

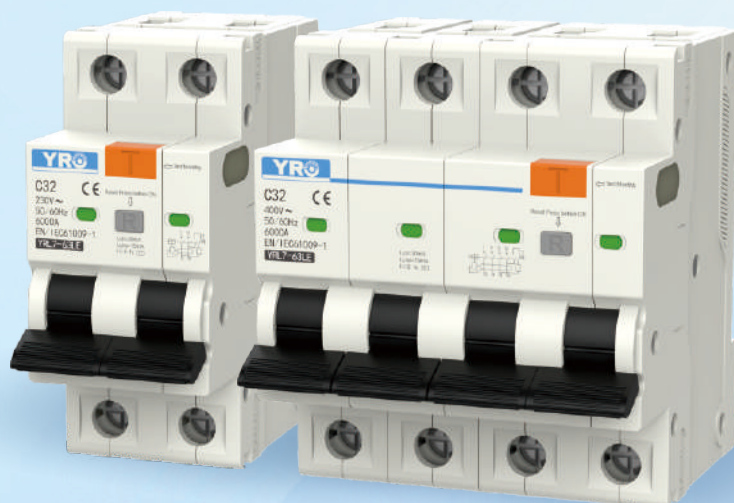
Residual Current Devices



YRL7-63LE 6kA RCBO SERIES

YRL7-63LE RCBO SERIES

Residual Current Circuit Breaker
With Overcurrent Protection



Application

RCBO is mainly used in AC 50Hz(60Hz), rated voltage 230/400V, rated current 6A to 63A low voltage terminal distribution system. RCBO is equal with MCB+RCD function; It is used for electric shock protection and human indirect contact protection, electric equipment protection when human body touching electricity or electric network leak current exceeds stipulated value, and over load and short circuit protection; It can also be a non-frequency operator in the circuit, wildly used in the residential and commercial district. It complies with standard of IEC61009-1.

Technical Data

Electrical Features	
Mode	Electronic/ Electromagnetic
Type	A/AC/B
Tripping curve	BCD
Pole No.	2P/4P 1P+N 3P+N
Rated current	6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A
Rated voltage	230/400V~
Rated frequency	50/60Hz
Rated residual operating current($I_{\Delta n}$)	30mA, 100mA, 300mA
Residual operating current range	$0.5 I_{\Delta n} \sim I_{\Delta n}$
Rated conditional short-circuit current(I_{nc})	6000A / 10000A
Energy limiting	class 3
Electrical and Mechanical life	20000

Installation	
Fault current indicator window	Yes
Protection degree	IP20
Ambient temperature	-5~+40°C and its average over a period of 24h does not exceed +35°C
Storage temperature	-25~+70°C

Terminal connection type	Cable/U-type busbar/Pin-type busbar
Terminal size top for cable	25mm ²
Tightening torque	2.5N.m
Mounting	On DIN rail FN 60715 (35mm)
Connection	Top and bottom

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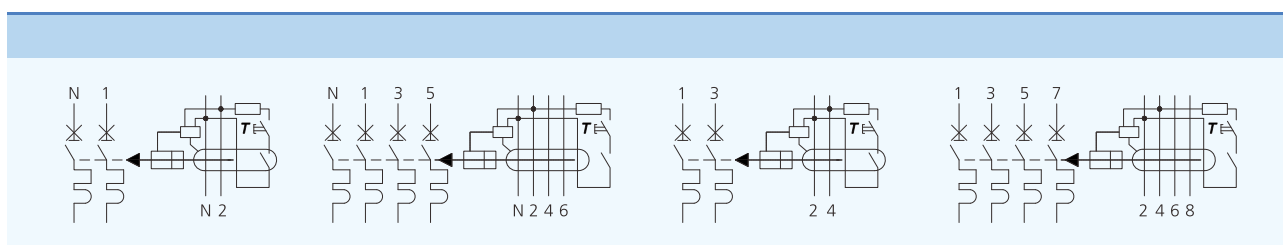


Overload Current Protection Characteristics						
Test Procedure	Type	Test Current	Initial State	Tripping or Non-tripping Time Limit	Expected Result	Remark
A	B C D	1.13I _n	Cold	t ≤ 1h	no tripping	
B	B C D	1.45I _n	After test A	t ≤ 1h	tripping	The current steadily rises to the specified value within 5s
C	B C D	2.55I _n	Cold	1s < t < 60s	tripping	
D	B	3I _n	Cold	t ≤ 0.1s	no tripping	Turn on the auxiliary switch to close the current
	C	5I _n				
	D	10I _n				
E	B	5I _n	Cold	t ≤ 0.1s	tripping	Turn on the auxiliary switch to close the current
	C	10I _n				
	D	20I _n				

Residual Current Operating Breaking Time						
Type	I _n /A	I _{Δn} /A	Residual Current(I _Δ)Is Corresponding To The Following Breaking Time(S)			
AC Type	Any value	Any value	I _n	2I _n	5I _n	5A, 10A, 20A, 50A, 100A, 200A, 500A
AC Type		> 0.01	1.4I _n	2.8I _n	7I _n	
			0.3	0.15	0.04	0.04 Max breaking time

The general type RCBO whose current I_{Δn} is 0.03mA or less can use 0.25A instead of 5I_{Δn}.

Wiring diagram



Dimensions

Unit: mm

