iC60N circuit breakers (curve B, C, D)

DB116619

Country approval pictograms

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 72 V	100 to 133 V		220 to 250 V	
Number of poles		1P	2P (in series)	3P (in series)	4P (in series)	
Rating (In)	1 to 63 A	6 kA	6 kA	6 kA	6 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	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

■ Insulated terminals IP20

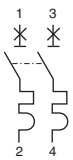
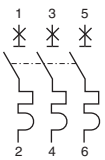
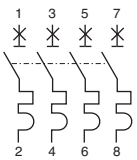
Visi-trip window
■ Fault tripping is indicated by a red mechanical indicator on the front face

■ Large circuit labelling area

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

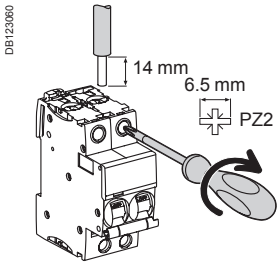
■ Double clip for dismounting with comb busbar in place

■ 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.

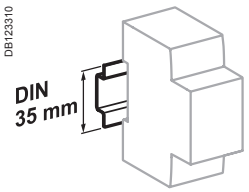
	2P			3P			4P		
									
	Remote tripping and indication, module CA907000 and CA907002			**Remote tripping and indication, module CA907000 and CA907002**			**Remote tripping and indication, module CA907000 and CA907002**		
	Vigi iC60 add-on residual current device, module CA902005			**Vigi iC60 add-on residual current device, module CA902005**			**Vigi iC60 add-on residual current device, module CA902005**		
	Curve			**Curve**			**Curve**		
	B	**C**	**D**	**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.)

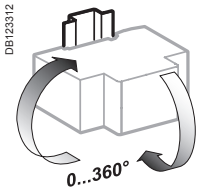
Connection



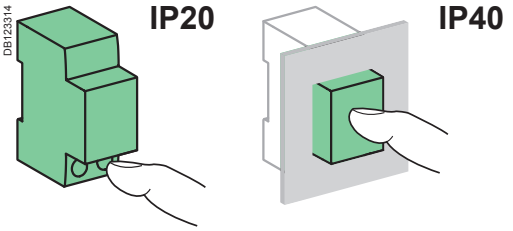
Rating	Tightening torque	Without accessory: Copper cables – Rigid	Without accessory: Copper cables – Flexible or ferrule	With accessories: 50 mm² Al terminal	With accessories: Screw-on connection for ring terminal	With accessories: Multi-cables terminal – Rigid cables	With accessories: Multi-cables terminal – Flexible cables
		DB122945	DB122946 DB122935	Al DB118789	DB118787 Ø		
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		
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)

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

Weight (g)

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

Dimensions (mm)