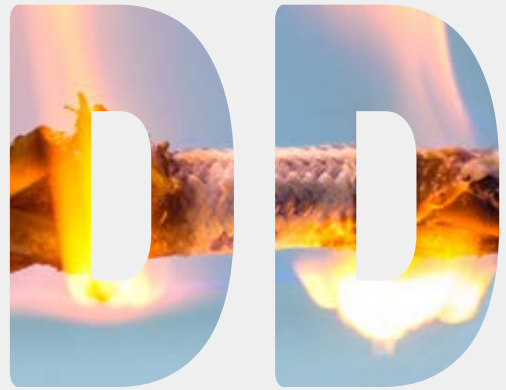


# ZAŠČITNA NAPRAVA ZA DETEKCIJO OBLOKA

Zazna in  
prekine oblok  
v končnih  
tokokrogih



Kombinacija zaščitne  
naprave za detekcijo  
tokov napake (EFI) in  
zaščitne naprave za  
preobremenitev (ETIMAT)



# Zaščitna naprava za detekcijo obloka AFDD+, 2-polna

## Lastnosti

- ✘ Zaščitna naprava za detekcijo obloka po standardu IEC/EN-62606
- ✘ Zazna in prekine obloke v končnih tokokrogih
- ✘ Združuje kombinacijo zaščitne naprave za detekcijo tokov napake (EFI) in zaščitne naprave za preobremenitev (ETIMAT)
- ✘ 2 polna zaščita: oba pola sta ščitena
- ✘ Možnost priključitve N vodnika na levi oziroma desni strani
- ✘ Nazivni tokovi od 10 do 20A
- ✘ Indikacija stanja kontaktov rdeče-zeleno
- ✘ Indikacija vzroka proženja: MCB, RCCB ali AFDD
- ✘ LED signalizacija ob proženju zaradi obloka
- ✘ Trajen samonadzor
- ✘ Nadnapetostna in nadtemperaturna zaščita
- ✘ Navodila za varno priključitev
- ✘ 3-nivojski zaskočnik, ki omogoča enostavno zamenjavo ob uporabi povezovalnih letev
- ✘ Tok napake 30mA
- ✘ Izklopni karakteristiki B & C
- ✘ Izklopna zmogljivost do 10kA

## Tehnične karakteristike

- ✘ KZS funkcija je napetostno neodvisna (po standardu 61009)
- ✘ Dvojna priključitev na sponkah
- ✘ Navodila za varen priklop
- ✘ Vsaj enkrat na pol leta je potrebno pritisniti testno tipko pri čemer mora aparat izklopiti. To velja za stanovanjske in podobne zgradbe. Za ostale aplikacije (prašni in vlažni prostori) je priporočljiva uporaba krajšega intervala, 1-krat mesečno.
- ✘ Tip A: zaščita proti tokom napake, ki imajo posebno pulzirajočo obliko enosmernega toka.

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

## FEATURES

- ✘ Electric fire protective device acc. to IEC/EN-62606
- ✘ Detects and quenches arc faults in final circuits
- ✘ Fully combined with residual current circuit breaker (RCCB) and miniature circuit breaker (MCB)
- ✘ 2-pole: Both clearances between open contacts are protected
- ✘ Variable installation of N either left or right
- ✘ Rated currents from 10 to 20 A
- ✘ Contact position indicator red – green
- ✘ Tripped indication: MCB, RCCB or AFDD
- ✘ LED indication for arc faults
- ✘ Permanent self-monitoring
- ✘ Overvoltage and overheat monitoring
- ✘ Guide for secure terminal connection
- ✘ 3-position DIN rail clip, permits removal from existing busbar system
- ✘ 30 mA rated residual currents
- ✘ Tripping characteristics B, C
- ✘ Rated breaking capacity up to 10 kA

## TECHNICAL CHARACTERISTICS

- ✘ Line-voltage-independent RCBO (combined switch) acc. to IEC/EN 61009
- ✘ 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
- ✘ The test key "T" must be pressed every 6 months. 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 months 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 (RE), 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 not been smoothed

# Tehnični podatki

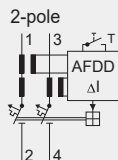
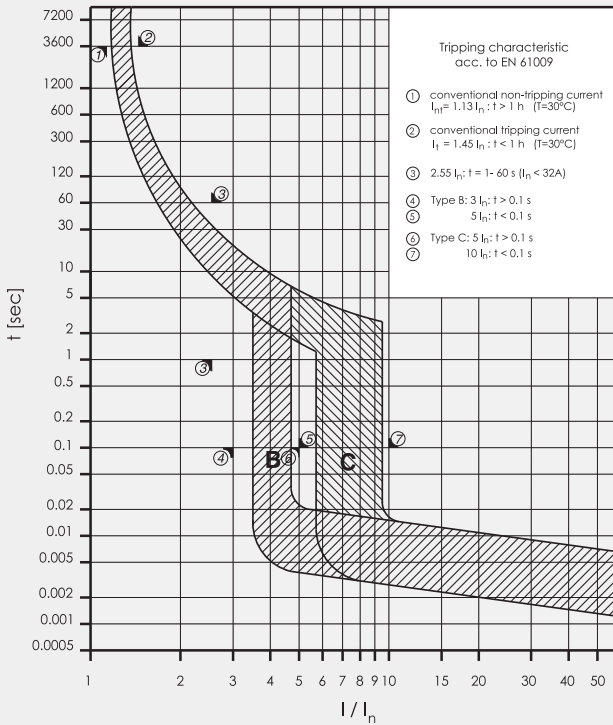
## Technical features

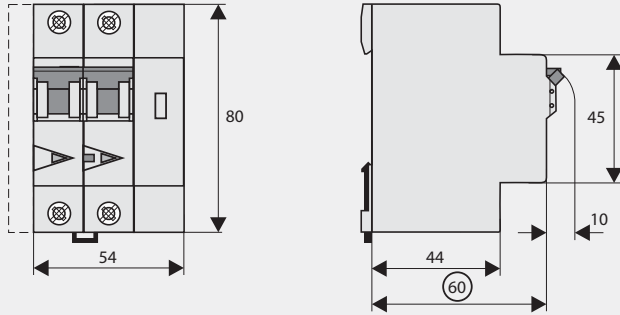
Technical data / Tehnični podatki		
<b>Electrical / Električni</b>		
Rated voltage $U_n$	Nazivna napetost $U_n$	240 V AC; 50 Hz
Rated current $I_n$	Nazivni tok $I_n$	10, 13, 16, 20
Tripping (line-voltage-independent)	Izklopni čas (napetostno neodvisen)	instantaneous / nezakasnen 250A (8/20 $\mu$ s) surge-current-proof / preizkus udarnega toka
Operational voltage range	Delovna napetost	170 V ... 264 V
Rated tripping current $I_{\Delta n}$	Nazivni tok napake $I_{\Delta n}$	30 mA
Rated non-tripping current $I_{\Delta no}$	Nazivni nedelujoči tok napake $I_{\Delta no}$	0,5 $I_{\Delta n}$
Sensitivity	Občutljivost	AC & pulsating / pulzirajoči DC
Rated short-circuit capacity	Nazivna kratkostična zmogljivost	10kA
Rated peak withstand voltage $U_{imp}$	Nazivna impulzna vzdržna napetost $U_{imp}$	4 kV (1,2/50 $\mu$ s)
Characteristic	Karakteristika	B, C
Selectivity class	Razred selektivnosti	3
Maximum back-up fuse (short circuit)	Max. predvarovalka (kratek stik)	100 A gG
Standard	Standard	IEC/EN 62606, IEC/EN 61009
Mechanical endurance	Mehanska življenjska doba	$\geq 4.000$
Electrical endurance	Električna življenjska doba	$\geq 20.000$
<b>Mechanical / Mehanični</b>		
Frame size	Velikost odprtine razdelilca	45mm
Device height	Višina	80 mm
Device width	Širina	54 mm (3 MU)
Degree of protection switch	Stopnja zaščite - stikalo	IP20
Degree of protection, built-in	Stopnja zaščite - po vgradnji	IP40
Mounting	Montaža	3-position DIN rail clip, permits removal from existing busbar system / 3-pozicijska sponka za DIN letev, omogoča enostavno odstranitev iz zbiralnega sistema
Upper and lower terminals	Zgornji in spodnji priključki	open mounted/lift terminals
Terminal protection	Zaščita priključnih sponk	finger and hand touch safe / zaščita dotika s prstom, roko DGVV VS3, EN 50274
Terminal capacity	Priključne sponke	1-25 mm <sup>2</sup>
Busbar thickness	Debelina zbiralk	0,8 - 2 mm
Operating temperature	Delovna temperatura	-25°C ... +40°C
Storage and transport temperature	Temperatura skladiščenja in transporta	-35°C ... +60°C
Resistance to climatic conditions	Odpornost na klimatske pogoje	IEC/EN 61009

Arc fault tripping times after load current (acc. to IEC/EN62606):

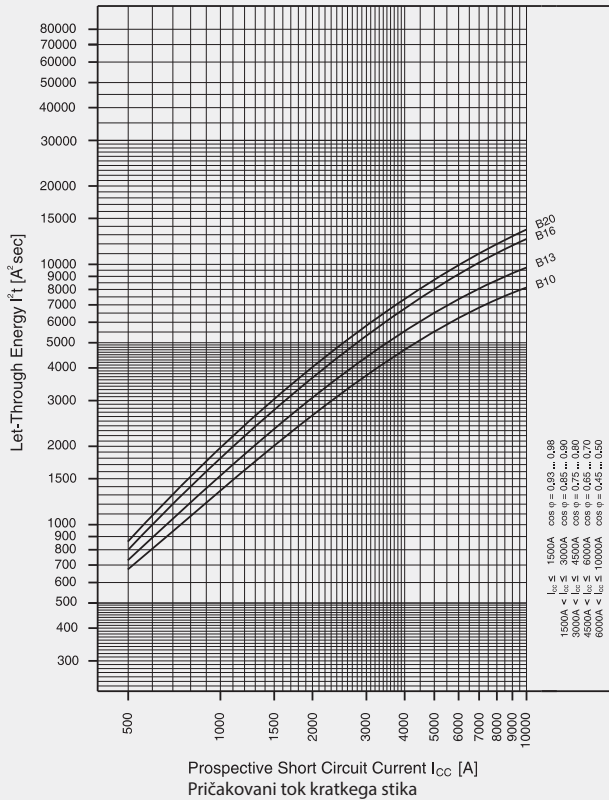
Čas izklopa ob pojavu obloka pri toku obremenitve (po IEC/EN62606):

Load current [A]	Tripping time [s]
Tok obremenitve [A]	Čas izklopa [s]
2,5	<1
5	<0,5
10	<0,25
16	<0,15
32	<0,12
40	<0,12

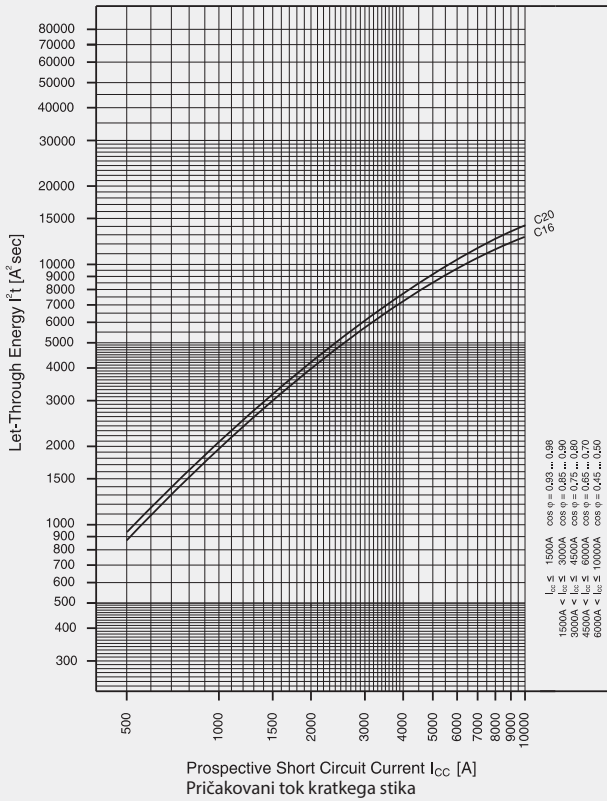




Prepuščena energija /  
 Let-through energy AFDD<sup>+</sup>, characteristic B, 2-pole



Prepušćena energija /  
 Let-through energy AFDD+, characteristic C, 2-pole



# Informacije za naročanje

## Commercial information

### AFDD+ Karakteristika B

$I_n$ [A]	Opis Description	Šifra Code No.	Teža [g]	Pak. [kos]
10	AFDD-10/2/B/003-A	002173832	295	1/40
13	AFDD-13/2/B/003-A	002173833		
16	AFDD-16/2/B/003-A	002173834		
20	AFDD-20/2/B/003-A	002173835		

### AFDD+ Karakteristika C

$I_n$ [A]	Opis Description	Šifra Code No.	Teža [g]	Pak. [pcs]
16	AFDD-16/2/C/003-A	002173854	295	1/40
20	AFDD-20/2/C/003-A	002173855		

