

JVM16-63 Miniature Circuit Breaker

Standard: IEC60898



CB



RoHS



Construction and Feature

- The state-of-art design
- Elegant appearance; cover and handle in arc shape make comfortable operation.
- Contact position indicating window
- Transparent cover designed to carry label.
- Handle central-staying function for circuit fault indicating
- In case of overload, to protected circuit, MCB handle trips and stays at central position, which enables a quick solution to the faulty line. The handle cannot stay in such position when operated manually.
- High short-circuit capacity
- High short-circuit capacity 10KA for whole range and 15kA capacity for current rating up to 40A thanks to the powerful electric arc extinguishing system.
- Long electrical endurance up to 6000 cycles thanks to quick making mechanism.
- Handle padlock device
- MCB handle can be locked either at “ON” position or at “OFF” position to prevent unwanted operation of the product.
- Screw terminal lock device
- The lock device prevents unwanted or casual dismounting of connected terminals.

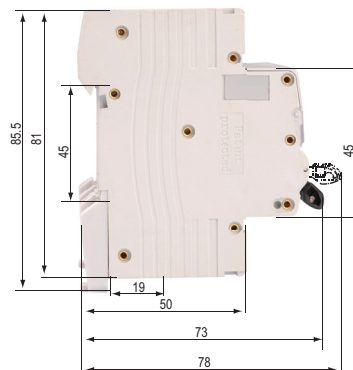
Technical Data

- Pole No.: 1, 1P+N, 2, 3, 3P+N, 4
- Rated voltage: AC 230/400V
- Rated current (A): 1, 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40, 50, 63
- Tripping curve: B, C, D
- High short-circuit breaking capacity (Icn): 10kA
- Rated service short-circuit breaking capacity(Ics): 7.5kA
- Rated frequency: 50/60Hz
- Energy limiting class: 3
- Rated impulse withstand voltage: 6.2kV
- Electro-mechanical endurance: 20000
- Contact position indication
- Connection terminal:
 - Screw terminal
 - Pillar terminal with clamp
- Connection capacity: Rigid conductor up to 25mm²
- Terminal Connection Height: 19mm
- Fastening torque: 2.0Nm
- Installation:
 - On symmetrical DIN rail 35mm
 - Panel mounting

Accessories

- F3 Auxiliary contact
- S3 Shunt tripper
- JVRX16 Auxiliary
- SD3 Alarm Switch
- U3+O3 Over-Voltage/ Under-Voltage Tripper

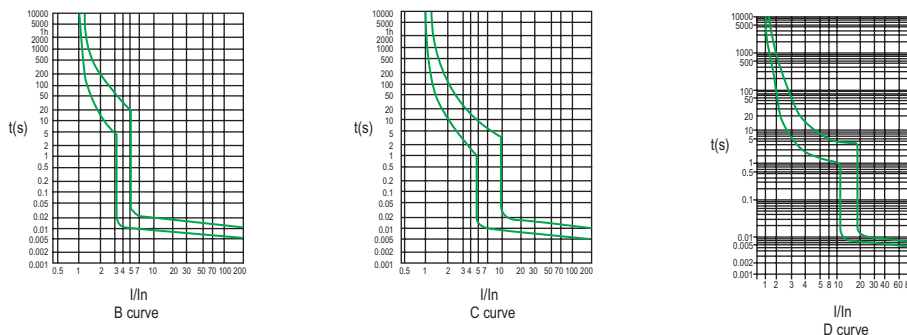
Overall & Installation Dimensions



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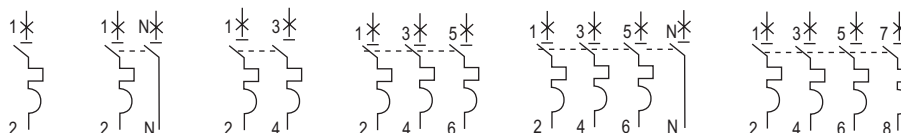
Characteristic Curve



Power Consumption

Rated Current Range (InA)	Max consumption/pole (W)
$In \leq 10$	3
$10 < In \leq 16$	3.5
$16 < In \leq 25$	4.5
$25 < In \leq 32$	6
$32 < In \leq 40$	7.5
$40 < In \leq 50$	9
$50 < In \leq 63$	13

Wiring Diagram



Overload Current Protection Characteristics

Test Procedure	Type	Test Current	Initial State	Tripping or Non-tripping Time Limit	Expected Result	Remark
A	B, C, D	$1.13I_n$	cold	$t \leq 1h$	no tripping	
B	B, C, D	$1.45I_n$	after test a	$t < 1h$	tripping	Current in the 5 s in the increase of stability
C	B, C, D	$2.55I_n$	cold	$1s < t < 60s (In \leq 32A)$ $1s < t < 120s (In > 32A)$	tripping	
D	B	$3I_n$	cold	$t \geq 0.1s$	no tripping	Turn on the auxiliary switch to close the current
	C	$5I_n$				
	D	$10I_n$				
E	B	$5I_n$	cold	$t < 0.1s$	tripping	Turn on the auxiliary switch to close the current
	C	$10I_n$				
	D	$20I_n$				