



## NB1 Interrupedores automáticos

SECTOR INDUSTRIAL

### \* Poder de corte: 6kA (6000A)

En conformidad con las normas UNE-EN60898-1 y UL1077

#### NB1 Unipolar 6kA

In (A)	Embalaje	Referencia Curva B	Referencia Curva C	Referencia Curva D
1	12/180	NB1-1-1B	NB1-1-1C	NB1-1-1D
2	12/180	NB1-1-2B	NB1-1-2C	NB1-1-2D
3	12/180	NB1-1-3B	NB1-1-3C	NB1-1-3D
4	12/180	NB1-1-4B	NB1-1-4C	NB1-1-4D
6	12/180	NB1-1-6B	NB1-1-6C	NB1-1-6D
10	12/180	NB1-1-10B	NB1-1-10C	NB1-1-10D
16	12/180	NB1-1-16B	NB1-1-16C	NB1-1-16D
20	12/180	NB1-1-20B	NB1-1-20C	NB1-1-20D
25	12/180	NB1-1-25B	NB1-1-25C	NB1-1-25D
32	12/180	NB1-1-32B	NB1-1-32C	NB1-1-32D
40	12/180	NB1-1-40B	NB1-1-40C	NB1-1-40D
50	12/180	NB1-1-50B	NB1-1-50C	NB1-1-50D
63	12/180	NB1-1-63B	NB1-1-63C	NB1-1-63D

#### NB1 Bipolar 6kA

In (A)	Embalaje	Referencia Curva B	Referencia Curva C	Referencia Curva D
1	6/90	NB1-2-1B	NB1-2-1C	NB1-2-1D
2	6/90	NB1-2-2B	NB1-2-2C	NB1-2-2D
3	6/90	NB1-2-3B	NB1-2-3C	NB1-2-3D
4	6/90	NB1-2-4B	NB1-2-4C	NB1-2-4D
6	6/90	NB1-2-6B	NB1-2-6C	NB1-2-6D
10	6/90	NB1-2-10B	NB1-2-10C	NB1-2-10D
16	6/90	NB1-2-16B	NB1-2-16C	NB1-2-16D
20	6/90	NB1-2-20B	NB1-2-20C	NB1-2-20D
25	6/90	NB1-2-25B	NB1-2-25C	NB1-2-25D
32	6/90	NB1-2-32B	NB1-2-32C	NB1-2-32D
40	6/90	NB1-2-40B	NB1-2-40C	NB1-2-40D
50	6/90	NB1-2-50B	NB1-2-50C	NB1-2-50D
63	6/90	NB1-2-63B	NB1-2-63C	NB1-2-63D

#### NB1 Tripolar 6kA

In (A)	Embalaje	Referencia Curva B	Referencia Curva C	Referencia Curva D
1	4/60	NB1-3-1B	NB1-3-1C	NB1-3-1D
2	4/60	NB1-3-2B	NB1-3-2C	NB1-3-2D
3	4/60	NB1-3-3B	NB1-3-3C	NB1-3-3D
4	4/60	NB1-3-4B	NB1-3-4C	NB1-3-4D
6	4/60	NB1-3-6B	NB1-3-6C	NB1-3-6D
10	4/60	NB1-3-10B	NB1-3-10C	NB1-3-10D
16	4/60	NB1-3-16B	NB1-3-16C	NB1-3-16D
20	4/60	NB1-3-20B	NB1-3-20C	NB1-3-20D
25	4/60	NB1-3-25B	NB1-3-25C	NB1-3-25D
32	4/60	NB1-3-32B	NB1-3-32C	NB1-3-32D
40	4/60	NB1-3-40B	NB1-3-40C	NB1-3-40D
50	4/60	NB1-3-50B	NB1-3-50C	NB1-3-50D
63	4/60	NB1-3-63B	NB1-3-63C	NB1-3-63D

#### NB1 Tetrapolar 6kA

In (A)	Embalaje	Referencia Curva B	Referencia Curva C	Referencia Curva D
1	3/45	NB1-4-1B	NB1-4-1C	NB1-4-1D
2	3/45	NB1-4-2B	NB1-4-2C	NB1-4-2D
3	3/45	NB1-4-3B	NB1-4-3C	NB1-4-3D
4	3/45	NB1-4-4B	NB1-4-4C	NB1-4-4D
6	3/45	NB1-4-6B	NB1-4-6C	NB1-4-6D
10	3/45	NB1-4-10B	NB1-4-10C	NB1-4-10D
16	3/45	NB1-4-16B	NB1-4-16C	NB1-4-16D
20	3/45	NB1-4-20B	NB1-4-20C	NB1-4-20D
25	3/45	NB1-4-25B	NB1-4-25C	NB1-4-25D
32	3/45	NB1-4-32B	NB1-4-32C	NB1-4-32D
40	3/45	NB1-4-40B	NB1-4-40C	NB1-4-40D
50	3/45	NB1-4-50B	NB1-4-50C	NB1-4-50D
63	3/45	NB1-4-63B	NB1-4-63C	NB1-4-63D

## NB1 Interruptores automáticos

### SECTOR INDUSTRIAL

#### \* Poder de corte: 10kA (10000A)

En conformidad con las normas UNE-EN60898-1 y UL1077

#### \* Poder de corte - de 1 a 32A- : 15kA (15000A)

En conformidad con las normas UNE-EN60947-2

### NB1 Unipolar 10kA

In (A)	Embalaje	Referencia Curva B	Referencia Curva C	Referencia Curva D
1	12/180	NB1-1-1B10	NB1-1-1C10	NB1-1-1D10
2	12/180	NB1-1-2B10	NB1-1-2C10	NB1-1-2D10
3	12/180	NB1-1-3B10	NB1-1-3C10	NB1-1-3D10
4	12/180	NB1-1-4B10	NB1-1-4C10	NB1-1-4D10
6	12/180	NB1-1-6B10	NB1-1-6C10	NB1-1-6D10
10	12/180	NB1-1-10B10	NB1-1-10C10	NB1-1-10D10
16	12/180	NB1-1-16B10	NB1-1-16C10	NB1-1-16D10
20	12/180	NB1-1-20B10	NB1-1-20C10	NB1-1-20D10
25	12/180	NB1-1-25B10	NB1-1-25C10	NB1-1-25D10
32	12/180	NB1-1-32B10	NB1-1-32C10	NB1-1-32D10
40	12/180	NB1-1-40B10	NB1-1-40C10	NB1-1-40D10
50	12/180	NB1-1-50B10	NB1-1-50C10	NB1-1-50D10
63	12/180	NB1-1-63B10	NB1-1-63C10	NB1-1-63D10

### NB1 Bipolar 10kA

In (A)	Embalaje	Referencia Curva B	Referencia Curva C	Referencia Curva D
1	6/90	NB1-2-1B10	NB1-2-1C10	NB1-2-1D10
2	6/90	NB1-2-2B10	NB1-2-2C10	NB1-2-2D10
3	6/90	NB1-2-3B10	NB1-2-3C10	NB1-2-3D10
4	6/90	NB1-2-4B10	NB1-2-4C10	NB1-2-4D10
6	6/90	NB1-2-6B10	NB1-2-6C10	NB1-2-6D10
10	6/90	NB1-2-10B10	NB1-2-10C10	NB1-2-10D10
16	6/90	NB1-2-16B10	NB1-2-16C10	NB1-2-16D10
20	6/90	NB1-2-20B10	NB1-2-20C10	NB1-2-20D10
25	6/90	NB1-2-25B10	NB1-2-25C10	NB1-2-25D10
32	6/90	NB1-2-32B10	NB1-2-32C10	NB1-2-32D10
40	6/90	NB1-2-40B10	NB1-2-40C10	NB1-2-40D10
50	6/90	NB1-2-50B10	NB1-2-50C10	NB1-2-50D10
63	6/90	NB1-2-63B10	NB1-2-63C10	NB1-2-63D10

### NB1 Tripolar 10kA

In (A)	Embalaje	Referencia Curva B	Referencia Curva C	Referencia Curva D
1	4/60	NB1-3-1B10	NB1-3-1C10	NB1-3-1D10
2	4/60	NB1-3-2B10	NB1-3-2C10	NB1-3-2D10
3	4/60	NB1-3-3B10	NB1-3-3C10	NB1-3-3D10
4	4/60	NB1-3-4B10	NB1-3-4C10	NB1-3-4D10
6	4/60	NB1-3-6B10	NB1-3-6C10	NB1-3-6D10
10	4/60	NB1-3-10B10	NB1-3-10C10	NB1-3-10D10
16	4/60	NB1-3-16B10	NB1-3-16C10	NB1-3-16D10
20	4/60	NB1-3-20B10	NB1-3-20C10	NB1-3-20D10
25	4/60	NB1-3-25B10	NB1-3-25C10	NB1-3-25D10
32	4/60	NB1-3-32B10	NB1-3-32C10	NB1-3-32D10
40	4/60	NB1-3-40B10	NB1-3-40C10	NB1-3-40D10
50	4/60	NB1-3-50B10	NB1-3-50C10	NB1-3-50D10
63	4/60	NB1-3-63B10	NB1-3-63C10	NB1-3-63D10

### NB1 Tetrapolar 10kA

In (A)	Embalaje	Referencia Curva B	Referencia Curva C	Referencia Curva D
1	3/45	NB1-4-1B10	NB1-4-1C10	NB1-4-1D10
2	3/45	NB1-4-2B10	NB1-4-2C10	NB1-4-2D10
3	3/45	NB1-4-3B10	NB1-4-3C10	NB1-4-3D10
4	3/45	NB1-4-4B10	NB1-4-4C10	NB1-4-4D10
6	3/45	NB1-4-6B10	NB1-4-6C10	NB1-4-6D10
10	3/45	NB1-4-10B10	NB1-4-10C10	NB1-4-10D10
16	3/45	NB1-4-16B10	NB1-4-16C10	NB1-4-16D10
20	3/45	NB1-4-20B10	NB1-4-20C10	NB1-4-20D10
25	3/45	NB1-4-25B10	NB1-4-25C10	NB1-4-25D10
32	3/45	NB1-4-32B10	NB1-4-32C10	NB1-4-32D10
40	3/45	NB1-4-40B10	NB1-4-40C10	NB1-4-40D10
50	3/45	NB1-4-50B10	NB1-4-50C10	NB1-4-50D10
63	3/45	NB1-4-63B10	NB1-4-63C10	NB1-4-63D10

## NB1 Interruptores automáticos

SECTOR INDUSTRIAL  
Aparatos para uso en CC

### \* Poder de corte: 10kA (10000A)

En conformidad con la norma UL1077

#### NB1 Unipolar 10kA Utilización: 110Vcc

In (A)	Embalaje	Referencia Curva 4-7In	Referencia Curva 7-15In
1	12/180	NB1-1-1CC47	NB1-1-1CC715
2	12/180	NB1-1-2CC47	NB1-1-2CC715
3	12/180	NB1-1-3CC47	NB1-1-3CC715
4	12/180	NB1-1-4CC47	NB1-1-4CC715
6	12/180	NB1-1-6CC47	NB1-1-6CC715
10	12/180	NB1-1-10CC47	NB1-1-10CC715
16	12/180	NB1-1-16CC47	NB1-1-16CC715
20	12/180	NB1-1-20CC47	NB1-1-20CC715
25	12/180	NB1-1-25CC47	NB1-1-25CC715
32	12/180	NB1-1-32CC47	NB1-1-32CC715
40	12/180	NB1-1-40CC47	NB1-1-40CC715
50	12/180	NB1-1-50CC47	NB1-1-50CC715
63	12/180	NB1-1-63CC47	NB1-1-63CC715

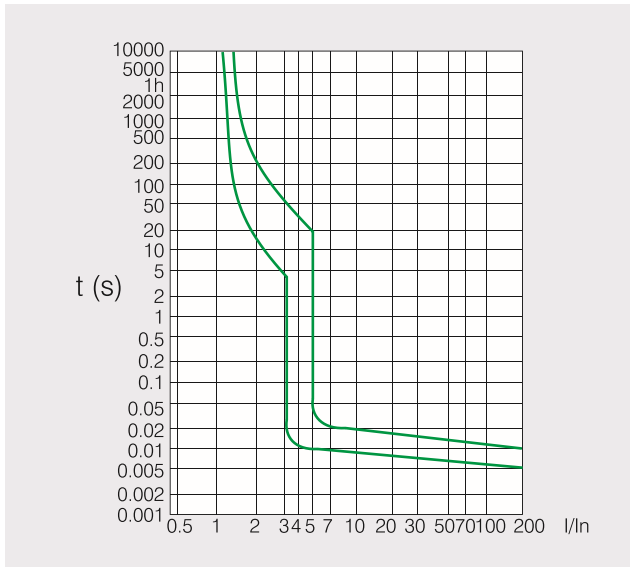
#### NB1 Bipolar 10kA Utilización: 125Vcc

In (A)	Embalaje	Referencia Curva 4-7In	Referencia Curva 7-15In
1	12/180	NB1-1-1CC47	NB1-1-1CC715
2	12/180	NB1-1-2CC47	NB1-1-2CC715
3	12/180	NB1-1-3CC47	NB1-1-3CC715
4	12/180	NB1-1-4CC47	NB1-1-4CC715
6	12/180	NB1-1-6CC47	NB1-1-6CC715
10	12/180	NB1-1-10CC47	NB1-1-10CC715
16	12/180	NB1-1-16CC47	NB1-1-16CC715
20	12/180	NB1-1-20CC47	NB1-1-20CC715
25	12/180	NB1-1-25CC47	NB1-1-25CC715
32	12/180	NB1-1-32CC47	NB1-1-32CC715
40	12/180	NB1-1-40CC47	NB1-1-40CC715
50	12/180	NB1-1-50CC47	NB1-1-50CC715
63	12/180	NB1-1-63CC47	NB1-1-63CC715

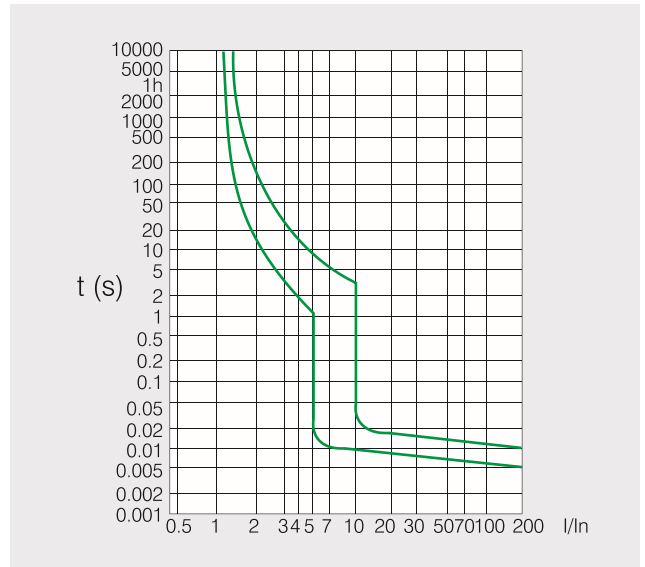
1. Características técnicas

1.1 Curvas

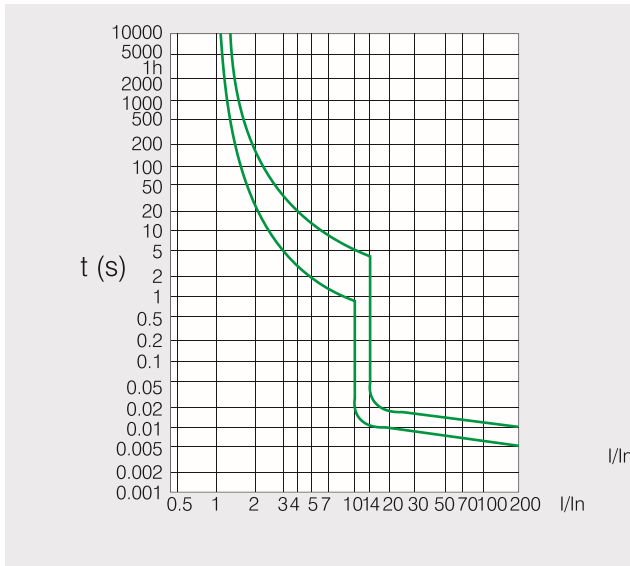
Curva B para CA



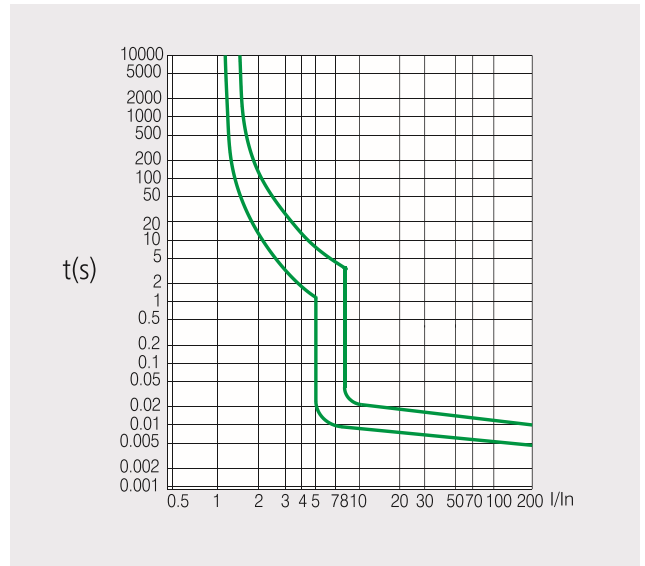
Curva C para CA



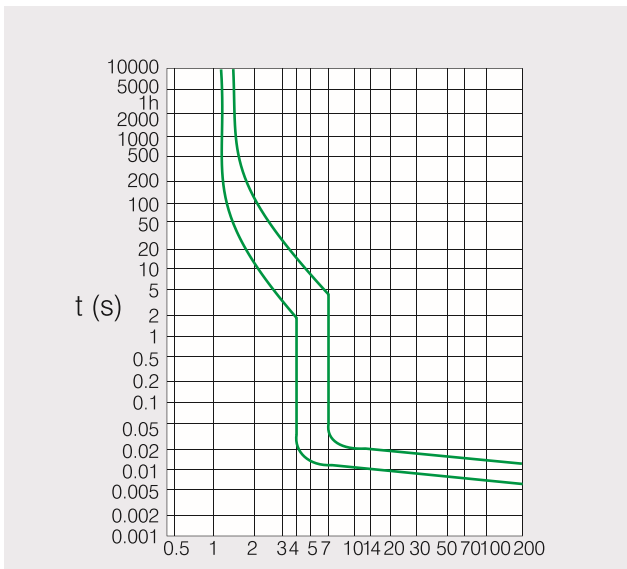
Curva D para CA



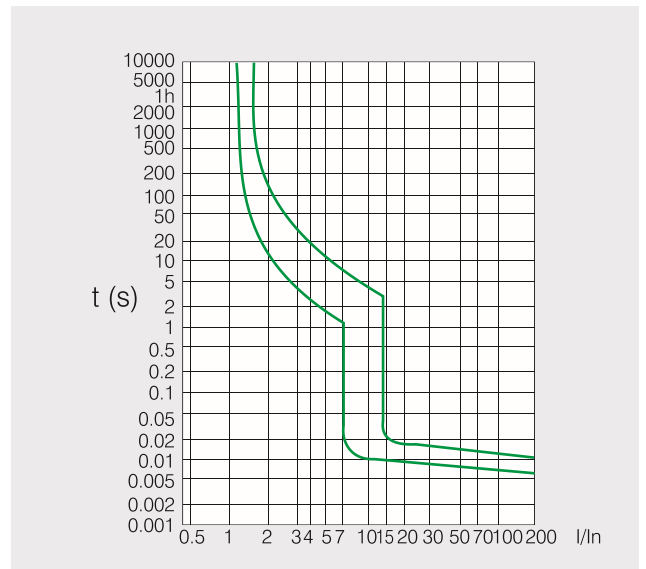
Curva ICP



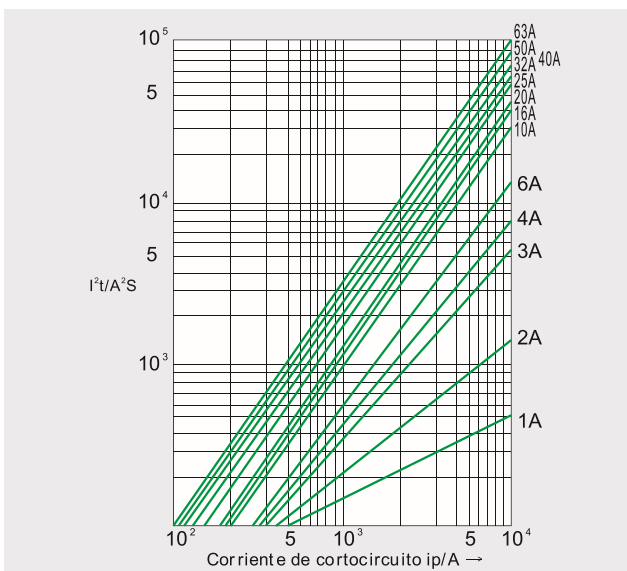
Curva 4-7 para CC



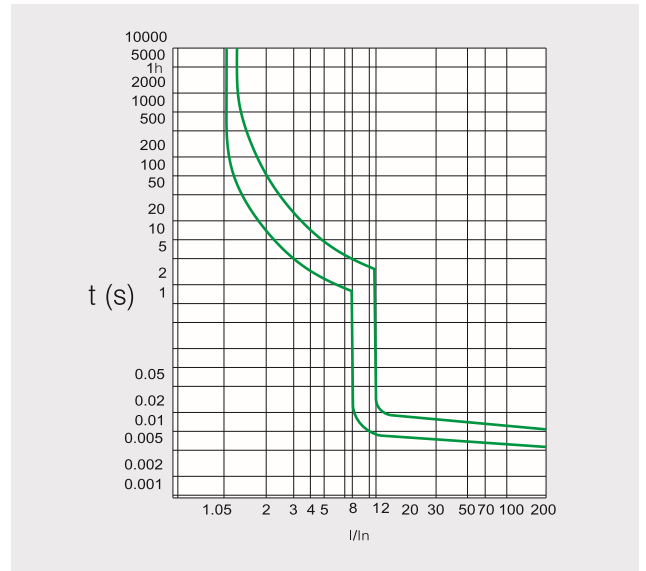
Curva 7-15 para CC



$I^2t$



Curva según UNE-EN 60947-2



1.2 Características técnicas

Características		UNE-20317	UNE-EN 60898-1	UNE-EN 60947-2	UL1077	UL1077	
Características eléctricas	Corriente nominal In	A	3,3.5,5,10,15 20,25,30,35 40,45,50,63	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63			
	Polos		1P, 2P, 3P, 4P		1P, 2P, 3P, 4P	1P, 2P	
	Tensión nominal Ue	V	230/400		240/415	110/125	
	Tensión de aislamiento Ui	V	500				
	Frecuencia nominal		50/60Hz				C.C.
	Poder de corte nominal	A	6000	6000/10000	15000 (1 a 32A)	5000	10000
	Clase de limitación de energía		3				
	Impulso de tensión máx. (1.2/50) Uimp	V	6000				
	Tensión de prueba dieléctrica a frec.indust. (1 min.)	kV	2				
	Grado de contaminación		2				
	Pérdida de potencia por polo		Corriente nominal (A)			Max.pérdida potencia por polo (W)	
			1, 2, 3, 3.5, 4, 5, 6, 10			2	
			15, 16, 20, 25, 30, 32, 35			3.5	
		40, 45, 50, 63			5		
Curvas de disparo		ICP	B, C, D	8-12In	B, C, D	4-7In, 7-14In	
Características mecánicas	Vida eléctrica		8000				
	Vida mecánica		20000				
	Indicador de posición de contactos		Si				
	Grado de protección		IP20				
	Temperatura de referencia para calibración de los aparatos	°C	30				
	Temperatura ambiente ( con promedio diario ≤35°C)	°C	-5...+40 (Aplicaciones especiales: ver Pag.13 referente a la compensación por temperatura ambiente)				
	Temperatura de almacenamiento	°C	-25...+70				
Instalación	Tipo de terminales de conexión		Cable, Horquilla o Pin				
	Sección cable admisible terminales superior e inferior	mm <sup>2</sup>	25				
		AWG	18-3				
	Sección pletina admisible terminales superior e inferior	mm <sup>2</sup>	25				
		AWG	18-3				
	Par de apriete	N*m	2.5				
		In-lbs.	22				
Montaje		Sobre guía DIN UNE-EN 60715 (35mm) - Fijación a guía mediante garras					
Conexión		Entrada superior e inferior indistintamente					
Accesorios	Contacto auxiliar		Si				
	Bobina de emisión de tensión		Si				
	Bobina de mínima tensión		Si				
	Contacto de alarma		Si				

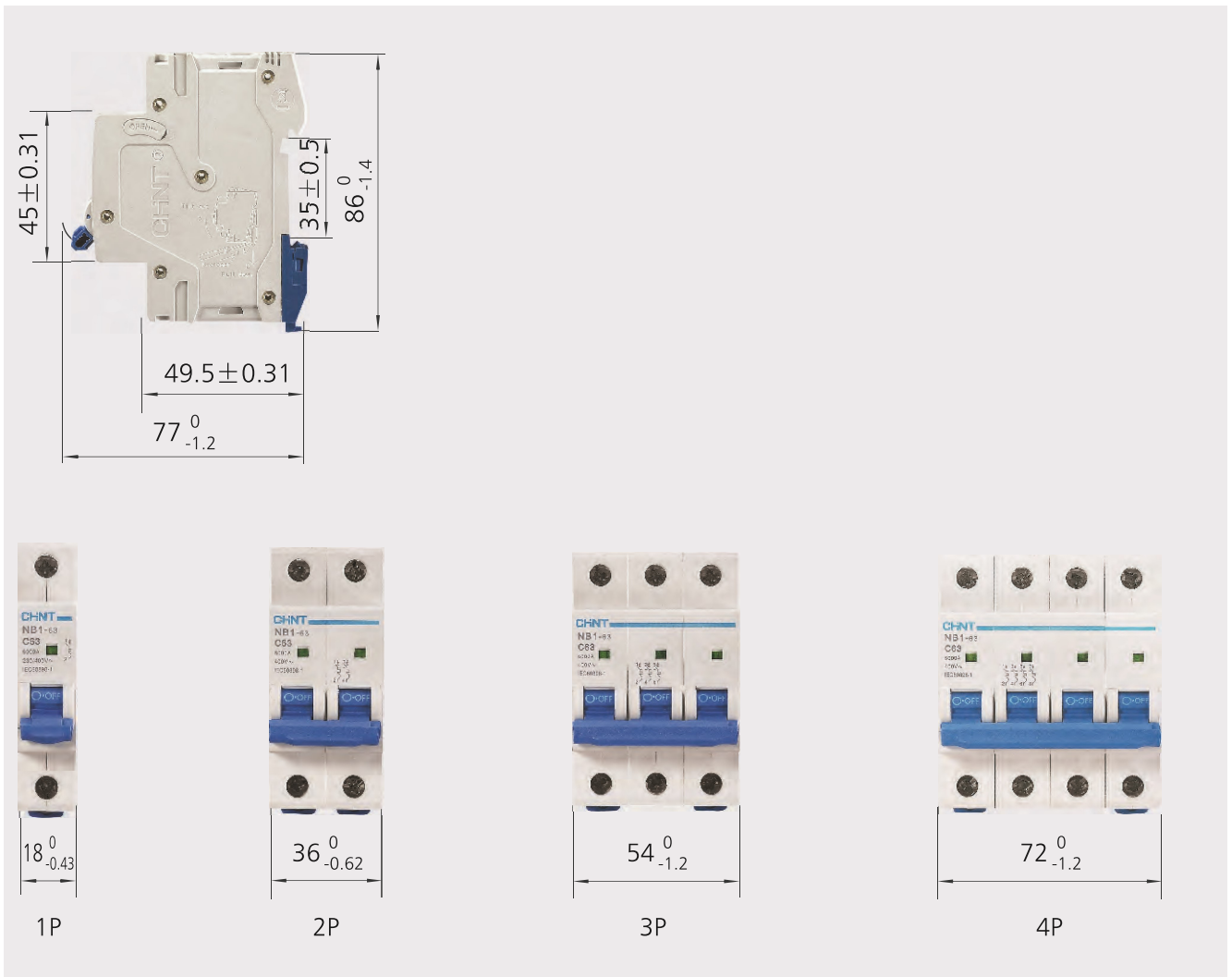
### 1.3 Corrección por temperatura ambiente

La corriente máxima permisible en un interruptor depende de la temperatura ambiente del lugar donde se instale. La temperatura ambiente es la temperatura existente en el interior de la caja o del cuadro de distribución en donde estén instalados los interruptores. La temperatura de referencia es 30°C.

Temperatura	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	55°C	60°C
Coefficiente de compensación de temperatura	1.20	1.15	1.10	1.05	1.00	0.95	0.90	0.875	0.85

Si se instalan varios interruptores de funcionamiento simultáneo en una caja pequeña, el aumento de temperatura en el interior de la misma provocará una disminución de la corriente. En ése caso deberá asignarse a la corriente nominal (ya reducida si fuese necesario debido a la temperatura ambiente) un factor de disminución de 0,8.

## 2. Dimensiones



3. Selectividad

	In (A)	Aguas arriba: RT36-00 (fusible)								
		20	25	36	50	63	80	100	125	160
		Is (kA)								
Aguas abajo: NB1-63, NB1-63H Curvas B, C	≤2	1.2	4	>12	>12	>12	>12	>12	>12	>12
	3	0.7	1.2	3.8	5.3	6	6	6	6	6
	4	0.6	0.9	2.5	3.8	6	6	6	6	6
	6	0.5	0.8	1.9	2.5	4.5	5	6	6	6
	10		0.7	1.4	2.2	3.2	3.6	6	6	6
	16			1.2	1.8	2.6	3	5.6	6	6
	20				1.5	2.2	2.5	4.6	6	6
	25				1.3	2	2.2	4.1	5.5	6
	32					1.7	1.9	3.8	4.5	6
	40						1.7	3	4	5
	50						1.5	2.6	3.5	4.5
	63							2.4	3.3	4.5

	In (A)	Aguas arriba: NM8-100S/H/R								
		16	20	25	32	40	50	63	80	100
		Is (kA)								
Aguas abajo: NB1-63, NB1-63H Curvas B, C	≤10	0.19	0.19	0.3	0.4	0.5	0.5	0.5	0.63	0.8
	16			0.3	0.4	0.5	0.5	0.5	0.63	0.8
	20					0.5	0.5	0.5	0.63	0.8
	25						0.5	0.5	0.63	0.8
	32							0.5	0.63	0.8
	40								0.63	0.8
	50									0.8
	63									0.8

3.4 Coordinación (Backup)

	In (A)	Aguas arriba: serie RT16						
		40	50	63	80	100	125	160
		Is (kA)						
Aguas abajo: NB1-63, NB1-63H Curvas B, C	1~6	40	40	40	40	40	40	40
	8~10	40	40	40	40	40	40	40
	13	40	40	40	40	35	35	35
	16	40	40	40	40	30	30	30
	20	40	40	40	40	30	30	30
	25	40	40	40	40	30	30	30
	32	40	40	40	40	30	30	30
	40	40	40	40	40	30	30	30
	50	30	30	30	30	30	30	30
	63	20	20	20	20	15	15	15

	In (A)	Aguas arriba: NM8					
		NM8-125S	NM8-125H	NM8-125R	NM8-250S	NM8-250H	NM8-250R
		Is (kA)					
Aguas abajo: NB1-63, NB1-63H Curvas B, C	1~6	15	18	18	15	15	15
	10~20	12	15	15	12	12	12
	32~40	12	15	15	12	12	12
	50~60	12	15	15	12	12	12