



### Application

The XID-63 residual current circuit breakers provide:  
Protection of persons against electric shock by direct contact ( $\geq 30$  mA),  
Protection of persons against electric shock by indirect contact ( $\geq 100$  mA).  
Protection of installations against the risk of fire (300 mA or 500 mA).

### Main Technical Parameter

Type	
Product or component type	Residual current
Rated Current In(A)	10A,16A,20A,25A,32A,40A,50A,63A
Poles description	1P+N/2P/4P
Number of protected poles	2/4
Network type	AC,A
Rated residual operating current I n(mA)	10A,30,100,300,500
Rated frequency	50/60Hz
Rated impulse withstand voltage (Uiimp)	6kV
Retard conditional residual short-circuit current IΔc	6kA

Complementary	
[Ue] rated operational voltage	110 V, 230/240V AC
Control type	Toggle
Local signalling	ON/OFF indication
Mounting mode	Clip-on
Mounting support	DIN rail 35mm
Colour	Grey
Electro-mechanical endurance	$\geq 20,000$ cycles

Environment	
Standards	IEC 61009-1 , EC 61008-1,AS/NZS 61008-1
IP degree of protection	IP40 for modular enclosure conforming to IEC 60529
Operating altitude	IP20 conforming to IEC 60529
Ambient air temperature for operation	2000 m
Ambient air temperature for storage	-5C to +60°C-40C to +85°C

# XID-63

## Residual Current Circuit Breaker



### Catalogue numbers

XID-63 [RCCB]							width in 9mm module	
Type Product	AC							
<b>Auxiliaries</b>								
2P	Sensitivity	10mA	30mA	100mA	300mA	500mA		
	Rating	16A	TORE1-63/2/16/001					
		25A	TORE1-63/ 2/25/001	TORE1-63/ 2/25/003	TORE1-63/ 2/40/001	TORE1-63/ 2/40/003	TORE1-63/ 2/40/005	
		40A		TORE1-63/ 2/40/003	TORE1-63/ 2/63/001	TORE1-63/ 2/63/003	TORE1-63/ 2/63/005	
		63A		TORE1-63/ 2/63/003	TORE1-63/ 2/80/003	TORE1-63/ 2/80/003	TORE1-63/ 2/80/005	
		80A		TORE1-63/ 2/80/003	TORE1-63/ 2/80/001	TORE1-63/ 2/80/003	TORE1-63/ 2/80/005	
		100A		TORE1-63/ 2/100/003	TORE1-63/ 2/100/001	TORE1-63/ 2/100/003	TORE1-63/ 2/100/005	
Voltage rating(Ue)	2P	110-240V						
Operating frequency		50/60HZ						

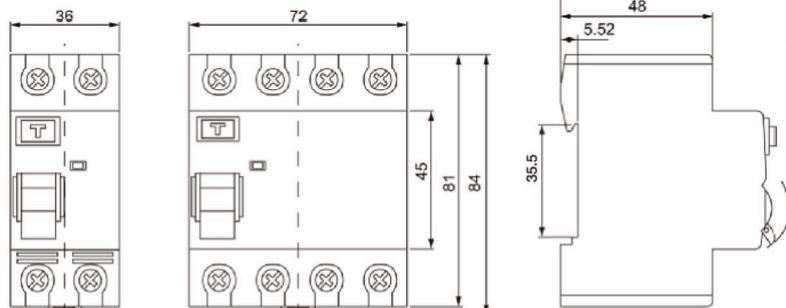
### Catalogue numbers

XID-63 [RCCB]							width in 9mm module	
Type Product	A							
<b>Auxiliaries</b>								
2P	Sensitivity	10mA	30mA	100mA	300mA	500mA		
	Rating	16A	TORE1-63/ 2/16/001					
		25A	TORE1-63/ 2/25/001	TORE1-63/ 2/25/003	TORE1-63/ 2/40/001	TORE1-63/ 2/40/003	TORE1-63/ 2/40/005	
		40A		TORE1-63/ 2/40/003	TORE1-63/ 2/63/001	TORE1-63/ 2/63/003	TORE1-63/ 2/63/005	
		63A		TORE1-63/ 2/63/003	TORE1-63/ 2/80/003	TORE1-63/ 2/80/003	TORE1-63/ 2/80/005	
		100A		TORE1-63/ 2/100/003	TORE1-63/ 2/100/001	TORE1-63/ 2/100/003	TORE1-63/ 2/100/005	
Voltage rating(Ue)	2P	110-240V						
Operating frequency		50/60HZ						

### Connection

Rating	Tightening torque	Copper cables	
		Rigid	Flexible or ferrule
1 to 25 A	2N.m	1 to 25 mm <sup>2</sup>	1 to 16 mm <sup>2</sup>
32 to 25 A	2.5N.m	1 to 35 mm <sup>2</sup>	1 to 25 mm <sup>2</sup>

### Dimensions (mm)



# XID-63

## Residual Current Circuit Breaker



### Catalogue numbers

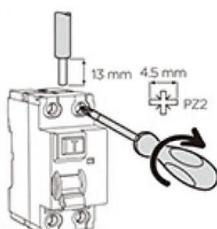
XID-63 [RCCB]								width in 9mm module	
Type Product	AC								
<b>Auxiliaries</b>									
2P	Sensitivity	10mA	30mA	100mA	300mA	500mA			
	Rating	16A	TORE1-63/2/16/001						
		25A	TORE1-63/ 2/25/001	TORE1-63/ 2/25/003	TORE1-63/ 2/40/003	TORE1-63/ 2/40/01	TORE1-63/ 2/40/03	TORE1-63/ 2/40/05	
		40A		TORE1-63/ 2/40/003	TORE1-63/ 2/63/003	TORE1-63/ 2/63/01	TORE1-63/ 2/63/03	TORE1-63/ 2/63/05	
		63A		TORE1-63/ 2/63/003	TORE1-63/ 2/80/003	TORE1-63/ 2/80/01	TORE1-63/ 2/80/03	TORE1-63/ 2/80/05	
		80A		TORE1-63/ 2/80/003	TORE1-63/ 2/100/003	TORE1-63/ 2/100/01	TORE1-63/ 2/100/03	TORE1-63/ 2/100/05	
		100A							
Voltage rating(Ue)	2P	110-240V							
Operating frequency		50/60HZ							

### Catalogue numbers

XID-63 [RCCB]								width in 9mm module	
Type Product	A								
<b>Auxiliaries</b>									
2P	Sensitivity	10mA	30mA	100mA	300mA	500mA			
	Rating	16A	TORE1-63/ 2/16/001						
		25A	TORE1-63/ 2/25/001	TORE1-63/ 2/25/003	TORE1-63/ 2/40/003	TORE1-63/ 2/40/01	TORE1-63/ 2/40/03	TORE1-63/ 2/40/05	
		40A		TORE1-63/ 2/40/003	TORE1-63/ 2/63/003	TORE1-63/ 2/63/01	TORE1-63/ 2/63/03	TORE1-63/ 2/63/05	
		63A		TORE1-63/ 2/63/003	TORE1-63/ 2/100/003	TORE1-63/ 2/100/01	TORE1-63/ 2/100/03	TORE1-63/ 2/100/05	
		100A							
Voltage rating(Ue)	2P	110-240V							
Operating frequency		50/60HZ							

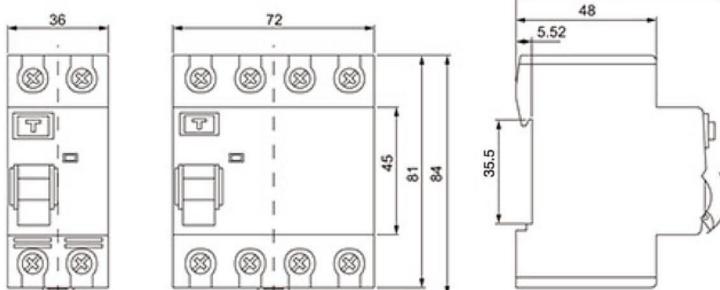
### Connection

Rating	Tightening torque	Copper cables	
		Rigid	Flexible or ferrule



1 to 25 A	2N.m	1 to 25 mm²	1 to 16 mm²
32 to 25 A	2.5N.m	1 to 35 mm²	1 to 25 mm²

### Dimensions (mm)



# DZ47LE-63

## RCBO Miniature Earth Leakage MCB Circuit Breaker

### Application



The DZ63LE-32 leakage protective breaker is designed for use in single-phase residential AC circuits with a rated voltage of 230V and a frequency of 50/60Hz. Its primary function is to protect users from electrical shocks and prevent damage to electrical circuits caused by overloads and short circuits. This compact device boasts a high breaking capacity and ensures simultaneous disconnection of both the neutral and live wires. It also offers protection against electrical shocks caused by reverse wiring. The DZ63LE-32 is in full compliance with the IEC61009 and GB16917 standards.

Number of Poles 1P+N

Rated Current(A) 6,10,16,20,25,32,40A,63A

Rated Residual Operating Current (mA) 30

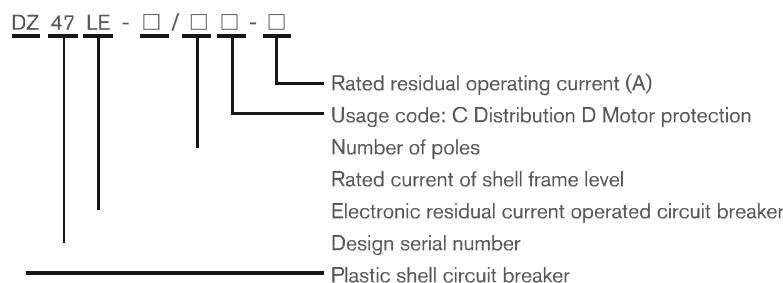
Rated Residual Non-operating Current 15

Rated Voltage(V) 400

Residual Current Off-time ≤ 0.1s

Short Circuit Capacity(Icu) 4500A

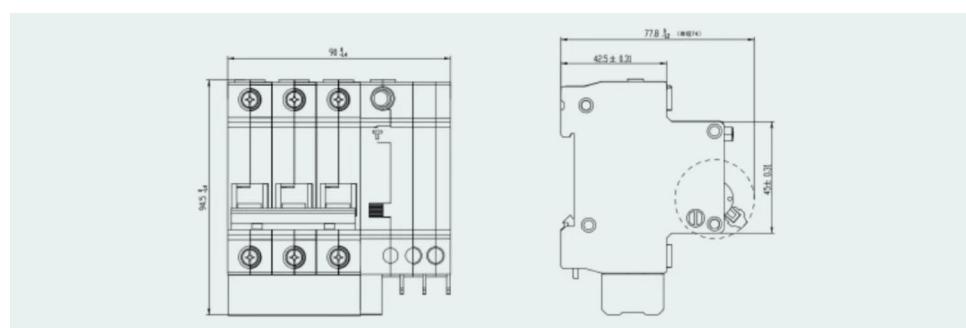
### Model and its meaning



### Main technical parameters

Rated current In(A)	Number of poles (P)	Rated voltage In(V)	Rated short-circuit breaking capacity			Rated leakage current Action current IΔn(mA)	Tripping type
			Voltage (V)	Breaking capacity Icu	COSΦ		
40	1+N						
	2	6、10、	230				
	3+N	16、20、					
	3	25、32	400	6KA/4.5KA	0.8	30	C D
63	1+N						
	2	40	230				
	3+N	50					
	3	63	400	4.5KA	0.8	30	C D
	4						

### Appearance and installation dimensions



# XL63-40-B

## Leakage Circuit Breaker



### Scope of application

XL63-40-B residual current operated circuit breaker is suitable for AC 50Hz, rated voltage 240V for two poles, 415V for four poles, rated current up to 63A, used to detect AC leakage, pulsating DC leakage, smooth DC leakage, compound wave leakage and high frequency leakage current up to 1kHz. When people come to electric shock or the leakage current of the circuit exceeds the specified value, it automatically cuts off the faulty power supply in a very short time to protect the safety of people and electrical equipment. It can also be used for infrequent switching operations in normal condition.

Compliant with: IEC62423, IEC61008-1, GB22794, GB16916.1



### Technical Parameter

#### Electrical Characteristics

Classification	Application		Poles	Rated current (In)	Rated sensitivity ( $I_{\Delta n}$ )	Rated Voltage (Ue)
B	Electric car charging station, charging pile		1P+N,3P+N	25、40、63、80A	30、100、300mA	1P+N:240V~ 3P+N:415V~
Rated Insulation voltage (Ui)	Rated frequency	Rated impulse withstand voltage (Uimp)	Rated short-circuit current $I_{nc}$ =rated residual short circuit current $\Delta I_m$	Rated residual connecting and breaking capacity $I_{nc}=I_{\Delta c}$	Rated residual non-operating current	
500V	50/60Hz	4kV	500A (63A below) 10In (63A and above)	6kA	0.5I $\Delta n$	

#### Mechanical properties

Mechanical life /electrical life	Protection class		Working ambient temperature	Storage temperature
	Installed directly	Installed in the distribution box		
4000	Ip20	Ip40	-25°C+60°C	-25°C+70°C

#### Other characteristics

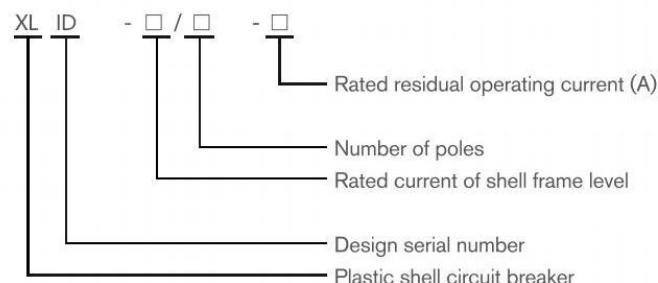
Wiring size	Contact status Indication	Fault Indication	Circuit identification
Copper/ hard wire			
1-35mm <sup>2</sup>	—	■	—

## Application



XLID Series Residual Current operated Circuit-Breakers ( RCCBs ) of the AC type adapted to domestic, public, and industrial fields are used in the distribution systems TT, TN, and IT, in accordance with the rules and regulations in force. The RCCBs together with the earthing system are therefore used to protect people in case of indirect contacts. These devices characterized by a rated residual differential current of 30mA also assure an additional protection in case of direct contacts. In addition to the function of protection against direct or indirect contacts, the residual current operated circuit breakers ( RCCBs ) incorporate a protective function against the danger of fire in the event of insulation breakdown.

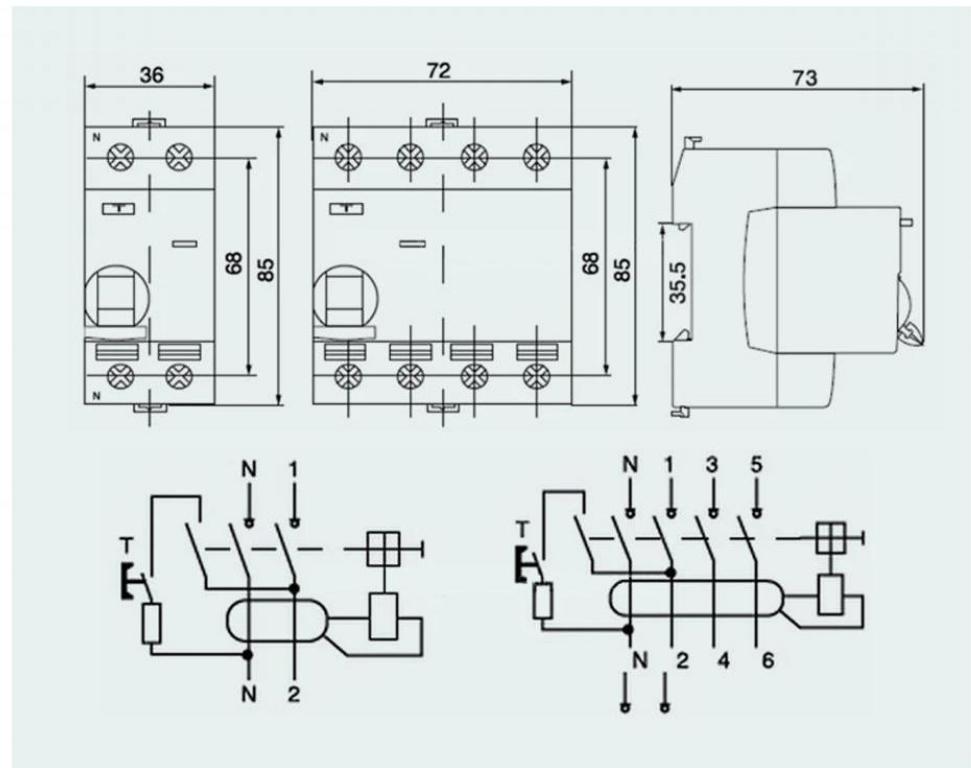
## Model and its meaning



## Main technical parameters

Rated Current I <sub>nm</sub> (A)	Poles	Rated residual operating current I <sub>n</sub>	Rated residual non-operation Current I <sub>no</sub>	Rated Voltage U <sub>n</sub>	Residual operating current scope	Residual current off-time	Type	Ultimate short-circuit breaking capacity I <sub>rc</sub>	Endurance	Terminal protection
25A, 32A 40A, 63A 80A, 100A	2P	10,30, 100,300, 500mA	0.5In	230/240V	0.5In~In	≤0.3s	A, AC	10000A	≥24000	IP20
	4P			400/415V						

## Appearance and installation dimensions





### Application

The XLM-2P/XLM-4P residual current circuit breakers provide:  
 Protection of persons against electric shock by direct contact ( $\leq 30 \text{ mA}$ ),  
 Protection of persons against electric shock by indirect contact ( $\leq 100 \text{ mA}$ ).  
 Protection of installations against the risk of fire (300 mA or 500 mA).

### Main Technical Parameter

Type	
Product or component type	Residual current
Rated Current In(A)	10A,16A,20A,25A,32A,40A,50A,63A
Poles description	1P+N/2P/4P
Number of protected poles	2/4
Network type	AC,A
Rated residual operating current I <sub>n</sub> (mA)	10A,30,100,300,500
Rated frequency	50/60Hz
Rated aimpulse withstand voltage (Uiimp)	6kV
Retard conditional residual short-circuit current I <sub>Δc</sub>	6kA

Complementary	
[Ue] rated operational voltage	110 V, 230/240V AC
Control type	Toggle
Local signalling	on/OFF indication
Mounting mode	Clip-on
Mounting support	DIN rail 35mm
Colour	Grey
Electro-mechanical endurance	$\geq 20,000$ cycles

Environment	
Standards	IEC 61009-1 , EC 61008-1,AS/NZS 61008-1
IP degree of protection	IP40 for modular enclosure conforming to IEC 60529
Operating altitude	IP20 conforming to IEC 60529
Ambient air temperature for operation	2000 m
Ambient air temperature for storage	-5C to +60°C-40C to +85°C



## Application



The XID-63 residual current circuit breakers provide:

- Protection of persons against electric shock by direct contact ( $y$  30 mA),
- Protection of persons against electric shock by indirect contact ( $u$  100 mA).
- Protection of installations against the risk of fire (300 mA or 500 mA).

## Specifications

Type	Standard	IEC/EN 61008-1
Electrical features	Leakage type	Electromagnetic type
	Rated current In	A 16, 25, 32, 40, 50, 63
	Type (wave form of the earth leakage sensed)	A, AC
	Poles	2, 4
	Rated voltage Ue	V 230/400
	Insulation voltage Ui	V 500
	Rated frequency	Hz 50/60
	Rated breaking capacity $I_{nc}=I_{ac}$	A 6000
	Rated impulse withstand voltage (1.2/50) Uimp	V 6000
	Dielectric test voltage at ind. Freq. for 1min	kV 2.5
Mechanical features	Rated sensitivity $I_{\Delta n}$	A 0.03, 0.1, 0.3
	Rated residual making and breaking capacity $I_{\Delta m}$	A 500( $In \leq 40A$ ); 630( $In = 50A/63A$ )
	Pollution degree	2
	Electrical life	t 4000
	Mechanical life	t 8000
Installation	Protection degree	IP20
	Storage temperature	°C -25~+70
	Ambient temperature (with daily average $\leq 35^{\circ}\text{C}$ )	°C -5~+40
	Terminal connection type	Cable/Pin-type busbar/U-type busbar
	Terminal size top / bottom for cable	mm <sup>2</sup> 25 AWG 18-3
	Terminal size top / bottom for busbar	mm <sup>2</sup> 10 AWG 18-8
	Tightening torque	N*m 2.5 In-lbs 22
	Mounting	On DIN rail EN 60715(35.5mm)by means of fast clip device
	Connection	From top and bottom