

GROUND FAULT & ARC FAULT CIRCUIT BREAKER

GF-AFCB 115/200 VAC 360 .. 800 HZ



Read also p. 8-11

REFERENCES

Rating	GF-AFCB**	Three pole AFCB	Single pole AFCB	Software + Breaker reader
1 A				
3 A	84 411 136	84 411 103	84 401 503	
5 A	84 411 137	84 411 105	84 401 505	
7.5 A	84 411 138	84 411 107	84 401 507	
10 A	84 411 139	84 411 110	84 401 510	
15 A	84 411 140	84 411 115	84 401 515	
20 A	84 411 141	84 411 120	84 401 520	
25 A	84 411 142	84 411 125	84 401 525	

Accessories: breaker reader + CD

84 411 101

** on request the GF-CB is available in star or triangle configuration with different thresholds

Mounting hardware

Threaded barrel	M12-0.75				
	M12-100	●	●	●	
Terminal Screw	7/16				
	8-32 UNC	●	●	●	
	M4				

Button color

Green			●	
Black	●	●		

Conformity standard

EN 2592 - EN 2996*	●	●		
EN 2495*			●	
AS 5692	●	●	●	

* for thermal part

Mass / MTBF / Technical file

Without mounting hardware	< 141	< 141	< 31	
With mounting hardware	< 150	< 150	< 33	
MTBF FH (Typical)	> 150 000	> 150 000	> 450 000	

GENERAL CHARACTERISTICS

Electrical

Breaking current 1CO + 2OCO	115/200 VAC (400 Hz)	2000 A	
Dielectric		1500 V	
Endurance cycles		5000 (with cos φ: 0.7)	
Insulation resistance		above 100 MΩ	
Working life (endurance) at 5° RC		50 cycles	
Auxiliary contact current		0.1..0.2 A	
Voltage drop compliance		MS14154/AS14154A/EN2592/2996/3774	

Mechanical

Operating force	8N<push<80N	5N<pull<30N
Endurance	no load	5 000 cycles
	on resistive load	5 000 cycles
Tightening torque (barrel nut)	recommended: 4 N.m ; Max.: 5 N.m	
Tightening torque (terminal screw)	1.7 N.m +/-0.1	

Environmental

Salt spray	According DO160 section 14 category B
Humidity	According DO160 section 6 category B
Operating temperature (1 to 15 A)	-60°C +125°C
Operating temperature (20 and 25 A)	-60°C +90°C
Operating temperature (Arc fault and ground fault detection)	-40°C +71°C
Acceleration (centrifugal)	17g
Shock	up to 50 g (11 ms) -1/2 sine
Vibration (sinusoidal)	10 g-PK from 5 to 2000 Hz
Vibration (random at RC)	5.82 Grms from 10 to 2000 Hz

