



# AC Miniature Circuit Breaker

ESM1-63(10kA)MCB ESM2-63(6kA)MCB

Leading Manufacturer Protects Solar Power Safety

Rev3.0 2023/04/10



# AC MINIATURE CIRCUIT BREAKER

## ESM2-63(6kA)MCB

Standard: IEC60898-1 **RoHS** **EHC** **CE** **CB** **SAA** **CE**

- All mass production products can pass 6kA
- Long mechanical and electrical endurance over 20000 cycles operation



### Detail features

#### Din Rail Mounting



Two step snapping mechanism for easy & efficient mounition in 35mm DIN Rail steadily

#### Red/Green indication



Clear indication of the ON/OFF switch status.

### Select Code

E
S
M
2
-
63
/
□
/
□

#### Electrical Features

Code	Name	Description
1	ONCCY brand	E
2	AC	S
3	MCB	M
4	Series	2:Series2
5	Frame Current	63
6	Tripping curve	B / C / D
7	Rated current	1:1A 2:2A 3:3A 4:4A 6:6A 10:10A 16:16A 20:20A 25:25A 32:32A 40:40A 50:50A 63:63A
8	Poles	1:1P 2:2P 3:3P 4:4P

### Technical Data

#### Electrical Features

Rated current (In)	1-63A
Poles	1P 2P 3P 4P
Rated voltage (Ue)	1P: 240/415V~ 2/3/4P:415~
Insulation voltage (Ui)	500V
Rated frequency	50/60Hz

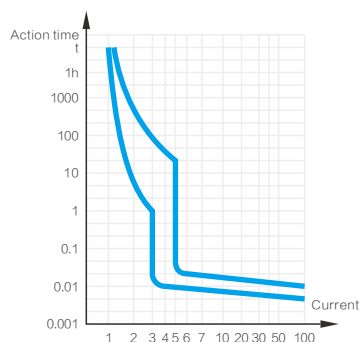
#### Combination with accessories

Auxillary contact	YES
Alarm contact	YES
Shunt release	YES
Under voltage release	YES

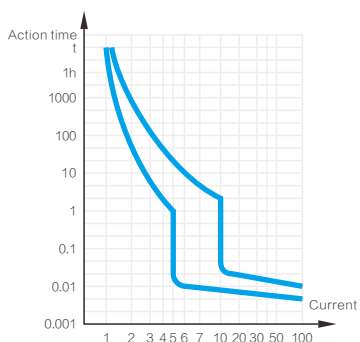
Rated breaking capacity (Icn)	6kA
Rated operating short circuit breaking capacity (Ics)	6kA
Energy limiting class	3
Tripping curve	B C D
Electrical and Mechanical life	20000

# ESM2-63(6kA)MCB

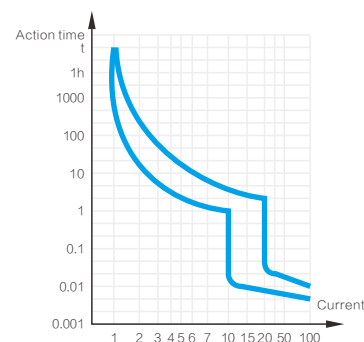
Standard: IEC60898-1



B curve



C curve



D curve

## Overload Current Protection Characteristics

Test Procedure	Type	Test Current	Initial State	Tripping or Non-tripping Time Limit	Expected Result	Remark
A	B.C.D	1.13In	Cold	$t \leq 1h$	no tripping	
B	B.C.D	1.45In	After test A	$t \leq 1h$	tripping	The current steadily rises to the specified value within 5s
C	B.C.D	2.55In	Cold	$1s < t < 60s (I_n \leq 32A)$ $1s < t < 120s (I_n > 32A)$	tripping	
D	B	3In	Cold	$t \leq 0.1s$	no tripping	Turn on the auxiliary switch to close the current
	C	5In				
	D	10In				
E	B	5In	Cold	$t \leq 0.1s$	tripping	Turn on the auxiliary switch to close the current
	C	10In				
	D	20In				

## Installation

Contact position indicator	Yes
Protection degree	IP20
Reference temperature for setting of thermal element	30°C
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/Pin -type busbar
Terminal size top/bottom for cable	25mm <sup>2</sup>
Tightening torque	2.5N·m
Mounting	On DIN rail 60715 (35mm) by means of fast clip device
Connection	Top and bottom

## Dimensions(mm)

