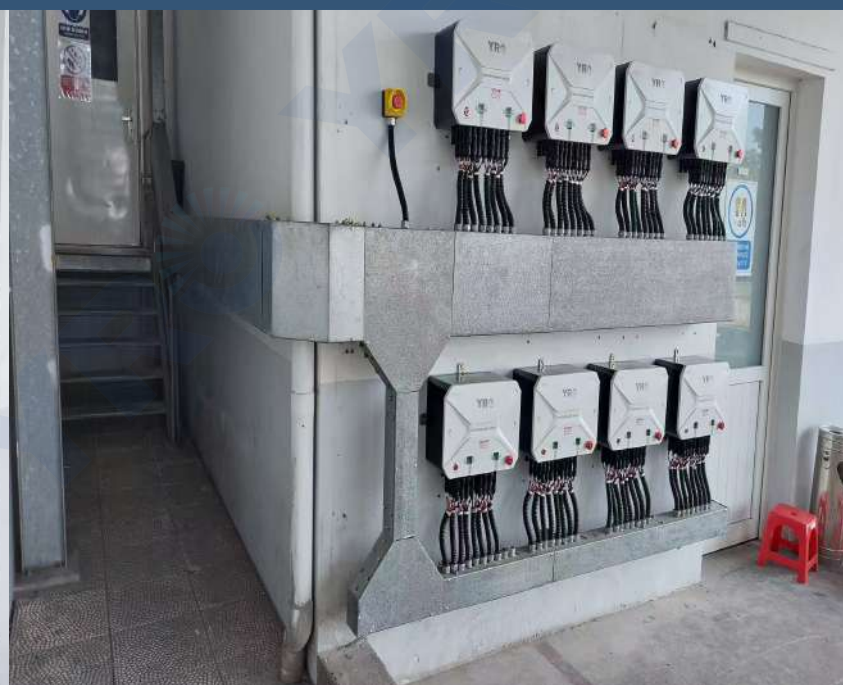


YRO RSD used in 1 MW Solar Project in iloilo, Philippines



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.

YRCB-125DC SERIES

Polarity DC Miniature
Circuit Breaker



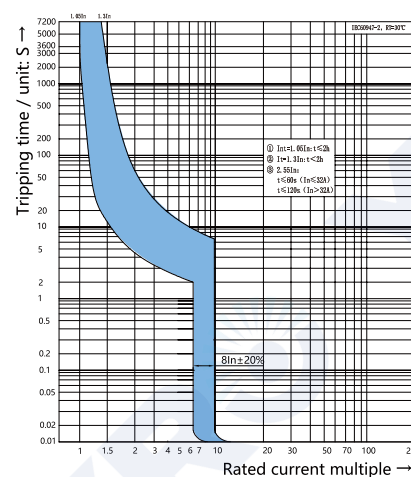
Application

YRCB-125DC series low voltage DC miniature circuit breakers are mainly used in photovoltaic, energy storage and other DC systems that require disconnection and protection. The maximum rated voltage is 1000VDC, the rated current is 125A, and it has scientific arc extinguishing and current limiting mechanisms. It can quickly disconnect the fault current on the DC side to ensure the reliable operation of the DC system. The product complies with EN60947-2, AS/NZS/IEC 60947.2:2015. standards.

Advantages

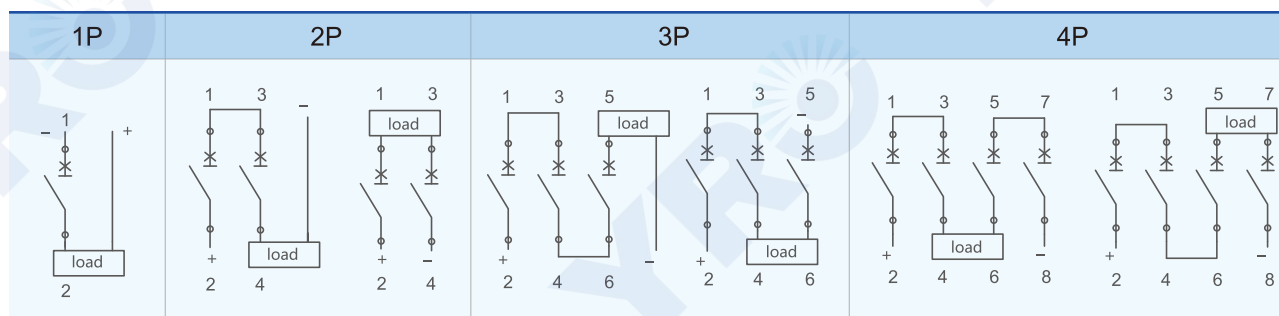
- Short circuit protection and overload protection
- High breaking capacity, up to 10kA
- Non-polar, easy to install
- Rated operating current up to 125A
- Rated working voltage up to 1000V
- Perfect match for photovoltaic, energy storage and other DC systems

Tripping Characteristics



C Curve 8In±20%
Applicable rated current 80A-125A

Contact Configuration



Technical Data

According to EN60947-2, AS/NZS IEC 60947.2					
Pole		1P	2P	3P	4P
Rated Working Voltage Ue		12-250 V DC	12-550 V DC	12-750 V DC	12-1000 V DC
Frame Current		125A			
Rated Current In		80A, 100A, 125A			
Rated Insulation Voltage Ui		1000V			
Rated Impulse Withstand Voltage Uimp		6kV			
Tripping Characteristics		C/D			
Tripping Type		Thermal Magnetic			
Rated Ultimate Short-Circuit Breaking Capacity Icu		10kA			
Rated Service Short-Circuit Interrupting Capacity Ics		7.5kA			
Electrical Life	Actual	Average 800 Cycles			
	Standard	200 Cycles			
Mechanical Life	Actual	> 10000 Cycles			
	Standard	9700 Cycles			
Overvoltage Category		III			
Pollution Degree		3			
Ingress Protection		IP40; Wiring port IP20			
Resistance to humidity and heat		Class 2			
Relative Humidity		≤ 95 %			
Vibration		acc. to IEC60068-2-6			
Shocks		acc. to IEC60068-2-27			
Terminal capacity		2.5~35mm²			
Fastening Torque of Terminals		3.5 Nm			
Ambient Temperature		-30°C~70°C			
Storage Temperature		-40°C~85°C			
Installation Method		DIN35mm			
Elevation		≤2000m			
Dimension		length: 86mm			
		Width: 27mm (1P), 54mm (2P)			
		High: 76.5mm			
Weight		0.17kg/Pole			

Package Information					Storage
Current	Pole	Box	Carton		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.
125A	1P	8	80		
	2P	4	40		
	4P	2	20		

Accessories

Technical parameter of shunt trip release, MX	
Working voltage US	DC: 24 ~ 48V
Maximum deduction time	< 10ms
Coil resistance	1.8Ω
Mechanical life	10000 times
Electrical life	4000 times
Torque	0.3 ~ 0.8Nm
Wiring ability	1 ~ 2.5mm ² (hard line), 1 ~ 2.5mm ² (soft line, with hoop line terminal)
Range of working temperature	-30 °C ~ +70 °C
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	Right side of the circuit breaker
Installation conditions	DIN35mm

Technical parameters auxiliary contact, OF	
Contact capacity of OF	AC13: Ie=3A; Ue=250V AC15: Ie=2A; Ue=250V DC12: Ie=0.5A; Ue=110V
Minimum operating voltage	5V
Minimum operating current	10mA
Rated insulation voltage	415V
Rating restricted short -circuit current I _k	1000A
Conventional thermal current I _{th}	4A
Mechanical life	10000 times
Electrical life	4000 times
Torque	0.3 ~ 0.8Nm
Wiring ability	1 × 1.0 ~ 1 × 2.5mm ²
Range of working temperature	-30 °C ~ +70 °C
Number of contacts	1 NO contact, 1 NC contact
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	Right side of the circuit breaker
Installation conditions	DIN35mm

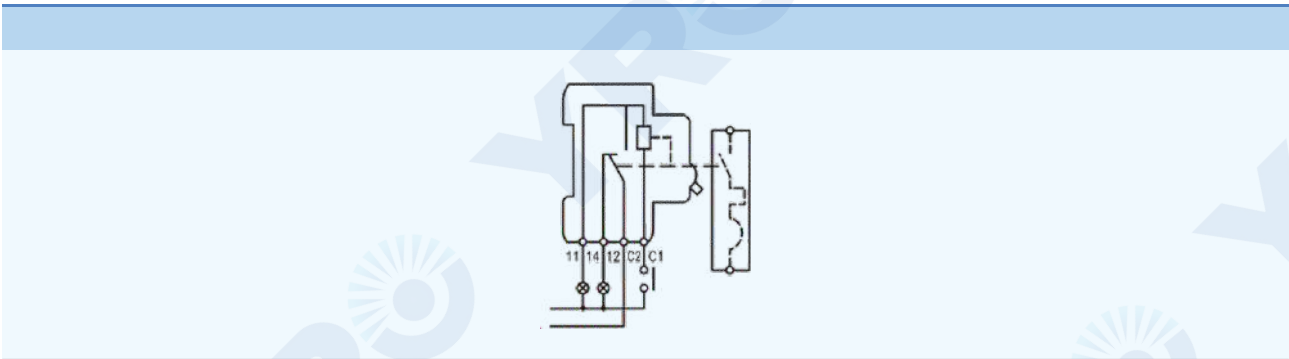
Reduction Coefficient

Temperature reduction coefficient																				
Temperature	-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C	15°C	20°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C	65°C	70°C
The rated work current coefficient	1.242	1.223	1.204	1.182	1.161	1.143	1.127	1.103	1.079	1.063	1.047	1	0.984	0.968	0.952	0.922	0.904	0.891	0.872	0.844

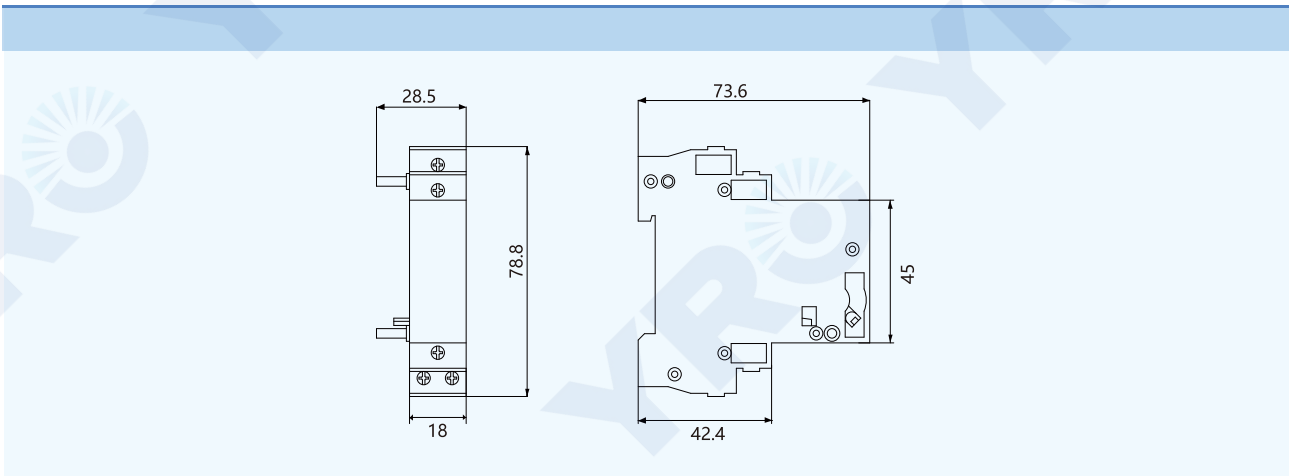
Altitude reduction coefficient				
Altitude m	2000	3000	4000	5000
The rated working current coefficient	1	0.96	0.91	0.86
The rated work voltage coefficient	1	1	1	1
Rated industrial frequency resistance coefficient	1	0.9	0.82	0.71
The rated impact tolerance voltage coefficient	1	0.9	0.82	0.71
The rated ultimate short-circuit capacity and electronic life coefficient	1	0.82	0.7	0.6

MCB Side -by -side installation reduction coefficient					
Number of MCBs	1	2 ~ 3	4 ~ 5	6 ~ 8	9 ~ 10
$I_n \leq 25A$ coefficient	1	0.96	0.9	0.8	0.7
$32A \leq I_n \leq 63A$ coefficient	1	0.92	0.8	0.7	0.6
$80A \leq I_n \leq 125A$ coefficient	1	0.9	0.8	0.7	/

Wiring Diagrams



Dimensions of MX+OF



Dimensions

Unit: mm

