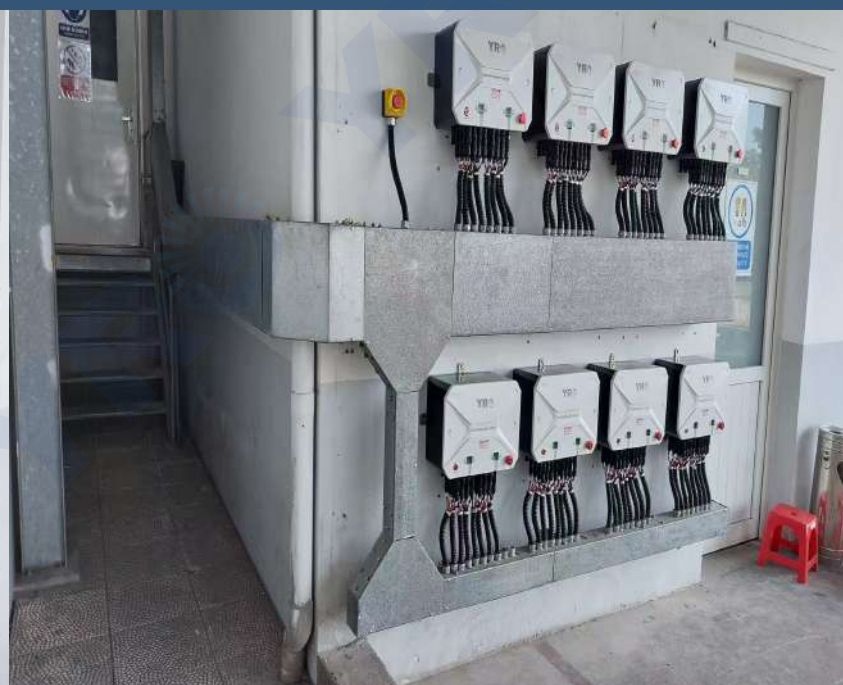


YRO RSD used in 1 MW Solar Project in iloilo, Philippines



YRO RSD used in 0.8 MW Solar Project in Vietnam





The future is even more exciting and is already here.

The third relocation upgrade
10000m² 100 employees

2024

2023/11

Achieve cETLus Certification based on UL1741 standard in Nov 2023.



The second relocation upgrade 2022
3000m² 50 employees

2022

2023/3

Achieve KEMA Certification For 6kA&10kA AC MCB in March, 2023.

2021

Achieve TÜV certificates for DC isolator switch, DC fuse, DC SPD etc in 2011.

The first relocation upgrade 2019
1200m² 30 employees



2020

2019

Achieve first TÜV Certification DC MCB 6-63A 1200V 6kA in 2020

built up brand 2017 YR

2017

Establish 2011
600m² 9 workers

2011



SINCE 2011

YR is a new energy company was founded in 2011 and specialized in solar electrical protection, energy storage, EV charger etc.

YRL7-63DC SERIES

Non-polarity DC Miniature Circuit Breaker



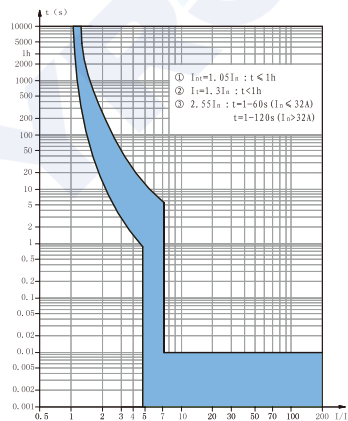
Application

YRL7-63DC series non-polarity DC miniature circuit breaker has passed the IEC 60947-2 and EN 60947-2, standard tests TUV, CE, CB. Mainly used in photovoltaic, energy storage and other DC systems that need to be disconnected and protected when overcurrent or short circuit occurs.

Advantages

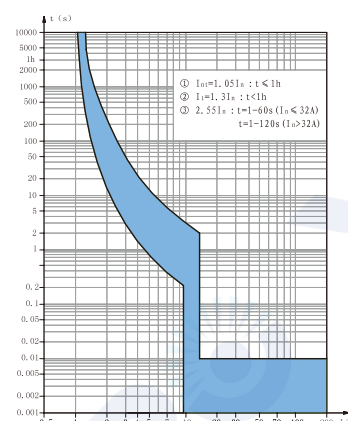
- Full current specification
- Non-polar design
- High breaking capacity
- Adapt to high & low temperature environment
- Long mechanical and electrical life
- Flame retardant material, more secure

Tripping Characteristics



B Curve 4-6In(1±20%)

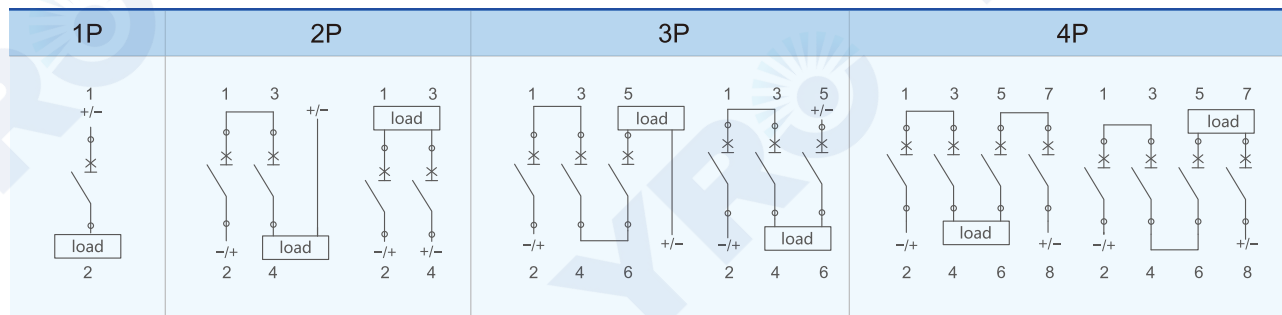
- Suitable for pure resistive load and microinductive circuit
- Available to rated current of 6A ~ 63A(63A Frame)
- Instantaneous tripping range: 4-6In±20%



C Curve 8-10In (1±20%)

- Suitable for general load and power distribution circuit
- Available to rated current of 6A ~ 63A(63A Frame)
- Instantaneous tripping range: 8-10In±20%

Contact Configuration



YRL7-63DC SERIES

Non-polarity DC Miniature Circuit Breaker



Technical Data

According to EN/ IEC 60947-2					
Pole		1P	2P	3P	4P
Rated Working Voltage Ue		300 V DC	600/800 V DC	900 V DC	1200 V DC
Frame Current		63A			
Rated Current In		63A, 50A, 40A, 32A, 25A, 20A,16A,10A,6A			
Rated Insulation Voltage Ui		1200V			
Rated Impulse Withstand Voltage Uimp		4-8kV			
Tripping Characteristics		B/C			
Tripping Type		Thermal Magnetic			
Rated Ultimate Short-Circuit Breaking Capacity Icu		6kA (2P 800V 4.5kA)			
Rated Service Short-Circuit Interrupting Capacity Ics		6kA (2P 800V 4.5kA)			
Electrical Life	Actual	> 1000 Cycles			
	Standard	1000 Cycles			
Mechanical Life	Actual	>20000 Cycles			
	Standard	8500 Cycles			
Overvoltage Category		III			
Pollution Degree		3			
Ingress Protection		IP40; Wiring port IP20			
Resistance to humidity and heat		Class 2			
Relative Humidity		≤ 95 %			
Wiring capacity		14 ~ 2 AWG			
Wiring knob		2.5 Nm			
Ambient Temperature		-30°C~70°C			
Storage Temperature		-40°C~85°C			
Installation Method		DIN			
Elevation		≤2000m			
Dimension		Width:72mm (4P); 54mm (3P) ; 36mm (2P)			
		High: 108mm			
		Depth: 76mm			
Weight		0.13kg/Pole			

Package Information					Storage
Current	Pole	Box	Carton		
63A/32A	1P	12	120		Products should be stored in the warehouse where there is ventilation. The relative humidity there should not exceed 80%, and the ambient temperature there is between -40°C to + 85°C. In addition, there should not be acidic, alkaline and corrosive gas in the air.
	2P	6	60		
	3P	4	40		
	4P	3	30		

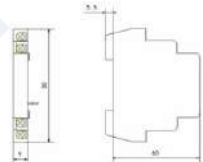
YRL7-63DC SERIES

Non-polarity DC Miniature Circuit Breaker



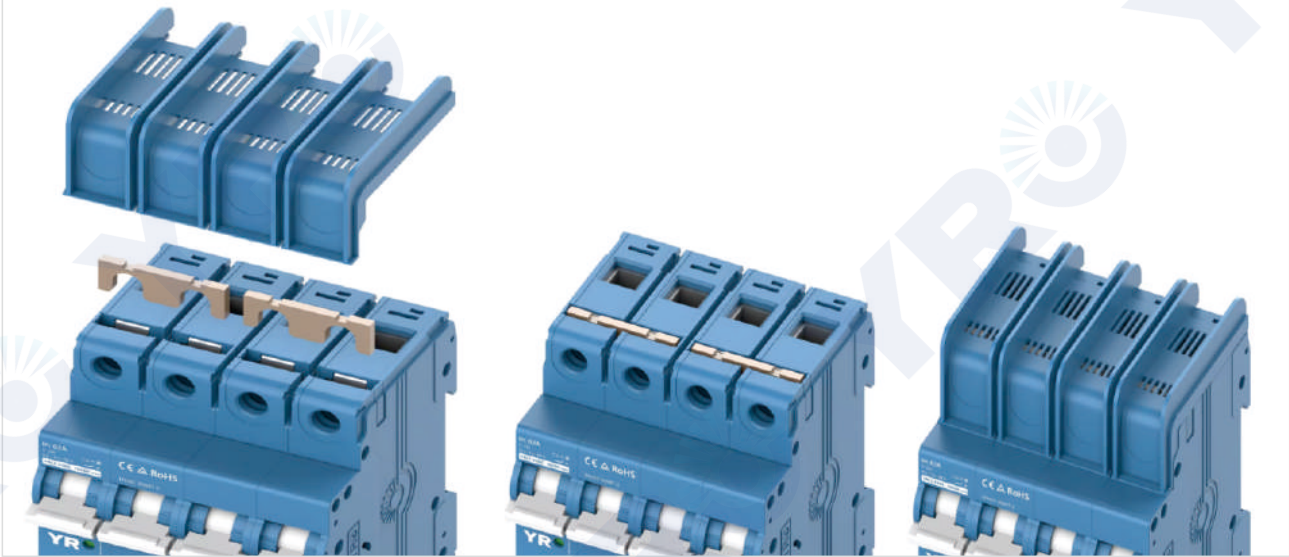
Accessories

Shunt trip release ,MX	
Rated insulation voltage	250V
Rated control voltage Us	DC: 12 ~ 24V
	DC: 24 ~ 48V
The maximum deduction time of MX	<10ms
Power access terminal of MX	Upper terminal or lower terminal (Nonpolarity)
Mechanical life	10000 times
Electrical life	4000 times
Torque	2Nm
Range of working temperature	-30 °C ~ +70 °C
Applicable circuit breaker model	YRL7-63DC
Environmental conditions	There should be no medium that causes the danger of explosion, nor does it have no harmful gases and electric conductivity dust that corrodes and damage insulation.
Assembly position	Left side of the circuit breaker
Installation conditions	DIN35mm
Dimensions	

Auxiliary contact, OF	
Rated insulation voltage	250V
Auxiliary contact's capacity	3A: AC400V
	1A: DC110V
The minimum operating voltage of the auxiliary contact	<10ms
Agreed heating current of auxiliary contact	5V
	4A
Terminals for auxiliary contact	11, 12 terminals: NC; ,21,22terminals: NO
Wiring ability	1 ~ 2.5mm ²
Torque	0.3 ~ 0.5Nm
Applicable circuit breaker model	YRL7-63DC
Environmental conditions	There should be no medium that causes the danger of explosion, nor does it have no harmful gases and electric conductivity dust that corrodes and damage insulation.
Assembly position	Left side of the circuit breaker
Installation conditions	DIN35mm
Dimensions	

Structure Diagram

Inner Bus-bar design for 4P connect in series



Reduction Coefficient

Temperature reduction coefficient																			
	-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C
16A	1.24	1.22	1.20	1.18	1.16	1.14	1.11	1.09	1.07	1.05	1.02	1.00	1.00	1.00	1.00	0.90	0.87	0.84	0.81
20A	1.23	1.21	1.19	1.17	1.15	1.13	1.11	1.09	1.07	1.05	1.02	1.00	1.00	1.00	1.00	0.90	0.87	0.84	0.81
25A	1.24	1.22	1.20	1.18	1.16	1.14	1.11	1.09	1.07	1.05	1.02	1.00	1.00	1.00	1.00	0.90	0.87	0.85	0.82
32A	1.23	1.21	1.19	1.17	1.15	1.13	1.11	1.09	1.07	1.04	1.02	1.00	1.00	1.00	1.00	0.91	0.88	0.85	0.78
40A	1.23	1.21	1.19	1.17	1.15	1.13	1.11	1.09	1.07	1.05	1.02	1.00	1.00	1.00	1.00	0.91	0.88	0.85	0.82
50A	1.23	1.21	1.19	1.17	1.15	1.13	1.11	1.09	1.07	1.05	1.02	1.00	1.00	1.00	1.00	0.91	0.88	0.85	0.82
63A	1.27	1.25	1.22	1.20	1.18	1.15	1.13	1.11	1.08	1.05	0.87	1.00	1.00	1.00	1.00	0.88	0.85	0.82	0.78
80A	1.27	1.25	1.22	1.20	1.18	1.15	1.13	1.11	1.08	1.05	0.87	1.00	1.00	1.00	1.00	0.88	0.85	0.82	0.78

Altitude reduction coefficient				
Altitude (m)	2000	3000	4000	5000
Rated Current (In)	1	0.97	0.91	0.86
Rated Insulation (Ui)	1	0.90	0.82	0.76
Power-Frequency Dielectric Strength	1	0.90	0.82	0.76
Rated Impact Tolerance Voltage (Uimp)	1	0.90	0.82	0.76
Values Of Rated Shour-Circuit Capacity (Icn)	1	0.87	0.77	0.67
Electrical Life (Cycles)	1	0.87	0.77	0.67

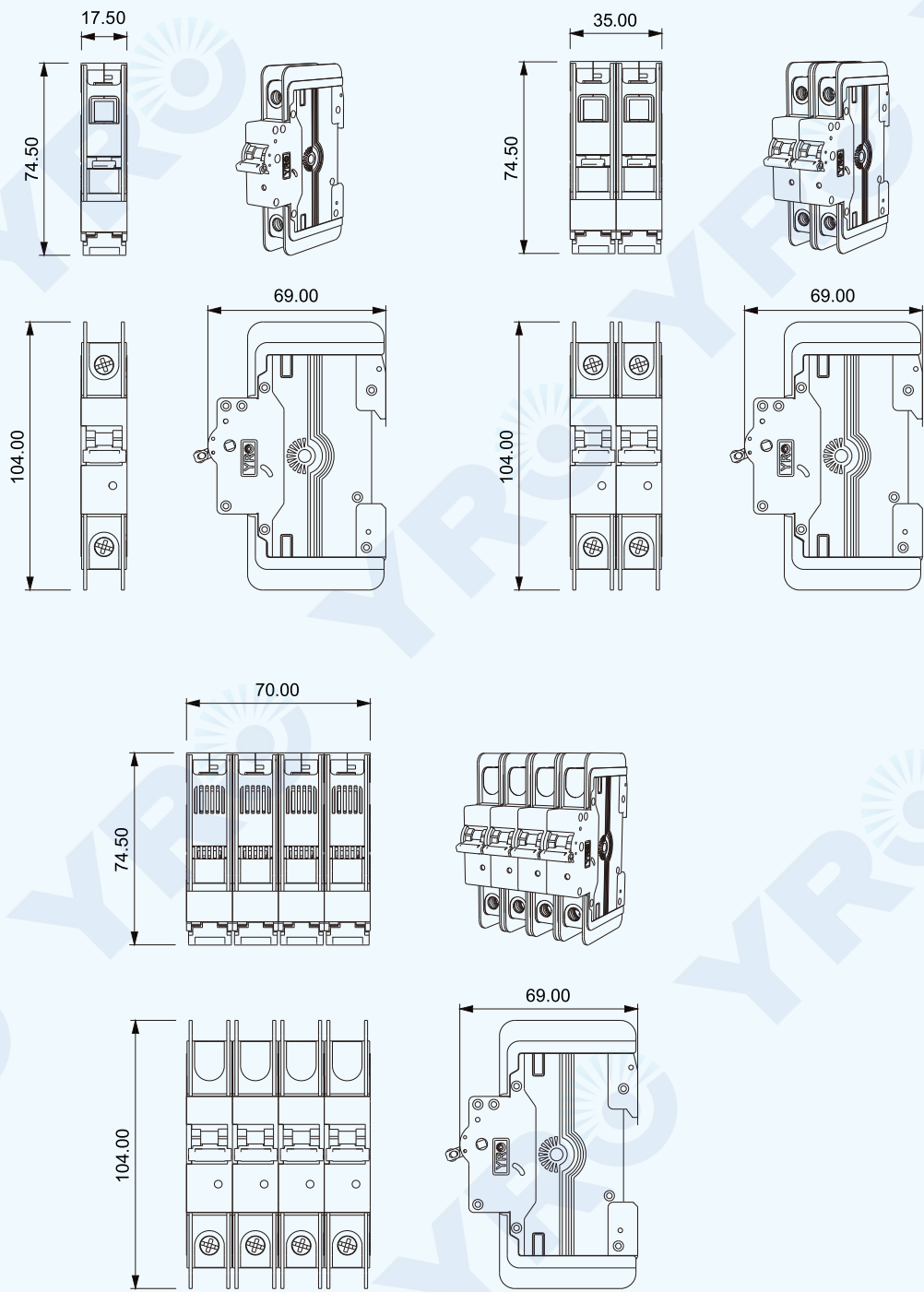
YRL7-63DC SERIES

Non-polarity DC Miniature Circuit Breaker



Dimensions

Unit: mm



* Note: Tolerance is generally within $\pm 0.3\text{mm}$