

Thermal Magnetic MCCB (FROM 63 TO 630A)



Features

- Thermal overload elements automatically re-rate themselves for variations in ambient temperature, safeguarding cables and equipment under high ambient conditions and permitting safe loadings under low ambient conditions.
- Fast electromagnetic trip action under short circuit conditions.
- Thermal magnetic circuit breakers are ideal as upstream circuit breakers in cascading systems.
- Thermal magnetic circuit breakers can be mounted horizontally, vertically or on their sides, the mounting position does not change the tripping characteristics.

Applications

- Thermal magnetic circuit breakers are ideally suited for motor short circuit protection, these breakers have been specifically designed for use with contactor – overload protection combinations. The breaker’s magnetic settings can be matched to the kW rating of a motor.
- Thermal circuit breakers can be calibrated to operate at a specific ambient temperature.
- Trip button (push to trip) for mechanically confirming the operation of auxiliary switches and the circuit breaker.
- Thermal memory inherent in design.
- General Distribution
- Commercial Buildings
- Light / heavy Industrial plants

Technical Data

Type		VTM6-125			VTM6-250			VTM6-400			VTM6-630		
Certifications / Standards		SANS/IEC60947-2											
frame rated current Inm (A)		125			250			400			630		
No. of Poles		3P/4P			3P/4P			3P/4P			3P/4P		
Rated Current In (A)		80A、100A、125A			140A、160、180A、200A、225A、250A			315A、350A、400A			400A、500A、630A		
Rated Insulation Voltage, Ui (V)		1000			1000			1000			1000		
Rated Impulse Withstand Voltag, Uimp (kV)		8			12			12			12		
Rated Operational Voltage,Ue (V)		AC380V/400V/415V AC660V/690V			AC380V/400V/415V AC660V/690V			AC380V/400V/415V AC660V/690V			AC380V/400V/415V AC660V/690V		
Rated working frequency (Hz)		50/60			50/60			50/60			50/60		
flashover distance (mm)		≥50			≥50			≥100			≥100		
Breaking capacity grade		L	M	H	L	M	H	L	M	H	L	M	H
Rated Ultimate Short Circuit Breaking Capacity Icu (kA)	AC380V/400V/415V	35	65	85	45	65	85	65	85	100	65	85	100
	AC660V/690V	20			20			30			30		
Rated Operating short-circuit breaking capacity,Ics (kA)	AC380V/400V/415V	25	50	65	35	50	65	42	65	85	42	65	85
	AC660V/690V	15			15			20			20		
Category		A			A			A			A		
Electrical Life Operations	AC380V/400V/415V	10000			10000			7000			7000		
	AC660V/690V	6000			6000			4000			4000		
Mechanical life (Operations)	maintenance-free	20000			20000			15000			15000		
	maintenance	30000			30000			20000			20000		
Dimensions (mm) (W x L x H))	3 Pole	78×130×115			107×165×136			140×257×163			140×257×163		
	4 Pole	103×130×115			142×165×136			184×257×163			184×257×163		