



Single Module A Type BI-Directional RCBO

Description

The WRB1 Range RCBO from W brand with A&AC Type RCD protection in one. RCBOs provide residual and overload protection in one neat device. They can detect & respond as for type AC, PLUS pulsating DC components. Ideal for Domestic and Commercial applications.

Switched Live and Neutral

The WRB Range RCBOs with switched neutral built in as standard will fully isolate a faulty or damaged circuit by disconnecting live and neutral conductors. They offers the most comprehensive circuit protection available.

Using the WRB range rcbos will guarantee that healthy circuits remain in service and that only a faulty circuit is switched off. This avoids danger and prevents inconvenience in the event of a fault. They have switched neutral build in as standard, live and neutral conductors do not have to be disconnected for insulation resistance testing. This saves time and money.

BI-Connect terminal

Bi-connect terminal enable supply from either cables/ Pin busbar in the cage or fork busbars in the slot; allowing full connection capacity

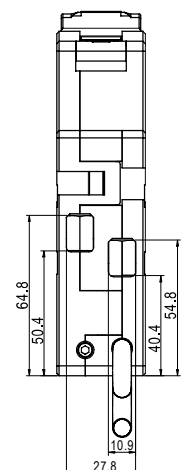
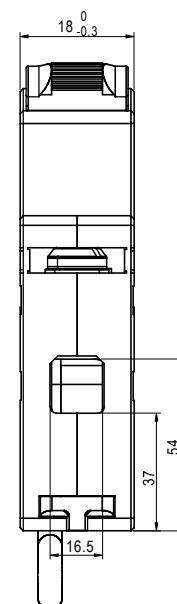
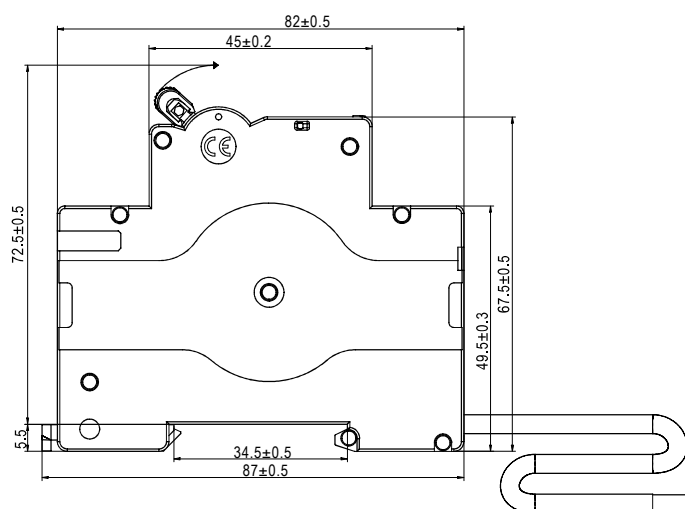
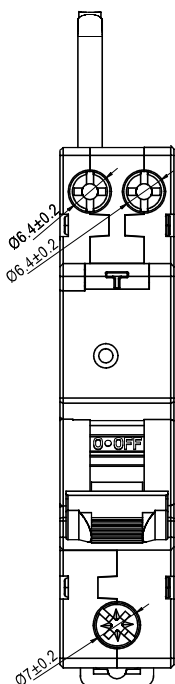
BI-Directional

WRB1 RCBO is designed for bi-directional use in PV and EV systems

This device marked with “in”, “out”, “load” ,and arrows indicating the direction of power flow where it is unacceptable to connect any power supply to the load and out terminals.



Part No	Description
WRB106B-030	A Type Single Module 1P+N 6Amps B Curve 30mA High Immunity RCBO
WRB110B-030	A Type Single Module 1P+N 10Amps B Curve 30mA High Immunity RCBO
WRB116B-030	A Type Single Module 1P+N 16Amps B Curve 30mA High Immunity RCBO
WRB120B-030	A Type Single Module 1P+N 20Amps B Curve 30mA High Immunity RCBO
WRB125B-030	A Type Single Module 1P+N 25Amps B Curve 30mA High Immunity RCBO
WRB132B-030	A Type Single Module 1P+N 32Amps B Curve 30mA High Immunity RCBO
WRB140B-030	A Type Single Module 1P+N 40Amps B Curve 30mA High Immunity RCBO
WRB106C-030	A Type Single Module 1P+N 6Amps C Curve 30mA High Immunity RCBO
WRB110C-030	A Type Single Module 1P+N 10Amps C Curve 30mA High Immunity RCBO
WRB116C-030	A Type Single Module 1P+N 16Amps C Curve 30mA High Immunity RCBO
WRB120C-030	A Type Single Module 1P+N 20Amps C Curve 30mA High Immunity RCBO
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WRB140C-030	A Type Single Module 1P+N 40Amps C Curve 30mA High Immunity RCBO





	Standard	IEC61009-1 , EN61009-1
Electrical features	Rated current I _n (A)	2,4, 6, 10, 16, 20, 25, 32, 40
	Type	Electronic
	Type (wave form of the earth leakage sensed)	A Type
	Poles	1P+N(Switched Live and Neutral)
	Rated voltage U _e (V)	230
	Rated sensitivity I _{Δn}	30mA
	Insulation voltage U _i (V)	500
	Rated frequency	50/60Hz
	Rated breaking capacity	6kA
	Rated residual making and breaking capacity I _{Δm} (A)	3000
	Rated impulse withstand voltage(1.2/50) U _{imp} (V)	4000
	Break time under I _{Δn} (s)	≤0.1
	Dielectric test voltage at ind. Freq. for 1 min (kV)	2
	Pollution degree	2
	Thermo-magnetic release characteristic	B, C
Mechanical features	Electrical life	2, 000
	Mechanical life	10, 000
	Contact position indicator	Yes
	Protection degree	IP20
	Reference temperature for setting of thermal element(°C)	30
	Ambient temperature (with daily average ≤35°C)	-5...+40
	Storage temperature (°C)	-25...+70
Installation	Terminal connection type	Cable/U-type busbar/Pin-type busbar
	Terminal size top for cable	10mm ²
	Terminal size bottom for cable	16mm ² / 18-8 AWG
	Terminal size top/bottom for Busbar	10mm ² / 18-8 AWG
	Tightening torque	2.5 N*m / 22 In-lbs.
	Mounting	On DIN rail EN 60715 (35mm)
	Connection	From bottom

Temperature derating

The maximum permissible current in a circuit breaker depends on the ambient temperature where the circuit breaker is placed. Ambient temperature is the temperature inside the enclosure or switchboard in which the circuit breakers are installed. The reference temperature is 30°C Ambient temperature: -5°C ~+40°C .

Temperature	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C
Temperature compensation coefficient of rated current	1. 20	1. 15	1. 10	1. 05	1. 00	0. 95	0. 90	0. 85