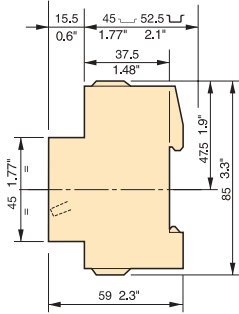
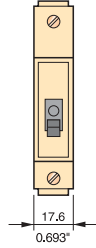


Circuit breakers
Thermal-magnetic
Alternating current
Series GM
 L DIN 3



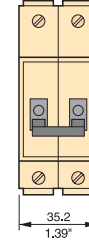
Spacing 17,6 mm (.693")



Standard blocks. Products with other options are available, example : auxiliary contact. Consult us.

GMB... 2 poles

Spacing 35,2 mm (1.39")



Standard blocks. Products with other options are available, example : auxiliary contact. Consult us.

Type	Rating	Part number	Part number	
Complete the product type designation by replacing with the desired current rating. For example : GMU 0.5 L GMB 10 U GMT 32 D	Rated current in Amps	Curve B (1) GMU....L	Curve C (1) GMU....U	
	0.1	811 112 201	811 112 301	
	0.5	811 118 221	811 118 321	
	1	811 123 221	811 123 321	
	2	811 128 221	811 128 321	
	3	811 132 221	811 132 321	
	4	811 134 221	811 134 321	
	6	811 138 201	811 138 301	811 138 401
	10	811 146 221	811 146 321	811 146 421
	16	811 152 201	811 152 301	811 152 401
20	811 156 221	811 156 321	811 156 421	
25	811 158 221	811 158 321	811 158 421	
32	811 162 201	811 162 301	811 162 401	
Other ratings available, consult us.				
See table 1 on page 591 for current correction factor vs. temperature.				

RU SP : Current ratings of 0.5, 1, 2, 3, 4, 10, 20, and 25 Amps



RU SP : Current ratings of 0.5, 1, 2, 3, 4, 10, 20, and 25 Amps



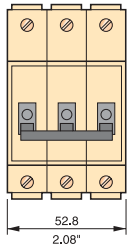
Characteristics		
Rated voltage	V	240-415 V AC, 50 - 60 Hz
Rated wire size	AWG / mm ²	screw clamp for 5 AWG (16 mm ²)
Interrupting capacity		
According to standard NF-EN 60 898		6 000 Amps
According to standard I.E.C. 947-2		10 000 Amps
Other characteristics		
Life, number of cycles (On+Off)		4 000
Dielectric withstanding voltage		2 000 V rms
Internal resistance		See table 2 on page 591
Tripping curves	S	Curve B : 3 In < S < 5 In - Curve C : 5 In < S < 10 In - Curve D : 10 In < S < 20 In
Degree of protection		IP 20
Weight		.21 lb (94 gr.)
Mechanical shock		30 g.
Ambient temperature		-5° C to 40° C
Connection		Ø 4,5 mm max.

Accessories	Type	Part number	Type	Part number
Adaptor for DIN 1 rail mount	A466	822A 466 01	A466	822A 466 01

Note: (1) See Curves on pages 591 and 604.

GMT...
3 poles

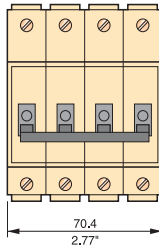
Spacing 52,8 mm (2.08")



Standard blocks. Products with other options are available, example : auxiliary contact. Consult us.

GMQ...
4 poles

Spacing 70,4 mm (2.77")



Standard blocks. Products with other options are available, example : auxiliary contact. Consult us.

Table 1

Current correction factor vs. temperature

Ambient temperature °C	Ambient temperature °F	Correction factor (multiply by)
-20	-4	1.25
-10	+14	1.20
-5	+23	1.17
0	+32	1.15
+10	+50	1.10
+20	+68	1.05
+30	+86	1.00
+40	+104	0.95
+50	+122	0.90
+60	+140	0.85
+70	+158	0.80

Table 2

Internal resistance vs. current rating

Current rating (A)	Internal resistance (mΩ)
0.5	4 000
1	1 200
2	420
4	160
10	13
20	6

Part number

Curve B GMT...L	Curve C GMT...U	Curve D GMT...D
811 312 201	811 312 301	
811 318 221	811 318 321	
811 323 221	811 323 321	
811 328 221	811 328 321	
811 332 221	811 332 321	
811 334 221	811 334 321	
811 338 201	811 338 301	811 338 401
811 346 221	811 346 321	811 346 421
811 352 201	811 352 301	811 352 401
811 356 221	811 356 321	811 356 421
811 358 221	811 358 321	811 358 421
811 362 201	811 362 301	811 362 401

Part number

Curve B GMQ...L	Curve C GMQ...U	Curve D GMQ...D
811 412 201	811 412 301	
811 418 221	811 418 321	
811 423 221	811 423 321	
811 428 221	811 428 321	
811 432 221	811 432 321	
811 434 221	811 434 321	
811 438 201	811 438 301	811 438 401
811 446 221	811 446 321	811 446 421
811 452 201	811 452 301	811 452 401
811 456 221	811 456 321	811 456 421
811 458 221	811 458 321	811 458 421
811 462 201	811 462 301	811 462 401

Current ratings of 0.5, 1, 2, 3, 4, 10, 20, and 25 Amps



Current ratings of 0.5, 1, 2, 3, 4, 10, 20, and 25 Amps



415 V AC, 50 - 60 Hz

415 V AC, 50 - 60 Hz

screw clamp for 5 AWG (16 mm²)

screw clamp for 5 AWG (16 mm²)

6 000 Amps

6 000 Amps

10 000 Amps

10 000 Amps

4 000

4 000

2 000 V rms

2 000 V rms

See table 2

See table 2

Curve B : 3 In < S < 5 In - Curve C : 5 In < S < 10 In - Curve D : 10 In < S < 20 In

Curve B : 3 In < S < 5 In - Curve C : 5 In < S < 10 In - Curve D : 10 In < S < 20 In

IP 20

IP 20

.62 lb (282 gr.)

.83 lb (376 gr.)

30 g.

30 g.

-5° C to 40° C

-5° C to 40° C

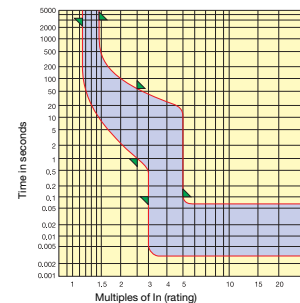
Ø 4,5 mm max.

Ø 4,5 mm max.

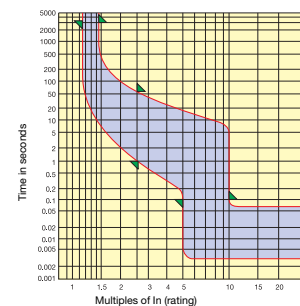
Type **A466** Part number **822A 466 01**

Type **A466** Part number **822A 466 01**

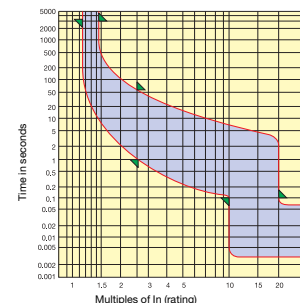
Curve B



Curve C

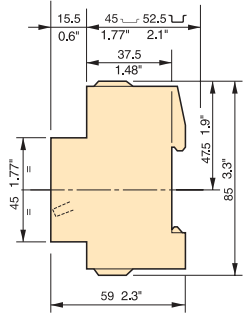


Curve D

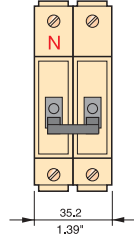


See page 604 for larger scale curves.

Circuit breakers
Thermal-magnetic
Alternating current
Series GM
 L DIN 3



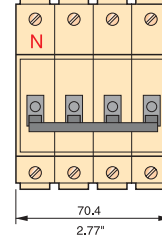
Spacing 35.2 mm (1.39")



Standard blocks. Products with other options are available, example : auxiliary contact. Consult us.

GM3+N...
3 poles + neutral

Spacing 70.4 mm (2.77")



Standard blocks. Products with other options are available, example : auxiliary contact. Consult us.

Type	Rating
Complete the product type designation by replacing with the desired current rating.	Rated current in Amps
	0.1
	0.5
	1
	2
For example : GM1+N 0.5 L GM1+N 10 U GM3+N 32 D	3
	4
	6
	10
	16
Other ratings available, consult us.	20
	25
	32
See table 1 on page 591 for current correction factor vs. temperature.	

Part number		
Curve B (1) GM1+N....L	Curve C (1) GM1+N....U	Curve D (1) GM1+N....D
811 512 201	811 512 301	
811 518 201	811 518 301	
811 523 201	811 523 301	
811 528 201	811 528 301	
811 532 201	811 532 301	
811 534 201	811 534 301	
811 538 201	811 538 301	811 538 401
811 546 201	811 546 301	811 546 401
811 552 201	811 552 301	811 552 401
811 556 201	811 556 301	811 556 401
811 558 201	811 558 301	811 558 401
811 562 201	811 562 301	811 562 401

Part number		
Curve B (1) GM3+N....L	Curve C (1) GM3+N....U	Curve D (1) GM3+N....D
811 612 201	811 612 301	
811 618 201	811 618 301	
811 623 201	811 623 301	
811 628 201	811 628 301	
811 632 201	811 632 301	
811 634 201	811 634 301	
811 638 201	811 638 301	811 638 401
811 646 201	811 646 301	811 646 401
811 652 201	811 652 301	811 652 401
811 656 201	811 656 301	811 656 401
811 658 201	811 658 301	811 658 401
811 662 201	811 662 301	811 662 401

Approvals: Contact Entelec

Approvals: Contact Entelec

Characteristics	
Rated voltage	V 240 V AC, 50 - 60 Hz
Rated wire size	AWG / mm ² screw clamp for 5 AWG (16 mm ²)
Interrupting capacity	
According to standard I.E.C. 898	6 000 Amps
According to standard I.E.C. 947-2	10 000 Amps

Rated voltage	V 415 V AC, 50 - 60 Hz
Rated wire size	AWG / mm ² screw clamp for 5 AWG (16 mm ²)
According to standard I.E.C. 898	6 000 Amps
According to standard I.E.C. 947-2	10 000 Amps

Rated voltage	V 415 V AC, 50 - 60 Hz
Rated wire size	AWG / mm ² screw clamp for 5 AWG (16 mm ²)
According to standard I.E.C. 898	6 000 Amps
According to standard I.E.C. 947-2	10 000 Amps

Other characteristics	
Life, number of cycles (On+Off)	4 000
Dielectric withstanding voltage	2 000 V rms
Internal resistance	See table 2 on page 591
Tripping curves	S Curve B : 3 ln < S < 5 ln - Curve C : 5 ln < S < 10 ln - Curve D : 10 ln < S < 20 ln
Degree of protection	IP 20
Weight	.42 lb (188 gr.)
Mechanical shock	30 g.
Ambient temperature	-5° C to 40° C
Connection	Ø 4.5 mm max.

Life, number of cycles (On+Off)	4 000
Dielectric withstanding voltage	2 000 V rms
Internal resistance	See table 2 on page 591
Tripping curves	S Curve B : 3 ln < S < 5 ln - Curve C : 5 ln < S < 10 ln - Curve D : 10 ln < S < 20 ln
Degree of protection	IP 20
Weight	.83 lb (376 gr.)
Mechanical shock	30 g.
Ambient temperature	-5° C to 40° C
Connection	Ø 4.5 mm max.

Life, number of cycles (On+Off)	4 000
Dielectric withstanding voltage	2 000 V rms
Internal resistance	See table 2 on page 591
Tripping curves	S Curve B : 3 ln < S < 5 ln - Curve C : 5 ln < S < 10 ln - Curve D : 10 ln < S < 20 ln
Degree of protection	IP 20
Weight	.83 lb (376 gr.)
Mechanical shock	30 g.
Ambient temperature	-5° C to 40° C
Connection	Ø 4.5 mm max.

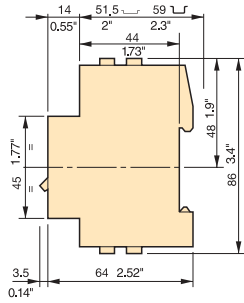
Accessories	Type	Part number
Adaptor for DIN 1 rail mount	A466	822A 466 01

Type	Part number
A466	822A 466 01

Type	Part number
A466	822A 466 01

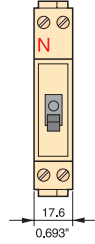
Note: (1) See Curves on pages 591 and 604.

Circuit breakers
Thermal-magnetic
Alternating current
Series GZ
 L DIN 3



GZ1+N...
1 pole + neutral

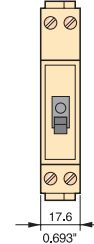
Spacing 17,6 mm (.693")



Standard blocks. Products with other options are available, example : auxiliary contact. Consult us.

GZB...
2 poles

Spacing 17,6 mm (.693")



Standard blocks. Products with other options are available, example : auxiliary contact. Consult us.

Type	Rating
Complete the product type designation by replacing with the desired current rating.	Rated current in Amps
	0.1
	0.5
	1
	2
For example :	
GZ1+N 0.5 L	3
GZ1+N 10 U	4
GZB 32 D	6
	10
Other ratings available, consult us.	16
	20
	25
	32

See table 1 on page 591 for current correction factor vs. temperature.

Part number			Part number		
Curve B (1)	Curve C (1)	Curve D (1)	Curve B (1)	Curve C (1)	Curve D (1)
GZ1+N....L	GZ1+N....U	GZ1+N....D	GZB....L	GZB....U	GZB....D
814 512 201	814 512 301		814 212 201	814 212 301	
814 518 201	814 518 301		814 218 201	814 218 301	
814 523 201	814 523 301		814 223 201	814 223 301	
814 528 201	814 528 301		814 228 201	814 228 301	
814 532 201	814 532 301		814 232 201	814 232 301	
814 534 201	814 534 301		814 234 201	814 234 301	
814 538 201	814 538 301	814 538 401	814 238 201	814 238 301	814 238 401
814 546 201	814 546 301	814 546 401	814 246 201	814 246 301	814 246 401
814 552 201	814 552 301	814 552 401	814 252 201	814 252 301	814 252 401
814 556 201	814 556 301	814 556 401	814 256 201	814 256 301	814 256 401
814 558 201	814 558 301	814 558 401	814 258 201	814 258 301	814 258 401
814 562 201	814 562 301	814 562 401	814 262 201	814 262 301	814 262 401

Approvals: Contact Entrelec



Approvals: Contact Entrelec



Characteristics

Rated voltage V	240 V AC, 50 - 60 Hz	415 V AC, 50 - 60 Hz
Rated wire size AWG / mm ²	screw clamp for 5 AWG (16 mm ²)	screw clamp for 5 AWG (16 mm ²)

Interrupting capacity

According to standard NF-EN 60 898	3 000 Amps	4 500 Amps
According to standard IEC 947-2	4 500 Amps	6 000 Amps

Other characteristics

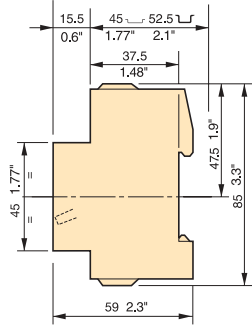
Life, number of cycles (On+Off)	4 000	4 000
Dielectric withstanding voltage	2 000 V rms	2 000 V rms
Internal resistance	See table 2 on page 591	See table 2 on page 591
Tripping curves	S Curve B : 3 In < S < 5 In - Curve C : 5 In < S < 10 In - Curve D : 10 In < S < 20 In	Curve B : 3 In < S < 5 In - Curve C : 5 In < S < 10 In - Curve D : 10 In < S < 20 In
Degree of protection	IP 20	IP 20
Weight	.22 lb (99 gr.)	.24 lb (110 gr.)
Mechanical shock	30 g.	30 g.
Ambient temperature	-5° C to 40° C	-5° C to 40° C
Connection	Ø 4.5 mm max.	Ø 4.5 mm max.

Accessories

	Type	Part number	Type	Part number
Adaptor for DIN 1 rail mount	A466	822A 466 01	A466	822A 466 01

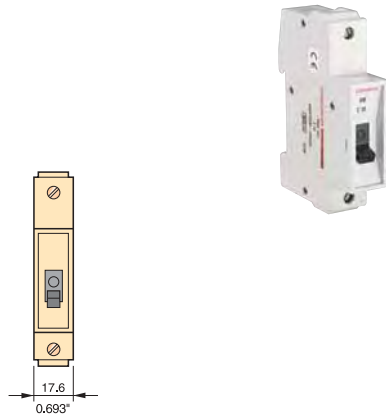
Note: (1) See Curves on pages 591 and 604.

Circuit breakers
Thermal
Alternating current
Series GM
 ⌋ DIN 3



GMU...T
1 pole

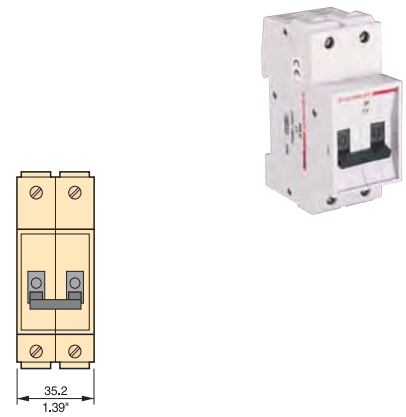
Spacing 17,6 mm (.693")



Standard blocks. Products with other options are available, example : auxiliary contact. Consult us.

GMB...T
2 poles

Spacing 35,2 mm (1.39")



Standard blocks. Products with other options are available, example : auxiliary contact. Consult us.

Type	Rated current in Amps
Other ratings available, consult us.	0.1
	0.5
	1
See table 1 on page 595 for current correction factor vs. temperature.	2
	3
	4
	6
	10
	16
	20
	25
	32

Type	Part number	Curve T (1)
GMU 0.1T	811 112 601	
GMU 0.5 T	811 118 620	
GMU 1 T	811 123 620	
GMU 2 T	811 128 620	
GMU 3 T	811 132 620	
GMU 4 T	811 134 620	
GMU 6 T	811 138 601	
GMU 10 T	811 146 620	
GMU 16 T	811 152 601	
GMU 20 T	811 156 620	
GMU 25 T	811 158 620	
GMU 32 T	811 162 601	

Type	Part number	Curve T (1)
GMB 0.1T	811 212 601	
GMB 0.5 T	811 218 620	
GMB 1 T	811 223 620	
GMB 2 T	811 228 620	
GMB 3 T	811 232 620	
GMB 4 T	811 234 620	
GMB 6 T	811 238 601	
GMB 10 T	811 246 620	
GMB 16 T	811 252 601	
GMB 20 T	811 256 620	
GMB 25 T	811 258 620	
GMB 32 T	811 262 601	

UL: Current ratings of 0.5, 1, 2, 3, 4, 10, 20, and 25 Amps



UL: Current ratings of 0.5, 1, 2, 3, 4, 10, 20, and 25 Amps



Characteristics

Rated voltage	240-415 V AC, 50 - 60 Hz	415 V AC, 50 - 60 Hz
---------------	--------------------------	----------------------

Rated wire size AWG / mm ²	screw clamp for 5 AWG (16 mm ²)	screw clamp for 5 AWG (16 mm ²)
---------------------------------------	---------------------------------------------	---------------------------------------------

Interrupting capacity

Curve T	10 In Rating < 5 Amps - 20 In Rating ≥ 5 Amps	10 In Rating < 5 Amps - 20 In Rating ≥ 5 Amps
---------	-----------------------------------------------	-----------------------------------------------


Other characteristics

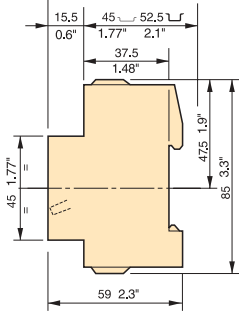
Life, number of cycles (On+Off)	4 000	4 000
Dielectric withstanding voltage	2 000 V rms	2 000 V rms
Internal resistance	See table 3 on page 595	See table 3 on page 595
Tripping curves		
Degree of protection	IP 20	IP 20
Weight	.2 lb (87 gr.)	.38 lb (174 gr.)
Mechanical shock	30 g.	30 g.
Ambient temperature	-5° C to 40° C	-5° C to 40° C
Connection	Ø 4.5 mm max.	Ø 4.5 mm max.

Accessories

Type	Part number	Type	Part number
Adaptor for DIN 1 rail mount	A466	A466	822A 466 01

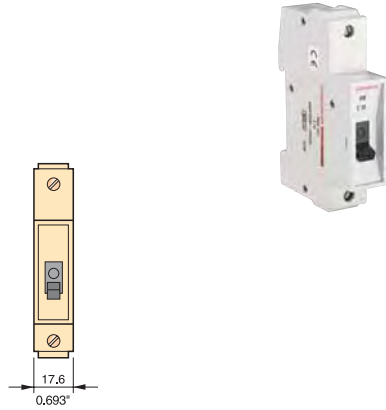
Note: (1) See Curves on pages 595 and 605.

Circuit breakers
Thermal-magnetic
Direct current
100 V max.
Series GF
 **DIN 3**



GFU...S
1 pole

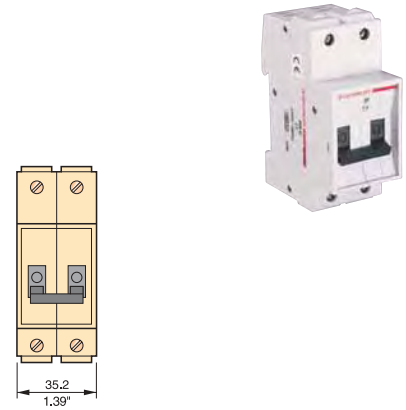
Spacing 17,6 mm (.693")



Standard blocks. Products with other options are available, example : auxiliary contact. Consult us.

GFB...S
2 poles

Spacing 35,2 mm (1.39")



Standard blocks. Products with other options are available, example : auxiliary contact. Consult us.

Rating

Other ratings available, consult us.	Rated current in Amps
	0.1
	0.5
	1
	2
	3
	4
	6
	10
	16
	20
	25
	32

Type

Part number

GFU 0.1 S	812 112 501
GFU 0.5 S	812 118 501
GFU 1 S	812 123 501
GFU 2 S	812 128 501
GFU 3 S	812 132 501
GFU 4 S	812 134 501
GFU 6 S	812 138 501
GFU 10 S	812 146 501
GFU 16 S	812 152 501
GFU 20 S	812 156 501
GFU 25 S	812 158 501
GFU 32 S	812 162 501

Type

Part number

GFB 0.1 S	812 212 501
GFB 0.5 S	812 218 501
GFB 1 S	812 223 501
GFB 2 S	812 228 501
GFB 3 S	812 232 501
GFB 4 S	812 234 501
GFB 6 S	812 238 501
GFB 10 S	812 246 501
GFB 16 S	812 252 501
GFB 20 S	812 256 501
GFB 25 S	812 258 501
GFB 32 S	812 262 501

Approvals: Contact Entelec



Approvals: Contact Entelec



Characteristics

Rated voltage	V	100 V DC max.	100 V DC max.
---------------	---	---------------	---------------

Rated wire size	AWG / mm ²	screw clamp for 5 AWG (16 mm ²)	screw clamp for 5 AWG (16 mm ²)
-----------------	-----------------------	---------------------------------------------	---------------------------------------------

Interrupting capacity


According to standard NF F62 001		1 000 Amps	1 000 Amps
----------------------------------	--	------------	------------

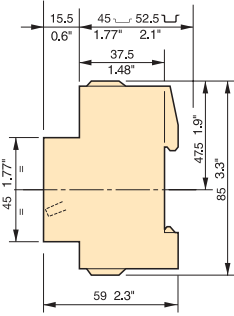
Other characteristics

Life, number of cycles (On+Off)		4 000	4 000
Dielectric withstanding voltage	V	2 000 V rms	2 000 V rms
Internal resistance		See table 2 on page 591	See table 2 on page 591
Tripping curves	S	Current rating 0.1 to 2 A : 5 In < S < 10 In - 3 to 32 A : 7 In < S < 14 In	Current rating 0.1 to 2 A : 5 In < S < 10 In - 3 to 32 A : 7 In < S < 14 In
Degree of protection		IP 20	IP 20
Weight		.21 lb (94 gr.)	.42 lb (188 gr.)
Mechanical shock		30 g.	30 g.
Ambient temperature		- 25° C to + 70° C	- 25° C to + 70° C
Connection		Ø 4.5 mm max.	Ø 4.5 mm max.

Accessories

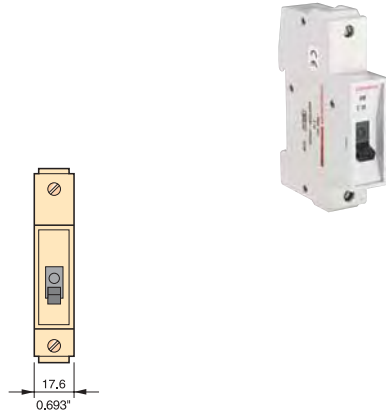
	Type	Part number	Type	Part number
Adaptor for DIN 1 rail mount	A466	822A 466 01	A466	822A 466 01

Circuit breakers
Thermal-magnetic
Direct current
150 V max.
Series GC
 **DIN 3**



GCU...S
1 pole

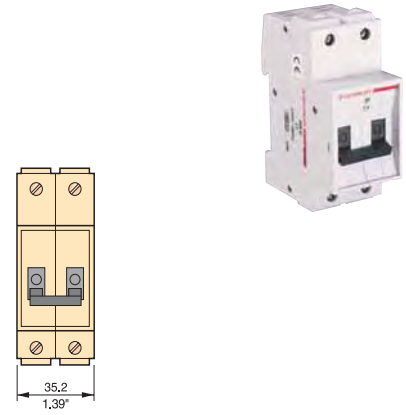
Spacing 17,6 mm (.693)



Standard blocks. Products with other options are available, example : auxiliary contact. Consult us.

GCB...S
2 poles

Spacing 35,2 mm (1.39")



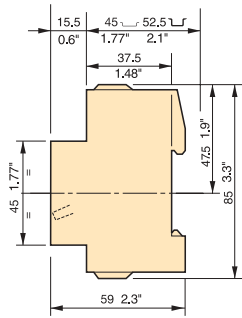
Standard blocks. Products with other options are available, example : auxiliary contact. Consult us.

Rating		Type	Part number	Type	Part number
Other ratings available, consult us.	Rated current in Amps				
	0.1	GCU 0.1 S	813 112 501	GCB 0.1 S	813 212 501
	0.5	GCU 0.5 S	813 118 501	GCB 0.5 S	813 218 501
	1	GCU 1 S	813 123 501	GCB 1 S	813 223 501
	2	GCU 2 S	813 128 501	GCB 2 S	813 228 501
	3	GCU 3 S	813 132 501	GCB 3 S	813 232 501
	4	GCU 4 S	813 134 501	GCB 4 S	813 234 501
	6	GCU 6 S	813 138 501	GCB 6 S	813 238 501
	10	GCU 10 S	813 146 501	GCB 10 S	813 246 501
	16	GCU 16 S	813 152 501	GCB 16 S	813 252 501
	20	GCU 20 S	813 156 501	GCB 20 S	813 256 501
	25	GCU 25 S	813 158 501	GCB 25 S	813 258 501
	32	GCU 32 S	813 162 501	GCB 32 S	813 262 501
Approvals: Contact Entelec			CE	Approvals: Contact Entelec	

Characteristics		CE	
Rated voltage	V	150 V DC max.	150 V DC max.
Rated wire size	AWG / mm ²	screw clamp for 5 AWG (16 mm ²)	screw clamp for 5 AWG (16 mm ²)
Interrupting capacity			
According to standard NF F62 001		1 500 Amps	1 500 Amps
Other characteristics			
Life, number of cycles (On+Off)		4 000	4 000
Dielectric withstanding voltage	V	2 000 V rms	2 000 V rms
Internal resistance		See table 2 on page 591	See table 2 on page 591
Tripping curves	S	Current rating 0.1 to 2 A : 5 In < S < 10 In - 3 to 32 A : 7 In < S < 14 In	Current rating 0.1 to 2 A : 5 In < S < 10 In - 3 to 32 A : 7 In < S < 14 In
Degree of protection		IP 20	IP 20
Weight		.21 lb (94 gr.)	.42 lb (188 gr.)
Mechanical shock		30 g.	30 g.
Ambient temperature		- 25° C to + 70° C	- 25° C to + 70° C
Connection		Ø 4.5 mm max.	Ø 4.5 mm max.

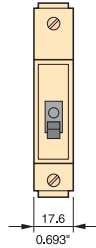
Accessories	Type	Part number	Type	Part number
Adaptor for DIN 1 rail mount	A466	822A 466 01	A466	822A 466 01

Circuit breakers
Thermal
Direct current
100 V max.
Series GF
 L DIN 3



GFU...T
1 pole

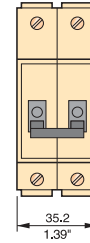
Spacing 17,6 mm (0.693")



Standard blocks. Products with other options are available, example : auxiliary contact. Consult us.

GFB...T
2 poles

Spacing 35,2 mm (1.39")



Standard blocks. Products with other options are available, example : auxiliary contact. Consult us.

Type	Rated current in Amps
Other ratings available, consult us.	0.1
	0.5
	1
See table 1 on page 595 for current correction factor vs. temperature.	2
	3
	4
	6
	10
	16
	20
	25
	32

Type	Part number	Curve T (1)
GFU 0.1 T	812 112 601	
GFU 0.5 T	812 118 601	
GFU 1 T	812 123 601	
GFU 2 T	812 128 601	
GFU 3 T	812 132 601	
GFU 4 T	812 134 601	
GFU 6 T	812 138 601	
GFU 10 T	812 146 601	
GFU 16 T	812 152 601	
GFU 20 T	812 156 601	
GFU 25 T	812 158 601	
GFU 32 T	812 162 601	

Type	Part number	Curve T (1)
GFB 0.1 T	812 212 601	
GFB 0.5 T	812 218 601	
GFB 1 T	812 223 601	
GFB 2 T	812 228 601	
GFB 3 T	812 232 601	
GFB 4 T	812 234 601	
GFB 6 T	812 238 601	
GFB 10 T	812 246 601	
GFB 16 T	812 252 601	
GFB 20 T	812 256 601	
GFB 25 T	812 258 601	
GFB 32 T	812 262 601	

Approvals: Contact Entelec

Approvals: Contact Entelec

Characteristics

Rated voltage	V	100 V DC max.
---------------	---	---------------

Rated voltage	V	100 V DC max.
---------------	---	---------------

Rated voltage	V	100 V DC max.
---------------	---	---------------

Rated wire size	AWG / mm ²	
-----------------	-----------------------	--

Rated wire size	AWG / mm ²	
-----------------	-----------------------	--

Rated wire size	AWG / mm ²	
-----------------	-----------------------	--

Interrupting capacity

Curve T		10 In Rating < 5 Amps - 20 In Rating ≥ 5 Amps
---------	--	-----------------------------------------------

Curve T		10 In Rating < 5 Amps - 20 In Rating ≥ 5 Amps
---------	--	-----------------------------------------------

Curve T		10 In Rating < 5 Amps - 20 In Rating ≥ 5 Amps
---------	--	-----------------------------------------------

Other characteristics

Life, number of cycles (On+Off)		4 000
---------------------------------	--	-------

Life, number of cycles (On+Off)		4 000
---------------------------------	--	-------

Life, number of cycles (On+Off)		4 000
---------------------------------	--	-------

Dielectric withstanding voltage		2 000 V rms
---------------------------------	--	-------------

Dielectric withstanding voltage		2 000 V rms
---------------------------------	--	-------------

Dielectric withstanding voltage		2 000 V rms
---------------------------------	--	-------------

Internal resistance		See table 3 on page 595
---------------------	--	-------------------------

Internal resistance		See table 3 on page 595
---------------------	--	-------------------------

Internal resistance		See table 3 on page 595
---------------------	--	-------------------------

Degree of protection		IP 20
----------------------	--	-------

Degree of protection		IP 20
----------------------	--	-------

Degree of protection		IP 20
----------------------	--	-------

Weight		.2 lb (87 gr.)
--------	--	----------------

Weight		.38 lb (174 gr.)
--------	--	------------------

Weight		.38 lb (174 gr.)
--------	--	------------------

Mechanical shock		30 g.
------------------	--	-------

Mechanical shock		30 g.
------------------	--	-------

Mechanical shock		30 g.
------------------	--	-------

Ambient temperature		- 5° C to 40° C
---------------------	--	-----------------

Ambient temperature		- 5° C to 40° C
---------------------	--	-----------------

Ambient temperature		- 5° C to 40° C
---------------------	--	-----------------

Connection		Ø 4.5 mm. max.
------------	--	----------------

Connection		Ø 4.5 mm. max.
------------	--	----------------

Connection		Ø 4.5 mm. max.
------------	--	----------------


Accessories

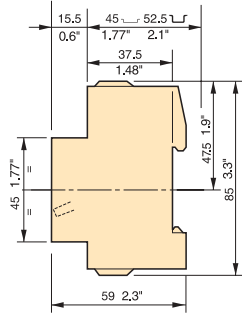
Adaptor for DIN 1 rail mount	A466	822A 466 01
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Adaptor for DIN 1 rail mount	A466	822A 466 01
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Adaptor for DIN 1 rail mount	A466	822A 466 01
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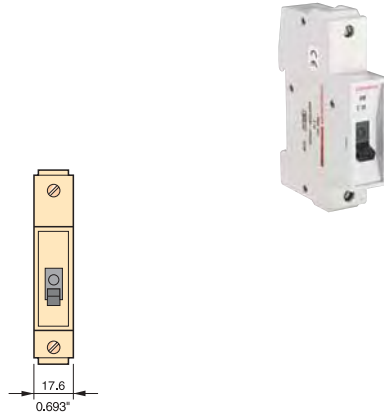
Note: (1) See Curves on pages 595 and 605.

Circuit breakers
Thermal
Direct current
150 V max.
Series GC
 **DIN 3**



GCU...T
1 pole

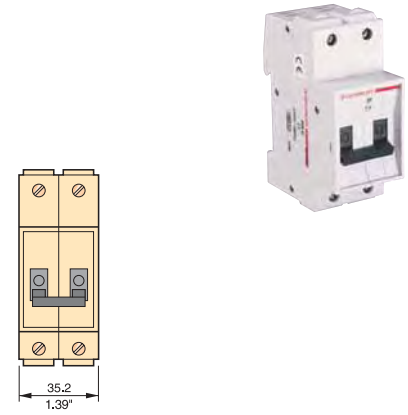
Spacing 17,6 mm (0.693")



Standard blocks. Products with other options are available, example : auxiliary contact. Consult us.

GCB...T
2 poles

Spacing 35,2 mm (1.39")



Standard blocks. Products with other options are available, example : auxiliary contact. Consult us.

Type		Type	Part number	Type	Part number
Other ratings available, consult us. See table 1 on page 595 for current correction factor vs. temperature.	Rated current in Amps	Curve T (1)		Curve T (1)	
	0.1	GCU 0.1 T	813 112 601	GCB 0.1 T	813 212 601
	0.5	GCU 0.5 T	813 118 601	GCB 0.5 T	813 218 601
	1	GCU 1 T	813 123 601	GCB 1 T	813 223 601
	2	GCU 2 T	813 128 601	GCB 2 T	813 228 601
	3	GCU 3 T	813 132 601	GCB 3 T	813 232 601
	4	GCU 4 T	813 134 601	GCB 4 T	813 234 601
	6	GCU 6 T	813 138 601	GCB 6 T	813 238 601
	10	GCU 10 T	813 146 601	GCB 10 T	813 246 601
	16	GCU 16 T	813 152 601	GCB 16 T	813 252 601
20	GCU 20 T	813 156 601	GCB 20 T	813 256 601	
25	GCU 25 T	813 158 601	GCB 25 T	813 258 601	
32	GCU 32 T	813 162 601	GCB 32 T	813 262 601	

Approvals: Contact Entelec



Approvals: Contact Entelec



Characteristics

Rated voltage	V	150 V DC max.	150 V DC max.
---------------	---	---------------	---------------

Rated wire size AWG / mm²

Interrupting capacity

Curve T	10 In Rating < 5 Amps - 20 In Rating ≥ 5 Amps	10 In Rating < 5 Amps - 20 In Rating ≥ 5 Amps
---------	-----------------------------------------------	-----------------------------------------------

Other characteristics

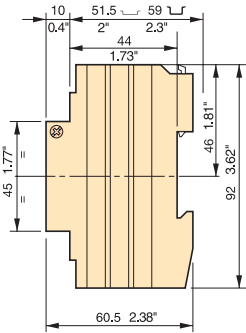
Life, number of cycles (On+Off)	4 000	4 000
Dielectric withstanding voltage	2 000 V rms	2 000 V rms
Internal resistance	See table 3 on page 595	See table 3 on page 595
Degree of protection	IP 20	IP 20
Weight	.2 lb (87 gr.)	.38 lb (174 gr.)
Mechanical shock	30 g.	30 g.
Ambient temperature	- 5° C to 40° C	-5° C to 40° C
Connection	Ø 4.5 mm. max.	Ø 4.5 mm. max.

Accessories

Type	Part number	Type	Part number
Adaptor for DIN 1 rail mount	A466	A466	822A 466 01

Note: (1) See Curves on pages 595 and 605.

Circuit breakers
Earth leakage device
Thermal-magnetic
Alternating current
Series DDI
 L DIN 3



DDI1+N...C...
1 pole + neutral in 2 modules

Spacing 35 mm (1.38")

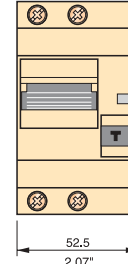


Standard blocks. Products with other options are available. Consult us.

DDIB...C...

2 poles protected in 3 modules

Spacing 52,5 mm (2.07)



Standard blocks. Products with other options are available. Consult us.

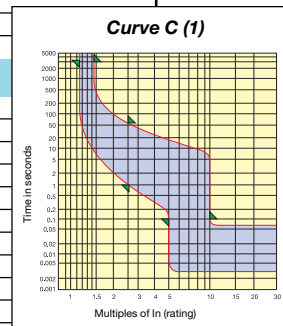
Type	Rating	Part number			Part number			
		Curve C (1)	Curve C (1)	Curve C (1)	Curve C (1)	Curve C (1)	Curve C (1)	
Complete the product type designation by replacing with the desired current rating. For example : DDI1+N 6 C 0.03 DDI1+N 10 C 0.01 DDIB 25 C 0.3 Other ratings available, consult us.	Curve : Type : Sensitivity : Rated current in Amps	DDI1+N...C0.01 10 mA	DDI1+N...C0.03 30 mA	DDI1+N...C0.3 300 mA	DDIB...C0.01 10 mA	DDIB...C0.03 30 mA	DDIB...C0.3 300 mA	
	6	863 538 311	863 538 321	863 538 341	863 238 311	863 238 321	863 238 341	
	10	863 546 311	863 546 321	863 546 341	863 246 311	863 246 321	863 246 341	
	16	863 552 311	863 552 321	863 552 341	863 252 311	863 252 321	863 252 341	
	20		863 556 321	863 556 341		863 256 321	863 256 341	
	25		863 558 321	863 558 341		863 258 321	863 258 341	
	32		863 562 321	863 562 341		863 262 321	863 262 341	
	40		863 566 321	863 566 341		863 266 321	863 266 341	
			Approvals: Contact Entelec			Approvals: Contact Entelec		

Characteristics

Rated voltage	V	240 V AC, 50/60 Hz	240 V AC, 50/60 Hz
Rated wire size	AWG / mm ²	screw clamp for 3 AWG (25 mm ²)	screw clamp for 3 AWG (25 mm ²)
Interrupting capacity			
According to standard I.E.C. 1 009 - 1		6 000 Amps	6 000 Amps (10 000 Amps on request)

Other characteristics

Life, number of cycles (On+Off)		4 000	4 000
Dielectric withstanding voltage		2 000 V rms	2 000 V rms
Tripping curves	S	5 In < S < 10 In	5 In < S < 10 In
Degree of protection		IP 20	IP 20
Weight		.49 lb (220 gr.)	.72 lb (325 gr.)
Mechanical shock		30 g.	30 g.
Ambient temperature		-5° C to 40° C	-5° C to 40° C



Accessories

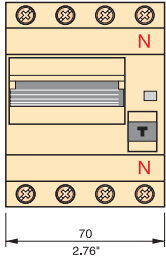
Adaptor for DIN 1 rail mount	Type A466	Part number 822A 466 01	Type A466	Part number 822A 466 01
------------------------------	---------------------	-----------------------------------	---------------------	-----------------------------------

Note: (1) See page 604 for larger scale curves.

DDI3+N

3 poles protected + neutral in 4

Spacing 52,8 mm (2.08")



Standard blocks. Products with other options are available, example : auxiliary contact. Consult us.

Part number

Curve C		
DDI3+N...C0.01 10 mA	DDI3+N...C0.03 30 mA	DDI3+N...C0.3 300 mA
863 638 311	863 638 321	863 638 341
863 646 311	863 646 321	863 646 341
863 652 311	863 652 321	863 652 341
863 656 311	863 656 321	863 656 341
863 658 311	863 658 321	863 658 341
863 662 311	863 662 321	863 662 341
863 666 311	863 666 321	863 666 341

Approvals: Contact Entrelec



415 V AC, 50 - 60 Hz

screw clamp for 3 AWG (25 mm²)

6 000 Amps

4 000
2 000 V rms

5 In < S < 10 In
IP 20
.58 lb (261 gr.)
30 g.

-5° C to 40° C

Type	Part number
A466	822A 466 01

Table 1

Current correction factor vs. temperature

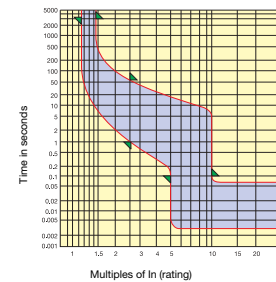
Ambient temperature °C	Ambient temperature °F	Correction factor (multiply by)
-20	-4	1.25
-10	+14	1.20
-5	+23	1.17
-0	+32	1.15
+10	+50	1.10
+20	+68	1.05
+30	+86	1.00
+40	+104	0.95
+50	+122	special P/N
+60	+140	special P/N
+70	+158	special P/N

Table 2

Internal resistance vs. current rating

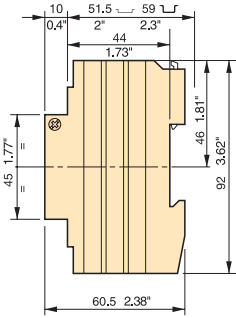
Current rating (A)	Internal resistance (mΩ)
0.5	4 000
1	1 200
2	420
4	160
10	13
20	6

Curve C



See page 604 for larger scale curves.

Switches
Earth leakage device
Alternating current
Series IDI
 ⌋ DIN 3



IDIB...N...
2 poles

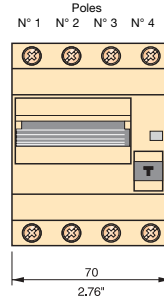
Spacing 35 mm (1.38")



Standard blocks. Products with other options are available. Consult us.

IDIQ...N...
4 poles

Spacing 70 mm (2.76")



Standard blocks. Products with other options are available. Consult us.

Type	Rating	Part number		Part number	
------	--------	-------------	--	-------------	--

Complete the product type designation by replacing with the desired current rating.
 For example :
IDIB 25 N 0.03
IDIQ 40 N 0.3

Other ratings available, consult us.

Type	Rating	Part number		Part number	
Type : Sensitivity : Rated current in Amps 25 40		IDIB... N 0.03	IDIB... N 0.3	IDIQ....N 0.03	IDIQ....N 0.3
		30 mA	300 mA	30 mA	300 mA
		861 258 721	861 258 741	861 458 721	861 458 741
		861 266 721	861 266 741	861 466 721	861 466 741
		Approvals: Contact Entelec	CE	Approvals: Contact Entelec	CE

Characteristics		
-----------------	--	--

Rated voltage	V	240 V AC, 50/60 Hz
Rated wire size	AWG / mm ²	screw clamp for 3 AWG (25 mm ²)
Sensitivity		
According to standard I.E.C. 1 008-1		Standard : 30 mAmps (10 mAmps, 300 mAmps)

Other characteristics		
-----------------------	--	--

Life, number of cycles (On+Off)	4 000	4 000
Dielectric withstanding voltage	2 000 V rms	2 000 V rms
Degree of protection	IP 20	IP 20
Weight	.42 lb (190 gr.)	.75 lb (340 gr.)
Mechanical shock	30 g.	30 g.
Ambient temperature	-5° C to 40° C	-5° C to 40° C

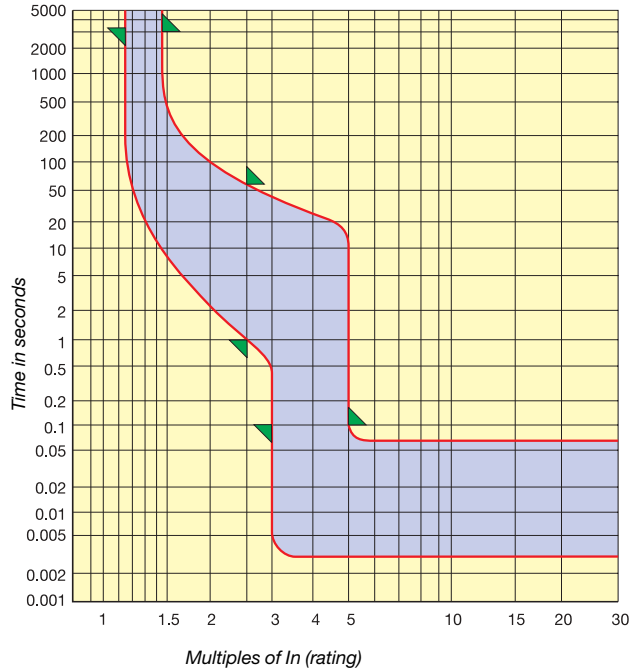
Accessories	Type	Part number	Type	Part number
-------------	------	-------------	------	-------------

Adaptor for DIN 1 rail mount	A466	822A 466 01	A466	822A 466 01
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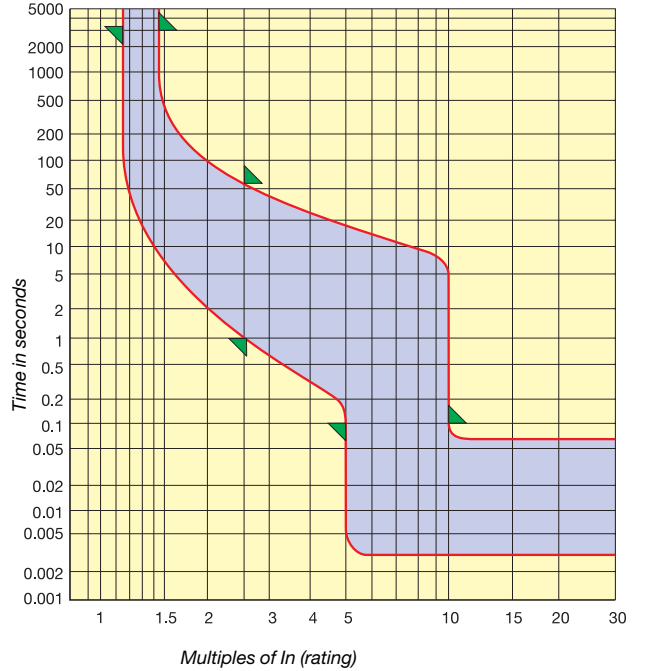
THERMAL MAGNETIC AC CURRENT CURVES FOR SERIES GM, GD, GZ, GH, DDI

ALTERNATING CURRENT, at 30° C
according to NF C 61410 standard

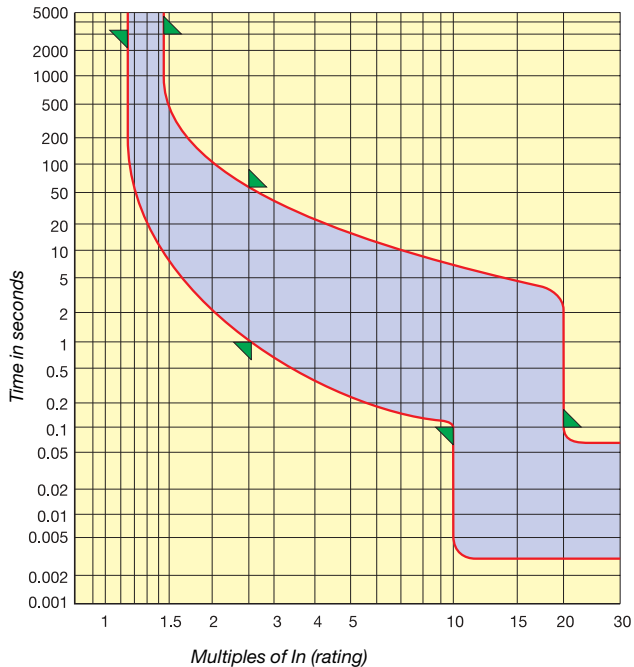
CURVE B



CURVE C



CURVE D



▲▲ Limits standard

— For information

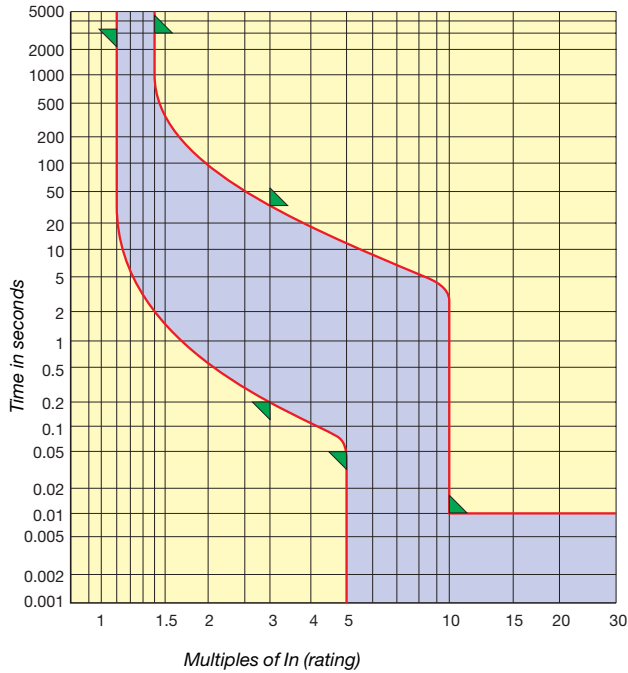
Test conditions: - cold ($I = 0$ before overload)

- overload on all the poles
for multipole devices

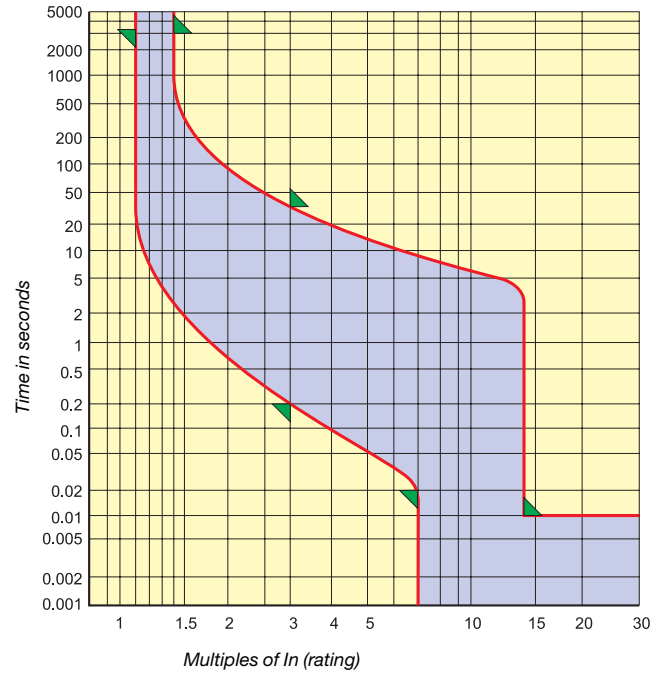
THERMAL MAGNETIC DC CURRENT CURVES FOR SERIES GF, GC, GN AND GV TYPE S

DIRECT CURRENT, at 30° C according to NF C 61410 standard

CURVE B



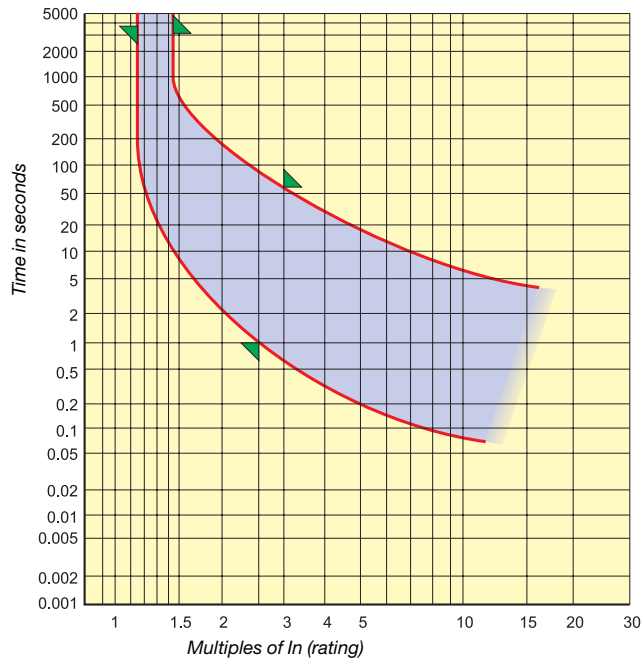
CURVE C



THERMAL DC OR AC CURRENT CURVES FOR SERIES GM, GD, GF, GC, GN AND GV TYPE T

ALTERNATING OR DIRECT CURRENT

CURVE T

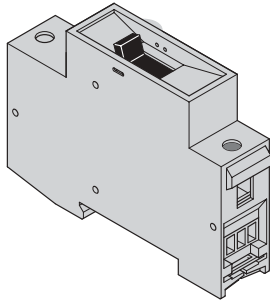


OPTIONS AND ACCESSORIES FOR MODULAR CIRCUIT BREAKERS SERIES GM - GF - GC - GZ

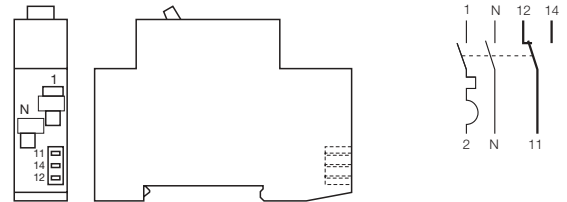
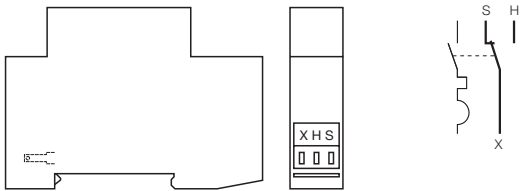
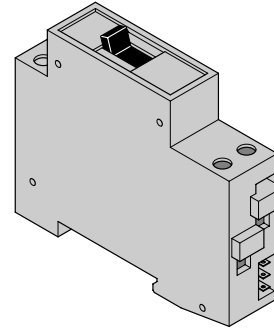
All circuit breakers are available with one or several poles (multipole)

Auxiliary contacts

Series GM - GF - GC



Series GZ (1+N only)



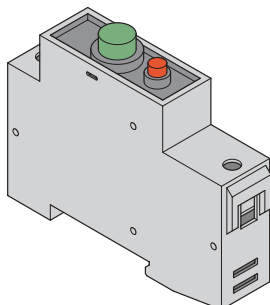
Characteristics

Switching capacity (resistive circuit) :

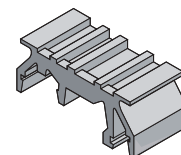
- max. value : 3 A with 240 V AC
3 A with 48 V DC
- min. value : 5 mA with 15 V DC

Quick-connect tabs 2,8 x 0,8 mm (S.H.X. terminals)

GM, GF, GC can be ordered equipped with a pushbutton



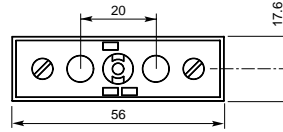
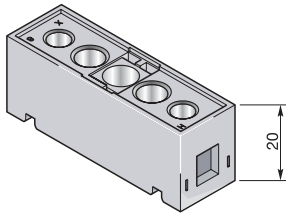
Adapter for mounting on DIN 1 / DIN 3 rails



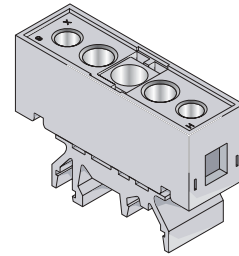
P/N: 822A 466.01

ACCESSORIES FOR CIRCUIT BREAKERS SERIES GD - GN - GV

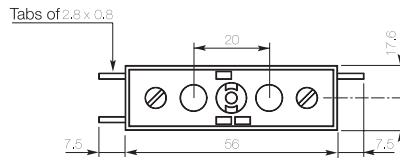
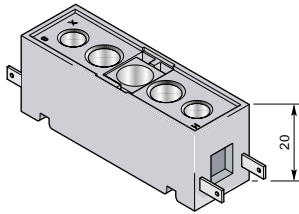
BASE MOUNTING Without auxiliary contact



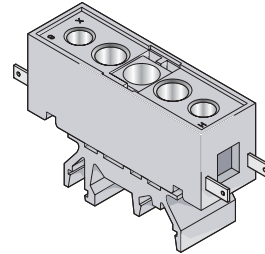
DIN RAIL MOUNTING Without auxiliary contact



With auxiliary contact



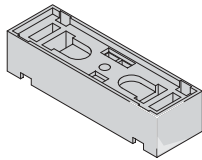
With auxiliary contact



	1 pole	2 poles	3 poles	4 poles
without contact	821B10001	821B20001	821B30001	821B40001
with contact 1	821B10101	821B20101	821B30101	821B40101
with contact 2		821B20201	821B30201	821B40201
with contact 3			821B30301	821B40301
with contact 4				821B40401

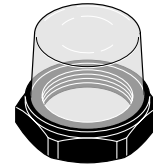
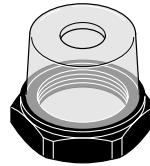
	1 pole	2 poles	3 poles	4 poles
without contact	821B13001	821B23001	821B33001	821B43001
with contact 1	821B13101	821B23101	821B33101	821B43101
with contact 2		821B23201	821B33201	821B43201
with contact 3			821B33301	821B43301
with contact 4				821B43401

Base for PCB



	1 pole	2 poles	3 poles	4 poles
Part number	821B11001	821B21001	821B31001	821B41001

Cover + waterproof equipment



Part number :

821E20801

Part number :

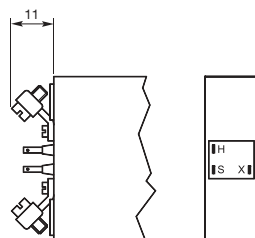
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Part number :

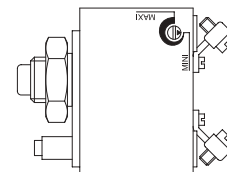
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OPTIONS

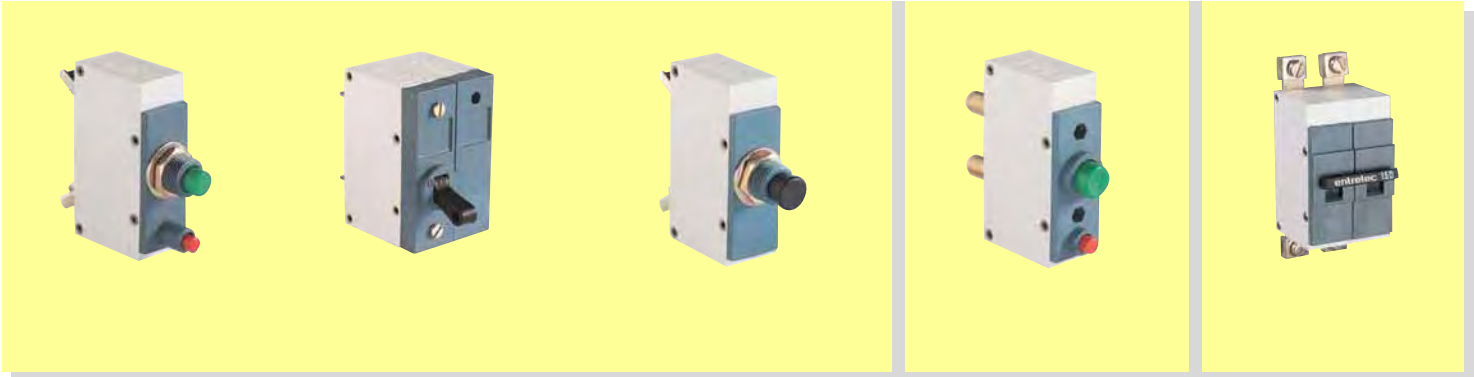
Auxiliary contact



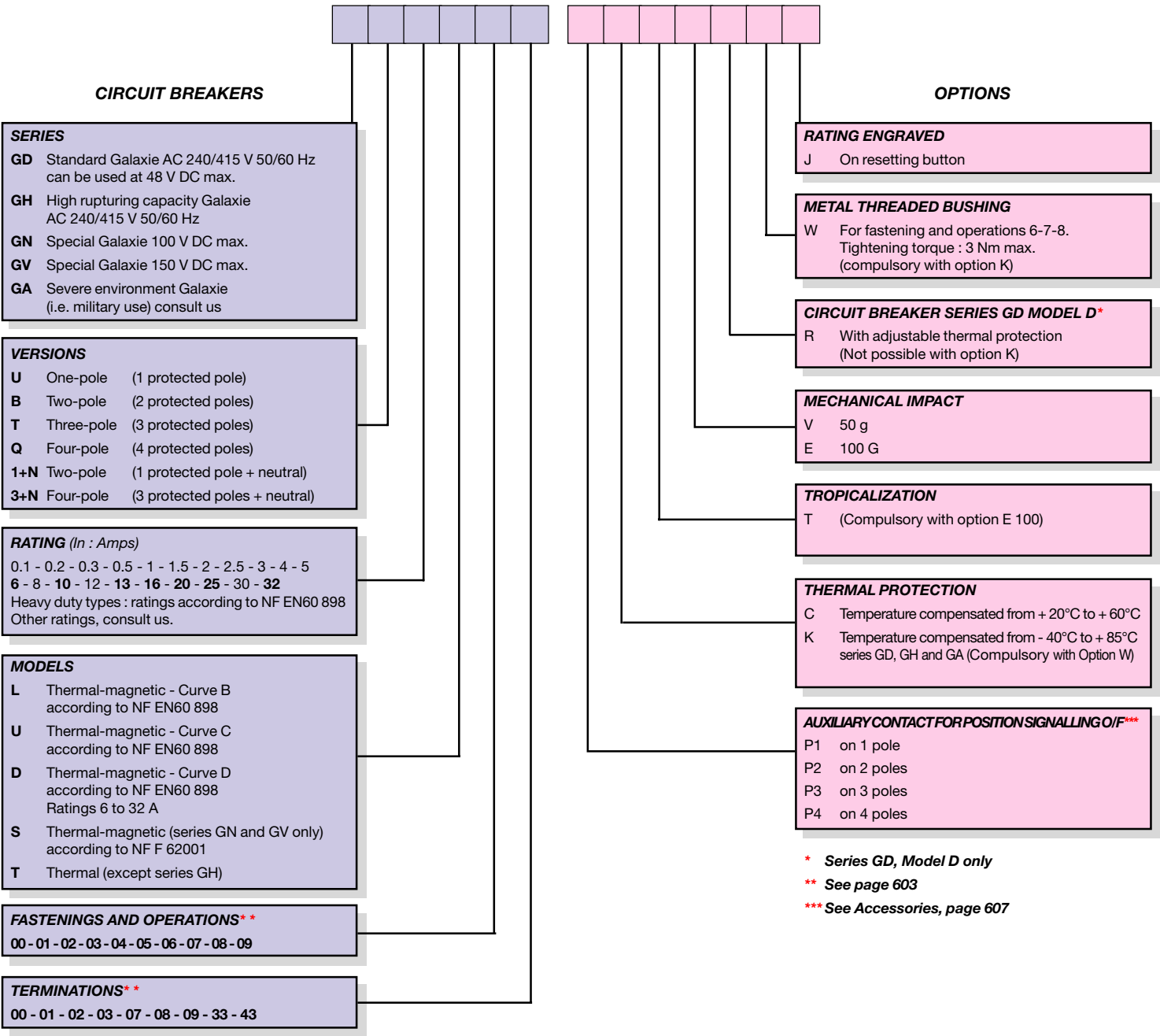
Adjustable thermal protection



FITTED OR UNPLUGGABLE OR PROJECTING CIRCUIT BREAKERS



HOW TO ORDER GD - GH - GN - GV SERIES CIRCUIT BREAKERS



EXAMPLE :

1 Circuit breaker Series : Galaxie standard AC - Version : 2 protected poles - Rating : 10 A - Model : magnetic-thermal, curve C - Fastenings and operations : Threaded bushing flush type 2 buttons - Terminations : Screws and back connectors - With Options Auxiliary for position signalling O/F : on 2 poles - Tropicalization has reference **GDB10U0703 P2T**

GD B 10 U 07 03 P2 - T - - - -