

BF60-63

RESIDUAL CURRENT CIRCUIT BREAKER

1. APPLICATION

BF60-63 series residual current circuit breakers are applied to the lines with AC 50/60Hz, rated voltage of 230V(1P+N) or 400V(3P+N), and rated current of 63A. In case of electric shock or electric leakage current exceeds the specified value, the residual current circuit breaker can switch off the fault circuit in a very short time, protecting the safety of person and electric equipment. Can be used in the industrial, commercial, high-rise buildings, civil residences and other places.



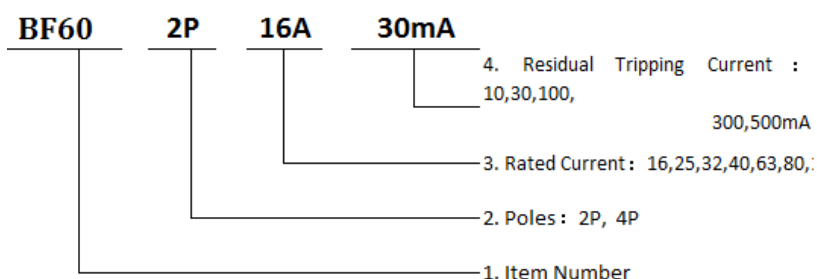
2. TECHNICAL PARAMETER

Technical Parameter	
Spec Parameter	
Rated Operating voltage(Ue)	230V(1P+N)/400V(3P+N)
Rated Current (In)	16,25,32,40,50,63
Poles	1P+N,3P+N
Rated Frequency	50/60Hz
Rated Insulation voltage(Ui)	500V
Rated residual current (IΔn)	10,30,100,300mA
Rated residual switching on and breaking capacity(IΔm)	600A
Rated residual short-circuit current limit(IΔc)	6000A
Rated short-circuit current limit(Inc)	6000A
Rated switching on and breaking capacity(I _m)	600A
Maximun breaking time(IΔm)	0.3s
Rated impulse withstand voltage(U _{imp})	6kV
Mechanical life(times)	8000
Electrical life(times)	2000
Standard Certificate	
Comply with Standard	IEC 61008
	GB 16916
Certificate	CCC, CE, CB

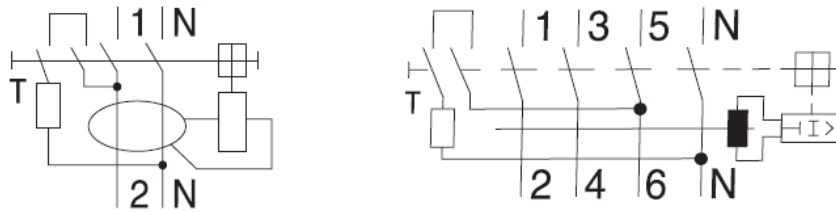
Working Environment	
Humidity	40℃ humidity not exceed 50% 20℃ humidity not exceed 90% (Condensation on the product due to changes in humidity has been considered)
Working Temperature	-5℃~+40℃ and its average over aperiod of 24h does not exceed
Magnetic field	No more than 5 times the geomagnetic field
Pollution level	2
Altitude (m)	2000
Mounting and Wiring	
Shock and vibration	Should be installed in the case of no obvious impact vibration
Installation category	III
Terminal connection types	type cable,type U bus, TH 35mm Din-rail
Wiring terminal connection conductor	1.5~25 mm ²
Wiring terminal copper size	25 mm ²
Tightening torque	2.5N*m
Installation mode	UsingTH35-7.5 profile installation, the title of installation face and vertical face is not greater than5°
Wiring incoming mode	upper and lower incoming is possible for ELM type, only upper incoming for ELE type

**Note: When the conditions of use of the product are harsher than the above conditions, it should be derated, and the specific matters should be negotiated with the manufacturer.

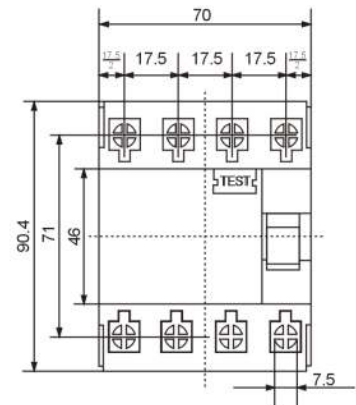
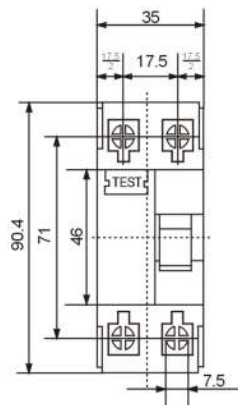
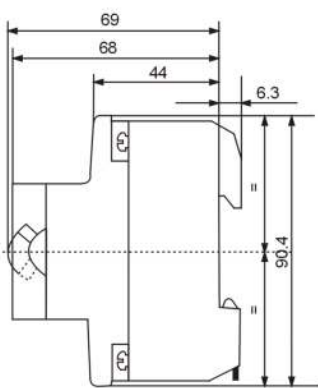
3. MODEL NUMBER



4. OPERATION PRINCIPLE FIG.





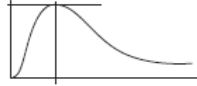
5. DIMENSION DIAGRAMS.

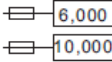



6. Tripping Current Range

Type	Tripping current I_{Δ}/A		
AC	$0.5I_{\Delta n} < I_{\Delta} < I_{\Delta n}$		
A	Lagging Angle	$I_{\Delta n} > 0.01A$	$I_{\Delta n} \leq 0.01A$
	0°	$0.35I_{\Delta n} \leq I_{\Delta} \leq 1.4I_{\Delta n}$	$0.35I_{\Delta n} \leq I_{\Delta} \leq 2I_{\Delta n}$
	90°	$0.25I_{\Delta n} \leq I_{\Delta} \leq 1.4I_{\Delta n}$	$0.25I_{\Delta n} \leq I_{\Delta} \leq 2I_{\Delta n}$
	135°	$0.11I_{\Delta n} \leq I_{\Delta} \leq 1.4I_{\Delta n}$	$0.11I_{\Delta n} \leq I_{\Delta} \leq 2I_{\Delta n}$

Rated current I_n	Rated Voltage U_n	Rated fault frequency f_n
<p>Maximum permissible current value determined by heat, breaking capacity and terminals an RCCB can carry.</p> <p>Preferred values: 16, 25, 40, 63, 80, 100, 125, 160A.</p>	<p>The rated operational voltage of an RCCB is the voltage value, determined by breaking capacity, clearance and creepage distance and test circuit.</p> <p>Preferred values:230/400V.</p>	<p>The frequency which the breaking characteristics of an RCCB are designed.</p> <p>Preferred values: 10-60Hz</p>

Alternative Current Sensitive	Pulsating direct current sensitive	Surge current proof
 <p>They react to AC current which, whether suddenly applied or slowly arising.</p>	 <p>They react to AC and pulsating DC fault current which reach 0 or almost 0 within one time period of the mains frequency.</p>	 <p>RCCB' s surge capacity. Not tripping at standardized 8/20 μs surge-current waves acc.to VDE 0432 Part 2 with surge current values of up to 250A.</p>

Rated fault current $I_{\Delta n}$	Numbers of poles	Breaking capacity	Temperature resistance
<p>Value of a residual fault current at which the RCCB shall trip.</p> <p>Preferred values:10, 30, 100, 300,500mA</p>	<p>Number of current paths which the RCCB can monitor.</p> <p>Preferred values: 2 and 4.</p>	 <p>The function of an RCCB is not impaired by short-circuit current of up to 6,000 A resp. 10,000A provided a back-up fuse is used. 2 and 4.</p>	<p>Suitable for temperatures from -25°C up to 40°C.</p>

Surge capacity	Short time delay selective
<p>KV</p> <p>RCCB' s surge capacity. Not tripping at standardized 8/20 μs surge-current waves acc.to VDE 0432 Part 2 with surge current values of up to 250A.</p>	 <p>Time Delay Type</p>

Notice

1. Leakage protection function of RCD is tested and adjusted by the manufacturer, users can not open the product at random during usage.
2. After using RCD for a certain time(normally one month),test button should be pressed once in a state of making the circuit to check whether the function of RCD is normal and reliable(press test button once, the RCD can break off once).If abnormal, it should be unloaded and sent to the manufacturer for repair.
3. RCD must not be wetted of soaked by rain, snow or water during the course of transportation, storage and usage.
4. RCD can not play the role of protection when short circuit occurs.