

#AFDD

PREVENTS FIRES •

FITS IN NEW AND EXISTING INSTALLATIONS •

SWITCHED NEUTRAL •

4 IN 1 PROTECTION •

OVERLOAD

Test current: $I_n: 6-40A$
 $1.13 \times I_n$ No-trip
 $1.45 \times I_n$ Trip

SHORT CIRCUIT

B, C characteristic
B: $(3-5) \times I_n$
C: $(5-10) \times I_n$

ARC FAULT

Serial Arcing Fault
Parallel Arcing Fault

EARTH LEAKAGE

$I_{\Delta n}: 30, 100, 300mA$
Type A & AC




SGBR-40AFD Series Arc Fault Detection Device (AFDD)

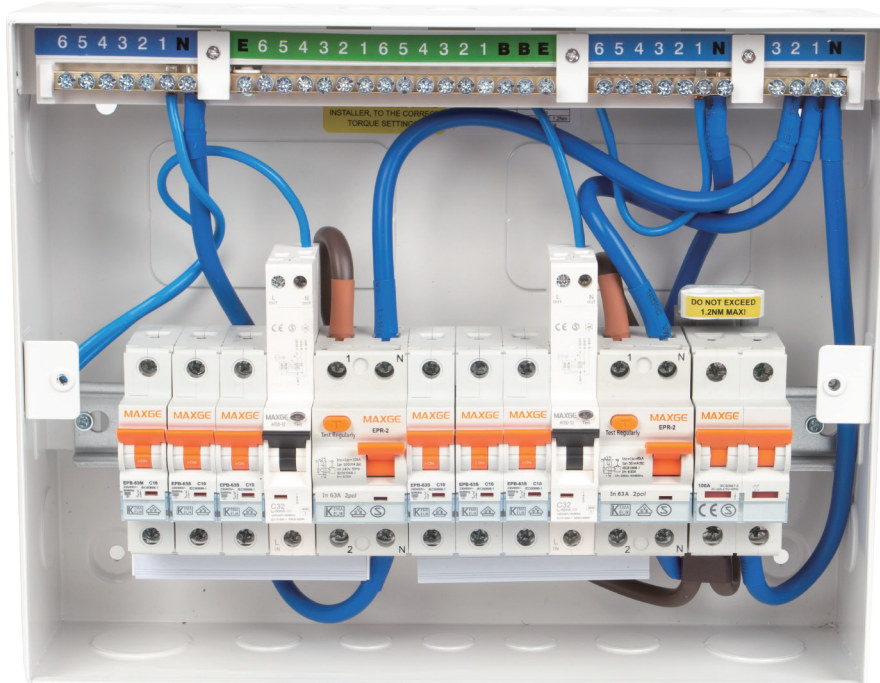
Technical data

Standard	IEC/BS EN 62606, IEC/BS EN 61009-1
Rated conditional short-circuit current, I_{nc}	6kA
Protection	Overload, Short circuit, Ground fault, Arc fault
Rated current, I_n	6, 10, 16, 20, 25, 32A, 40A
Number of poles	1P+N (1 Module)
Rated sensitivity currents, $I_{\Delta n}$	30, 100, 300mA
Characteristic	B, C Curve
Rated residual non-operating current	$0.5 \times I_{\Delta n}$
Rated impulse withstand voltage U_{imp}	4000V
Rated voltage 2pole	240VAC
Ambient temperature (°C)	-25~+40, Max. 95% humidity
Residual current off-time at $I_{\Delta n}$	$\leq 0.1s$
Type of trip	Electronic release
Type of terminal	Lug type and Pin type
Terminal capacity	Cables up to 25mm ²
Protection degree	IP20
Mechanical Endurance	10000
Electric Endurance	1200
Installation	35mm DIN rail
Application	Consumer Unit



AFDD	Rated current(A)	$I_{\Delta n}$	Type AC 		Type A 		Packing unit
			B curve	C curve	B curve	C curve	
 <p>Type AC </p>	6	30mA	AFDD-6K/B6/30	AFDD-6K/C6/30	AFDD-6K/B6/30-A	AFDD-6K/C6/30-A	5
	10		AFDD-6K/B10/30	AFDD-6K/C10/30	AFDD-6K/B10/30-A	AFDD-6K/C10/30-A	5
	16		AFDD-6K/B16/30	AFDD-6K/C16/30	AFDD-6K/B16/30-A	AFDD-6K/C16/30-A	5
	20		AFDD-6K/B20/30	AFDD-6K/C20/30	AFDD-6K/B20/30-A	AFDD-6K/C20/30-A	5
	25		AFDD-6K/B25/30	AFDD-6K/C25/30	AFDD-6K/B25/30-A	AFDD-6K/C25/30-A	5
	32		AFDD-6K/B32/30	AFDD-6K/C32/30	AFDD-6K/B32/30-A	AFDD-6K/C32/30-A	5
	40		AFDD-6K/B40/30	AFDD-6K/C40/30	AFDD-6K/B40/30-A	AFDD-6K/C40/30-A	5
	6		AFDD-6K/B6/100	AFDD-6K/C6/100	AFDD-6K/B6/100-A	AFDD-6K/C6/100-A	5
 <p>Type A </p>	10	100mA	AFDD-6K/B10/100	AFDD-6K/C10/100	AFDD-6K/B10/100-A	AFDD-6K/C10/100-A	5
	16		AFDD-6K/B16/100	AFDD-6K/C16/100	AFDD-6K/B16/100-A	AFDD-6K/C16/100-A	5
	20		AFDD-6K/B20/100	AFDD-6K/C20/100	AFDD-6K/B20/100-A	AFDD-6K/C20/100-A	5
	25		AFDD-6K/B25/100	AFDD-6K/C25/100	AFDD-6K/B25/100-A	AFDD-6K/C25/100-A	5
	32		AFDD-6K/B32/100	AFDD-6K/C32/100	AFDD-6K/B32/100-A	AFDD-6K/C32/100-A	5
	40		AFDD-6K/B40/100	AFDD-6K/C40/100	AFDD-6K/B40/100-A	AFDD-6K/C40/100-A	5
	6		AFDD-6K/B6/300	AFDD-6K/C6/300	AFDD-6K/B6/300-A	AFDD-6K/C6/300-A	5
	10		AFDD-6K/B10/300	AFDD-6K/C10/300	AFDD-6K/B10/300-A	AFDD-6K/C10/300-A	5
	16	300mA	AFDD-6K/B16/300	AFDD-6K/C16/300	AFDD-6K/B16/300-A	AFDD-6K/C16/300-A	5
	20		AFDD-6K/B20/300	AFDD-6K/C20/300	AFDD-6K/B20/300-A	AFDD-6K/C20/300-A	5
	25		AFDD-6K/B25/300	AFDD-6K/C25/300	AFDD-6K/B25/300-A	AFDD-6K/C25/300-A	5
	32		AFDD-6K/B32/300	AFDD-6K/C32/300	AFDD-6K/B32/300-A	AFDD-6K/C32/300-A	5
	40		AFDD-6K/B40/300	AFDD-6K/C40/300	AFDD-6K/B40/300-A	AFDD-6K/C40/300-A	5

1. AFDD FOR THE CONSUMER UNIT

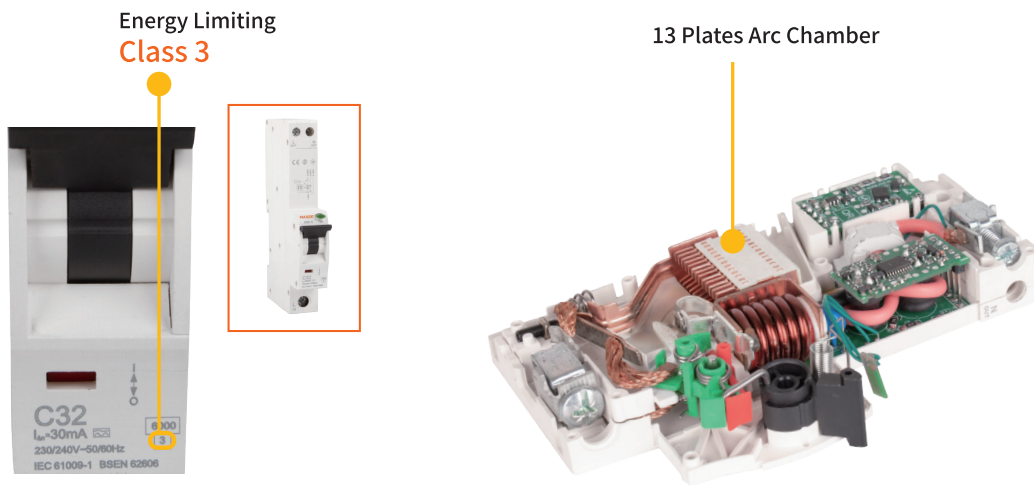


The 18th edition wiring regulations (BS7671) sets out requirements for electrical installations in the UK, including requirements for protection of persons, livestock & property against the risk from fires that may be generated & propagated in electrical installations.

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.

2. Features & Benefits



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