

AFDD TPN Distribution Boards



High performance AFDDs to IEC/EN-62606: trip rated at 10kA up to 25A trip rated at 6kA for 32A and 40A 2 x 80A EVG busbars which accommodates incomer and AFDD feeders 125A incomer kits available as standard (TP and TPSN) Boards sizes combined to align top and bottom Optional internal

SPD: Type 2 surge arrester protection Type 1 and 2 combined lightning/surge arrester protection

A choice of metering solutions

A wide range of accessories including optional internal SPD, multi board separation kits and alignment spacer, full profile blanking modules for unused AFDD ways, and door locking options.

- Optimised compact design for 125A SPN and 250A TPN applications
- TPN type B boards sizes – 14, 24 and 36 AFDD ways
- TPN type B extension boards 6 and 12 AFDD ways
- SPN type A boards , up to 5 AFDD ways with options for split load, hybrid and metered
- High-performance AFDDs, trip rated at 10kA up to 25A and trip rated at 6kA for 32A and 40A

BOARD OPTIONS	EATON LIST NUMBER	RATING (A)	TOTAL NO. OF AFDD OUTGOING WAYS
14 way AFDD, TPN, type B distribution board	EBMAFDD141	125	14
24 way AFDD, TPN, type B distribution board	EBMAFDD241	125	24
36 way AFDD, TPN, type B distribution board	EBMAFDD361	125	36

- Enclosure will accept Eaton 2-pole, 3 modules, AFDDs
- Optional internal SPD
- Enclosure degree of protection IP4X (wall mounted)
- Short circuit rating 10kA

INCOMER OPTIONS	EATON LIST NUMBER	RATING (A)	POLE CONFIGURATION
Switch Disconnecter - 4 pole	EMS1253N	125	TPSN
Switch Disconnecter - 3 pole	EMS1253	125	TP
Neutral link kit - required when using 3 pole device	EBMAFDDN	125	-

- Incomer devices supplied separately to DBs
- Maximum cable capacity 50mm²

Accessories and SPDs

- Separation shield - to separate boards mounted on top of each other
- Single phasing kit
- Multi board alignment spacer - 20mm
- SPD Type 1&2 and Type 2

SPDS	EATON LIST NUMBER
SPDs kit for AFDD DB - type 2	EBMAFDDSPDT2
SPDs kit for AFDD DB - type 1&2	EBMAFDDSPDT12

ACCESSORIES	EATON LIST NUMBER
Separation shield	EBMAFDDSS
Single phasing kit	EBMAFDDSP
Multi board alignment spacer	EBMAFDDS20

Outgoing AFDD+



- Combines three protective functions in one device
 - o Arc fault fire protection
 - o Short-circuit and overcurrent protection (cable protection)
 - o Residual current protection
- Saves time during troubleshooting with repetition of the error code
- In the event of a fault, only the affected final circuit is switched off
- Built-in displays indicate the device status and the trip reason:
 - o User-friendly display of the error code via LED
 - o The repetition of the error code saves time during trouble shooting
- The highly sensitive digital detection of arc faults exceeds the applicable product guidelines and prevents unintentional tripping
- AFDD+ busbar as accessory supports easy and flexible installation
- Complies with the guidelines set out in IEC 60364-4-42

DESCRIPTION	EATON ARTICLE NUMBER	RATING (A)	SHORT CIRCUIT RATING (KA)	TRIP TYPE
10A B 2P 30mA Type A	187168	10	10	B
13A B 2P 30mA Type A	187180	13	10	B
16A B 2P 30mA Type A	187204	16	10	B
20A B 2P 30mA Type A	187219	20	10	B
25A B 2P 30mA Type A	187225	25	10	B
32A B 2P 30mA Type A	187231	32	6	B
40A B 2P 30mA Type A	187237	40	6	B
10A C 2P 30mA Type A	187174	10	10	C
13A C 2P 30mA Type A	187186	13	10	C
16A C 2P 30mA Type A	187210	16	10	C
20A C 2P 30mA Type A	187222	20	10	C
25A C 2P 30mA Type A	187228	25	10	C
32A C 2P 30mA Type A	187234	32	6	C
40A C 2P 30mA Type A	187240	40	6	C

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