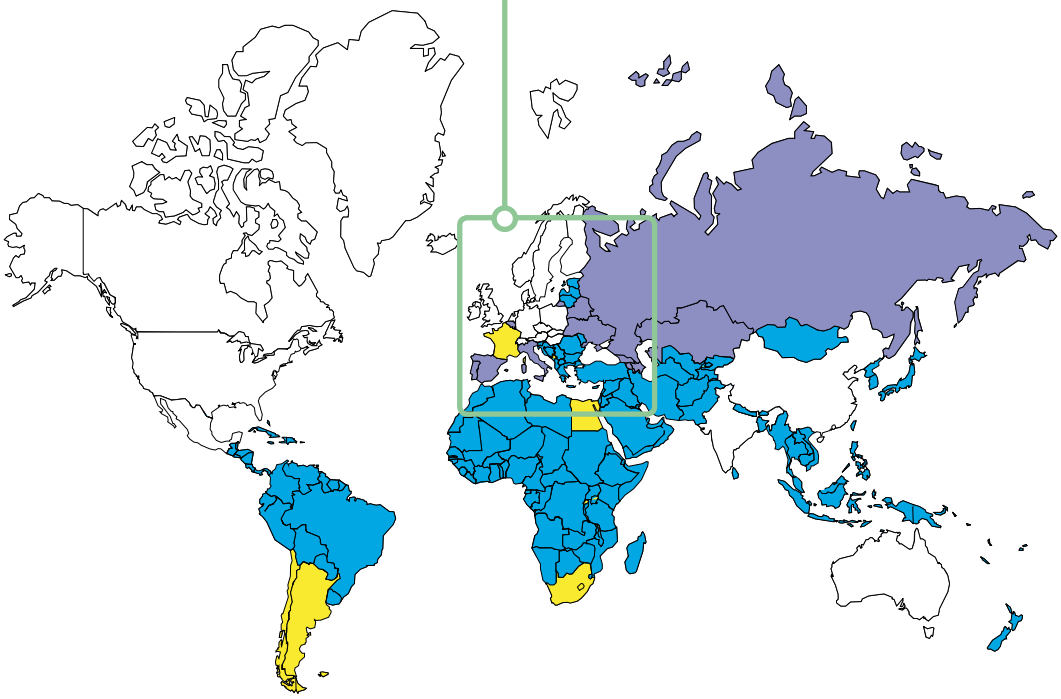
iC60N
Contents

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.

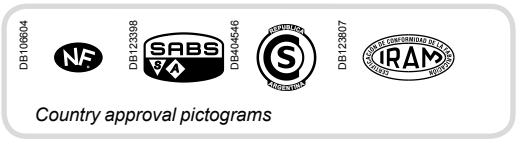
Variants



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.



iC60N circuit breakers (curve B, C, D)



Country approval pictograms

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	
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	100 % of Icu
	6 to 63 A	36 kA	20 kA	10 kA	6 kA	75 % of Icu

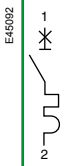
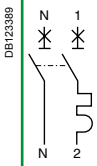
Breaking capacity (Icn) according to IEC/EN 60898-1		
		Voltage (Ue)
Ph/Ph		400 V
Ph/N		230 V
Rating (In)	0.5 to 63 A	6000 A

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)	1 to 63 A	15 kA	10 kA	10 kA	10 kA	10 kA	100 % of Icu

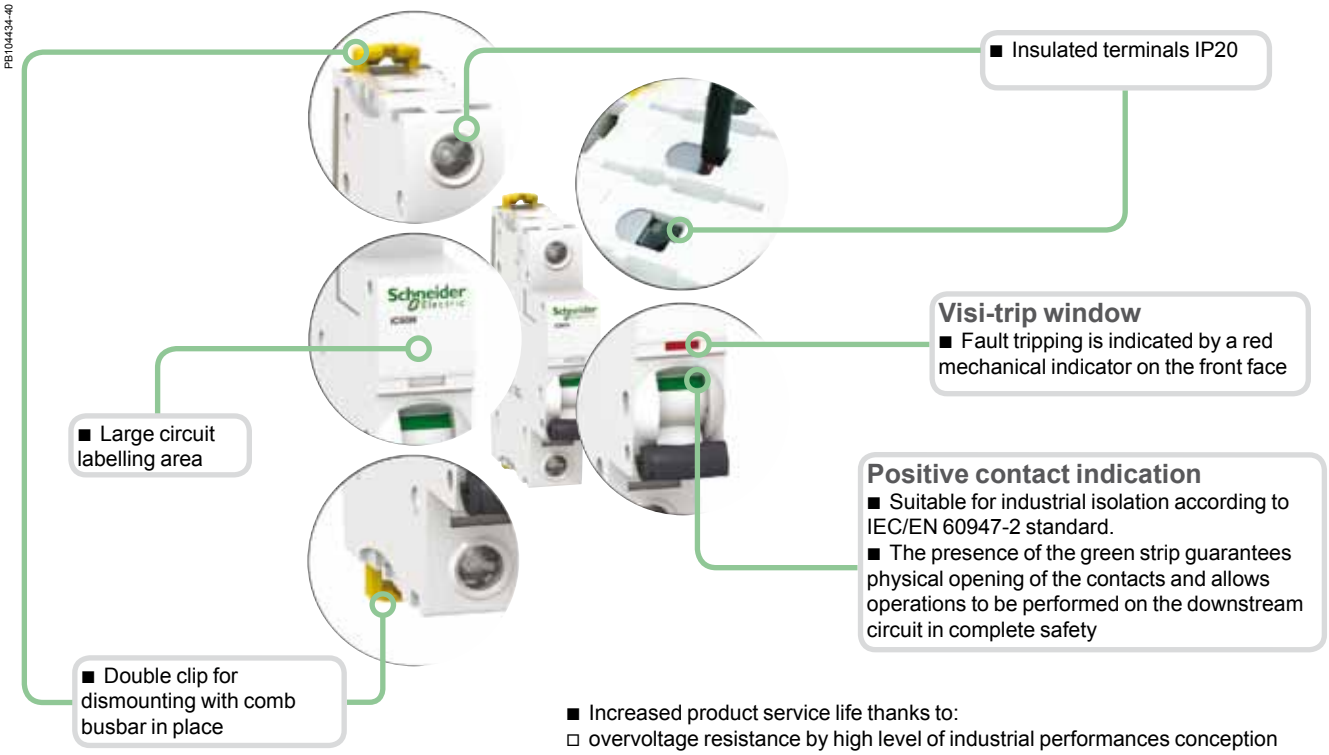
Catalogue numbers

iC60N circuit breaker

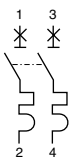
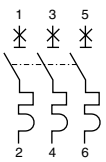
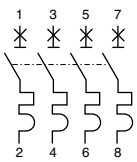
Type	1P			1P+N		
						
Auxiliaries	Remote tripping and indication, module CA907000 and CA907002			Remote tripping and indication, module CA907000 and CA907002		
Vigi iC60	Vigi iC60 add-on residual current device, module CA902005			Vigi iC60 add-on residual current device, module CA902005		
Rating (In)	Curve			Curve		
	B	C	D(1)	B	C	D(1)
0.5 A(1)	A9F73170	A9F74170	A9F75170	A9F73670	A9F74670	A9F75670
1 A(1)	A9F73101	A9F74101	A9F75101	A9F73601	A9F74601	A9F75601
2 A(1)	A9F73102	A9F74102	A9F75102	A9F73602	A9F74602	A9F75602
3 A(1)	A9F73103	A9F74103	A9F75103	A9F73603	A9F74603	A9F75603
4 A(1)	A9F73104	A9F74104	A9F75104	A9F73604	A9F74604	A9F75604
6 A	A9F76106	A9F77106	A9F75106	A9F76606	A9F77606	A9F75606
10 A	A9F76110	A9F77110	A9F75110	A9F76610	A9F77610	A9F75610
13 A(1)	A9F73113	A9F74113	A9F75113	A9F73613	A9F74613	A9F75613
16 A	A9F76116	A9F77116	A9F75116	A9F76616	A9F77616	A9F75616
20 A	A9F76120	A9F77120	A9F75120	A9F76620	A9F77620	A9F75620
25 A	A9F76125	A9F77125	A9F75125	A9F76625	A9F77625	A9F75625
32 A	A9F76132	A9F77132	A9F75132	A9F76632	A9F77632	A9F75632
40 A	A9F76140	A9F77140	A9F75140	A9F76640	A9F77640	A9F75640
50 A	A9F76150	A9F77150	A9F75150	A9F76650	A9F77650	A9F75650
63 A	A9F76163	A9F77163	A9F75163	A9F76663	A9F77663	A9F75663
Width in 9-mm modules	2			4		
Accessories	Module CA907000 and CA907001			Module CA907000 and CA907001		

(1) VDE approved only.

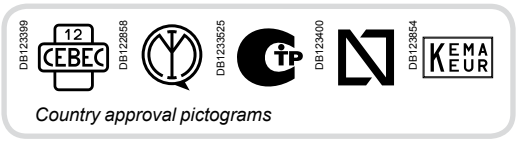
iC60N circuit breakers (curve B, C, D) (cont.)



■ 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		
	E45094 			E45095 			E45097 		
	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)
	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
	A9F76206	A9F77206	A9F75206	A9F76306	A9F77306	A9F75306	A9F76406	A9F77406	A9F75406
	A9F76210	A9F77210	A9F75210	A9F76310	A9F77310	A9F75310	A9F76410	A9F77410	A9F75410
	A9F73213	A9F74213	A9F75213	A9F73313	A9F74313	A9F75313	A9F73413	A9F74413	A9F75413
	A9F76216	A9F77216	A9F75216	A9F76316	A9F77316	A9F75316	A9F76416	A9F77416	A9F75416
	A9F76220	A9F77220	A9F75220	A9F76320	A9F77320	A9F75320	A9F76420	A9F77420	A9F75420
	A9F76225	A9F77225	A9F75225	A9F76325	A9F77325	A9F75325	A9F76425	A9F77425	A9F75425
	A9F76232	A9F77232	A9F75232	A9F76332	A9F77332	A9F75332	A9F76432	A9F77432	A9F75432
	A9F76240	A9F77240	A9F75240	A9F76340	A9F77340	A9F75340	A9F76440	A9F77440	A9F75440
	A9F76250	A9F77250	A9F75250	A9F76350	A9F77350	A9F75350	A9F76450	A9F77450	A9F75450
	A9F76263	A9F77263	A9F75263	A9F76363	A9F77363	A9F75363	A9F76463	A9F77463	A9F75463
	4			6			8		
	Module CA907000 and CA907001			Module CA907000 and CA907001			Module CA907000 and CA907001		

iC60N circuit breakers (curve B, C, D)



Country approval pictograms

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	
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	100 % of Icu
	6 to 63 A	36 kA	20 kA	10 kA	6 kA	75 % of Icu

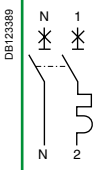
Breaking capacity (Icn) according to IEC/EN 60898-1		
		Voltage (Ue)
Ph/Ph		400 V
Ph/N		230 V
Rating (In)	0.5 to 63 A	6000 A

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)	1 to 63 A	15 kA	10 kA	10 kA	10 kA	10 kA	100 % of Icu

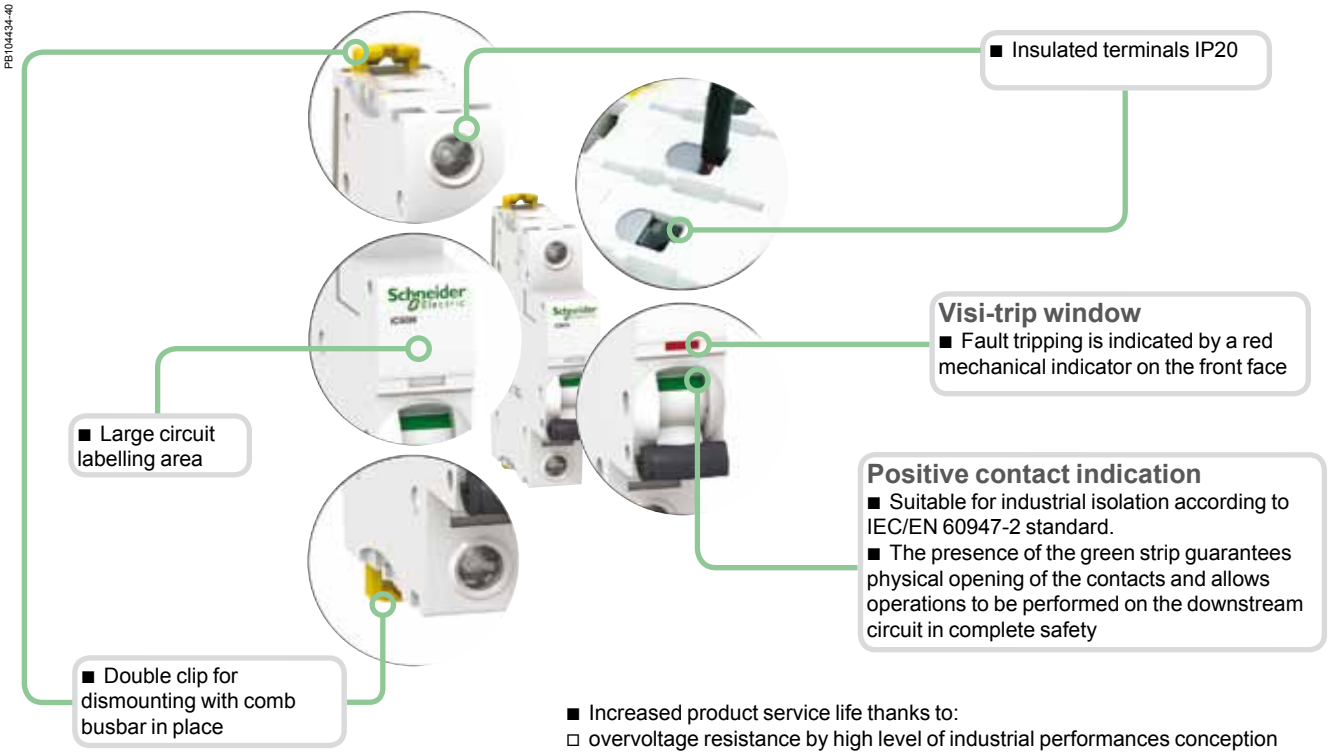
Catalogue numbers

iC60N circuit breaker

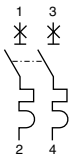
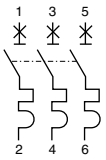
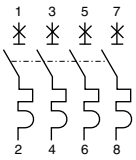
Type	1P			1P+N		
						
Auxiliaries	Remote tripping and indication, module CA907000 and CA907002			Remote tripping and indication, module CA907000 and CA907002		
Vigi iC60	Vigi iC60 add-on residual current device, module CA902005			Vigi iC60 add-on residual current device, module CA902005		
Rating (In)	Curve			Curve		
	B	C	D(1)	B	C	D(1)
0.5 A(1)	A9F73170	A9F74170	A9F75170	A9F73670	A9F74670	A9F75670
1 A(1)	A9F73101	A9F74101	A9F75101	A9F73601	A9F74601	A9F75601
2 A(1)	A9F73102	A9F74102	A9F75102	A9F73602	A9F74602	A9F75602
3 A(1)	A9F73103	A9F74103	A9F75103	A9F73603	A9F74603	A9F75603
4 A(1)	A9F73104	A9F74104	A9F75104	A9F73604	A9F74604	A9F75604
6 A	A9F78106	A9F79106	A9F75106	A9F78606	A9F79606	A9F75606
10 A	A9F78110	A9F79110	A9F75110	A9F78610	A9F79610	A9F75610
13 A(1)	A9F73113	A9F74113	A9F75113	A9F73613	A9F74613	A9F75613
16 A	A9F78116	A9F79116	A9F75116	A9F78616	A9F79616	A9F75616
20 A	A9F78120	A9F79120	A9F75120	A9F78620	A9F79620	A9F75620
25 A	A9F78125	A9F79125	A9F75125	A9F78625	A9F79625	A9F75625
32 A	A9F78132	A9F79132	A9F75132	A9F78632	A9F79632	A9F75632
40 A	A9F78140	A9F79140	A9F75140	A9F78640	A9F79640	A9F75640
50 A	A9F78150	A9F79150	A9F75150	A9F78650	A9F79650	A9F75650
63 A	A9F78163	A9F79163	A9F75163	A9F78663	A9F79663	A9F75663
Width in 9-mm modules	2			4		
Accessories	Module CA907000 and CA907001			Module CA907000 and CA907001		

(1) VDE approved only.

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



■ 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		
									
	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)
	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**
	A9F78206	**A9F79206**	**A9F75206**	**A9F78306**	**A9F79306**	**A9F75306**	**A9F78406**	**A9F79406**	**A9F75406**
	A9F78210	**A9F79210**	**A9F75210**	**A9F78310**	**A9F79310**	**A9F75310**	**A9F78410**	**A9F79410**	**A9F75410**
	A9F73213	**A9F74213**	**A9F75213**	**A9F73313**	**A9F74313**	**A9F75313**	**A9F73413**	**A9F74413**	**A9F75413**
	A9F78216	**A9F79216**	**A9F75216**	**A9F78316**	**A9F79316**	**A9F75316**	**A9F78416**	**A9F79416**	**A9F75416**
	A9F78220	**A9F79220**	**A9F75220**	**A9F78320**	**A9F79320**	**A9F75320**	**A9F78420**	**A9F79420**	**A9F75420**
	A9F78225	**A9F79225**	**A9F75225**	**A9F78325**	**A9F79325**	**A9F75325**	**A9F78425**	**A9F79425**	**A9F75425**
	A9F78232	**A9F79232**	**A9F75232**	**A9F78332**	**A9F79332**	**A9F75332**	**A9F78432**	**A9F79432**	**A9F75432**
	A9F78240	**A9F79240**	**A9F75240**	**A9F78340**	**A9F79340**	**A9F75340**	**A9F78440**	**A9F79440**	**A9F75440**
	A9F78250	**A9F79250**	**A9F75250**	**A9F78350**	**A9F79350**	**A9F75350**	**A9F78450**	**A9F79450**	**A9F75450**
	A9F78263	**A9F79263**	**A9F75263**	**A9F78363**	**A9F79363**	**A9F75363**	**A9F78463**	**A9F79463**	**A9F75463**
	4			6			8		
	Module CA907000 and CA907001			**Module CA907000 and CA907001**			**Module CA907000 and CA907001**		

iC60N circuit breakers (curve B, C, D)

DB116619

Country approval pictograms


PB104437-40


PB104437-40

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	
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	100 % of Icu
	6 to 63 A	36 kA	20 kA	10 kA	6 kA	75 % 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	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)	1 to 63 A	15 kA	10 kA	10 kA	10 kA	10 kA	100 % of Icu

Catalogue numbers

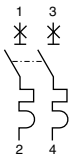
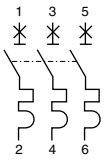
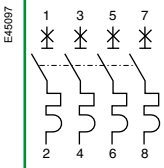
iC60N circuit breaker

Type	1P			1P+N		
	E45092 			DB123389 		
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	A9F73170	A9F74170	A9F75170	A9F73670	A9F74670	A9F75670
1 A	A9F73101	A9F74101	A9F75101	A9F73601	A9F74601	A9F75601
2 A	A9F73102	A9F74102	A9F75102	A9F73602	A9F74602	A9F75602
3 A	A9F73103	A9F74103	A9F75103	A9F73603	A9F74603	A9F75603
4 A	A9F73104	A9F74104	A9F75104	A9F73604	A9F74604	A9F75604
6 A	A9F73106	A9F74106	A9F75106	A9F73606	A9F74606	A9F75606
10 A	A9F73110	A9F74110	A9F75110	A9F73610	A9F74610	A9F75610
13 A	A9F73113	A9F74113	A9F75113	A9F73613	A9F74613	A9F75613
16 A	A9F73116	A9F74116	A9F75116	A9F73616	A9F74616	A9F75616
20 A	A9F73120	A9F74120	A9F75120	A9F73620	A9F74620	A9F75620
25 A	A9F73125	A9F74125	A9F75125	A9F73625	A9F74625	A9F75625
32 A	A9F73132	A9F74132	A9F75132	A9F73632	A9F74632	A9F75632
40 A	A9F73140	A9F74140	A9F75140	A9F73640	A9F74640	A9F75640
50 A	A9F73150	A9F74150	A9F75150	A9F73650	A9F74650	A9F75650
63 A	A9F73163	A9F74163	A9F75163	A9F73663	A9F74663	A9F75663
Width in 9-mm modules	2			4		
Accessories	Module CA907000 and CA907001			Module CA907000 and CA907001		

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

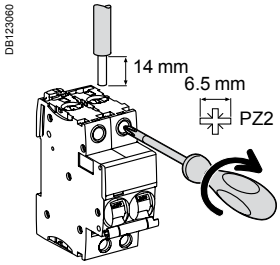
PB104434-40

■ 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.

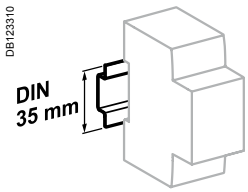
	2P			3P			4P		
	E45094 			E45095 			E45097 		
	Remote tripping and indication, module CA907000 and CA907002			**Remote tripping and indication, module CA907000 and CA907002**			**Remote tripping and indication, module CA907000 and CA907002**		
	Vigi iC60 add-on residual current device, module CA902005			**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**		

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

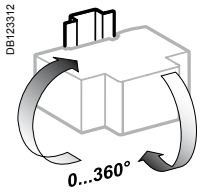
Connection



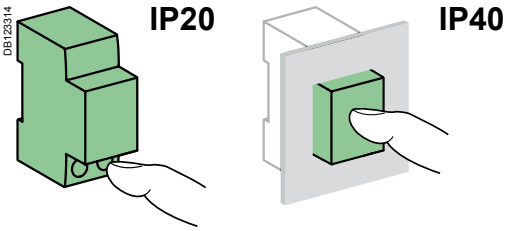
Rating	Tightening torque	Without accessory: Copper cables – Rigid	Without accessory: Copper cables – Flexible or ferrule	With accessories: 50 mm² Al terminal	With accessories: Screw-on connection for ring terminal	With accessories: Multi-cables terminal – Rigid cables	With accessories: Multi-cables terminal – Flexible cables
		DB122945	DB122946	DB122935 Al	DB118789 Ø	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



Clip on DIN rail 35 mm.



Indifferent position of installation.



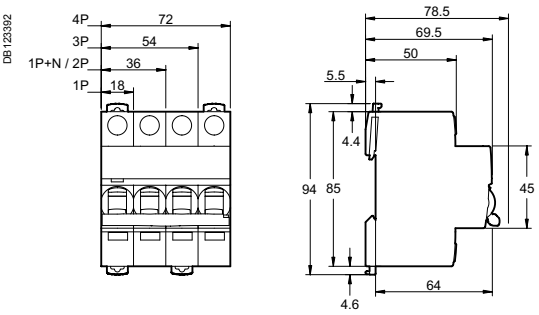
Technical data

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		
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	**iC60N**
1P	125
2P	250
3P	375
4P	500

Dimensions (mm)



iC60N double terminals circuit breakers (curve B, C, D)

DB106619 DB123865 DB123854

Country approval pictograms

PB107401-40 PB107405-40


PB107407-40 PB107409-40


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

■ iC60N double tunnel 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, 3P+N, 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	50 kA	50 kA	50 kA	25 kA	100 % of Icu
	6 to 63 A	36 kA	20 kA	10 kA	6 kA	75 % of Icu

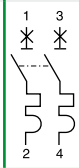
Breaking capacity (Icn) according to IEC/EN 60898-1		
		Voltage (Ue)
Ph/Ph		400 V
Ph/N		230 V
Rating (In)	0.5 to 63 A	6000 A

Direct current (DC)

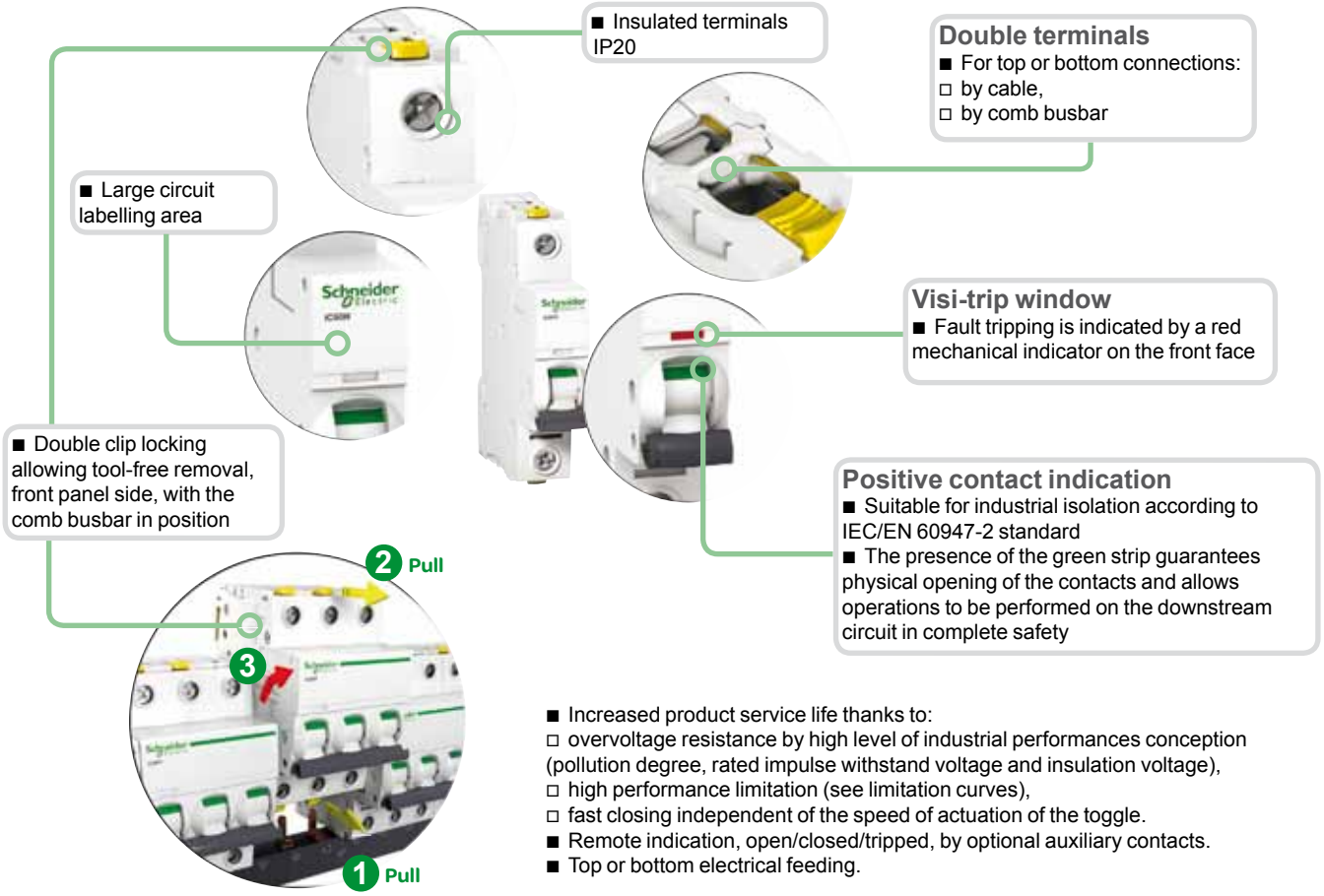
Breaking capacity (Icu) according to IEC/EN 60947-2						Service breaking capacity (Ics)
		Voltage (Ue)				
Between +/-		12 to 60 V	⩽ 72 V	⩽ 125 V	⩽ 180 V	⩽ 250 V
Number of poles		1P		2P	3P	4P
Rating (In)	1 to 63 A	15 kA	10 kA	10 kA	10 kA	10 kA	100 % of Icu

Catalogue numbers

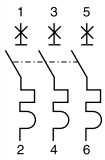
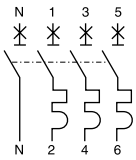
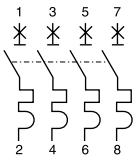
iC60N double terminals circuit breaker

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	D	B	C	D
0.5 A	-	A9F04170	A9F05170	-	A9F04670		-	A9F04270	A9F05270
1 A	A9F03101	A9F04101	A9F05101	-	A9F04601		-	A9F04201	A9F05201
2 A	A9F03102	A9F04102	A9F05102	-	A9F04602		A9F03202	A9F04202	A9F05202
3 A	-	A9F04103	A9F05103	-	A9F04603		-	A9F04203	A9F05203
4 A	A9F03104	A9F04104	A9F05104	-	A9F04604		A9F03204	A9F04204	A9F05204
6 A	A9F03106	A9F04106	A9F05106	A9F03606	A9F04606		A9F03206	A9F04206	A9F05206
10 A	A9F03110	A9F04110	A9F05110	A9F03610	A9F04610		A9F03210	A9F04210	A9F05210
13 A	A9F03113	A9F04113	A9F05113	A9F03613	A9F04613		A9F03213	A9F04213	A9F05213
16 A	A9F03116	A9F04116	A9F05116	A9F03616	A9F04616		A9F03216	A9F04216	A9F05216
20 A	A9F03120	A9F04120	A9F05120	A9F03620	A9F04620		A9F03220	A9F04220	A9F05220
25 A	A9F03125	A9F04125	A9F05125	A9F03625	A9F04625		A9F03225	A9F04225	A9F05225
32 A	A9F03132	A9F04132	A9F05132	A9F03632	A9F04632		A9F03232	A9F04232	A9F05232
40 A	A9F03140	A9F04140	A9F05140	A9F03640	A9F04640		A9F03240	A9F04240	A9F05240
50 A	A9F03150	A9F04150	A9F05150	A9F03650	A9F04650		A9F03250	A9F04250	A9F05250
63 A	A9F03163	A9F04163	A9F05163	A9F03663	A9F04663		A9F03263	A9F04263	A9F05263
Width in 9-mm modules	2			4			4		
Accessories	Modules CA907000 and CA907001			Modules CA907000 and CA907001			Modules CA907000 and CA907001		

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



■ 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			3P+N		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	B	C	D
	-	A9F04370	A9F05370	-	A9F04770	-	A9F04470	A9F05470
	-	A9F04301	A9F05301	-	A9F04701	-	A9F04401	A9F05401
	A9F03302	A9F04302	A9F05302	-	A9F04702	-	A9F04402	A9F05402
	-	A9F04303	A9F05303	-	A9F04703	-	A9F04403	A9F05403
	-	A9F04304	A9F05304	-	A9F04704	-	A9F04404	A9F05404
	A9F03306	A9F04306	A9F05306	A9F03706	A9F04706	A9F03406	A9F04406	A9F05406
	A9F03310	A9F04310	A9F05310	A9F03710	A9F04710	A9F03410	A9F04410	A9F05410
	A9F03313	A9F04313	A9F05313	A9F03713	A9F04713	A9F03413	A9F04413	A9F05413
	A9F03316	A9F04316	A9F05316	A9F03716	A9F04716	A9F03416	A9F04416	A9F05416
	A9F03320	A9F04320	A9F05320	A9F03720	A9F04720	A9F03420	A9F04420	A9F05420
	A9F03325	A9F04325	A9F05325	A9F03725	A9F04725	A9F03425	A9F04425	A9F05425
	A9F03332	A9F04332	A9F05332	A9F03732	A9F04732	A9F03432	A9F04432	A9F05432
	A9F03340	A9F04340	A9F05340	A9F03740	A9F04740	A9F03440	A9F04440	A9F05440
	A9F03350	A9F04350	A9F05350	A9F03750	A9F04750	A9F03450	A9F04450	A9F05450
	A9F03363	A9F04363	A9F05363	A9F03763	A9F04763	A9F03463	A9F04463	A9F05463
	6			8		8		
	Modules CA907000 and CA907001			Modules CA907000 and CA907001		Modules CA907000 and CA907001		

iC60N 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

Back

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 mm²	1 to 16 mm²
32 to 63 A	3.5 N.m	1.5 mm	1 to 25 mm²	1 to 25 mm²

Between double terminal circuit breakers and single-terminal circuit breakers

Cables at the back/comb busbar at the front

Back

Front

DB404817

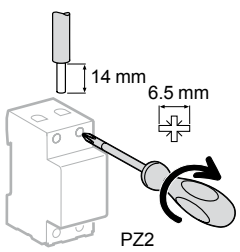
Rating	Tightening torque	Copper cables		Comb busbar
		Rigid	Flexible or ferrule	Thickness of the teeth
	DB122945	DB122946		
0.5 to 25 A	2 N.m	1 to 16 mm²	1 to 10 mm²	1.5 mm
32 to 63 A	3.5 N.m	1 to 16 mm²	1 to 10 mm²	1.5 mm

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

Connection

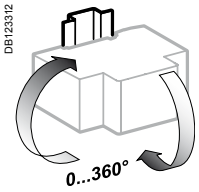
With accessories

DB123947

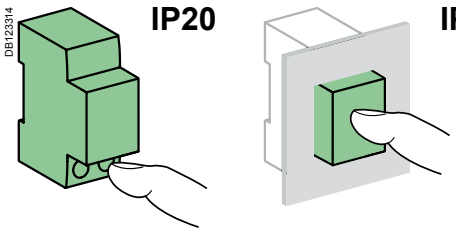


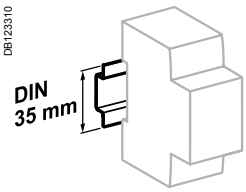
Rating	50 mm² Al terminal	Screw-on connection for ring terminal	Multi-cables terminal	
			Rigid cables	Flexible cables
	DB122935 Al	DB118789 Ø	DB118787	
0.5 to 25 A	-	Ø 5 mm	-	-
32 to 63 A	50 mm²		3 x 16 mm²	3 x 10 mm²

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



Indifferent position of installation.



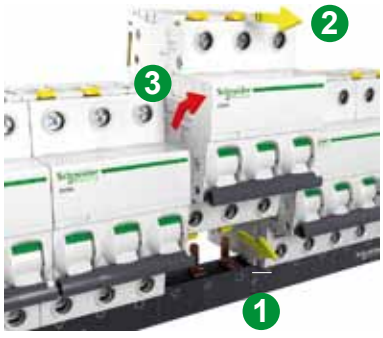


Clip on DIN rail 35 mm.

Technical data

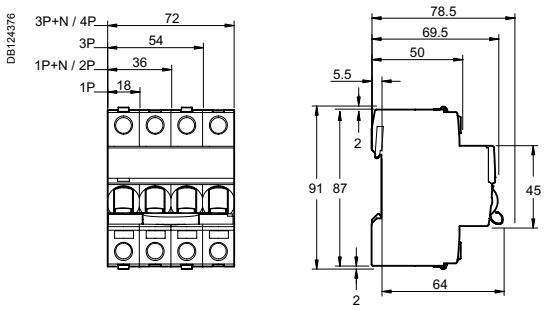
Main characteristics		
According to IEC/EN 60947-2		
Insulation voltage (Ui)		500 V AC
Pollution degree		3
Rated impulse withstand voltage (Uimp)		6 kV
Thermal tripping	Reference temperature	50°C
	Temperature derating	See module CA908007
Magnetic tripping	B curve	4 In ± 20 %
	C curve	8 In ± 20 %
	D curve	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

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	**iC60N**
1P	125
2P (1P+N)	250
3P	375
4P (3P+N)	500

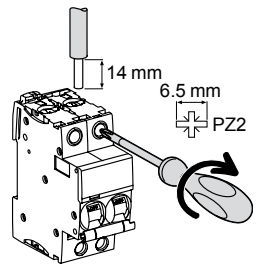
iK60N circuit breakers (curve B) (cont.)

PB104434-40

■ Top or bottom electrical feeding.

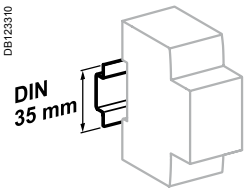
Connection

DB123060

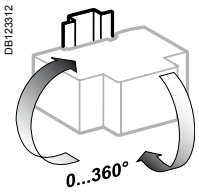


Type	Rating	Tightening torque	Without accessory	
			Copper cables	
			Rigid	Flexible or ferrule
			DB122945 	DB122946 
B curve	1 to 25 A	2 N.m	1 to 25 mm²	1 to 16 mm²
	32 to 63 A	3.5 N.m	1 to 35 mm²	1 to 25 mm²

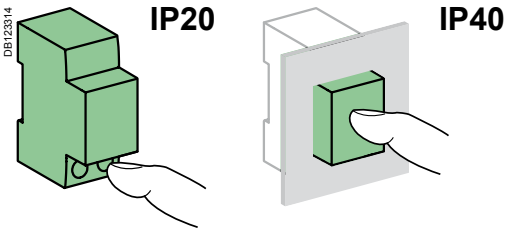
iK60N circuit breakers (curve B) (cont.)



Clip on DIN rail 35 mm.



Indifferent position of installation.



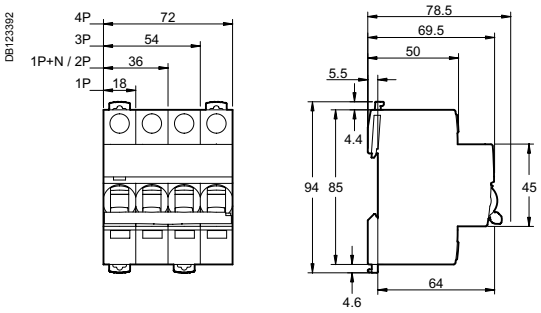
Technical data

Main characteristics		
According to IEC/EN 60898-1		
Insulation voltage (Ui)		440 V AC
Pollution degree		2
Rated impulse withstand voltage (Uimp)		4 kV
Thermal tripping	Reference temperature	30°C
	Temperature derating	See module CA908007
Magnetic tripping	B curve	3 to 5 In
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)		III
Operating temperature		-25°C to +60°C
Storage temperature		-40°C to +85°C

Weight (g)

Circuit-breaker	
Type	**iK60N**
1P	100
2P	200
3P	300
4P	400

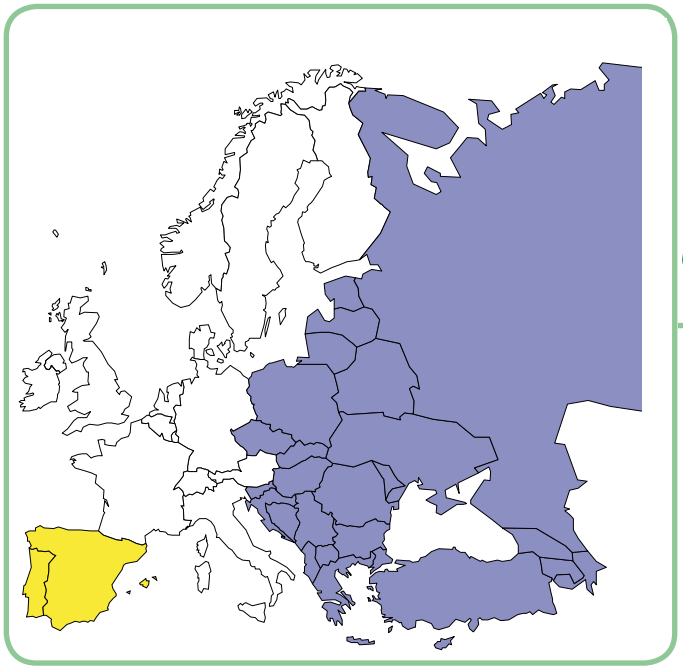
Dimensions (mm)



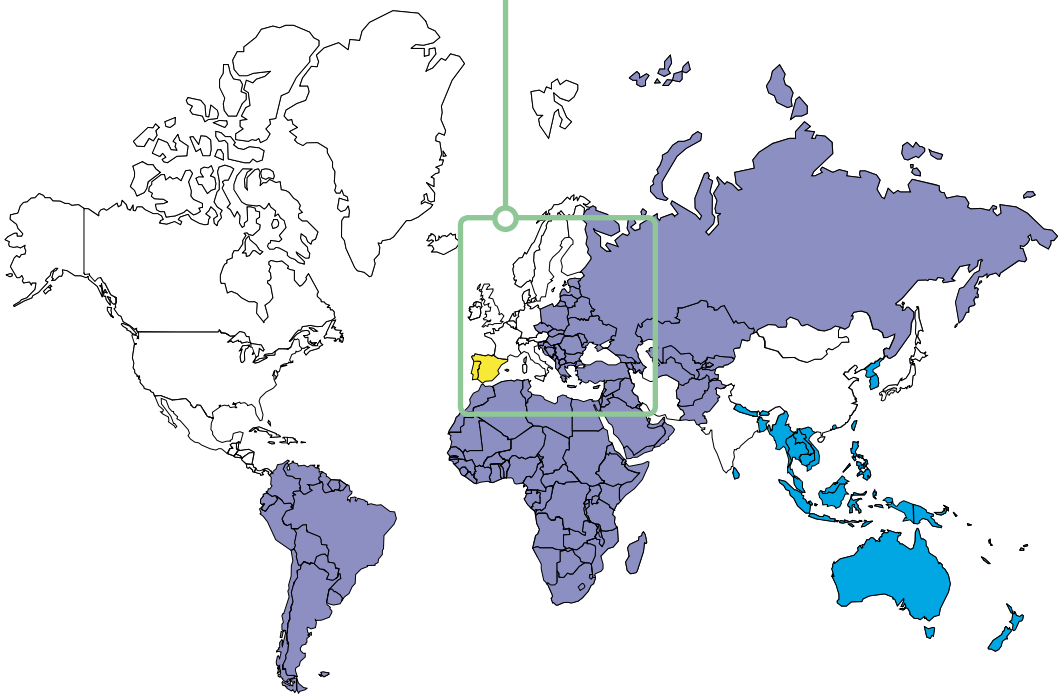
iK60N (curve C)
Contents

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



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.



iK60N circuit breakers (curve C)

DB123400 DB123807

Country approval pictograms

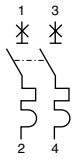
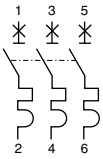
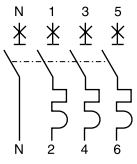
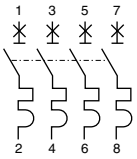
IEC/EN 60898-1

PB104459-40

- 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 (Icn) as per IEC/EN 60898-1		**Service breaking capacity (Ics)**
Ph/Ph	**400 V**	100 % of Icn
Ph/N	**230 V**	
Rating (In) 1 to 63 A	6000 A	

Catalogue numbers

iK60N circuit breakers						
Type	**1P**	**1P+N**	**2P**	**3P**	**3P+N**	**4P**
						
Auxiliaries	**Without auxiliaries**					
Vigi iC60	**Without Vigi iC60**					
Rating (In)	**Curve C**	**Curve C**	**Curve C**	**Curve C**	**Curve C**	**Curve C**
1 A(1)	**A9K24101**	**A9K24601**	**A9K24201**	-	-	-
2 A(1)	**A9K24102**	**A9K24602**	**A9K24202**	-	-	-
3 A(1)	**A9K24103**	**A9K24603**	**A9K24203**	-	-	-
4 A(1)	**A9K24104**	**A9K24604**	**A9K24204**	-	-	-
6 A	**A9K17106**	**A9K17606**	**A9K17206**	**A9K17306**	**A9K24706**	**A9K17406**
10 A	**A9K17110**	**A9K17610**	**A9K17210**	**A9K17310**	**A9K24710**	**A9K17410**
16 A	**A9K17116**	**A9K17616**	**A9K17216**	**A9K17316**	**A9K24716**	**A9K17416**
20 A	**A9K17120**	**A9K17620**	**A9K17220**	**A9K17320**	**A9K24720**	**A9K17420**
25 A	**A9K17125**	**A9K17625**	**A9K17225**	**A9K17325**	**A9K24725**	**A9K17425**
32 A	**A9K17132**	**A9K17632**	**A9K17232**	**A9K17332**	**A9K24732**	**A9K17432**
40 A(1)	**A9K24140**	**A9K24640**	**A9K24240**	**A9K24340**	**A9K24740**	**A9K24440**
50 A(1)	**A9K24150**	**A9K24650**	**A9K24250**	**A9K24350**	**A9K24750**	**A9K24450**
63 A(1)	**A9K24163**	**A9K24663**	**A9K24263**	**A9K24363**	**A9K24763**	**A9K24463**
Operating frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Width in 9-mm modules	2	4	4	6	8	8
Accessories	**Module CA907000 and CA907001**					

(1) VDE and RT approved, excepted 3P+N products.

iK60N circuit breakers (curve C) (cont.)

DB116619 DB123430

Country approval pictograms

IEC/EN 60898-1

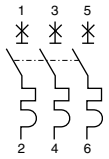
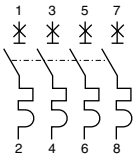
PB104459-40

PB104463-40

- 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 (Icn) as per IEC/EN 60898-1		**Service breaking capacity (Ics)**
Ph/Ph	**400 V**	100 % of Icn
Ph/N	**230 V**	
Rating (In) 1 to 63 A	6000 A	

Catalogue numbers

iK60N circuit breakers					
Type	**1P**	**1P+N**	**2P**	**3P**	**4P**
					
Auxiliaries	**Without auxiliaries**				
Vigi iC60	**Without Vigi iC60**				
Rating (In)	**Curve C**	**Curve C**	**Curve C**	**Curve C**	**Curve C**
1 A	**A9K24101**	**A9K24601**	**A9K24201**	**-**	**-**
2 A	**A9K24102**	**A9K24602**	**A9K24202**	**-**	**-**
3 A	**A9K24103**	**A9K24603**	**A9K24203**	**-**	**-**
4 A	**A9K24104**	**A9K24604**	**A9K24204**	**-**	**-**
6 A	**A9K24106**	**A9K24606**	**A9K24206**	**A9K24306**	**A9K24406**
10 A	**A9K24110**	**A9K24610**	**A9K24210**	**A9K24310**	**A9K24410**
16 A	**A9K24116**	**A9K24616**	**A9K24216**	**A9K24316**	**A9K24416**
20 A	**A9K24120**	**A9K24620**	**A9K24220**	**A9K24320**	**A9K24420**
25 A	**A9K24125**	**A9K24625**	**A9K24225**	**A9K24325**	**A9K24425**
32 A	**A9K24132**	**A9K24632**	**A9K24232**	**A9K24332**	**A9K24432**
40 A	**A9K24140**	**A9K24640**	**A9K24240**	**A9K24340**	**A9K24440**
50 A	**A9K24150**	**A9K24650**	**A9K24250**	**A9K24350**	**A9K24450**
63 A	**A9K24163**	**A9K24663**	**A9K24263**	**A9K24363**	**A9K24463**
Operating frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Width in 9-mm modules	2	4	4	6	8
Accessories	**Module CA907000 and CA907001**				

iK60N circuit breakers (curve C) (cont.)

Country approval pictograms

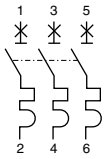
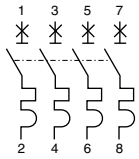
IEC/EN 60898-1

PB104459-40

- 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 (Icn) as per IEC/EN 60898-1		**Service breaking capacity (Ics)**
Ph/Ph	**400 V**	100 % of Icn
Ph/N	**230 V**	
Rating (In) 6 to 63 A	6000 A	

Catalogue numbers

iK60N circuit breakers				
Type	**1P**	**2P**	**3P**	**4P**
				
Auxiliaries	**Without auxiliaries**			
Vigi iC60	**Without Vigi iC60**			
Rating (In)	**Curve C**	**Curve C**	**Curve C**	**Curve 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	**Module CA907000 and CA907001**			

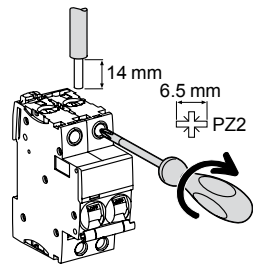
iK60N circuit breakers (curve C) (cont.)

PB104434-40

■ Top or bottom electrical feeding.

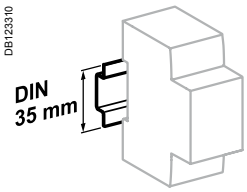
Connection

DB123060

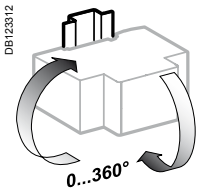


Type	Rating	Tightening torque	Without accessory	
			Copper cables	
			Rigid	Flexible or ferrule
			DB122945 	DB122946 
C curve	1 to 32 A	2 N.m	1 to 25 mm²	1 to 16 mm²
	40 to 63 A	3.5 N.m	1 to 35 mm²	1 to 25 mm²

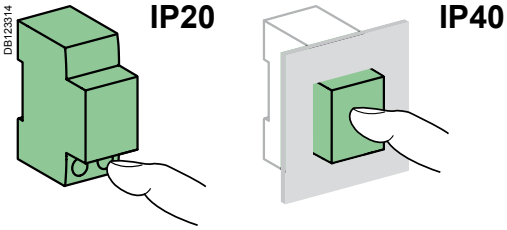
iK60N circuit breakers (curve C) (cont.)



Clip on DIN rail 35 mm.



Position d'installation indifférente.



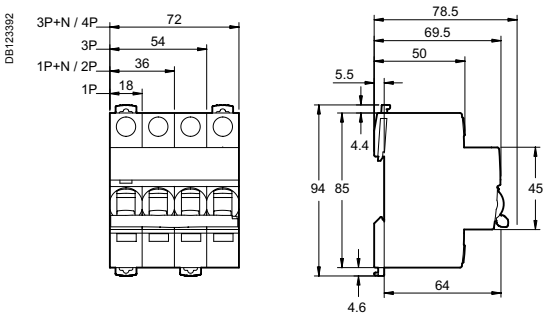
Technical data

Main characteristics		
According to IEC/EN 60898-1		
Insulation voltage (Ui)		440 V AC
Pollution degree		2
Rated impulse withstand voltage (Uimp)		4 kV
Thermal tripping	Reference temperature	30°C
	Temperature derating	See module CA908007
Magnetic tripping	C curve	5 to 10 In
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 Classe d'isolement 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)



K60N circuit breakers
Biconnect

DB116619 DB123865

Country approval pictograms

IEC/EN 60898-1

PB110016-40 PB112242-40

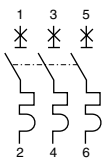
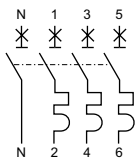
PB111241-40 PB110017-40

■ K60N Biconnect 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.

K60N Biconnect circuit breaker 50/60 Hz		
Breaking capacity in short circuit (Icn) as per IEC/EN 60898-1		**Service breaking capacity (Ics)**
Ph/Ph	**400 V**	100 % of Icn
Ph/N	**230 V**	
Rating (In) 2 to 40 A	6000 A	

Catalogue numbers

K60N Biconnect circuit breaker

Type	1P		1P+N		3P		3P+N
	E450925 		DB123389 		E45095 		DB122592 
Auxiliaries	**Without auxiliaries**		**Without auxiliaries**		**Without auxiliaries**		**Without auxiliaries**
Rating (In)	**Curve**		**Curve**		**Curve**		**Curve**
	B	**C**	**B**	**C**	**B**	**C**	**C**
2 A	-	**A9K02102**	-	-	-	-	-
4 A	-	**A9K02104**	-	-	-	-	-
6 A	**A9K01106**	**A9K02106**	-	-	**A9K01306**	**A9K02306**	-
10 A	**A9K01110**	**A9K02110**	-	-	**A9K01310**	**A9K02310**	-
13 A	**A9K01113**	**A9K02113**	**A9K01613**	**A9K02613**	-	**A9K02313**	**A9K02713**
16 A	**A9K01116**	**A9K02116**	**A9K01616**	**A9K02616**	**A9K01316**	**A9K02316**	**A9K02716**
20 A	**A9K01120**	**A9K02120**	-	-	**A9K01320**	**A9K02320**	-
25 A	**A9K01125**	**A9K02125**	-	-	**A9K01325**	**A9K02325**	-
32 A	**A9K01132**	**A9K02132**	-	-	**A9K01332**	**A9K02332**	-
40 A	**A9K01140**	**A9K02140**	-	-	**A9K01340**	**A9K02340**	-
Operating frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Width in 9-mm modules	2	2	4	4	6	6	8
Accessories	**Padlocking device cat. no. 26970**						

K60N circuit breakers
Biconnect (cont.)

PB110016-60

■ Reinforced cable pull-out strength: serrated terminals

■ Fast closing independent of the speed of actuation of the toggle.

DB404823

057209J_SE-33

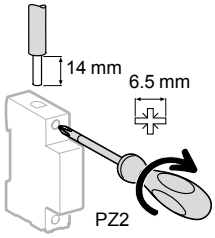
Padlocking device
■ Padlocking possible for work to be carried out on live parts

Connection
■ Downstream by Biconnect comb busbar
■ Upstream/downstream by tunnel terminals

DB405041

Connection

DB123956

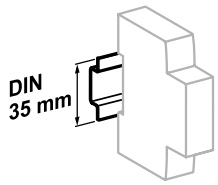


Type	Rating	Tightening torque	Copper cables	
			Rigid	Flexible or ferrule
			DB122945	DB122946
K60N Biconnect	2 to 25 A	2 N.m	0.5 to 25 mm²	0.5 to 16 mm²
	32 - 40 A	3.5 N.m	0.5 to 35 mm²	0.5 to 25 mm²

■ Connection by comb busbar or cables (conforms to EN 50027).

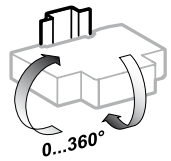
K60N circuit breakers Biconnect (cont.)

DB123309



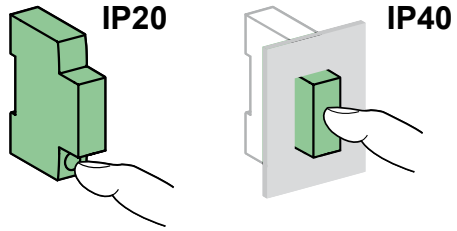
Clip on DIN rail 35 mm.

DB123311



Indifferent position of installation.

DB123313



Technical data

Main characteristics			
Insulation voltage (Ui)	Phase-to-phase		440 V AC
Voltage rating (Ue)	Phase-to-neutral		230 V AC
	Phase-to-phase		400 V AC
Magnetic tripping	B curve	3 to 5 In	■
	C curve	5 to 10 In	■
According to EN 60898-1			
Limitation class			3
Rated breaking capacity (Icn)			6000 A
Service breaking capacity (Ics)			100 % Icn
Rated breaking and making capacity on a single 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	≤ 20 A	20,000 cycles
		≥ 25 A	10,000 cycles
	Mechanical		20,000 cycles
Operating temperature			-25°C to +70°C
Storage temperature			-40°C to +70°C
Tropicalization (IEC 60068-1)			Exécution 2 (humidité relative de 95 % à 55 °C)

Weight (g)

Circuit-breaker	
Type	**K60N Biconnect**
1P	120
1P+N	240
3P	360
3P+N	480

Dimensions (mm)

DB123392