

Protection

Circuit protection

Acti9 iC60N

Contents

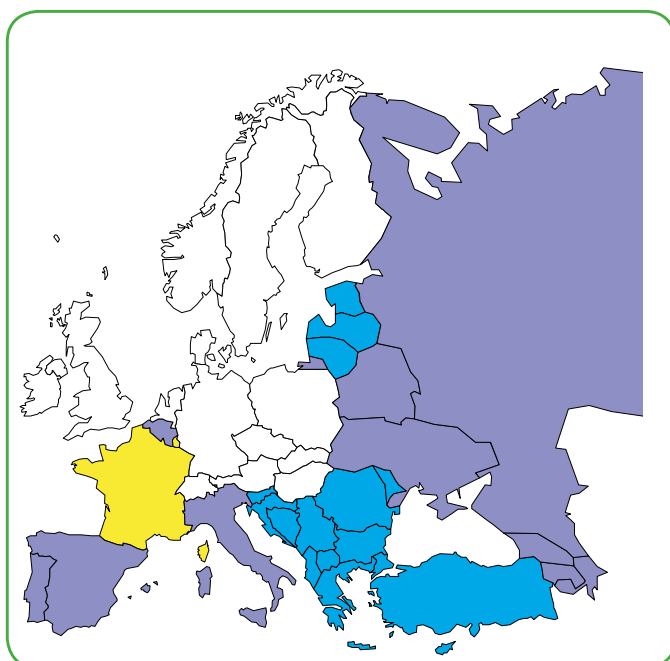
Schneider Electric's range of circuit breakers consists of different products (A, B, C) to enable it to be the most competitive range possible in each country, allowing for the special characteristics of each market:

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

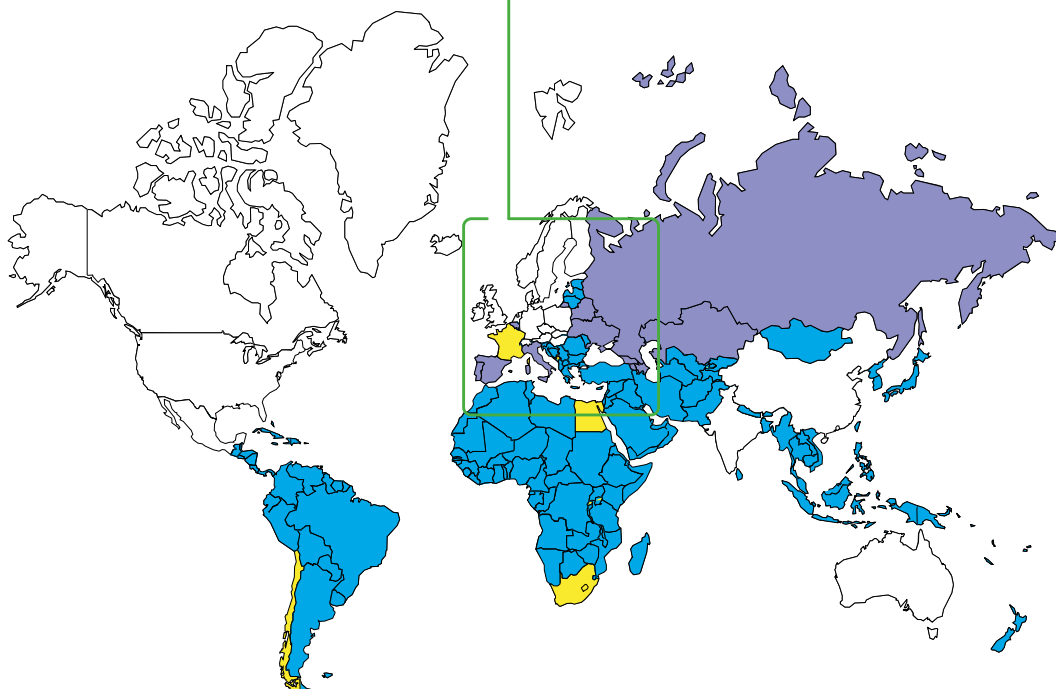


Variants

Offers		Pages
Offer A	Catalog numbers	2
Offer B	Catalog numbers	4
Offer C	Catalog 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

Acti9 iC60N circuit breakers (B, C, D curve)



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

As per the above standards:

- 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
					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

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

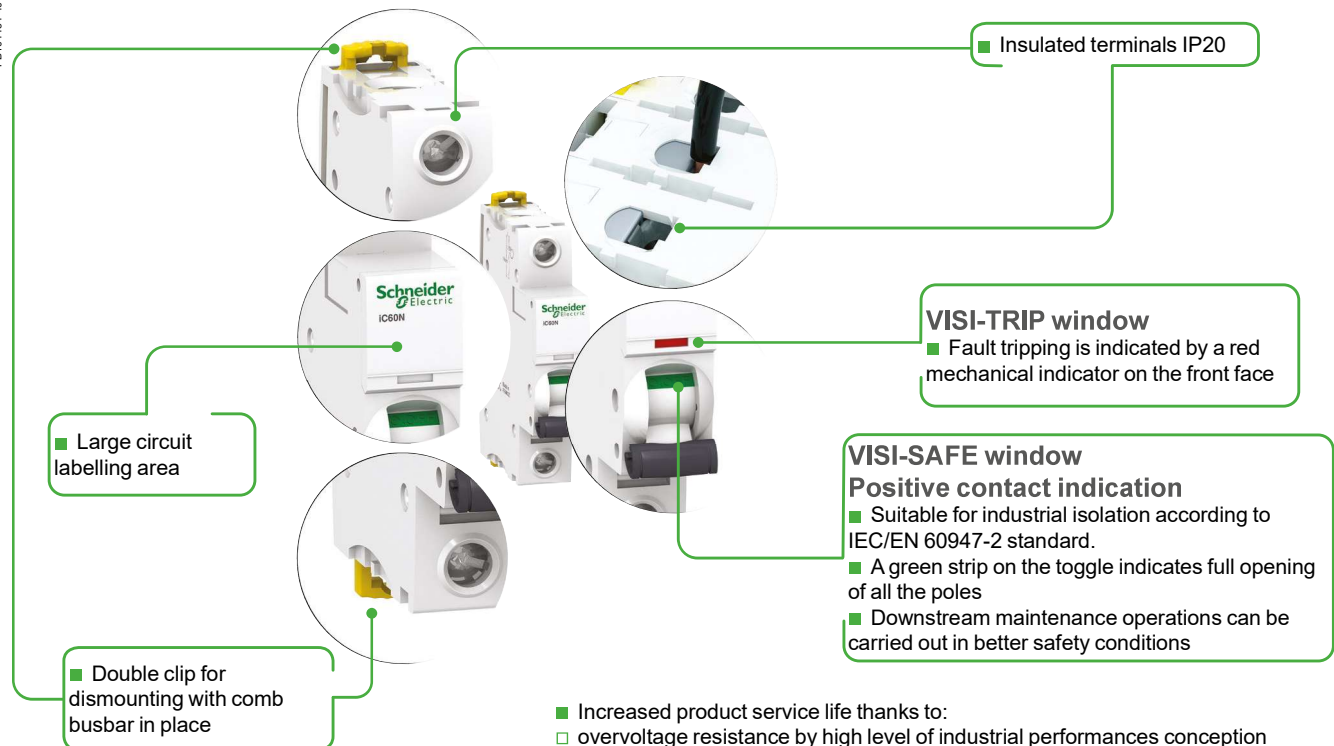
Catalog numbers

iC60N circuit breaker

Type	1P			1P+N		
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		
Vigi iC60	Vigi iC60 add-on residual current device, catalog module CA902005			Vigi iC60 add-on residual current device, catalog module CA902005		
Auxiliaries	Remote tripping and indication, catalog modules CA907000 and CA907002			Remote tripping and indication, catalog modules CA907000 and CA907002		
Accessories	Catalog modules CA907000 and CA907001			Catalog modules CA907000 and CA907001		

Acti9 iC60N circuit breakers (B, C, D curve) (cont.)

PB10434-40

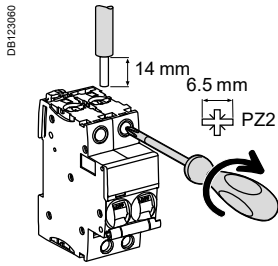


- Increased product service life thanks to:
 - overvoltage resistance by high level of industrial performances conception (pollution degree, rated impulse withstand voltage and insulation voltage),
 - high performance limitation (see limitation curves),
 - fast closing independent of the speed of actuation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

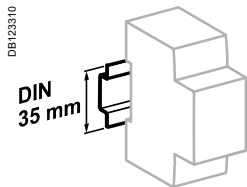
E45094	2P			E45095	3P			E45097	4P		
	Curve				Curve				Curve		
	B	C	D		B	C	D		B	C	D
	A9F73270	A9F74270	A9F75270		A9F73370	A9F74370	A9F75370		A9F73470	A9F74470	A9F75470
	A9F73201	A9F74201	A9F75201		A9F73301	A9F74301	A9F75301		A9F73401	A9F74401	A9F75401
	A9F73202	A9F74202	A9F75202		A9F73302	A9F74302	A9F75302		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		
	Vigi iC60 add-on residual current device, catalog module CA902005				Vigi iC60 add-on residual current device, catalog module CA902005				Vigi iC60 add-on residual current device, catalog module CA902005		
	Remote tripping and indication, catalog modules CA907000 and CA907002				Remote tripping and indication, catalog modules CA907000 and CA907002				Remote tripping and indication, catalog modules CA907000 and CA907002		
	Catalog modules CA907000 and CA907001				Catalog modules CA907000 and CA907001				Catalog modules CA907000 and CA907001		

Acti9 iC60N circuit breakers (B, C, D curve) (cont.)

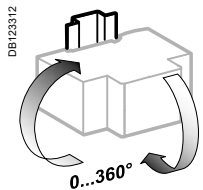
Connection



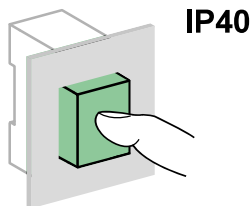
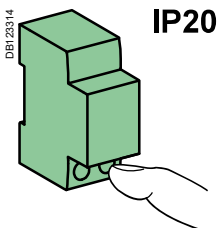
Rating	Tightening torque	Without accessory		With accessories			
		Copper cables		50 mm ² Al terminal	Screw-on connection for ring terminal	Multi-cables terminal	
		Rigid	Flexible or with ferrule			Rigid cables	Flexible cables
		DB122945	DB122946	DB122935	DB118789	DB118787	
0.5 to 25 A	2 N.m	1 to 25 mm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



Clip on DIN rail 35 mm.



Indifferent position of installation.



Technical data

Main characteristics

According to IEC/EN 60947-2

Insulation voltage (U _i)	500 V AC
Pollution degree	3
Rated impulse withstand voltage (U _{imp})	6 kV
Thermal tripping	Reference temperature
	Temperature derating
Magnetic tripping	B curve
	C curve
	D curve

Utilization category	A
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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)

