Electric Fire Protective Device, Arc Fault Protection AFDD+, 2-pole

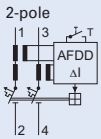
- Electric fire protective device acc. to IEC/EN-62606
- Line-voltage-independent RCBO (combined switch) acc. to IEC/EN 61009
- 2-pole: Both clearances between open contacts are protected
- Variable installation of N either left or right
- Tripped indication: CB, RCD or AFDD
- LED indication for arc faults
- Compatible with standard busbar
- Twin-purpose terminal (lift/open-mouthed) above and below
- Busbar positioning optionally above or below
- Free terminal space despite installed busbar
- Guide for secure terminal connection
- Switching toggle (MCB component) in colour designating the rated current
- Contact position indicator red - green
- Comprehensive range of accessories suitable for subsequent installation
- The test key “T” must be pressed every 6 month. The system operator must be informed of this obligation and his responsibility in a way that can be proven (self-adhesive RCD-label enclosed). The test interval of 6 month is valid for residential and similar applications. Under all other conditions (e.g. damply or dusty environments), it’s recommended to test in shorter intervals (e.g. monthly).
- Pressing the test key “T” serves the only purpose of function testing the residual current device (RCD). This test does not make earthing resistance measurement (R_E), or proper checking of the earth conductor condition redundant, which must be performed separately.
- **Type -A**: Protects against special forms of residual pulsating DC which have have not been smoothed
- **Type -Li/A**: As Type –A, but in addition it is short-time delayed. Highly reliable against unwanted tripping

Accessories:

Auxiliary switch for subsequent installation	ZP-IHK	286052
Auxiliary switch	ZP-NHK	248437
Shunt trip release	ZP-ASA/..	248438, 248439
Switching interlock	IS/SPE-1TE	101911
Busbars: ZV-SS; ZV-L1/N; ZV-L2/L3; ZV-ADP; ZV-AEK		

Connection diagram

2-pole

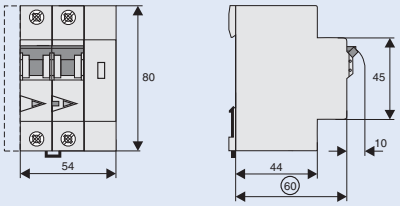


Technical Data

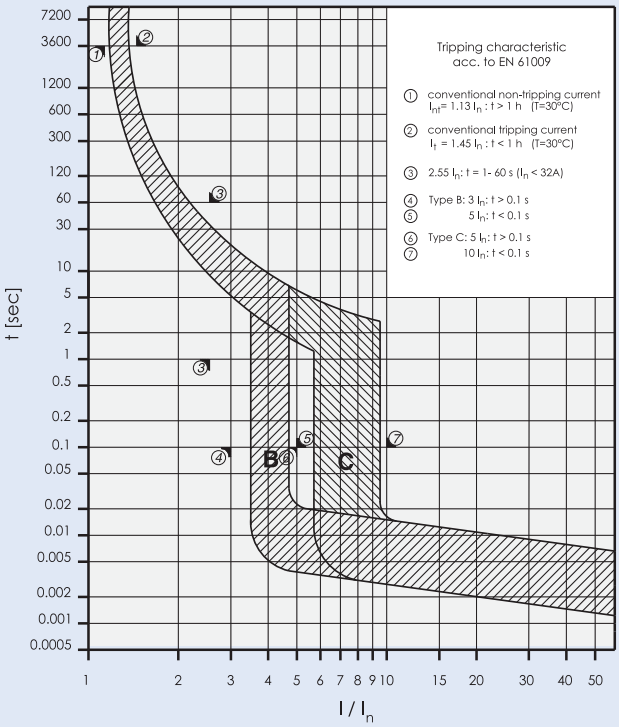
Electrical	
Design according to	IEC/EN 62606, IEC/EN 61009
Current test marks as printed onto the device	
Tripping	
Line-voltage-independent	instantaneous 250A (8/20µs) surge-current-proof
Rated voltage U_e	240 V AC; 50 Hz
Operational voltage range	170-264 V
Rated tripping current $I_{\Delta n}$	10, 30 mA
Rated non-tripping current $I_{\Delta no}$	0.5 $I_{\Delta n}$
Sensitivity	AC and pulsating DC
Selectivity class	3
Rated breaking capacity	
AFDD 10-25A	10 kA
AFDD 32-40A	6 kA
Rated current	10 - 40 A
Rated peak withstand voltage U_{imp}	4 kV (1.2/50µs)
Rated fault breaking capacity $I_{\Delta m}$	
EN 61009	3 kA
IEC 61009	10-16 A: 3 kA 20-40 A: 500 A
Arc fault tripping times after load current (acc. to IEC/EN62606):	
Load current (A)	Tripping time (s)
2.5	<1
5	<0.5
10	<0.25
16	<0.15
32	<0.12
40	<0.12
Characteristic	B, C
Maximum back-up fuse (short circuit)	100 A gL (>10 kA)
Endurance electrical comp.	≥ 4,000 switching operations
mechanical comp.	≥ 20,000 switching operations

Mechanical	
Frame size	45 mm
Device height	80 mm
Device width	54 mm (3MU)
Mounting	3-position DIN rail clip, permits removal from existing busbar system
Upper and lower terminals	open mouthed/lift terminals
Terminal protection	finger and hand touch safe, DGUV VS3, EN 50274
Terminal capacity	1 - 25 mm^2
Busbar thickness	0.8 - 2 mm
Degree of protection switch	IP20
Degree of protection, built-in	IP40
Tripping temperature	-25°C to +40°C
Storage- and transport temperature	-35°C to +60°C
Resistance to climatic conditions	acc. to IEC/EN 61009

Dimensions (mm)



Tripping Characteristic AFDD+, Characteristics B and C



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