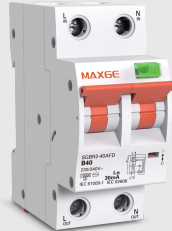


SGBR2-40AFD Series		Arc Fault Detection Device	
Standard		IEC/BS EN 62606,IEC/BS EN 61009-1	
Rated conditional short-circuit current(kA)		6,10	
Rated current(A),I _n		6,10,16,20,25,32,40	
Number of poles		1P+N	
Rated sensitivity currents(mA),I _{Δn}		10,30,100,300	
Tripping curve		B,C	
Rated residual non-operating current		0.5XI _{Δn}	
Rated impulse withstand voltage U _{imp} (kV)		4	
Rated voltage(V)		AC 230/240	
Ambient temperature (°C)		-25~+40,Max.95%humidity	
Residual current off time		≤0.1s	
Type of trip	Ground fault	Electronic	
	Over current	Thermal-magnetic	
	Arc fault	Serial Arcing Fault,Parallel Arcing Fault,Grounding Arc Fault	
	Power supply failure	Over voltage protection	
Electrical endurance		2000	
Mechanical endurance		10000	
Terminal capacity		16mm ² flexible/25mm ² rigid	
Protection degree		IP20	
Installation		35mm DIN rail	

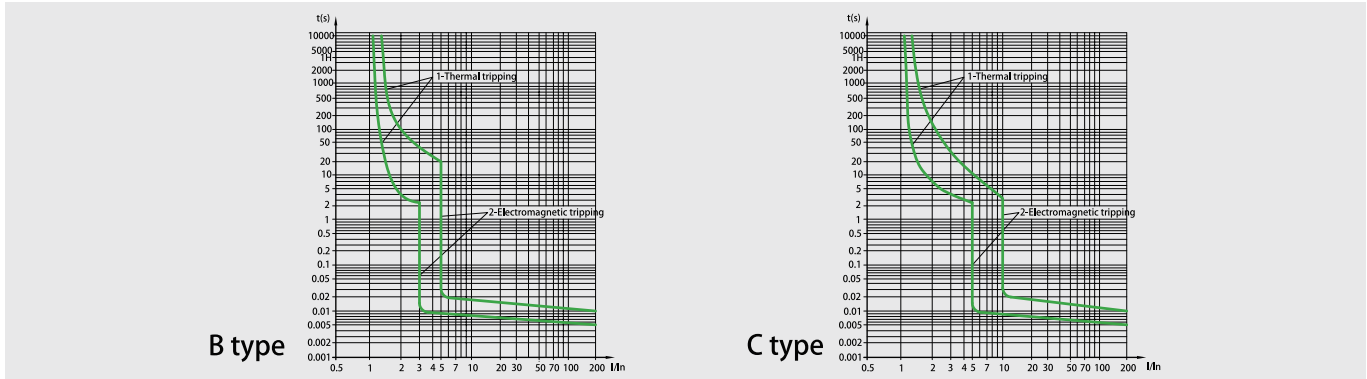


SGBR2-40AFD

SGBR2-40AFD Series			Arc Fault Detection Device				
	Rated current(A)	I Δ n	Type AC 		Type A 		Packing unit
			B curve	C curve	B curve	C curve	
 Type AC 	6	10mA	SGBR2-40AFD-B6/10	SGBR2-40AFD-C6/10	SGBR2-40AFD-B6/10-A	SGBR2-40AFD-C6/10-A	6
	10		SGBR2-40AFD-B10/10	SGBR2-40AFD-C10/10	SGBR2-40AFD-B10/10-A	SGBR2-40AFD-C10/10-A	
	16		SGBR2-40AFD-B16/10	SGBR2-40AFD-C16/10	SGBR2-40AFD-B16/10-A	SGBR2-40AFD-C16/10-A	
	20		SGBR2-40AFD-B20/10	SGBR2-40AFD-C20/10	SGBR2-40AFD-B20/10-A	SGBR2-40AFD-C20/10-A	
	25		SGBR2-40AFD-B25/10	SGBR2-40AFD-C25/10	SGBR2-40AFD-B25/10-A	SGBR2-40AFD-C25/10-A	
	32		SGBR2-40AFD-B32/10	SGBR2-40AFD-C32/10	SGBR2-40AFD-B32/10-A	SGBR2-40AFD-C32/10-A	
	40		SGBR2-40AFD-B40/10	SGBR2-40AFD-C40/10	SGBR2-40AFD-B40/10-A	SGBR2-40AFD-C40/10-A	
	6	30mA	SGBR2-40AFD-B6/30	SGBR2-40AFD-C6/30	SGBR2-40AFD-B6/30-A	SGBR2-40AFD-C6/30-A	
	10		SGBR2-40AFD-B10/30	SGBR2-40AFD-C10/30	SGBR2-40AFD-B10/30-A	SGBR2-40AFD-C10/30-A	
	16		SGBR2-40AFD-B16/30	SGBR2-40AFD-C16/30	SGBR2-40AFD-B16/30-A	SGBR2-40AFD-C16/30-A	
	20		SGBR2-40AFD-B20/30	SGBR2-40AFD-C20/30	SGBR2-40AFD-B20/30-A	SGBR2-40AFD-C20/30-A	
	25		SGBR2-40AFD-B25/30	SGBR2-40AFD-C25/30	SGBR2-40AFD-B25/30-A	SGBR2-40AFD-C25/30-A	
	32		SGBR2-40AFD-B32/30	SGBR2-40AFD-C32/30	SGBR2-40AFD-B32/30-A	SGBR2-40AFD-C32/30-A	
	40		SGBR2-40AFD-B40/30	SGBR2-40AFD-C40/30	SGBR2-40AFD-B40/30-A	SGBR2-40AFD-C40/30-A	
 Type A 	6	100mA	SGBR2-40AFD-B6/100	SGBR2-40AFD-C6/100	SGBR2-40AFD-B6/100-A	SGBR2-40AFD-C6/100-A	
	10		SGBR2-40AFD-B10/100	SGBR2-40AFD-C10/100	SGBR2-40AFD-B10/100-A	SGBR2-40AFD-C10/100-A	
	16		SGBR2-40AFD-B16/100	SGBR2-40AFD-C16/100	SGBR2-40AFD-B16/100-A	SGBR2-40AFD-C16/100-A	
	20		SGBR2-40AFD-B20/100	SGBR2-40AFD-C20/100	SGBR2-40AFD-B20/100-A	SGBR2-40AFD-C20/100-A	
	25		SGBR2-40AFD-B25/100	SGBR2-40AFD-C25/100	SGBR2-40AFD-B25/100-A	SGBR2-40AFD-C25/100-A	
	32		SGBR2-40AFD-B32/100	SGBR2-40AFD-C32/100	SGBR2-40AFD-B32/100-A	SGBR2-40AFD-C32/100-A	
	40		SGBR2-40AFD-B40/100	SGBR2-40AFD-C40/100	SGBR2-40AFD-B40/100-A	SGBR2-40AFD-C40/100-A	
	6	300mA	SGBR2-40AFD-B6/300	SGBR2-40AFD-C6/300	SGBR2-40AFD-B6/300-A	SGBR2-40AFD-C6/300-A	
	10		SGBR2-40AFD-B10/300	SGBR2-40AFD-C10/300	SGBR2-40AFD-B10/300-A	SGBR2-40AFD-C10/300-A	
	16		SGBR2-40AFD-B16/300	SGBR2-40AFD-C16/300	SGBR2-40AFD-B16/300-A	SGBR2-40AFD-C16/300-A	
	20		SGBR2-40AFD-B20/300	SGBR2-40AFD-C20/300	SGBR2-40AFD-B20/300-A	SGBR2-40AFD-C20/300-A	
	25		SGBR2-40AFD-B25/300	SGBR2-40AFD-C25/300	SGBR2-40AFD-B25/300-A	SGBR2-40AFD-C25/300-A	
	32		SGBR2-40AFD-B32/300	SGBR2-40AFD-C32/300	SGBR2-40AFD-B32/300-A	SGBR2-40AFD-C32/300-A	
	40		SGBR2-40AFD-B40/300	SGBR2-40AFD-C40/300	SGBR2-40AFD-B40/300-A	SGBR2-40AFD-C40/300-A	

SGBR2-40AFD Series Arc Fault Detection Device

Curves



Breaking time of residual current

Max.breaking time					
$I_n(A)$	$I_{\Delta n}(A)$	$I_{\Delta n}$	$2 I_{\Delta n}$	$5 I_{\Delta n}$	5-500A
6-40	0.01,0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s

Wiring (The suitable conductors should be used for connection,see table below for relative parameters)

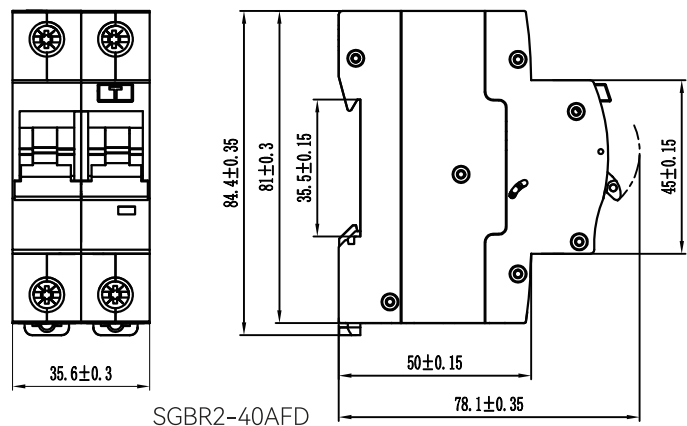
Rated current I_n (A)	Cross section area $s(mm^2)$	Tightening torque(N.m)
6	1	2.0
10	1.5	
13	1.5	
16-20	2.5	
25	4	
32	6	
40	10	

AFDD For The Consumer Unit

The 18th edition wiring regulations (BS7671) sets out requirements for electrical installations in the UK, including requirements for protection of persons, livestock & property against the risk from fires that may be generated & propagated in electrical installations.

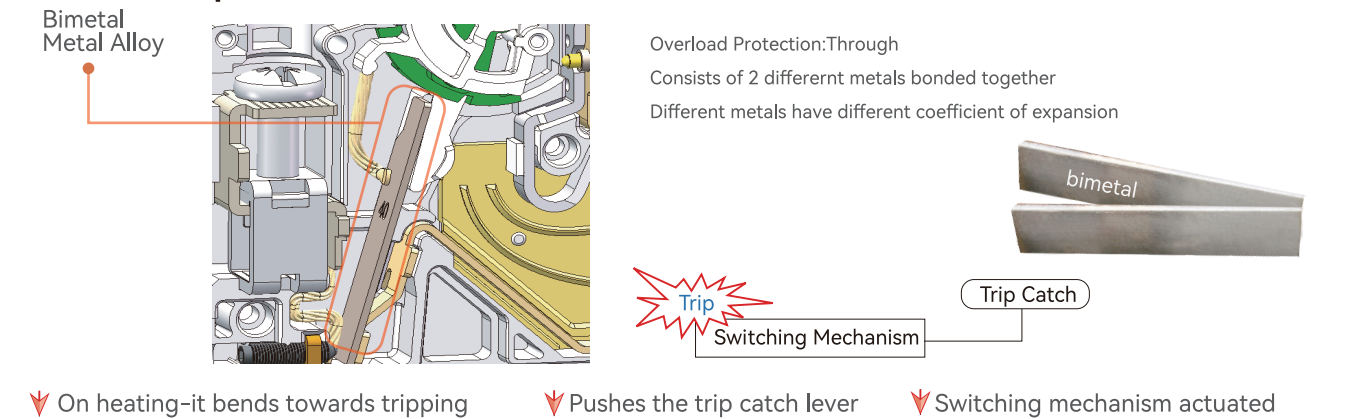
Designers & installers are required to ensure that installations are arranged so that the risk of ignition from high temperatures or electric arc is minimised,Protection requirements include protecting against the risk of fire from insulation faults, arcs & sparks & high temperatures.Installing arc fault detection devices is recommended in the 18th Edition as a method for mitigating the risk from fire in final AC circuits from arc faults.

Overall and mounting dimensions

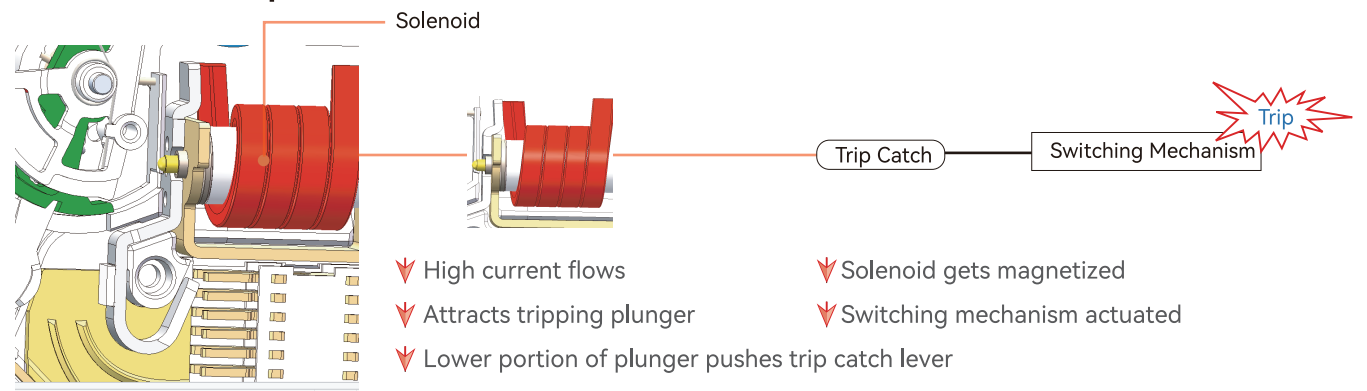


SGBR2-40AFD Series Arc Fault Detection Device

Overload Operation



Short Circuit Operation



Features & Benefits

Real Silver Graphite,AGC anti-weld contact tips

- Highest Electrical Life
- Maximum Safety against Contact welding
- Rare possibility of AFDD replacement

Energy Limiting Class 3

13 Plates Arc Chamber

- Quick & Efficient Arc Quenching
- Very low let through energy,class 3
- Increases life of Installation & equipment