



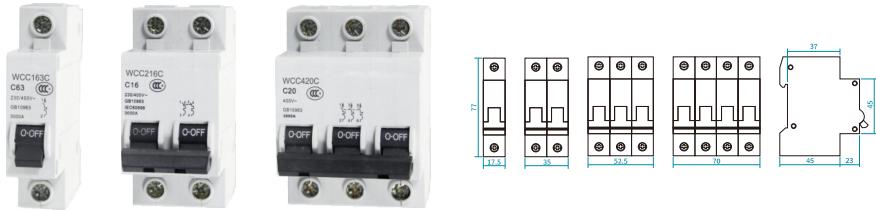
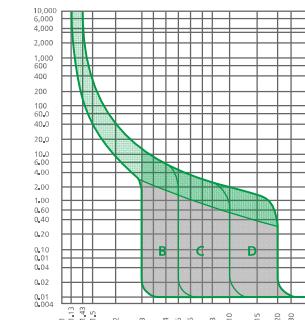
MCB RCD RCBO AND MAIN SWITCH



WCC Miniature Circuit Breakers

Design Features

- Rated current I_{n} (A) : 6,10,16,20,25,32,40,50,63
- Poles: 1P,2P,3P,4P
- Rated voltage U_{e} (AC): 230/400V
- Rated frequency: 50/60Hz
- Insulation voltage U_{i} : 500V
- Rated breaking capacity(A): 3kA
- Rated impulse withstand voltage(1.2/50) U_{imp} (V): 4000
- Dielectric test voltage at ind. Frq for 1 min (KV) : 2
- Ambient temperature (with daily average $\leq 35^{\circ}\text{C}$): -5~+40
- Thermo-magnetic release characteristic: B,C,D
- Electrical life: 8,000
- Contact position degree: IP20
- Storage temperature (°C): -25~+70
- Reference temperature for setting of thermal element (°C):30

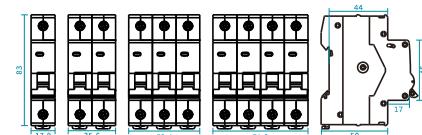
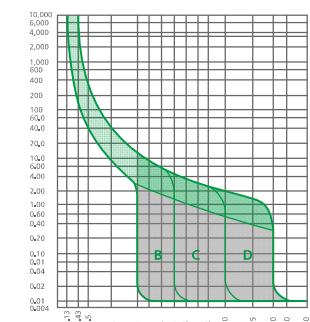


Part No	Description	Box Qty
WCC106B~163B	1Pole 6Amps~63Amps B Curve 3kA MCB	12
WCC206B~263B	2Pole 6Amps~63Amps B Curve 3kA MCB	6
WCC306B~363B	3Pole 6Amps~63Amps B Curve 3kA MCB	4
WCC406B~463B	4Pole 6Amps~63Amps B Curve 3kA MCB	3
WCC106C~163C	1Pole 6Amps~63Amps C Curve 3kA MCB	12
WCC206C~263C	2Pole 6Amps~63Amps C Curve 3kA MCB	6
WCC306C~363C	3Pole 6Amps~63Amps C Curve 3kA MCB	4
WCC406C~463C	4Pole 6Amps~63Amps C Curve 3kA MCB	3
WCC106C~163D	1Pole 6Amps~63Amps D Curve 3kA MCB	12
WCC206C~263D	2Pole 6Amps~63Amps D Curve 3kA MCB	6
WCC306C~363D	3Pole 6Amps~63Amps D Curve 3kA MCB	4
WCC406C~463D	4Pole 6Amps~63Amps D Curve 3kA MCB	3

WCA Miniature Circuit Breakers

Design Features

- Rated current I_{n} (A) : 6,10,16,20,25,32,40,50,63
- Poles: 1P,2P,3P,4P
- Rated voltage U_{e} (AC): 230/400V
- Rated frequency: 50/60Hz
- Insulation voltage U_{i} : 500V
- Rated breaking capacity(A): 6kA
- Rated impulse withstand voltage(1.2/50) U_{imp} (V): 4000
- Dielectric test voltage at ind. Frq for 1 min (KV) : 2
- Ambient temperature(with daily average $\leq 35^{\circ}\text{C}$):-5~+40)
- Thermo-magnetic release characteristic: B,C,D
- Electrical life: 8,000
- Contact position degree: IP20
- Storage temperature($^{\circ}\text{C}$):-25~+70)
- Reference temperature for setting of thermal element ($^{\circ}\text{C}$):30

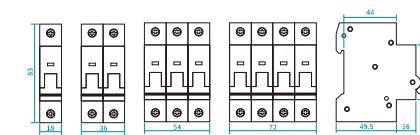
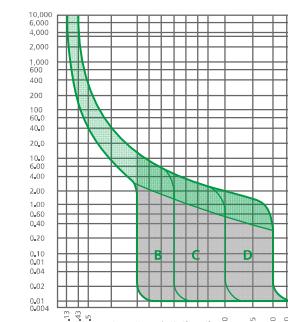


Part No	Description	Box Qty
WCA106B~163B	1Pole 6Amps~63Amps B Curve 6kA MCB	12
WCA206B~263B	2Pole 6Amps~63Amps B Curve 6kA MCB	6
WCA306B~363B	3Pole 6Amps~63Amps B Curve 6kA MCB	4
WCA406B~463B	4Pole 6Amps~63Amps B Curve 6kA MCB	3
WCA106C~163C	1Pole 6Amps~63Amps C Curve 6kA MCB	12
WCA206C~263C	2Pole 6Amps~63Amps C Curve 6kA MCB	6
WCA306C~363C	3Pole 6Amps~63Amps C Curve 6kA MCB	4
WCA406C~463C	4Pole 6Amps~63Amps C Curve 6kA MCB	3
WCA106C~163D	1Pole 6Amps~63Amps D Curve 6kA MCB	12
WCA206C~263D	2Pole 6Amps~63Amps D Curve 6kA MCB	6
WCA306C~363D	3Pole 6Amps~63Amps D Curve 6kA MCB	4
WCA406C~463D	4Pole 6Amps~63Amps D Curve 6kA MCB	3

WCB Miniature Circuit Breakers

Design Features

- Rated current I_{n} (A) : 6,10,16,20,25,32,40,50,63
- Poles: 1P,2P,3P
- Rated voltage U_{e} (AC): 230/400V
- Rated frequency: 50/60Hz
- Insulation voltage U_{i} : 500V
- Rated breaking capacity(A): 10kA
- Rated impulse withstand voltage(1.2/50) U_{imp} (V): 4000
- Dielectric test voltage at ind. Frq for 1 min (KV) : 2
- Thermo-magnetic release characteristic: B,C,D
- Electrical life: 8,000
- Mechanical life: 20,000
- Contact position degree: IP20
- Reference temperature for setting of thermal element ($^{\circ}\text{C}$):30
- Ambient temperature(with daily average $\leq 35^{\circ}\text{C}$):-5~+40)
- Storage temperature($^{\circ}\text{C}$):-25~+70)

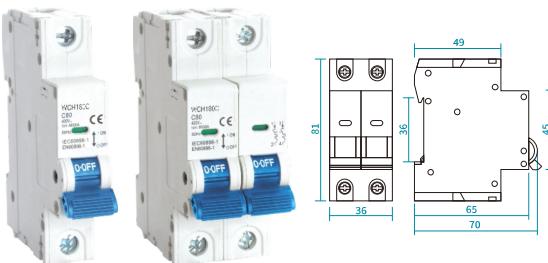


Part No	Description	Box Qty
WCB106B~163B	1Pole 6Amps~63Amps B Curve 10kA MCB	12
WCB206B~263B	2Pole 6Amps~63Amps B Curve 10kA MCB	6
WCB306B~363B	3Pole 6Amps~63Amps B Curve 10kA MCB	4
WCB406B~463B	4Pole 6Amps~63Amps B Curve 10kA MCB	3
WCB106C~163C	1Pole 6Amps~63Amps C Curve 10kA MCB	12
WCB206C~263C	2Pole 6Amps~63Amps C Curve 10kA MCB	6
WCB306C~363C	3Pole 6Amps~63Amps C Curve 10kA MCB	4
WCB406C~463C	4Pole 6Amps~63Amps C Curve 10kA MCB	3
WCB106D~163D	1Pole 6Amps~63Amps D Curve 10kA MCB	12
WCB206D~263D	2Pole 6Amps~63Amps D Curve 10kA MCB	6
WCB306D~363D	3Pole 6Amps~63Amps D Curve 10kA MCB	4
WCB406D~463D	4Pole 6Amps~63Amps D Curve 10kA MCB	3

WCH Miniature Circuit Breakers

Design Features

- Rated current I_n (A): 80, 100
- Rated voltage $U_{e(A)}$: 240/415V
- Insulation voltage U_i : 500V
- Thermo-magnetic release characteristic: B,C,D
- Mechanical life: 20,000
- Ambient temperature (with daily average $\leq 35^{\circ}\text{C}$): -5~+40
- Storage temperature (°C): -25~+70
- Poles: 1P,2P,3P
- Rated frequency: 50/60Hz
- Rated breaking capacity(A): 6 kA
- Electrical life: 8,000
- Contact position degree: IP20

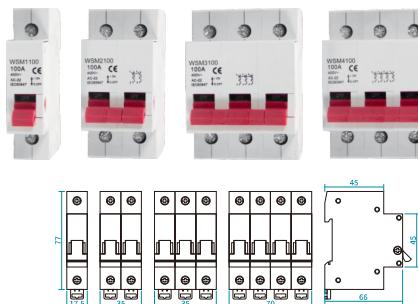


Part No	Description	Box Qty
WCH180C	1 Pole 80Amps C Curve MCB	12
WCH1100C	1 Pole 100Amps C Curve MCB	12
WCH280C	2 Pole 80Amps C Curve MCB	6
WCH2100C	2 Pole 100Amps C Curve MCB	6
WCH380C	3 Pole 80Amps C Curve MCB	4
WCH3100C	3 Pole 100Amps C Curve MCB	4

WSM-100 Main Switch

Design Features

- 100A Rated Current
- 230/400V Rated Voltage
- 10,000 Cycles Electrical Life
- 10,000 Operations Mechanical Life
- BS EN60947-3 Compliant

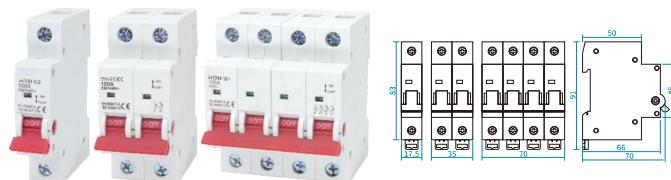


Part No	Description	Box Qty
WSM1100	1 Pole 100A	
WSM2100	2 Pole 100A	
WSM3100	3 Pole 100A	
WSM4100	4 Pole 100A	

WSM-125 Main Switch

Design Features

- 100/125A Rated Current
- 230/400V Rated Voltage
- 10,000 Cycles Electrical Life
- 10,000 Operations Mechanical Life
- BS EN60947-3 Compliant

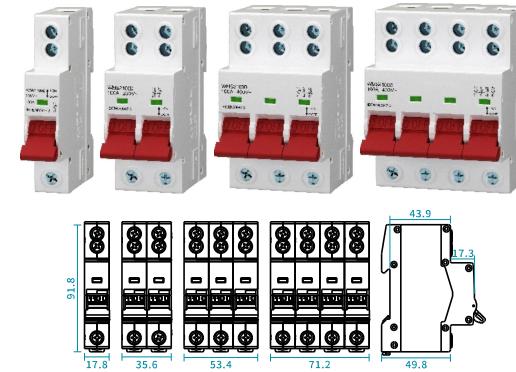


Part No	Description	Box Qty
WSM1100	1 Pole 100A	
WSM2100	2 Pole 100A	
WSM3100	3 Pole 100A	
WSM4100	4 Pole 100A	
WSM1125	1 Pole 125A	
WSM2125	2 Pole 125A	
WSM3125	3 Pole 125A	
WSM4125	4 Pole 125A	

WSM-125D Main Switch

Design Features

- 100/125A Rated Current
- 230/400V Rated Voltage
- BS IEC/EN 60947-3 Compliant
- Double Wiring Terminal

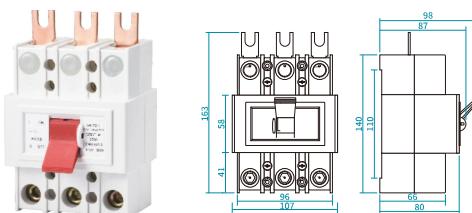


Part No	Description	Box Qty
WSM1100D	1 Pole 100A Double Wiring Terminal	12
WSM2100D	2 Pole 100A Double Wiring Terminal	6
WSM3100D	3 Pole 100A Double Wiring Terminal	6
WSM4100D	4 Pole 100A Double Wiring Terminal	3
WSM1125D	1 Pole 125A Double Wiring Terminal	12
WSM2125D	2 Pole 125A Double Wiring Terminal	6
WSM3125D	3 Pole 125A Double Wiring Terminal	3
WSM4125D	4 Pole 125A Double Wiring Terminal	1

WSM-250 Main Switch

Design Features

- 100/125A Rated Current
- 230/400V Rated Voltage
- 10,000 Cycles Electrical Life
- 10,000 Operations Mechanical Life
- BS EN60947-3 Compliant



Part No	Description	Box Qty
WSM3250	3 Pole 250A	

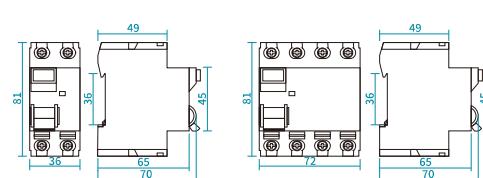
WRD Type A/AC Residual Current Circuit Breaker

Design Features

LAIWO brand Type A RCDS are designed specifically for individual EV chargers, where the model and make of the vehicle being charged is unknown. They can detect & respond as for type AC, plus pulsating DC components.

- Pole No.: 2, 4
- Rated current(A): 25 40 63 80 100A
- Rated voltage: 240/415V AC
- Rated frequency: 50/60Hz
- Rated residual operating current $I_{\Delta}(mA): 30, 100$
- Rated residual non operating current: $0.5I_{\Delta}$
- Rated conditional breaking current $I_{\text{Cn}}: 6000A$
- Tripping duration Instantaneous tripping $\leq 0.1s$
- Residual tripping current range: $0.5I_{\Delta} \sim I_{\Delta}$
- Electro-mechanical endurance: 4000 cycles
- Connection capacity Rigid conductor up to 25mm²
- Connection terminal Screw terminal
- Pillar terminal with clamp
- Fastening torque 2.0 Nm
- Installation: On symmetrical DIN rail 35mm
- Panel mounting

Part No	Description	Box Qty
WRD225-2100/030	2Pole 25Amps~100Amps 30mA high immunity RCD	60
WRD225-2100/100	2Pole 25Amps~100Amps 100mA high immunity RCD	60
WRD225-2100/300	2Pole 25Amps~100Amps 300mA high immunity RCD	60
WRD425-4100/030	4Pole 25Amps~100Amps 30mA high immunity RCD	30
WRD425-4100/100	4Pole 25Amps~100Amps 100mA high immunity RCD	30
WRD425-4100/300	4Pole 25Amps~100Amps 300mA high immunity RCD	30

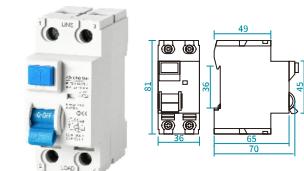


WRT Type A/AC Residual Current Circuit Breaker (Time Delay)

Design Features

Provides protection against earth fault/leakage current and function of isolation; High breaking current withstand capacity; Applicable to terminal and pin type busbar connection; Equipped with finger protected connection terminals; Flame resistant plastic parts endures abnormal heating and strong impact; Automatically disconnect the circuit when earth fault/leakage current occurs and exceeds the rated sensitivity; Independent of power supply and line voltage, and free from external interference, voltage fluctuation.

- Pole No.: 2
- Rated current(A): 80 100A
- Rated voltage: 240/415V AC
- Rated frequency: 50/60Hz
- Rated residual operating current $I_{\Delta}(mA): 30, 100$
- Rated residual non operating current: $0.5I_{\Delta}$
- Rated conditional breaking current $I_{\text{Cn}}: 6000A$
- Tripping duration Instantaneous tripping $\leq 0.1s$
- Residual tripping current range: $0.5I_{\Delta} \sim I_{\Delta}$
- Electro-mechanical endurance: 4000 cycles
- Connection capacity Rigid conductor up to 35mm²
- Connection terminal Screw terminal
- Pillar terminal with clamp
- Fastening torque 2.0 Nm
- Installation: On symmetrical DIN rail 35mm
- Panel mounting



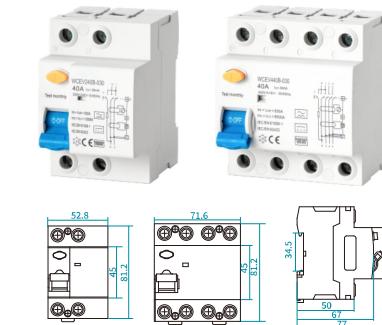
Part No	Description	Box Qty
WRT280-100	2Pole 80Amps 100mA Time Delay RCD	60
WRT2100-100	2Pole 100Amps 100mA Time Delay RCD	60

WCEV Type B Residual Current Circuit Breaker

Design Features

Smooth DC residual currents can occur in industrial, commercial and residential applications which contain photovoltaic systems, frequency converters or electronic devices. Our type B RCCB can detect DC fault currents, which can occur in frequency inverter controls, photovoltaic systems as well as through electronics used in households. They can detect residual current faults comprising of pure AC up to 1000 hertz, rectified AC, pure DC and pulsating DC, and increases safety considerably. They comply with IEC/EN 61008-1 and IEC/EN 62423.

- Rated Current: 25A 40A, 63A
- Rated tripping current I_{Δ} : 30mA/100mA/300mA
- Sensitivity: AC, pulsating and smooth DC residual currents
- Rated voltage U_{n} : 230/400 V AC
- Rated frequency: 50Hz
- Rated insulation voltage U_{i} : 440V
- Rated impulse withstand voltage U_{imp} : 4 kV (1.2/50μs)
- Rated short circuit capacity I_{Cn} : 10kA
- Peak withstand current: 3kA
- Endurance electrical: 4,000 operating cycles
- Endurance mechanical: 20,000 operating cycles
- Operation temperature: -5°C to +40°C
- Degree of protection: IP20
- Terminal capacity: 1.5 - 35 mm²
- Rated: 6mA Smooth DC



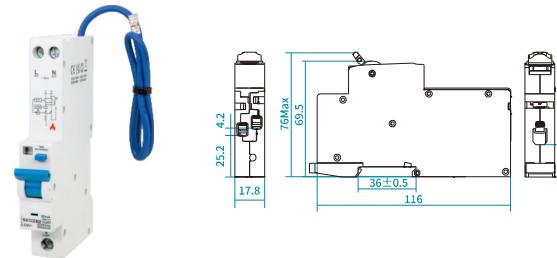
Part No	Description	Box Qty
WCEV225B-030	2 Pole 25Amps 30mA Type B RCCB (3 module)	1
WCEV240B-030	2 Pole 40Amps 30mA Type B RCCB (3 module)	1
WCEV263B-030	2 Pole 63Amps 30mA Type B RCCB (3 module)	1
WCEV425B-030	4 Pole 25Amps 30mA Type B RCCB (4 module)	1
WCEV440B-030	4 Pole 40Amps 30mA Type B RCCB (4 module)	1
WCEV463B-030	4 Pole 63Amps 30mA Type B RCCB (4 module)	1

WAFD Type A/AC Arc Fault Detection Device With RCBO

Design Features

The WAFD series arc fault protector combines arc fault detection with RCBO protection. The WAFD series arc fault protector has the functions of short circuit protection, overload protection, leakage protection and arc fault protection. WAFD series arc fault protection devices are designed for use on circuits rated up to 32A and below to protect against arc faults, overloads, short circuits and leakage. When the WAFD series arc fault protection devices detect the presence of arc faults in the line, they will automatically trip and isolate the circuit.

- Rated working voltage (Ue): AC230V.
- Rated operating frequency: $\pm 50\text{Hz}$ 2%.
- Rated insulation voltage (Ui): 400V.
- Rated impulse withstand voltage (Ui_{imp}): 4kV.
- Rated current (In): 6A, 10A, 16A, 20A, 25A, 32A, 40A.
- Number of N poles: 1P+N.
- Protection Curve B.
- Operating short-circuit capacity (Ics): 6kA.
- Rated residual operating current Δn : 30mA.
- RCD Type: AC.
- Insulation material group: IIIa.
- Ambient Temperature range: -5~40°C.
- Storage Temperature range: -25°C ~ +55°C.



Type A mini RCBO Single Module

Part No	Description	Box Qty
WAFD6B	6A Bcurve Arc Detection Device With RCBO	40
WAFD10B	10A Bcurve Arc Detection Device With RCBO	40
WAFD16B	16A Bcurve Arc Detection Device With RCBO	40
WAFD20B	20A Bcurve Arc Detection Device With RCBO	40
WAFD25B	25A Bcurve Arc Detection Device With RCBO	40
WAFD32B	32A Bcurve Arc Detection Device With RCBO	40
WAFD40B	40A Bcurve Arc Detection Device With RCBO	40

03 SURGE PROTECTOR

