

VM51E, MCCBs with electronic trip units

VM51E Series electronic Moulded Case Circuit Breakers Hereinafter referred to as (breaker), Suitable for AC 50/60 Hz, rated insulation voltage is 800 V, rate voltage 690V and below, rated operating current to 800 A, in the circuit Infrequent conversion and infrequent starting of the motor. The breaker has overload inverse time limit, short circuit short delay inverse time limit, short circuit short delay time limit, short circuit instantaneous and under voltage protection function protect the line and power equipment from damage, and the circuit breaker protection characteristics are complete and accurate. It can improve the reliability and avoid unnecessary power off.



Product Description

- The circuit breaker has the characteristics of small dimension, high breaking capacity, short arcing and anti-vibration.
- The circuit breaker can be installed vertically or horizontally.
- The circuit breaker has an isolation function.
- The circuit breaker cannot be reversed into the line, that is, only 1,3,5 connected to the power line, and 2,4,6 connected to the load line.
- Standard: IEC 60947-2

Normal work and installation conditions

- The ambient air temperature is $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$;
- The altitude of the installation site does not exceed 2000 meters; The relative humidity of the air at the installation site does not exceed 50 % at a maximum temperature of $+40^{\circ}\text{C}$, and may have a relatively high relative humidity at a lower temperature, for example, 90 % at 20°C . Special measures should be taken for condensation that occasionally occurs due to temperature changes;
- Pollution degree is 3;
- The circuit breaker main circuit installation category is III, the remaining auxiliary circuits, the control circuit installation category is II;
- The circuit breaker is suitable for electromagnetic environment A;
- The circuit breaker shall be installed in a place where there is no danger of explosion and no conductive dust, no sufficient to corrode the metal and damage the insulation.
- The circuit breaker should be installed in a place where there is no rain or snow;
- Storage conditions: ambient air temperature is $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$.

Technical data and performance

Type	VM51E01		VM51E02		VM51E04		VM51E08		
Number of poles (P)	3	4	3	4	3	4	3	4	
Frame size rated current Inm (A)	100		250		400		630, 800		
Rated current In (A)	32 (12.5 ~ 32) 63 (25 ~ 63) 100 (40 ~ 100)		250 (100 ~ 250)		400 (160 ~ 400)		630 (250 ~ 630) 800 (315 ~ 800)		
Rated insulating voltage Ui (V)	AC 800		AC 800		AC 800		AC 800		
Rated impulsive withstand voltage Uimp (V)	8000		8000		8000		8000		
Rated operating voltage Ue (V) 50/60 Hz	AC 400		AC 400		AC 400		AC 400		
Flashover distance (mm)	≤ 50		≤ 50		≤ 100		≤ 100		
Rated ultimate short-circuit breaking capacity Icu (kA)	50		50		65		75		
Rated operating short-circuit breaking capacity Ics (kA)	35		35		42		50		
Rated short-time withstand current Icw (kA) / 1 s	-		-		5		10		
Use category	A		A		B		B		
Electrical life (times)	8000		8000		7500		7500		
Mechanical life (times)	Maintenance	20000	20000		10000		10000		
	Free maintenance	40000	40000		20000		20000		
Outline dimensions (mm)	Width	92	122	107	142	150	198	210	280
	Length	150		165		257		280	
	Height	92		90		106.5		115.5	

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