

Products

Miniature circuit breaker



MCB ESM2-63 6KA

1-Pole | 2-Pole | 3-Pole

VELMA MCB (Miniature circuit breaker) Leading Manufacturer Protects Solar Power Safety with high quality and compact design

Din-rail mounting, B - Curve, C - Curve short circuit protection

Connection 1-Pole, 2-Pole, 3-Pole and 4-Pole with 1 - 250A available to supply

use for all Machine and all application example: food, beverage, packaging, robotic, CCTV, Sacada, DCS and solar system.



Standard: IEC 60898-1 **RoHS** **EMC** **CE** **CB** **SAA** **APPROVALS**

Order code

E	S	M	2	63	/		/	
1	2	3	4	5	6	7	8	

Electrical Feature

Code	Name	Description
1	VELMA Brand	E
2	AC	S
3	MCB	M
4	Series	1: 10KA 2: 6KA
5	Frame Current	63
6	Tripping curve	B / C / D
7	Rate 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

Detail features

Din Rail Mounting



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

Detail features

Fit for various connection terminal

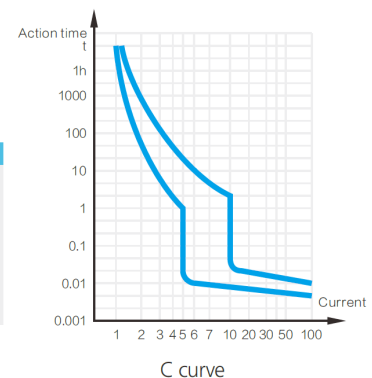


Choice to use Busbar or cable in the same terminal, provides reliable connection

Red/Green indication



Clear indication of the ON/OFF switch status.



Industrial Circuit Breaker

Miniature circuit breaker

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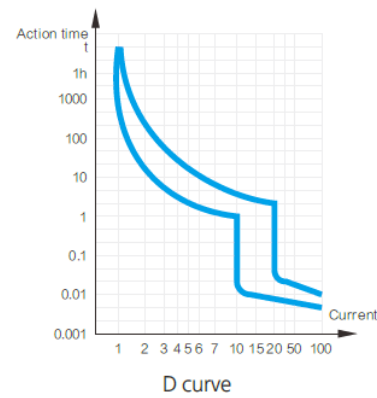
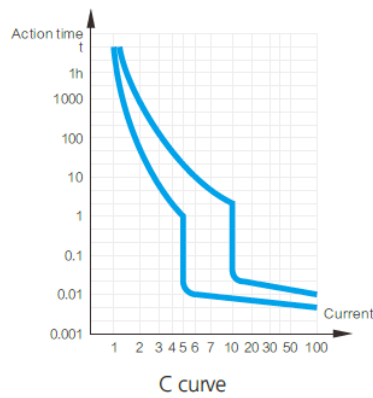
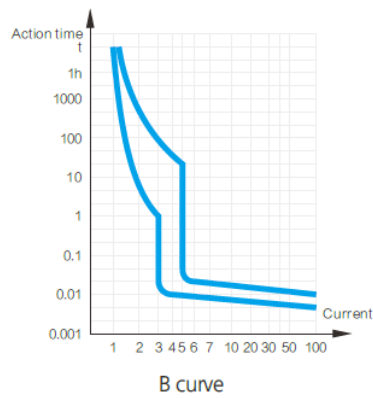
Standard:IEC60898-1 **RoHS** **REACH** **CE** **CB** **CCC** **SAA** **CE**

Technical data

Electrical Feature		Combination with accessories	
Rate current (In)	1 - 63A	Auxillary contact	YES
Poles	1P 2P 3P 4P	Alarm contact	YES
Rate voltage (Ue)	1P: 240/415Vac 2/3/4P: 415Vac	Shunt release	YES
Insulation voltage (Ui)	500V	Under voltage release	YES
Rate Frequency	50/60 Hz	Rate 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	20,000 Times

ESM2-63(6kA)MCB

Standard: IEC60898-1



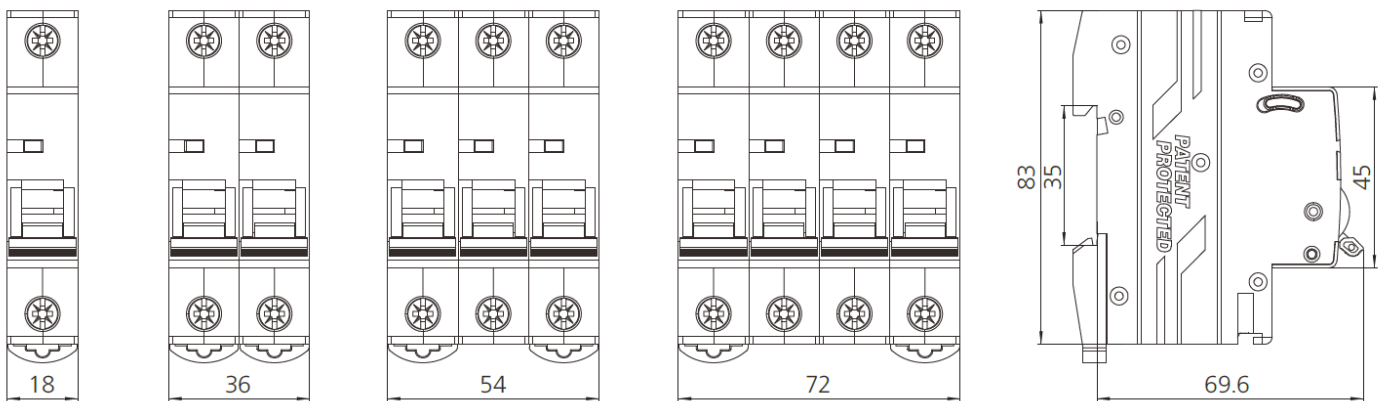
Overload current protection characteristics						
Test Procedure	Type	Test Current	Initial State	Tripping or Non-tripping time limit	Expected Result	Remark
A	B.C.D	1.13In	Cold	t < 1h	no tripping	
B	B.C.D	1.13In	Cold	t < 1h	Tripping	The current steadily rises to the specified value within 5s
C	B.C.D	2.55In	Cold	1<t<60s(in<32A) 1<t<120s(in<32A)	Tripping	
D	B	3In	Cold	t < 0.1s	no tripping	Turn on the auxiliary switch to close the current
	C	5In				
	D	10In				
E	B	3In	Cold	t < 0.1s	Tripping	Turn on the auxiliary switch to close the current
	C	5In				
	D	10In				

MCB ESM2-63 6KA

Standard: IEC60898-1 **RoHS** **EH** **S** **I** **CB** **A** **SAA** **CE**

Installation	
Contact position indicator	Yes
Protection degree	IP20
Reference temperature for setting of thermal element	30°C
Ambient temperature	-5 to +40°C and its average over a period of 24h does not exceed +35°C
Storage temperature	-25 to +70°C
Terminal connection type	Cable / Pin -type busbar
Terminal size top/bottom for cable	25 mm ²
Tightening torque	2.5 N·m
Mounting	On DIN rail 60715 (35mm) by means of fast dip device
Connection	Top and bottom

Dimension



Miniature circuit breaker

ESM2-63 6KA

MCB ESM1-63 10KA

1-Pole | 2-Pole | 3-Pole | 4-Pole

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Order code

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1	2	3	4	5	6	7	8	

Electrical Feature

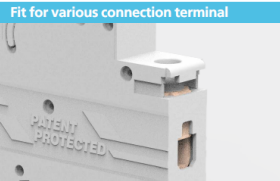
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8	Poles	1: 1P 2:2P 3:3P 4:4P

Detail features

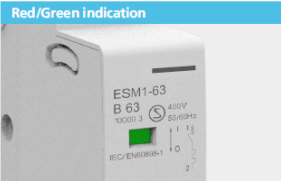


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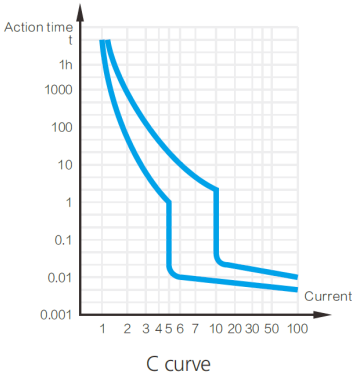
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Clear indication of the ON/OFF switch status.



Industrial Circuit Breaker

Miniature circuit breaker

MCB ESM1-63 10KA

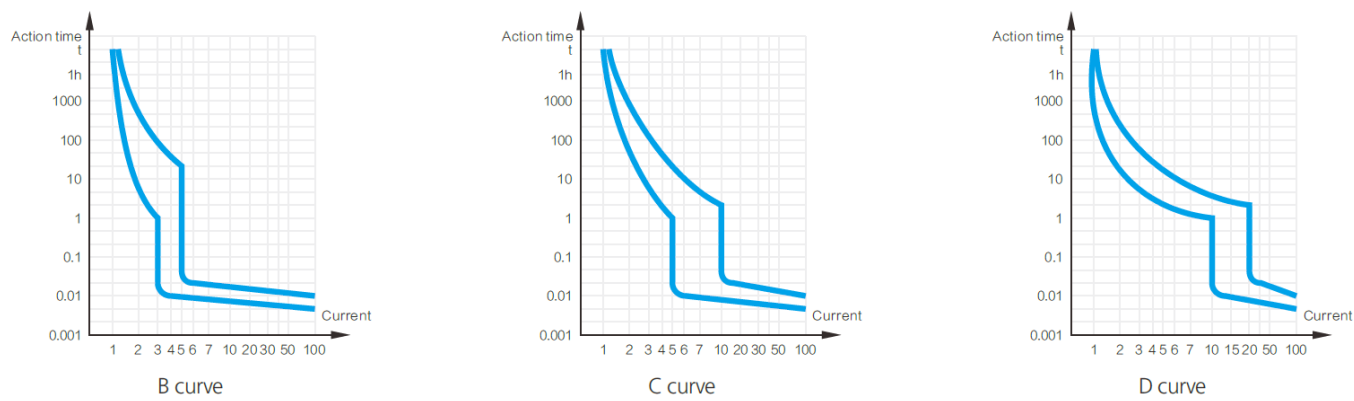
Standard:IEC60898-1 **RoHS** **REACH** **UL** **CCC** **CB** **CE**

Technical data

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Rate voltage (Ue)	1P: 240/415Vac 2/3/4P: 415Vac	Shunt release	YES
Insulation voltage (Ui)	500V	Under voltage release	YES
Rate Frequency	50/60 Hz	Rate breaking capacity (Icn)	10kA
		Rated operating short circuit breaking capacity (Ics)	7.5kA
		Energy limiting class	3
		Tripping curve	B C D
		Electrical and Mechanical life	20,000 Times

ESM1-63(10kA)MCB

Standard: IEC60898-1



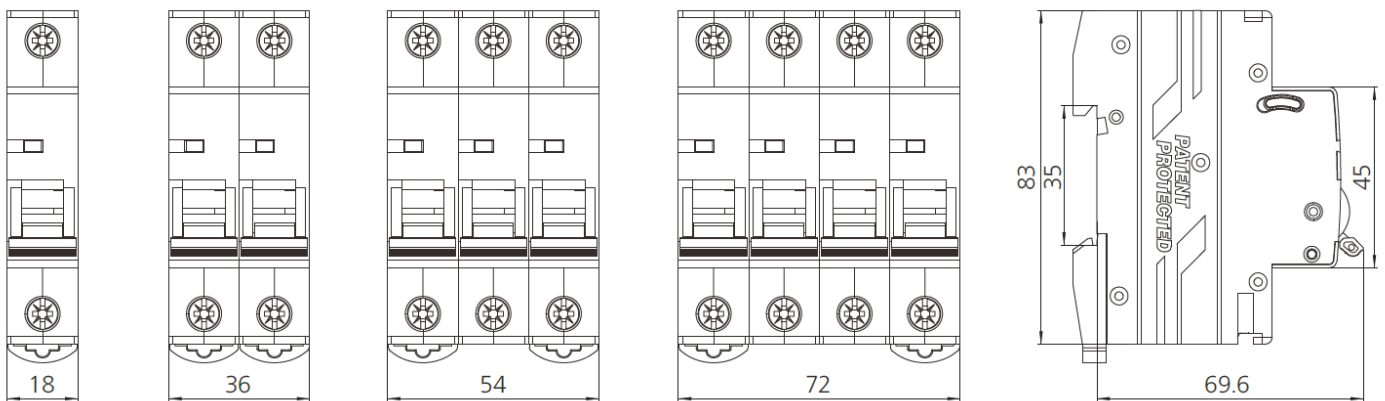
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Test Procedure	Type	Test Current	Initial State	Tripping or Non-tripping time limit	Expected Result	Remark
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B	B.C.D	1.45In	Cold	t < 1h	Tripping	The current steadily rises to the specified value within 5s
C	B.C.D	2.55In	Cold	1<t<60s(in<32A) 1<t<120s(in<32A)	Tripping	
D	B	3In	Cold	t < 0.1s	no tripping	Turn on the auxiliary switch to close the current
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