

Protection

Circuit protection

iC60N

Contents

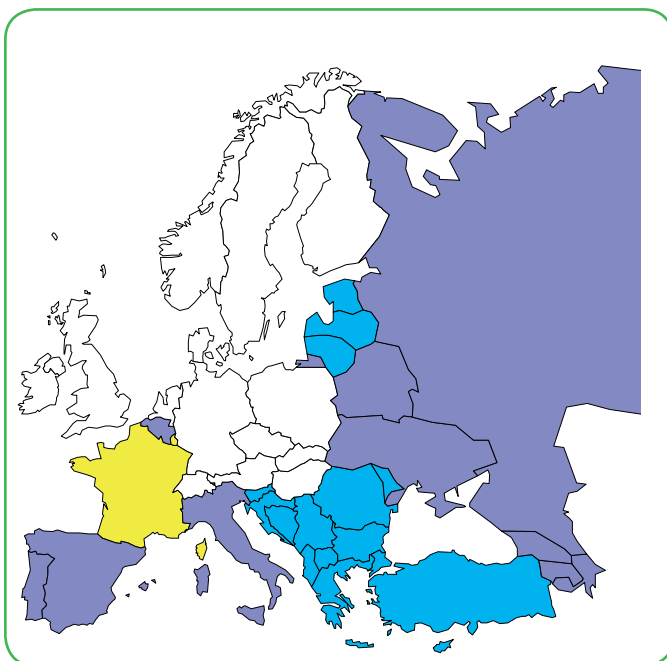


Schneider Electric's range of circuit breakers consists of different products (A, B, C) to enable it to be the most competitive range possible in each country, allowing for the special characteristics of each market:

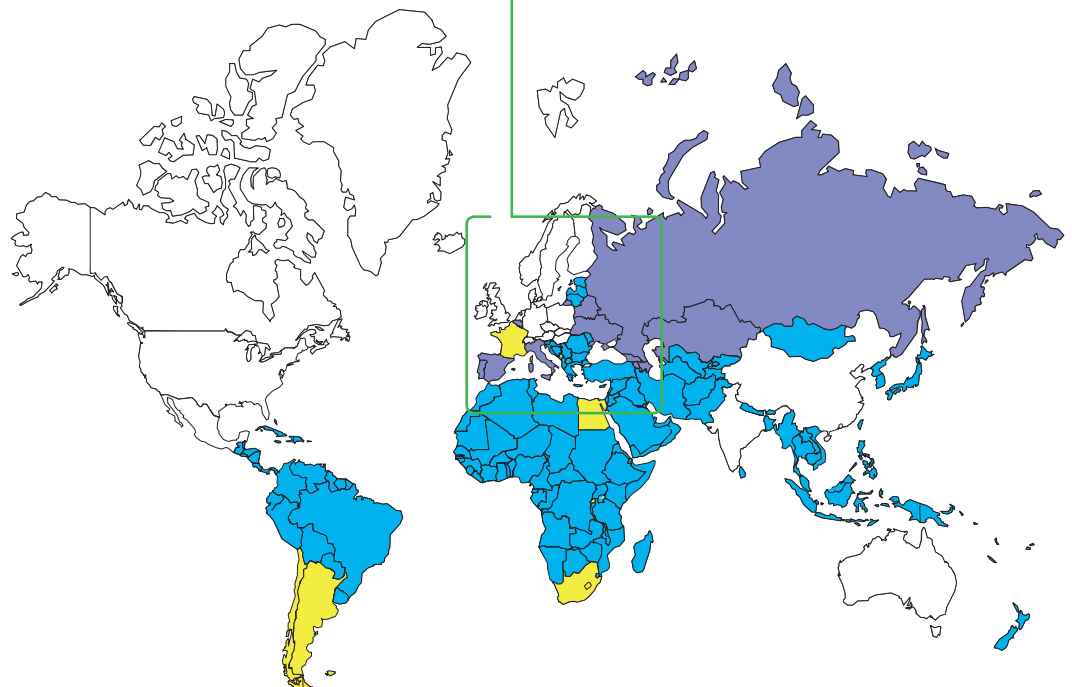
- usual installation procedure
- price
- accreditations by local bodies.

Variants

Offers		Pages
Offer A	Catalogue numbers	2
Offer B	Catalogue numbers	4
Offer C	Catalogue numbers	6
Common pages		8



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.



Protection Circuit protection 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	Voltage (Ue)				Service breaking capacity (Ics)
	12 to 133 V	220 to 240 V	380 to 415 V	440 V	
Ph/Ph (2P, 3P, 4P)	12 to 133 V	220 to 240 V	380 to 415 V	440 V	100 % of Icu
Ph/N (1P, 1P+N)	12 to 60 V	100 to 133 V	220 to 240 V	-	
Rating (In)	0.5 to 4 A	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	Ph/N
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	Voltage (Ue)					Service breaking capacity (Ics)
	Between +/-	≤ 72 V	≤ 125 V	≤ 180 V	≤ 250 V	
Number of poles	1P		2P	3P	4P	100 % of Icu
Rating (In)	0.5 to 63 A	15 kA	10 kA	10 kA	10 kA	

Offer selection see page 1

Offer A

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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.

Protection Circuit protection

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

PB10434-40



■ Insulated terminals IP20

■ Large circuit labelling area

Visi-trip window
■ Fault tripping is indicated by a red mechanical indicator on the front face

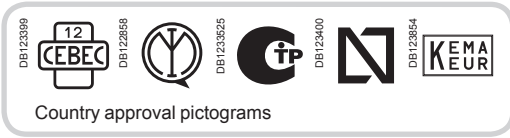
■ Double clip for dismounting with comb busbar in place

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.

	2P			3P			4P					
E45094				E46095						E46097		
	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			
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	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			
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	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					

Protection Circuit protection iC60N circuit breakers (curve B, C, D)



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

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Alternating current (AC) 50/60 Hz

Breaking capacity (Icu) according to IEC/EN 60947-2	Voltage (Ue)				Service breaking capacity (Ics)
	12 to 133 V	220 to 240 V	380 to 415 V	440 V	
Ph/Ph (2P, 3P, 4P)	12 to 133 V	220 to 240 V	380 to 415 V	440 V	100 % of Icu
Ph/N (1P, 1P+N)	12 to 60 V	100 to 133 V	220 to 240 V	-	
Rating (In)	0.5 to 4 A	50 kA	50 kA	50 kA	25 kA
	6 to 63 A	36 kA	20 kA	10 kA	6 kA
					75 % of Icu

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

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

Direct current (DC)

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

Offer selection see page 1
Offer B

Catalogue numbers

iC60N circuit breaker

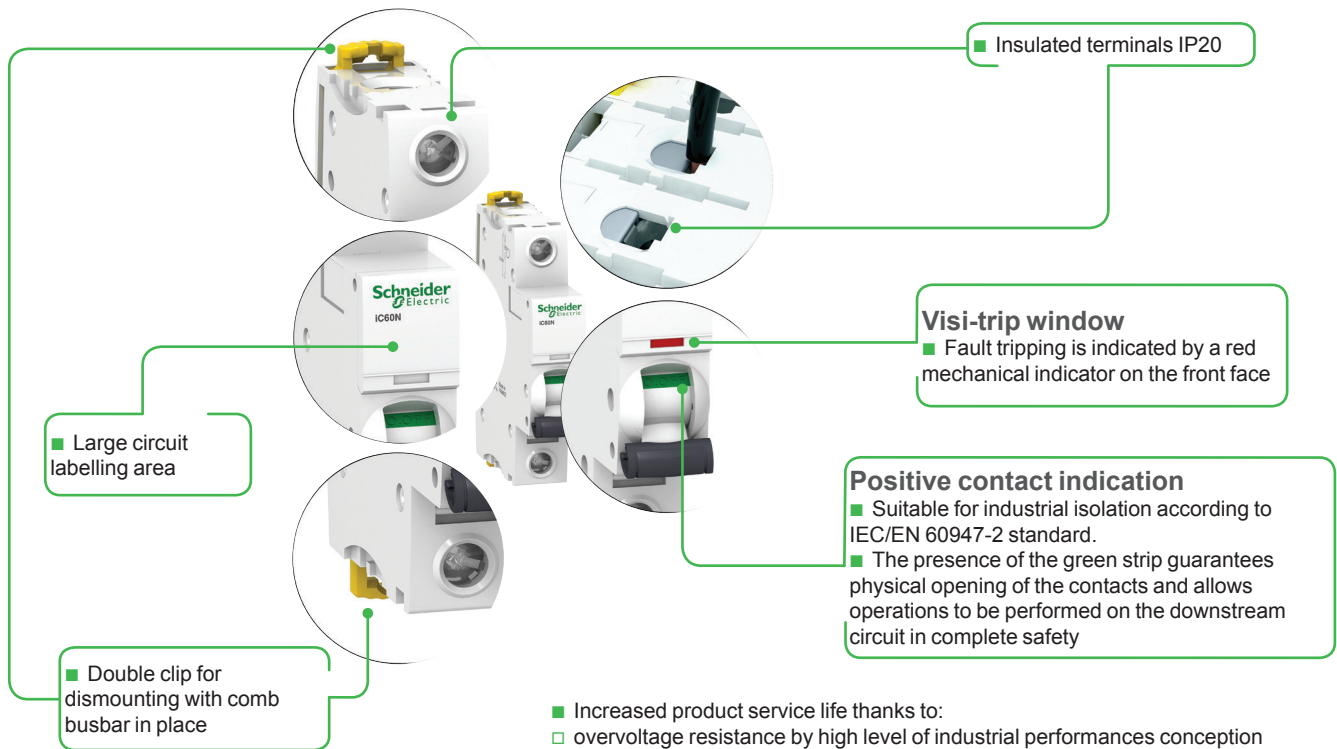
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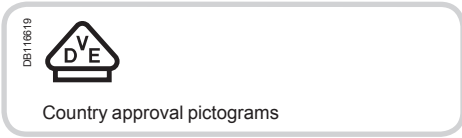
PB104434-40



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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)



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

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

Direct current (DC)

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

Offer selection see page 1

Offer

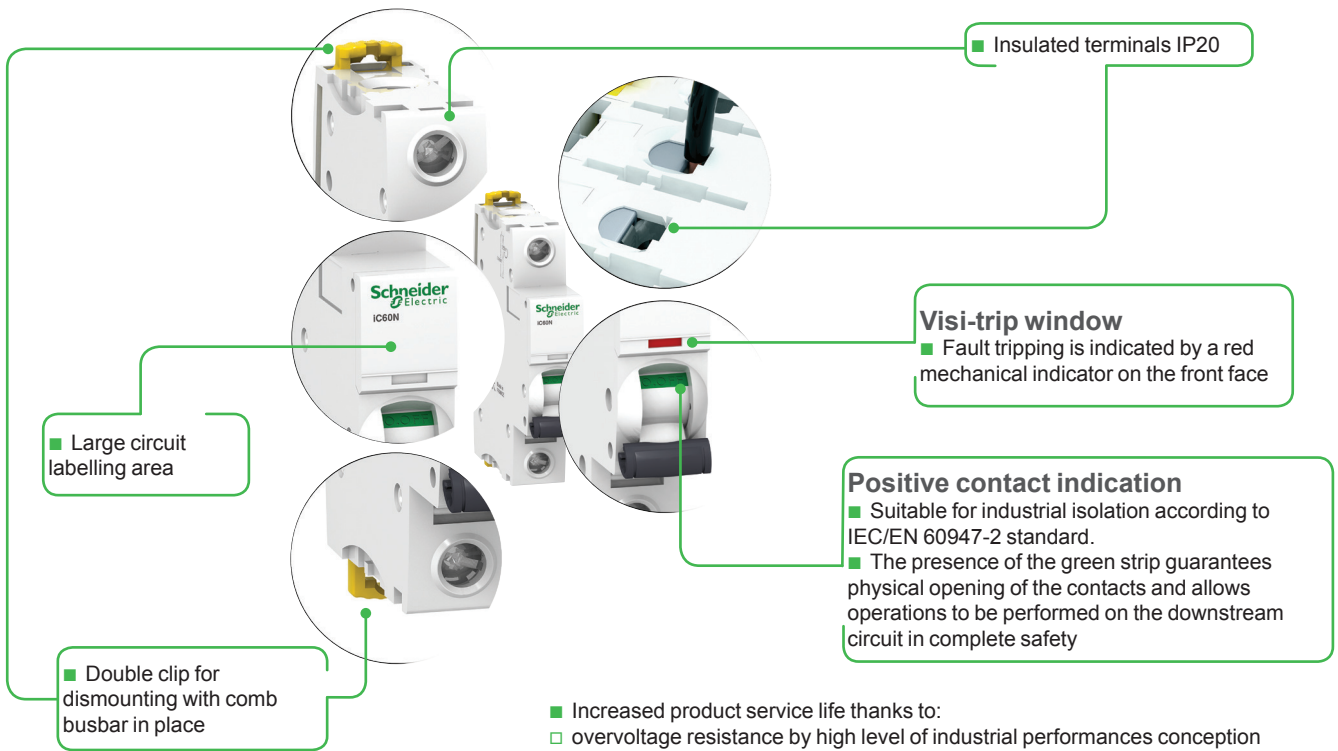
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Catalogue numbers

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	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.)

PB10434-40



Positive contact indication

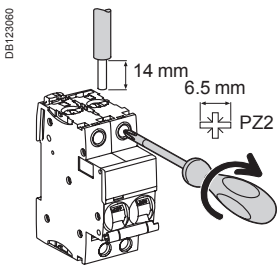
- Suitable for industrial isolation according to IEC/EN 60947-2 standard.
- The presence of the green strip guarantees physical opening of the contacts and allows operations to be performed on the downstream circuit in complete safety

- 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.

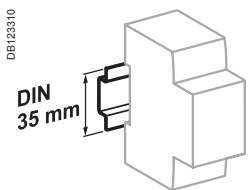
2P			3P			4P		
E46094			E46095			E46097		
Remote tripping and indication, module CA907000 and CA907002			Remote tripping and indication, module CA907000 and CA907002			Remote tripping and indication, module CA907000 and CA907002		
Vigi iC60 add-on residual current device, module CA902005			Vigi iC60 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.)

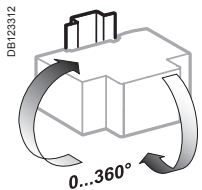
Connection



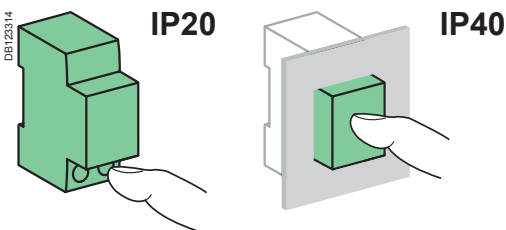
Rating	Tightening torque	Without accessory		With accessories		
		Rigid	Flexible or with ferrule	50 mm ² Al terminal	Screw-on connection for ring terminal	Multi-cables terminal
0.5 to 25 A	2 N.m	DB122945	DB122946	DB122935	DB118789	DB118787
32 to 63 A	3.5 N.m	1 to 25 mm ²	1 to 16 mm ²	-	Ø 5 mm	-
		1 to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



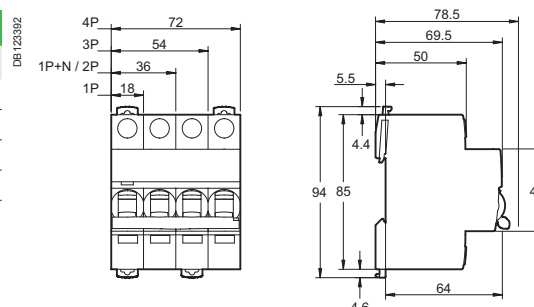
Technical data

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 %
	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
		Insulation class 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 circuit breakers (curve B, C, D) (cont.)



Indice	Date	Modification	Name
3.0	18/02/2017	New charte	Sonovision
2.5	14/10/2014	Changed rating 1 to 0.5 A, in direct current breaking capacity table	Sedoc
2.4	7/01/2013	Add KEMA KEUR pictogram for offer B	Sedoc
2.3	19/09/2012	Changed DC 12 to 48 V by 12 to 60 V	Sedoc
2.2	10/07/2012	Changed DC breaking capacity	Sedoc
2.1	27/10/2011	Add CS and IRAM pictograms on offer A	Sedoc
2.0	19/05/2011	InDesign CS5	Sedoc
1.5	12/05/2011	Change characteristics in "DC-Breaking capacity"	Sedoc
1.4	7/04/2011	Add IT Breaking capacity in Additional characteristic table	Sedoc
1.3	20/10/2010	Add Chile, Argentine and Egypt in A offer	Sedoc
1.2	1/10/2010	Change rating 0.5 to 1 A, in direct current breaking capacity table	Sedoc
1.1	20/04/2010	Add offers pages	Sedoc
1.0	21/09/2010	Creation	Sedoc