



# Solar DC Mini Circuit Breaker (DC MCB)



# MDB-125

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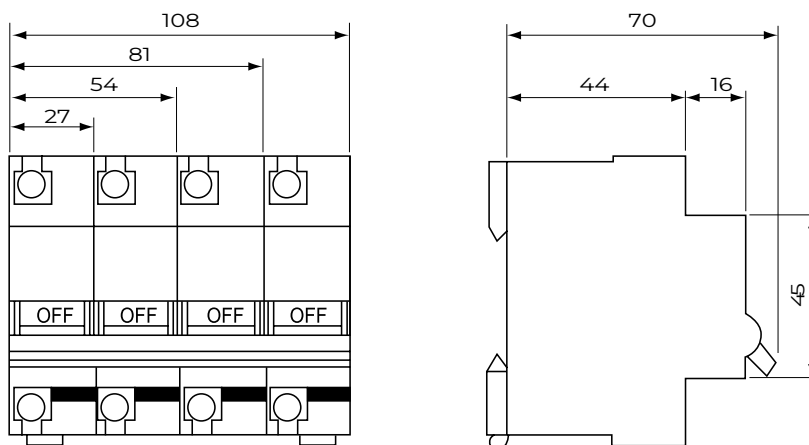
## Application

MDB-125 high breaking capacity circuit breaker is specially for solar PV system. The current is from 63A to 125A and voltage up to 1000VDC. Standard according to IEC/EN60947-2.

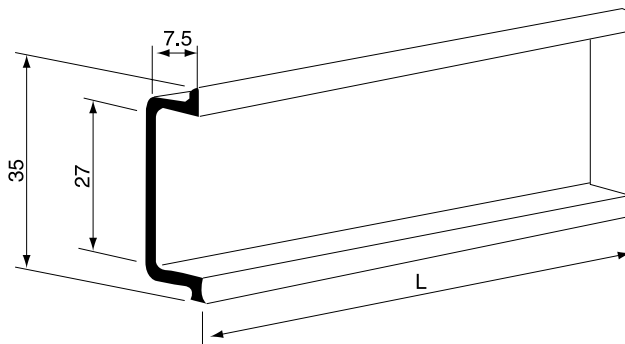
## Specifications

Rated Current	63,80,100,125A			
Rated Voltage	250VDC	550V/800VDC	750VDC	1000/1200/1500VDC
No. of Pole	1P	2P	3P	4P
Mechanical Life	7800 times(C.O.)			
Electrical Life	20000 times			
Icu:	10KA			
Ics:	10KA			
Weight(G)	150	300	460	620

## Dimensions



## Installation



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## Over current tripping characteristic

Item	Rated Current (A)	Initial State	Test Current	Limited Time	Prospective Result	Starting State
a	$I_n=63$	Cold state	$1.05I_n$	$t \leq 1h$	Non-tripping	
	$I_n>63$	Cold state	$1.05I_n$	$t \leq 2h$	Non-tripping	
b	$I_n=63$	Hot state	$1.3I_n$	$t < 1h$	Tripping	The current rise steadily to a fixed value within 5s
	$I_n>63$	Hot state	$1.3I_n$	$t < 2h$	Tripping	
c	$I_n \geq 63$	Cold state	$8I_n$	$t \leq 0.2s$	Non-tripping	
			$12I_n$	$t < 0.2s$	Tripping	

## Current correction values used at different ambient temperatures

Temperature Fixed current(A) Rated Current (A)	-35	-30	-20	-10	0	10	20	30	40	50	60	70
63A	90.40	88.52	84.75	80.33	76.55	72.45	67.73	63	57.65	51.98	46.31	40.95
80A	114.8	112	106.8	101.6	96.4	90.8	85.6	80	74	67.6	60.4	53.2
100A	143.5	140.5	134.5	127.5	121	113.5	107.5	100	92.5	84.5	75.5	66.5
125A	178.75	173.75	164.38	156.25	148.75	140.63	135	125	116.25	107.5	97.5	85

## Current correction factor used at different altitudes

Rated Current (A)	Different altitude correction factors		
	$\leq 2000m$	2000~3000m	$\geq 3000m$
3,6,10,16,20,25,32,40,50,63A	1.0	0.9	0.8

## Dimension

