Product Research Report: Siemens 3VT1703-2EC46-0AA0

1. Product Name

Siemens SENTRON 3VT1703-2EC46-0AA0 Molded Case Circuit Breaker (MCCB)

2. SEO Keywords

- Siemens 3VT1703 MCCB
- Siemens 3VT17 63A circuit breaker
- Siemens SENTRON 3VT1 electronic trip
- 3VT1703-2EC46-0AA0 specifications
- Siemens 3VT economic MCCB
- Siemens 160 frame circuit breaker
- IEC 60947-2 MCCB 63A
- Siemens 3VT ETU breaker

3. Category

Circuit Breaker -> [new] Siemens Circuit Breaker -> Siemens 3VT Series MCCB

4. Product Introduction

Series#: Circuit Breaker -> [new] Siemens Circuit Breaker -> Siemens 3VT Series MCCB
- Siemens SENTRON 3VT1703-2EC46-0AA0 Molded Case Circuit Breaker
- We have large inventory for Siemens SENTRON 3VT MCCB, Molded Case Circuit Breaker 3VT series and related accessories.
- 100% Original and new,In stock by Eaton Company.
- Delivery time: Ready in stock and 1 days for ship out
- MOQ: 1pcs

5. Brand & Model

model：3VT1703-2EC46-0AA0
brand：Siemens

6. Service & Applications

The Siemens 3VT1703-2EC46-0AA0 is a SENTRON 3VT series molded case circuit breaker, Siemens' economic/efficient MCCB line manufactured in accordance with IEC 60947-2 for global markets. This Frame Size 160 model is rated at 63A with a 3-pole configuration and delivers a 36kA rated ultimate breaking capacity (Icu) at 415V AC. The electronic trip unit (ETU), identified by the "E" suffix, provides L (long-delay overload, adjustable 0.4–1.0 × In), S (short-delay short-circuit with adjustable time delay for selectivity), and I (instantaneous short-circuit) protection functions. Rated for operational voltage up to 690V AC with 800V insulation voltage and 8kV impulse withstand, the 3VT1703 features compact dimensions of approximately 105mm (W) × 165mm (H) × 86mm (D), supporting bolt-on terminal connections and DIN rail or direct plate mounting. As part of Siemens' value-line MCCB offering, the 3VT1703 is suitable for distribution feeder protection, motor branch circuit protection, lighting panel boards, and commercial building sub-distribution where cost-effective electronic protection is desired.

7. Specifications Table

Feature	Specification
Order Number	3VT1703-2EC46-0AA0
Product Series	Siemens SENTRON 3VT
Breaker Type	Molded Case Circuit Breaker (MCCB)
Rated Current (In)	63A (fixed thermal setting)
Number of Poles	3-Pole (3P)
Frame Size	Size 160 (3VT17)
Trip Unit Type	Electronic Trip Unit (ETU), Basic (Type E)
Rated Operational Voltage (Ue)	Up to 690V AC
Rated Insulation Voltage (Ui)	800V
Rated Impulse Withstand Voltage (Uimp)	8kV
Breaking Capacity Icu @ 415V AC	36kA
Breaking Capacity Ics @ 415V AC	100% of Icu (36kA)
L Protection (Overload)	Adjustable, typically 0.4–1.0 × In
S Protection (Short Delay)	Adjustable time delay for selectivity
I Protection (Instantaneous)	Adjustable or fixed high setting
Frequency	50/60 Hz
Utilization Category	Category A (non-selective)
Mounting Type	DIN rail (with adapter) or direct mounting plate
Terminals	Bolt-on terminals (standard)
Width (approx.)	105 mm
Height (approx.)	165 mm
Depth (approx.)	86 mm
Standards Compliance	IEC 60947-2 / EN 60947-2

8. FAQ

Q: What is the rated current of the Siemens 3VT1703-2EC46-0AA0?
The rated current (In) is 63A. The "C" in the part number's 7th–8th position decodes to the 63A fixed thermal setting.

Q: What type of trip unit does this model use?
The "E" suffix indicates a basic Electronic Trip Unit (ETU) providing L (overload), S (short-circuit short delay), and I (instantaneous) protection functions.

Q: What is the breaking capacity of the 3VT1703?
The rated ultimate breaking capacity (Icu) is 36kA at 415V AC. Ics equals 100% of Icu for full reliability.

Q: What is the difference between the Siemens 3VT and 3VL series?
The 3VT series is Siemens' economic/efficient line of MCCBs, typically manufactured for value-oriented global markets, while the 3VL/3VA series offer higher breaking capacities and more advanced communication options for demanding applications.

Q: What are the physical dimensions of this 63A breaker?
Approximately 105mm (W) × 165mm (H) × 86mm (D) for the 3-pole 160 frame size. This is a compact form factor suitable for DIN rail or direct plate mounting.

Q: Can the overload setting be adjusted on this model?
Yes, the electronic ETU allows adjustment of the L (long-delay overload) setting, typically from 0.4 to 1.0 × In (approximately 25A to 63A).

Q: Can this breaker be mounted on a DIN rail?
Yes, the 3VT1703 160 frame size can be mounted on DIN rails using an adapter, or directly onto mounting plates for standard installation.

Q: What accessories are compatible with the 3VT1703?
Compatible accessories include auxiliary switches (e.g., 3VT9300-1A alarm switch, 3VT9300-2A auxiliary switch), shunt trips, and undervoltage releases, ordered separately from the base model.