MK Sentry

Arc Fault Detection Device combined with RCBO (AFDD)





Description

MK SENTRY AFDDs provide protection against fires caused by electrical arcing resulting from faulty wiring or poor connections. The AFDD analyses current/voltage characteristics to identify arcing and automatically trip to isolate the circuit. AFDDs detect arcing faults which can be undetected by MCBs and RCDs.

<u><u></u></u>	Types of arc fault			
I	Series arc fault, in-line conductor caused by;			
-	 Loose connections Damaged cables (broken, crushed, worn cables) 			
ACEO 16 mA	 Rodent damage Parallel arc fault, between live conductors, L-N and L-E 			
X	undetected by MCB/RCD resulting from;			
	 Damaged insulation Pierced insulation (power tools, nails etc) Rodent damage 			
	Poor wiring / damaged appliance plugs			

Features

- Meets BS EN and IET Wiring . **Regulation requirements**
- Single module
- **DP** switching
- MCB Curve B and C

Standards and approvals

Product Standard: BS EN62606, BS EN61009-1 Product Certification: UKCA/CE Degree of Pollution: 2

- RCD Type A
- 6000A breaking capacity
- Reduces the risk of fire
- Positive status indication

AFDD/RCBO 6A DP MCB CURVE H4406s B, RCD 30MA TYPE A AFDD/RCBO 10A DP MCB CURVE H4410s B, RCD 30MA TYPE A AFDD/RCBO 16A DP MCB H4416s CURVE B, 3RCD 30MA TYPE A AFDD/RCBO 20A DP MCB CURVE H4420s B, RCD 30MA TYPE A AFDD/RCBO 32A DP MCB CURVE H4432s B, RCD 30MA TYPE A AFDD/RCBO 40A DP MCB CURVE H4440s B, RCD 30MA TYPE A AFDD/RCBO 6A DP MCB CURVE H4506s C, RCD 30MA TYPE A AFDD/RCBO 10A DP MCB CURVE H4510s C. RCD 30MA TYPE A AFDD/RCBO 16A DP MCB CURVE H4516s C, RCD 30MA TYPE A AFDD/RCBO 20A DP MCB CURVE H4520s C, RCD 30MA TYPE A AFDD/RCBO 32A DP MCB CURVE

RANGE

H4532s C, RCD 30MA TYPE A AFDD/RCBO 40A DP MCB CURVE H4540s

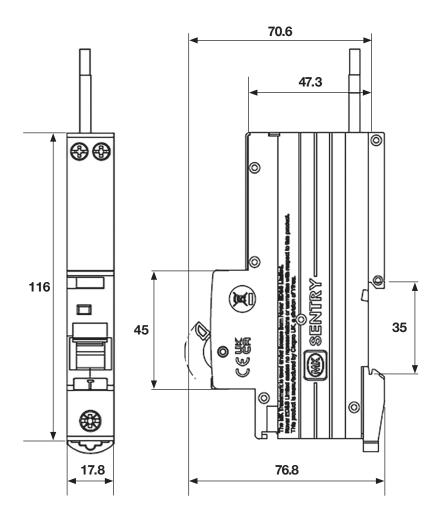
C, RCD 30MA TYPE A

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Dimensions (mm)

(Height) 116mm x (Width) 18mm x (Depth) 77mm weight 0.185Kg (0.2Kg packed)



TECHNICAL SPECIFICATION

ELECTRICAL

CURRENT RATING 6/40A

OPERATING VOLTAGE 285V ac

RATED SHORT CIRCUIT CAPACITY 6000A

MCB CURVE B and C

RCD OPERATION Type A - 30mA tripping current

SURGE CURRENT RESISTANCE 3000A @8/20s µs

ENERGY LIMITING CLASS 3

PHYSICAL

AMBIENT OPERATING TEMPERATURE -5°C to +40°C

NUMBER OF POLES 1P + N

IP RATING Front face IP4X, screw IP2X

TERMINAL CAPACITY Line / Neutral (Load) 16mm2 (torque 1.2Nm) Line (Supply) 10mm2 (torque 2.5Nm)

MAX. INSTALLATION ALTITUDE 2000 metres

LED INDICATION

The following table describes all possible LED states:

Green LED is on	Device operable	•••••	
1X red flash	Serial or parallel arc detected	•0•0•0•0•0	After LED flash 5 times, then product will do self test: self test passed, green LED will flash; failed, red LED will stay on, need contact service.
2X yellow flash	Overvoltage (>285V)	••••••••••••••	
3X yellow flash	Residual current detected	••••••••••••••••••	
Red LED is on	Self test failed	••••••••••••••••••••••	
No flash	No supply voltage		

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