Product Research Report: Siemens 3VT2725-2AA46-0AA0 / 3VT9225

1. Product Name

Siemens SENTRON 3VT2725-2AA46-0AA0 Molded Case Circuit Breaker (MCCB) with 3VT9225 Accessories

2. SEO Keywords

- Siemens 3VT2725 MCCB
- Siemens 3VT27 250A circuit breaker
- Siemens SENTRON 3VT2 thermal magnetic
- 3VT2725-2AA46-0AA0 specifications
- Siemens 3VT9225 spare parts
- Siemens 250A frame MCCB
- Siemens 3VT25 accessories
- IEC 60947-2 MCCB 250A

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 3VT2725-2AA46-0AA0 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：3VT2725-2AA46-0AA0 / 3VT9225
brand：Siemens

6. Service & Applications

The Siemens 3VT2725-2AA46-0AA0 is a SENTRON 3VT series molded case circuit breaker with a Frame Size 250 (250A frame), 3-pole configuration, and thermal-magnetic trip unit delivering reliable overload and short-circuit protection. The standard thermal-magnetic release provides adjustable thermal overload protection with a fixed magnetic short-circuit trip, achieving 35–50kA rated ultimate breaking capacity (Icu) at 415V AC depending on the specific trip unit installed. Rated for operational voltage up to 415V/440V AC with 750V insulation voltage, the 3VT2725 features rear horizontal bolt-on terminals, fixed mounting, and complies with IEC 60947-2 / EN 60947-2. The accompanying 3VT9225 designation refers to either spare parts kits (insulation/connection kits for the 250A frame) or an external rotary operating mechanism for door coupling applications. Typical applications include sub-distribution board incoming and outgoing feeders, industrial panel protection, motor control center (MCC) feeder breakers, and building electrical infrastructure where the 3VT value-line MCCB provides cost-effective reliability.

7. Specifications Table

Feature	Specification
Order Number	3VT2725-2AA46-0AA0
Product Series	Siemens SENTRON 3VT
Breaker Type	Molded Case Circuit Breaker (MCCB)
Rated Current (In)	Up to 250A (frame rating, trip unit dependent)
Number of Poles	3-Pole (3P)
Frame Size	Size 250 (3VT27)
Trip Unit Type	Thermal-Magnetic (adjustable thermal, fixed magnetic)
Rated Operational Voltage (Ue)	AC 415V / 440V
Rated Insulation Voltage (Ui)	750V
Rated Impulse Withstand Voltage (Uimp)	6kV
Breaking Capacity Icu @ 415V AC	35–50kA (trip unit dependent)
Frequency	50/60 Hz
Utilization Category	Category A (non-selective)
Mounting Type	Fixed (bolt-on / base mounted)
Terminals	Rear horizontal terminals (box lugs / threaded inserts)
Width (approx.)	105 mm
Height (approx.)	165 mm
Depth (approx.)	85 mm
Accessory Reference	3VT9225 (spare parts kit or rotary operating mechanism)
Standards Compliance	IEC 60947-2 / EN 60947-2

8. FAQ

Q: What is the rated current of the Siemens 3VT2725-2AA46-0AA0?
The frame is rated for up to 250A. The "25" in the part number indicates the 250A frame size. The actual trip setting depends on the installed thermal-magnetic trip unit.

Q: What type of trip unit does this model use?
Unlike the 3VT17 electronic-trip models, the 3VT2725 uses a thermal-magnetic trip unit with adjustable thermal overload protection and a fixed magnetic short-circuit release.

Q: What is the difference between electronic and thermal-magnetic trip units?
Thermal-magnetic trip units use a bimetallic strip for thermal overload and an electromagnet for short-circuit protection. Electronic trip units (ETU) offer precise digital adjustment, LCD displays, and additional functions like ground fault protection not available on thermal-magnetic units.

Q: What is the 3VT9225 accessory?
3VT9225 typically refers to either spare parts (insulators/connection kits for the 250A frame, code 3VT9225-0A) or a door coupling rotary operating mechanism (code 3VL9275-5T). Siemens often uses 3VL accessories with 3VT frames.

Q: What is the breaking capacity of the 3VT2725?
The rated ultimate breaking capacity (Icu) ranges from 35kA to 50kA at 415V AC, depending on the specific trip unit variant installed.

Q: What are the physical dimensions of this 250A breaker?
Approximately 105mm (W) × 165mm (H) × 85mm (D) for the 3-pole fixed-mount 250 frame. Bottom and top connections are generally interchangeable.

Q: Is the 3VT series compatible with the older 3VL series?
The 3VT series is the newer generation succeeding the 3VL series. While designed to be largely compatible, mounting dimensions and busbar connections should be verified against the existing switchboard prior to replacement.

Q: What auxiliary accessories are available for this model?
Clip-on auxiliary switches (e.g., 3VT9300-1A alarm switch, 3VT9300-2A auxiliary switch) can be added as plug-in modules without modifying the base breaker.