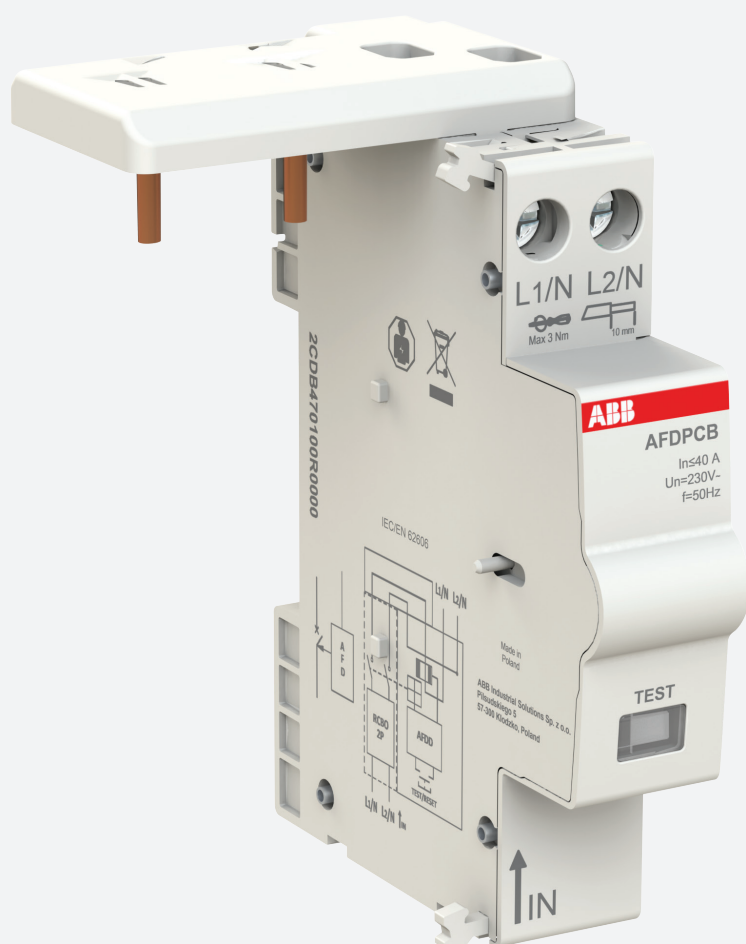


CATALOGUE

AFDPCB

Arc faults protection for two phase applications



- Easy combination with DS202CR for a complete protection of the installation
- LED indication to for an easy troubleshooting

**Comprehensively protect people,
irreplaceable goods and buildings.
Extended fire protection in the
electrical installation with ABB's
arc fault detection unit AFDPCB
suitable for combination with
RCBO 2P 2M of the series DS202CR**

Table of contents

004	AFD unit AFDPCB
005	Technical datasheet
006	Order codes and dimensions

AFDPCB

AFD unit for combination with 2P RCBO 2M



Easy to install

Easy combination with DS202CR (2P RCBO in 2M) up to 40A for a complete protection in 2 phases applications



Test pushbutton

Test pushbutton to verify the correct functioning of the arc fault detection device. Internal self test is also periodically running in order to check the arc detection circuit.



Load

Load connection from the top side of AFD unit



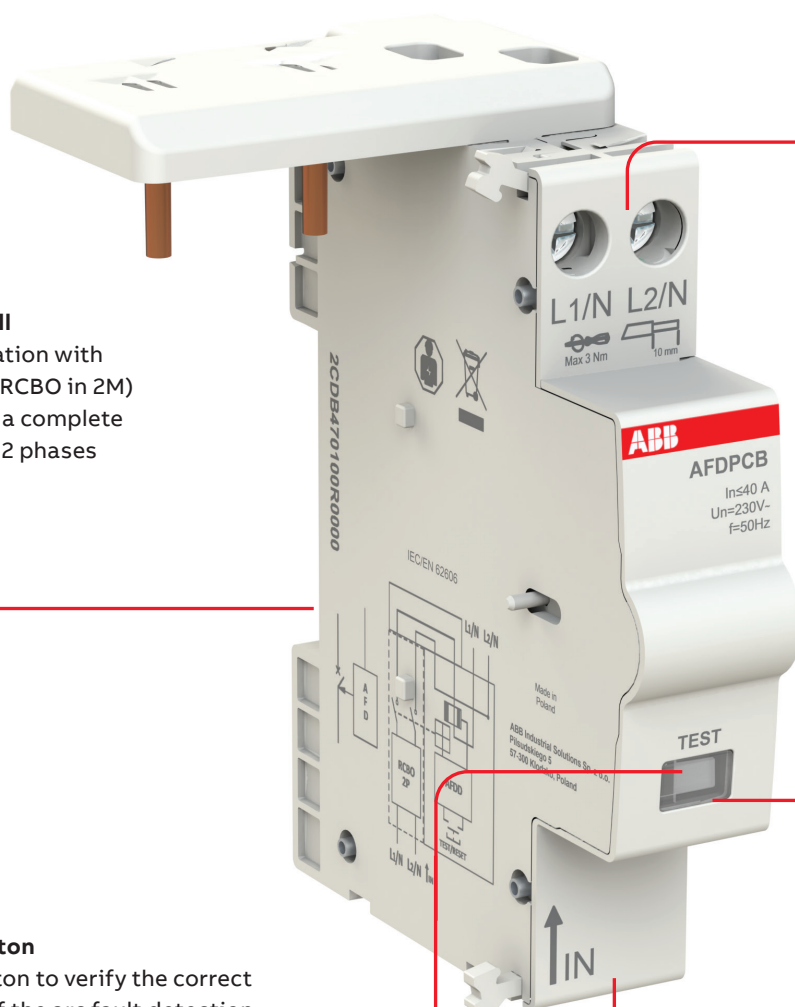
LED for troubleshooting

LED troubleshooting indicator to monitor the operation of the AFDD and give indication of the tripping cause.



Supply

Supply from the bottom side of the associated combined device.



AFDPCB

Technical datasheet



AFD unit AFDPCB can be combined with 2P RCBO in 2M of DS202CR series providing protection up to 40A against overcurrents, residual currents and arc faults currents. Perfect solution in 3M for a complete protection in two phases applications. Signal and auxiliary contacts can be added on the left side of DS202CR.

AFDPCB				
Electrical features	Standards		IEC/EN 62606	
	Number of poles		2P	
	Rated Current In	A	Up to 40A	
	Rated operational voltage Ue	V	230	
	Rated Insulation voltage Ui acc. to IEC/EN 60664-1	V	500 V AC only on output terminals with combined RCBO in OFF position	
	Pollution degree		2	
	Operating voltage range	V	195.5 - 253 (0.85 Un - 1.1 Un)	
	Threshold for protection against overvoltage	V	275	
	Rated frequency f	Hz	50	
Mechanical features	Protection degree acc. To EN 60529	housing	IP40	
		terminals	IP20	
	Environmental conditions (damp heat) acc. to IEC/EN 60068-2-30	°C/RH	28 cycles with 55°C/90-96% and 25°C/95-100%	
	Reference temperature for tripping characteristics	°C	30	
	Ambient temperature (with daily average ≤ +35 °C)	°C	-25...+40	
	Storage temperature	°C	-40...+75	
LED indications	LED indications		Permanent red: power ON, AFDD working properly	
			Blinking Yellow: serial or parallel arc fault detected	
			Blinking Red: Overvoltage detected	
			Blinking Red and Yellow: AFDD defective	
Installation	Compatible with		DS202CR series	
	Supply from		Bottom terminals of the combined device	
	Load from		Top terminals of the AFD unit	
	Terminal type	top	Cage terminal	
		bottom	No terminal, supply connection done from the combined device	
	Cross-section of conductors	top	mm ²	1...16 rigid; 1...10 flexible
	Tightening torque	top	Nm Max	3
	Wire Stripping Length	top	mm	10
	Mounting Type		on DIN rail EN 60715 (35mm) by means of mounting clip	
	Mounting Position		Any	
Dimensions and weight	Dimensions (H X D X W)	mm	92 x 69 x 53,4	
	Weight	g	83	



AFDPCB

Order codes and dimensions

AFD unit AFDPCB

Function: protection of end user two-phase circuits against earth arc faults, parallel arc faults and series arc faults. Suitable for combination with 2P RCBO 2M DS202CR series up to 40A, adding protection against short-circuit currents, overload and earth fault currents.

Applications: residential, commercial

Standard: IEC/EN 62606

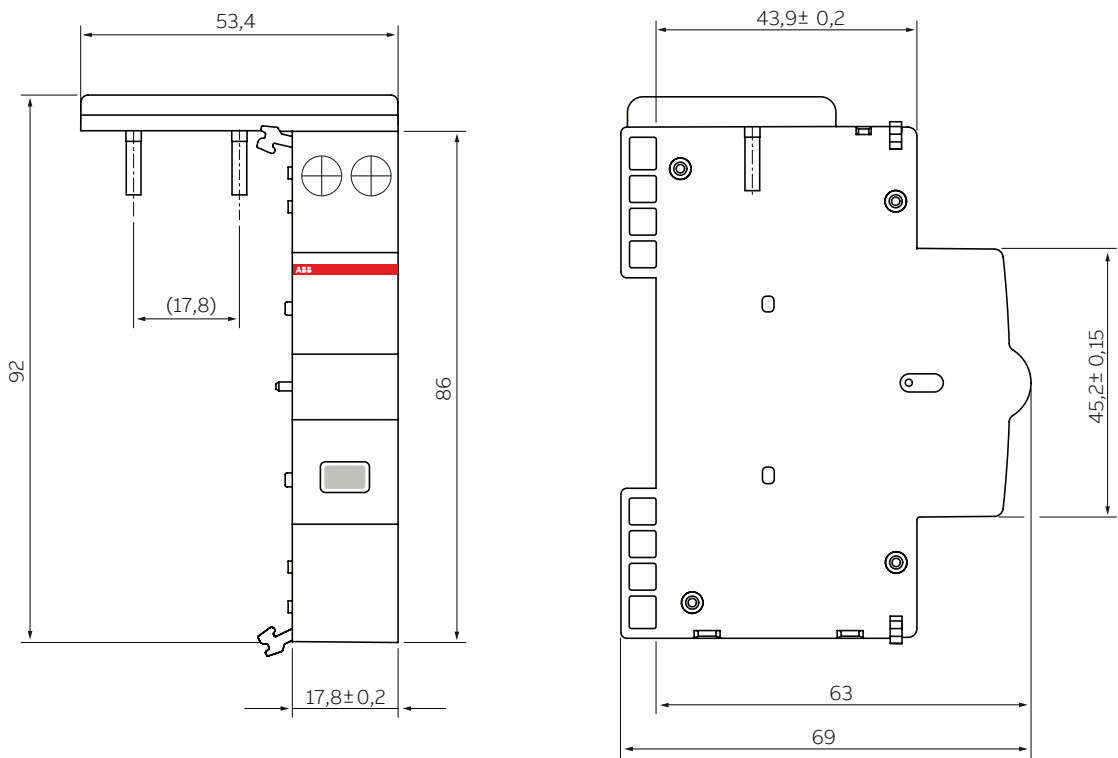


Numbers of pole	Rated current (A)				Weight 1pc	Pack unit
		EAN	Type Code	Order code	Kg	pc
2P	Up to 40	5413656607410	AFDPCB	2CDB470100R0000	0,83	1



AFDPCB

Dimension diagrams



Notes



—
abb.com/category