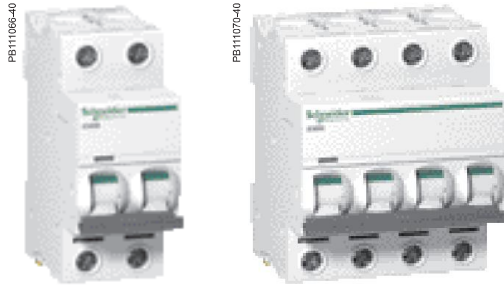


iC60N circuit breakers (curve B, C, D)



CEI/EN 60947-2 BS/EN 60898-1

- Disbo 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.

A

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		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	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)

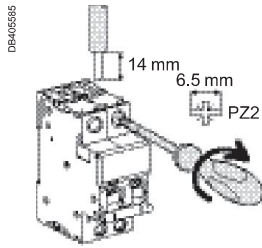
Breaking capacity (Icu) according to IEC/EN 60947-2						Service breaking capacity (Ics)
	Voltage (Ue)					
Between +/-	12 to 48 V	72 V	100 to 133 V	220 to 250 V		100 % of Icu
Number of poles	1P		2P (in series)	3P (in series)	4P (in series)	
Rating (In)	1 to 63 A	15 kA	6 kA	6 kA	15 kA	6 kA

Catalogue numbers

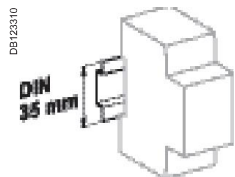
Disbo iC60N circuit breaker						
Type	1P			2P		
Auxiliaries	See page E-2 and F-22			See page E-2 and F-22		
Rating (In)	Curve			Curve		
	B	C	D	B	C	D
0.5 A	A9F43170	A9F44170	A9F45170	A9F43270	A9F44270	A9F45270
1 A	A9F43101	A9F44101	A9F45101	A9F43201	A9F44201	A9F45201
2 A	A9F43102	A9F44102	A9F45102	A9F43202	A9F44202	A9F45202
3 A	A9F43103	A9F44103	A9F45103	A9F43203	A9F44203	A9F45203
4 A	A9F43104	A9F44104	A9F45104	A9F43204	A9F44204	A9F45204
6 A	A9F43106	A9F44106	A9F45106	A9F43206	A9F44206	A9F45206
10 A	A9F43110	A9F44110	A9F45110	A9F43210	A9F44210	A9F45210
16 A	A9F43116	A9F44116	A9F45116	A9F43216	A9F44216	A9F45216
20 A	A9F43120	A9F44120	A9F45120	A9F43220	A9F44220	A9F45220
25 A	A9F43125	A9F44125	A9F45125	A9F43225	A9F44225	A9F45225
32 A	A9F43132	A9F44132	A9F45132	A9F43232	A9F44232	A9F45232
40 A	A9F43140	A9F44140	A9F45140	A9F43240	A9F44240	A9F45240
50 A	A9F43150	A9F44150	A9F45150	A9F43250	A9F44250	A9F45250
63 A	A9F43163	A9F44163	A9F45163	A9F43263	A9F44263	A9F45263
Width in 9-mm modules	2			4		
Accessories	See page E-2 and E-10			See page E-2 and E-10		

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

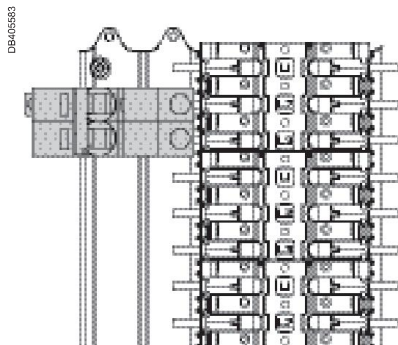
Connection



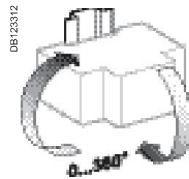
Rating	Tightening torque	Without accessory		With accessories			
		Copper cables Rigid	Copper cables Flexible or ferrule	50 mm ² Al terminal	Screw-on connection for ring terminal	Multi-cables terminal Rigid cables	Multi-cables terminal Flexible cables
0.5 to 25 A	2 N.m	1 to 25 mm ²	1 to 16 mm ²	-	Ø 5 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



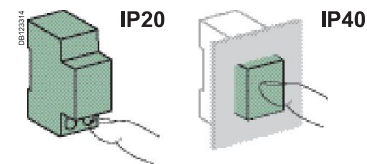
Clip on DIN rail 35 mm.



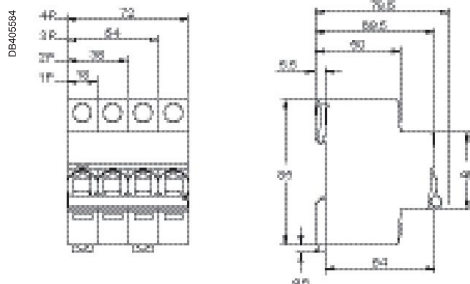
Installation on Fishbone.



Indifferent position of installation.



Dimensions (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 the Technical Guide
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	Disbo iC60N
1P	125
2P	250
3P	375
4P	500