

Acti9

Miniature Circuit Breaker and Residual Current Protection Devices

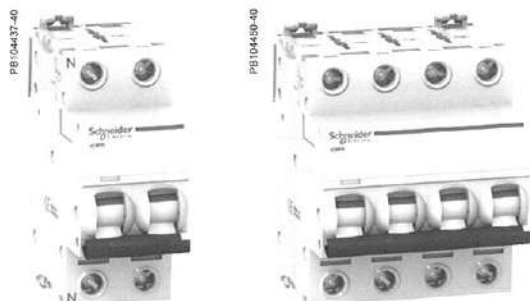
2012



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

Ph/Ph (2P, 3P, 4P)	Voltage (Ue)				Service breaking capacity (Ics)
	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	-	100 % of Icu
Rating (In)	0.5 to 4 A	50 kA	50 kA	25 kA	75 % of Icu
	6 to 63 A	36 kA	20 kA	10 kA	6 kA

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

Ph/Ph	Voltage (Ue)	
	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

Between +/-	Voltage (Ue)				Service breaking capacity (Ics)
	12 to 48 V	72 V	100 to 133 V	220 to 250 V	
Number of poles	1P	2P (in series)	3P (in series)	4P (in series)	100 % of Icu
Rating (In)	1 to 63 A	15 kA	6 kA	6 kA	6 kA

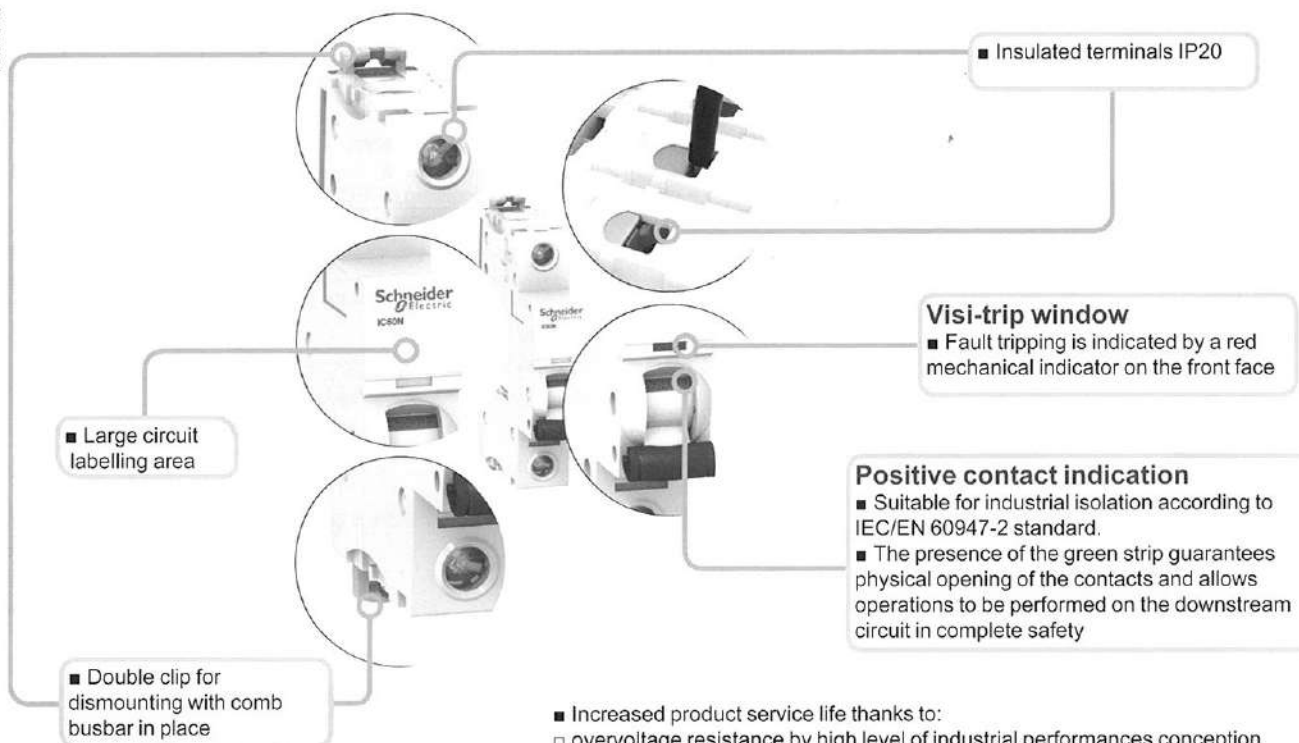
Catalogue numbers

iC60N circuit breaker

Type	1P			2P		
Rating (In)	Curve			Curve		
	B	C	D	B	C	D
1 A	A9F73101	A9F74101	A9F75101	A9F73201	A9F74201	A9F75201
2 A	A9F73102	A9F74102	A9F75102	A9F73202	A9F74202	A9F75202
3 A	A9F73103	A9F74103	A9F75103	A9F73203	A9F74203	A9F75203
4 A	A9F73104	A9F74104	A9F75104	A9F73204	A9F74204	A9F75204
6 A	A9F73106	A9F74106	A9F75106	A9F73206	A9F74206	A9F75206
10 A	A9F73110	A9F74110	A9F75110	A9F73210	A9F74210	A9F75210
13 A	A9F73113	A9F74113	A9F75113	A9F73213	A9F74213	A9F75213
16 A	A9F73116	A9F74116	A9F75116	A9F73216	A9F74216	A9F75216
20 A	A9F73120	A9F74120	A9F75120	A9F73220	A9F74220	A9F75220
25 A	A9F73125	A9F74125	A9F75125	A9F73225	A9F74225	A9F75225
32 A	A9F73132	A9F74132	A9F75132	A9F73232	A9F74232	A9F75232
40 A	A9F73140	A9F74140	A9F75140	A9F73240	A9F74240	A9F75240
50 A	A9F73150	A9F74150	A9F75150	A9F73250	A9F74250	A9F75250
63 A	A9F73163	A9F74163	A9F75163	A9F73263	A9F74263	A9F75263
Width in 9-mm modules	2			4		

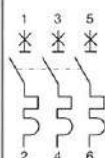
iC60N circuit breakers (curve B, C, D) (cont.)

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.

3P



Curve

B

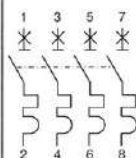
C

D

A9F73301	A9F74301	A9F75301
A9F73302	A9F74302	A9F75302
A9F73303	A9F74303	A9F75303
A9F73304	A9F74304	A9F75304
A9F73306	A9F74306	A9F75306
A9F73310	A9F74310	A9F75310
A9F73313	A9F74313	A9F75313
A9F73316	A9F74316	A9F75316
A9F73320	A9F74320	A9F75320
A9F73325	A9F74325	A9F75325
A9F73332	A9F74332	A9F75332
A9F73340	A9F74340	A9F75340
A9F73350	A9F74350	A9F75350
A9F73363	A9F74363	A9F75363

6

4P



Curve

B

C

D⁽¹⁾

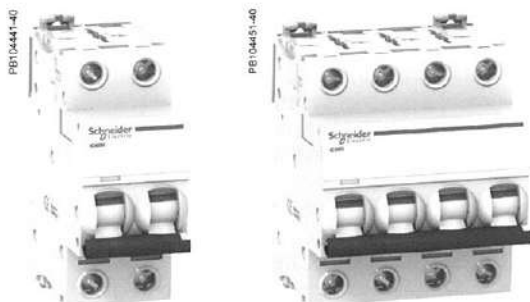
A9F73401	A9F74401	A9F75401
A9F73402	A9F74402	A9F75402
A9F73403	A9F74403	A9F75403
A9F73404	A9F74404	A9F75404
A9F76406	A9F77406	A9F75406
A9F76410	A9F77410	A9F75410
A9F73413	A9F74413	A9F75413
A9F76416	A9F77416	A9F75416
A9F76420	A9F77420	A9F75420
A9F76425	A9F77425	A9F75425
A9F76432	A9F77432	A9F75432
A9F76440	A9F77440	A9F75440
A9F76450	A9F77450	A9F75450
A9F76463	A9F77463	A9F75463

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iC60H circuit breakers (curve B, C, D)



Country approval pictograms



IEC/EN 60947-2

IEC/EN 60898-1

- iC60H circuit breakers are multi-standard circuit breakers which combine the following functions:
 - circuit protection against short-circuit currents,
 - circuit protection against overload currents,
 - suitable for industrial isolation according to IEC/EN 60947-2, standard.
 - fault tripping indication by a red mechanical indicator in circuit breaker front face.

Alternating current (AC) 50/60 Hz

Breaking capacity (Icu) according to IEC/EN 60947-2

Ph/Ph (2P, 3P, 4P)	Voltage (Ue)				Service breaking capacity (Ics)
	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	-	100 % of Icu
Rating (In)	0.5 to 4 A	70 kA	70 kA	70 kA	50 kA
	6 to 40 A	42 kA	30 kA	15 kA	10 kA
	50/63 A	42 kA	-	15 kA	10 kA

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

Ph/Ph	Voltage (Ue)	
	400 V	
Ph/N	230 V	
Rating (In)	0.5 to 63 A	10000 A

Direct current (DC)

Breaking capacity (Icu) according to IEC/EN 60947-2

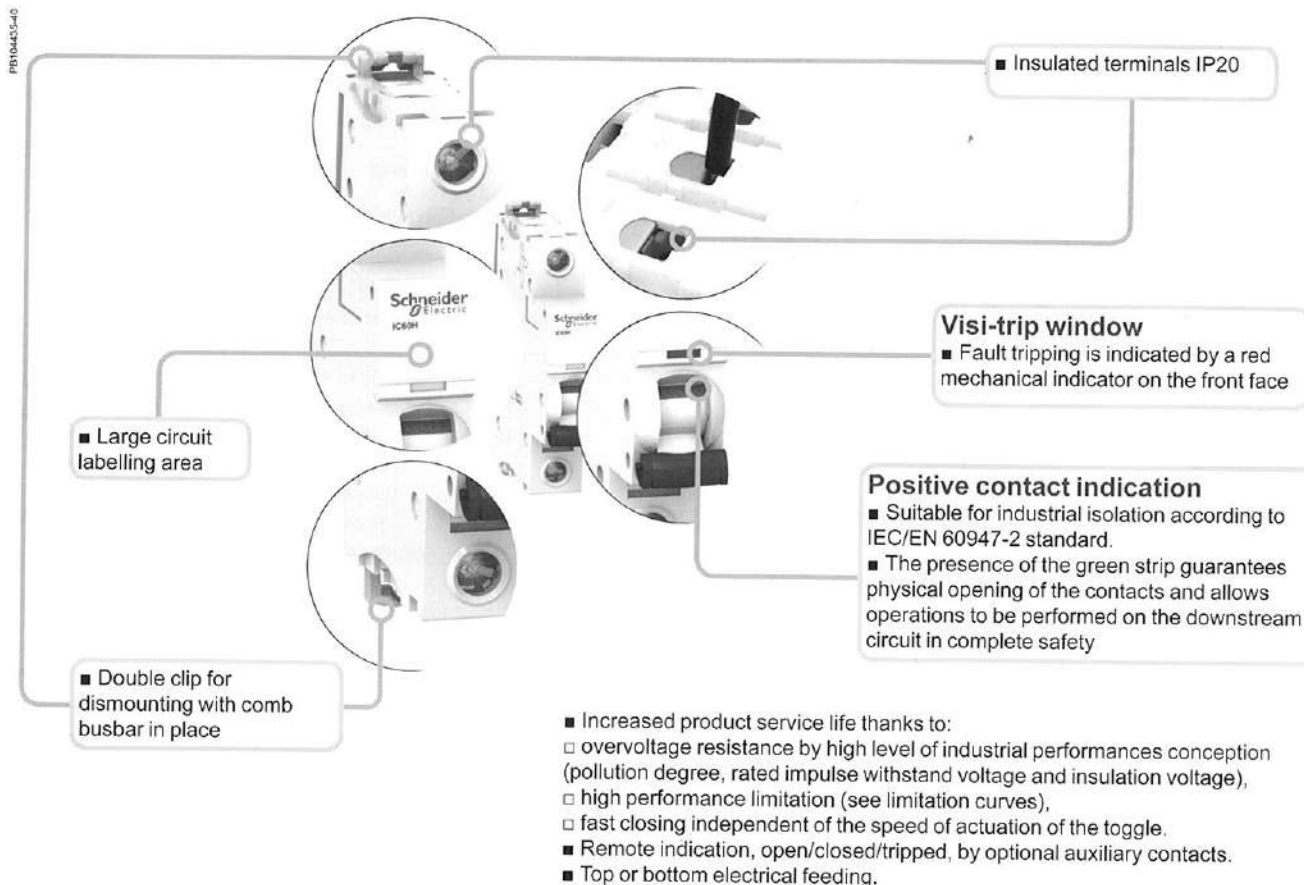
Between +/-	Voltage (Ue)				Service breaking capacity (Ics)
	12 to 48 V	72 V	100 to 133 V	220 to 250 V	
Number of poles	1P		2P (in series)	3P (in series)	4P (in series)
Rating (In)	1 to 63 A	20 kA	10 kA	10 kA	10 kA

Catalogue numbers

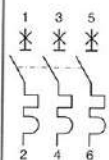
iC60H circuit breaker

Type	1P			2P		
Rating (In)	Curve			Curve		
	B	C	D	B	C	D
1 A	A9F83101	A9F84101	A9F85101	A9F83201	A9F84201	A9F85201
2 A	A9F83102	A9F84102	A9F85102	A9F83202	A9F84202	A9F85202
3 A	A9F83103	A9F84103	A9F85103	A9F83203	A9F84203	A9F85203
4 A	A9F83104	A9F84104	A9F85104	A9F83204	A9F84204	A9F85204
6 A	A9F83106	A9F84106	A9F85106	A9F83206	A9F84206	A9F85206
10 A	A9F83110	A9F84110	A9F85110	A9F83210	A9F84210	A9F85210
13 A	A9F83113	A9F84113	A9F85113	A9F83213	A9F84213	A9F85213
16 A	A9F83116	A9F84116	A9F85116	A9F83216	A9F84216	A9F85216
20 A	A9F83120	A9F84120	A9F85120	A9F83220	A9F84220	A9F85220
25 A	A9F83125	A9F84125	A9F85125	A9F83225	A9F84225	A9F85225
32 A	A9F83132	A9F84132	A9F85132	A9F83232	A9F84232	A9F85232
40 A	A9F83140	A9F84140	A9F85140	A9F83240	A9F84240	A9F85240
50 A	A9F83150	A9F84150	A9F85150	A9F83250	A9F84250	A9F85250
63 A	A9F83163	A9F84163	A9F85163	A9F83263	A9F84263	A9F85263
Width in 9-mm modules	2			4		

iC60H circuit breakers (curve B, C, D) (cont.)



3P



Curve

B

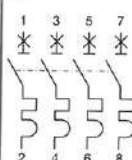
C

D

A9F83301	A9F84301	A9F85301
A9F83302	A9F84302	A9F85302
A9F83303	A9F84303	A9F85303
A9F83304	A9F84304	A9F85304
A9F83306	A9F84306	A9F85306
A9F83310	A9F84310	A9F85310
A9F83313	A9F84313	A9F85313
A9F83316	A9F84316	A9F85316
A9F83320	A9F84320	A9F85320
A9F83325	A9F84325	A9F85325
A9F83332	A9F84332	A9F85332
A9F83340	A9F84340	A9F85340
A9F83350	A9F84350	A9F85350
A9F83363	A9F84363	A9F85363

6

4P



Curve

B

C

K

Z

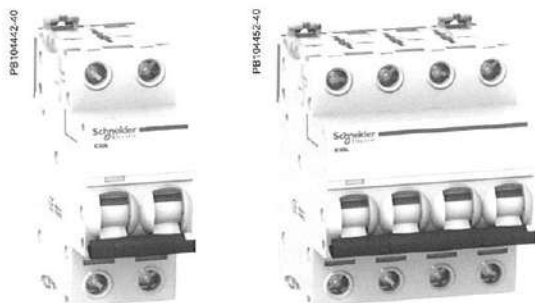
A9F93401	A9F94401	A9F95401	A9F92401
-	-	A9F95472	A9F92472
A9F93402	A9F94402	A9F95402	A9F92402
A9F93403	A9F94403	A9F95403	A9F92403
A9F93404	A9F94404	A9F95404	A9F92404
A9F93406	A9F94406	A9F95406	A9F92406
A9F93410	A9F94410	A9F95410	A9F92410
A9F93416	A9F94416	A9F95416	A9F92416
A9F93420	A9F94420	A9F95420	A9F92420
A9F93425	A9F94425	A9F95425	A9F92425
A9F93432	A9F94432	A9F95432	A9F92432
A9F93440	A9F94440	A9F95440	A9F92440
A9F93450	A9F94450	A9F95450	A9F92450
A9F93463	A9F94463	A9F95463	A9F92463

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iC60L circuit breakers (curve B, C, K, Z)



Country approval pictograms



IEC/EN 60947-2 IEC/EN 60898-1 up to 40 A

- iC60L circuit breakers are multi-standard circuit breakers which combine the following functions:
 - circuit protection against short-circuit currents,
 - circuit protection against overload currents,
 - suitable for industrial isolation according to IEC/EN 60947-2, standard.
 - fault tripping indication by a red mechanical indicator in circuit breaker front face.

Alternating current (AC) 50/60 Hz

Breaking capacity (Icu) according to IEC/EN 60947-2

Ph/Ph (2P, 3P, 4P) Ph/N (1P) Rating (In)	Voltage (Ue)					Service breaking capacity (Ics)
	12 to 133 V	220 to 240 V	380 to 415 V	440 V		
0.5 to 4 A	100 kA	100 kA	100 kA	70 kA		100 % of Icu
6 to 25 A	70 kA	-	25 kA	20 kA		50 % of Icu ⁽¹⁾
32 / 40 A	70 kA	-	20 kA	15 kA		50 % of Icu
50 / 63 A	70 kA	-	15 kA	10 kA		50 % of Icu

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

Ph/Ph Ph/N Rating (In)	Voltage (Ue)	
	400 V	230 V
0.5 to 40 A	15000 A	

Direct current (DC)

Breaking capacity (Icu) according to IEC/EN 60947-2

Between +/- Number of poles Rating (In) 1 to 63 A	Voltage (Ue)					Service breaking capacity (Ics)
	12 to 48 V	72 V	100 to 144 V	220 to 250 V		
	1P	2P (in series)	3P (in series)	4P (in series)		100 % of Icu
	25 kA	15 kA	15 kA	25 kA	15 kA	

Catalogue numbers

iC60L circuit breaker

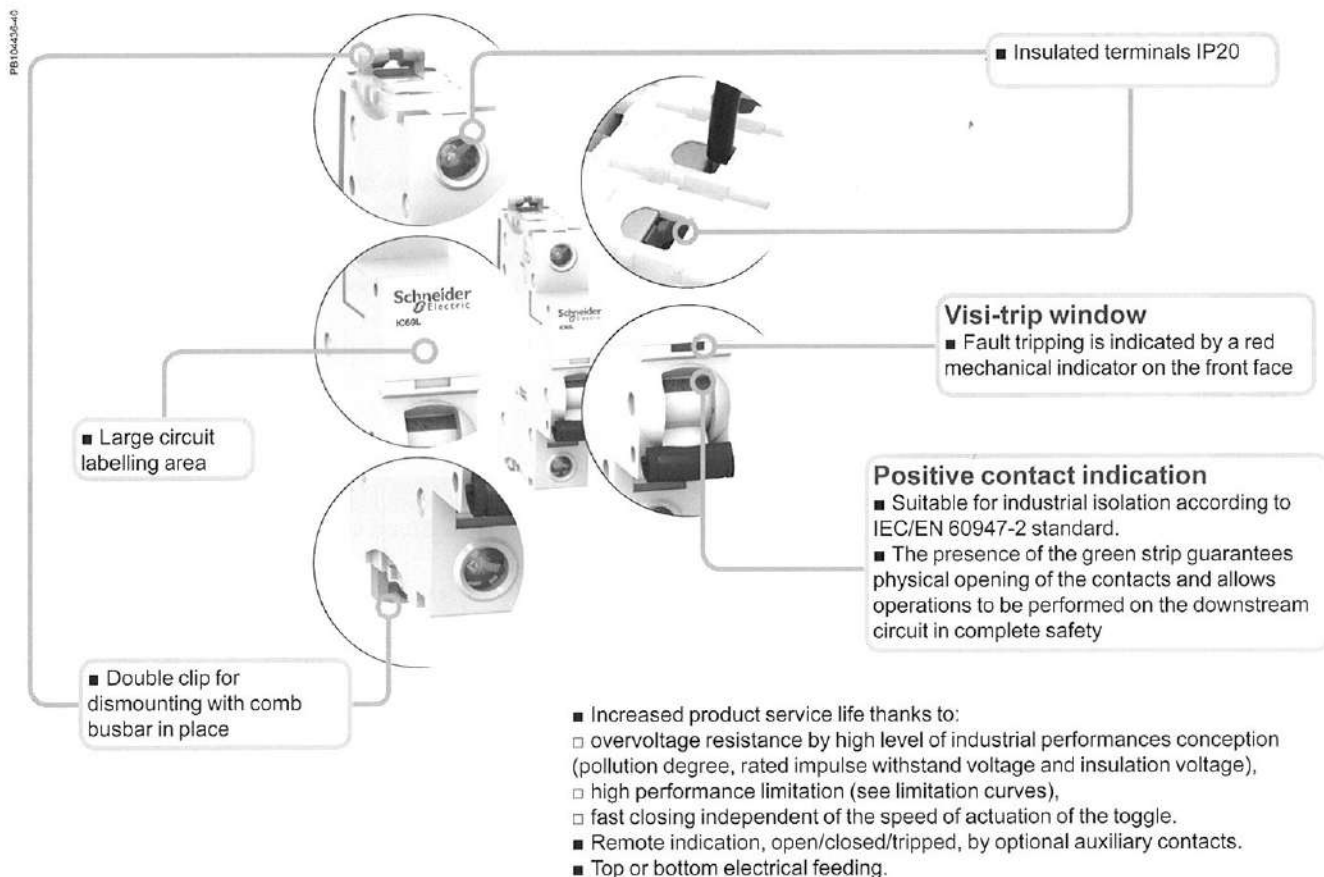
Type		1P				2P			
Rating (In)	Quality label (2)	Curve				Curve			
		B	C	K	Z	B	C	K	Z
0.5 A		A9F93170	A9F94170	A9F95170	A9F92170	A9F93270	A9F94270	A9F95270	A9F92270
1 A		A9F93101	A9F94101	A9F95101	A9F92101	A9F93201	A9F94201	A9F95201	A9F92201
2 A		A9F93102	A9F94102	A9F95102	A9F92102	A9F93202	A9F94202	A9F95202	A9F92202
3 A		A9F93103	A9F94103	A9F95103	A9F92103	A9F93203	A9F94203	A9F95203	A9F92203
4 A		A9F93104	A9F94104	A9F95104	A9F92104	A9F93204	A9F94204	A9F95204	A9F92204
6 A		A9F93106	A9F94106	A9F95106	A9F92106	A9F93206	A9F94206	A9F95206	A9F92206
10 A		A9F93110	A9F94110	A9F95110	A9F92110	A9F93210	A9F94210	A9F95210	A9F92210
16 A		A9F93116	A9F94116	A9F95116	A9F92116	A9F93216	A9F94216	A9F95216	A9F92216
20 A		A9F93120	A9F94120	A9F95120	A9F92120	A9F93220	A9F94220	A9F95220	A9F92220
25 A		A9F93125	A9F94125	A9F95125	A9F92125	A9F93225	A9F94225	A9F95225	A9F92225
32 A		A9F93132	A9F94132	A9F95132	A9F92132	A9F93232	A9F94232	A9F95232	A9F92232
40 A		A9F93140	A9F94140	A9F95140	A9F92140	A9F93240	A9F94240	A9F95240	A9F92240
50 A		A9F93150	A9F94150	A9F95150 ⁽³⁾	A9F92150	A9F93250	A9F94250	A9F95250	A9F92250
63 A		A9F93163	A9F94163	A9F95163 ⁽³⁾	A9F92163	A9F93263	A9F94263	A9F95263	A9F92263
Width in 9-mm modules		2				4			

(1) 100 % of Icu for ratings 6 to 25 A under Ue 100 to 133 V AC Ph/Ph and Ue 12 to 60 V AC Ph/N.

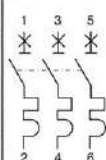
(2) Information to be provided by the country.

(3) Without approval.

iC60L circuit breakers (curve B, C, K, Z) (cont.)



3P

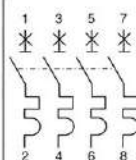


Curve

B	C	K	Z
A9F93370	A9F94370	A9F95370	A9F92370
A9F93301	A9F94301	A9F95301	A9F92301
A9F93302	A9F94302	A9F95302	A9F92302
A9F93303	A9F94303	A9F95303	A9F92303
A9F93304	A9F94304	A9F95304	A9F92304
A9F93306	A9F94306	A9F95306	A9F92306
A9F93310	A9F94310	A9F95310	A9F92310
A9F93316	A9F94316	A9F95316	A9F92316
A9F93320	A9F94320	A9F95320	A9F92320
A9F93325	A9F94325	A9F95325	A9F92325
A9F93332	A9F94332	A9F95332	A9F92332
A9F93340	A9F94340	A9F95340	A9F92340
A9F93350	A9F94350	A9F95350	A9F92350
A9F93363	A9F94363	A9F95363	A9F92363

4

4P

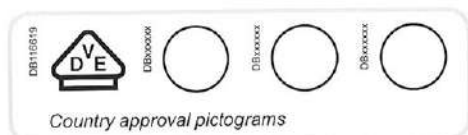


Curve

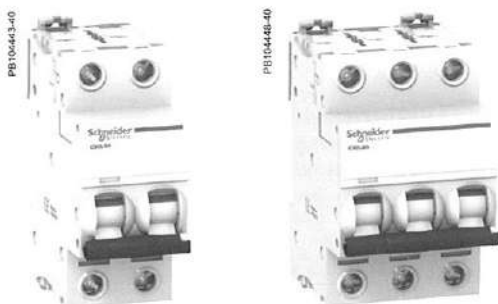
B	C	K	Z
A9F93470	A9F94470	A9F95470	A9F92470
A9F93401	A9F94401	A9F95401	A9F92401
A9F93402	A9F94402	A9F95402	A9F92402
A9F93403	A9F94403	A9F95403	A9F92403
A9F93404	A9F94404	A9F95404	A9F92404
A9F93406	A9F94406	A9F95406	A9F92406
A9F93410	A9F94410	A9F95410	A9F92410
A9F93416	A9F94416	A9F95416	A9F92416
A9F93420	A9F94420	A9F95420	A9F92420
A9F93425	A9F94425	A9F95425	A9F92425
A9F93432	A9F94432	A9F95432	A9F92432
A9F93440	A9F94440	A9F95440	A9F92440
A9F93450	A9F94450	A9F95450	A9F92450
A9F93463	A9F94463	A9F95463	A9F92463

6

iC60L circuit breakers instantaneous circuit breakers (ICB) (curve MA)



IEC/EN 60947-2



- iC60L curve MA circuit breakers combine the following functions:
 - circuit protection against short-circuit currents,
 - suitability for industrial isolation according to IEC/EN 60947-2, standard,
 - fault tripping indication by a red mechanical indicator in circuit breaker front face,
 - to be associated with overload protection for motor.

Alternating current (AC) 50/60 Hz

Breaking capacity (Icu) according to IEC/EN 60947-2

Ph/Ph (2P, 3P) Rating (In)	Voltage (Ue)			Service breaking capacity (Ics)
	220 to 240 V	380 to 415 V	440 V	
1.6 to 16 A	40 kA	20 kA	15 kA	50 % of Icu
25 à 40 A	30 kA	15 kA	10 kA	50 % of Icu

Catalogue numbers

iC60L instantaneous trip circuit breaker

Type		2P	3P
Rating (In)	Quality label ⁽¹⁾	Curve MA	Curve MA
1.6 A		A9F90272	A9F90372
2.5 A		A9F90273	A9F90373
4 A		A9F90204	A9F90304
6.3 A		A9F90276	A9F90376
10 A		A9F90210	A9F90310
12.5 A		A9F90282	A9F90382
16 A		A9F90216	A9F90316
25 A		A9F90225	A9F90325
40 A		A9F90240	A9F90340
Width in 9-mm modules		4	6

(1) Information to be provided by the country.