Product Research Report: Siemens 3VT3763-2AA46-0AA0 with 3VT9340 Motor Operator

1. Product Name

Siemens SENTRON 3VT3763-2AA46-0AA0 Molded Case Circuit Breaker (MCCB) with 3VT9340 Motor Operator

2. SEO Keywords

- Siemens 3VT3763 MCCB 630A
- Siemens 3VT3 series circuit breaker 100kA
- Siemens 3VT3763-2AA46-0AA0 specifications
- Siemens 3VT9340 motor operator MCCB
- Siemens SENTRON 3VT MCCB electronic trip
- 3VT3763-2AA46-0AA0 datasheet
- Siemens 630A MCCB 3-pole 690V
- Siemens 3VT motorized circuit 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 3VT3763-2AA46-0AA0 Molded Case Circuit Breaker with 3VT9340 Motor Operator
- 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：3VT3763-2AA46-0AA0 / 3VT9340
brand：Siemens

6. Service & Applications

The Siemens 3VT3763-2AA46-0AA0 is a SENTRON 3VT series molded case circuit breaker rated at 630A frame size with 3-pole configuration and high breaking capacity (100kA at 415V AC, Class H). The "2AA" in the part number indicates the high breaking capacity class. This MCCB is designed for demanding industrial distribution applications requiring high short-circuit withstand capability. The electronic trip unit (ETU) provides precise adjustable L (long-delay overload), S (short-delay short-circuit), and I (instantaneous) protection settings for selective coordination. Rated for operation up to 690V AC with 800V rated insulation voltage and 8kV impulse withstand, the 3VT3763 complies with IEC 60947-2. The accompanying 3VT9340 Motor Operator enables remote electrical opening and closing of the circuit breaker, with the motor charging the spring mechanism automatically when control voltage is applied. The motor operator mounts on the right side of the breaker and supports various control voltage options (24V DC to 250V AC/DC depending on suffix). Typical applications include main incoming protection in industrial distribution boards, motor control center (MCC) incoming units, and critical power distribution systems requiring remote operation capability.

7. Specifications Table

Feature	Specification
Order Number (MCCB)	3VT3763-2AA46-0AA0
Order Number (Accessory)	3VT9340 (Motor Operator)
Product Series	Siemens SENTRON 3VT
Breaker Type	Molded Case Circuit Breaker (MCCB)
Rated Current (In)	630A (Frame Size 3)
Number of Poles	3-Pole (3P)
Breaking Capacity Icu @ 415V AC	100kA (Class H, "2AA" designation)
Breaking Capacity Ics @ 415V AC	100% of Icu (100kA)
Rated Operational Voltage (Ue)	Up to 690V AC; DC: 250V per pole (up to 750V)
Rated Insulation Voltage (Ui)	800V
Rated Impulse Withstand Voltage (Uimp)	8kV
Trip Unit Type	Electronic Trip Unit (ETU)
L Protection (Overload)	Adjustable, 0.4–1.0 × In
S Protection (Short Delay)	Adjustable time delay and current setting
I Protection (Instantaneous)	Adjustable or fixed high-magnetic trip
Motor Operator Model	3VT9340
Motor Operator Voltage	Dependent on suffix (24V DC / 110-130V AC/DC / 220-250V AC/DC)
Motor Charging Time	Approx. 1.5 to 3 seconds
Motor Operating Time (Closing)	Approx. 0.1 to 0.2 seconds after charged
Motor Mounting Position	Right side of the circuit breaker
Motor Mechanical Endurance	Rated for thousands of operations
Motor Degree of Protection	IP40 (when mounted on the breaker)
Mounting Type	Fixed or Plug-in / Draw-out (with separate base kits)
Width (MCCB, approx.)	140 mm
Height (MCCB, approx.)	310 mm
Depth (MCCB, approx.)	147 mm (without terminals)
Weight (MCCB, approx.)	~6.5 kg to 7.5 kg
Connection	Box lugs (standard), cable lugs or busbar adapters (optional)
Standards Compliance	IEC 60947-2
Protection Class	IP40 (enclosed) / IP20 (terminals)

8. FAQ

Q: What is the rated current of the Siemens 3VT3763-2AA46-0AA0?
The rated current (In) is 630A. The "63" in the part number indicates the 630A frame rating.

Q: What is the breaking capacity of this MCCB?
The rated ultimate breaking capacity (Icu) is 100kA at 415V AC (Class H, indicated by "2AA" in the part number). The service breaking capacity (Ics) equals 100% of Icu.

Q: What type of trip unit does this model use?
It uses an Electronic Trip Unit (ETU) with adjustable L/S/I protection settings, providing precise overload and short-circuit protection with selectivity capability.

Q: What is the 3VT9340 accessory and what does it do?
The 3VT9340 is a Motor Operator (Motorized Remote Operating Mechanism) that allows remote electrical opening and closing of the circuit breaker. It charges the spring-closing mechanism via an electric motor.

Q: What control voltage does the 3VT9340 motor operator require?
The control voltage depends on the specific suffix code. Common options include 24V DC, 110-130V AC/DC, and 220-250V AC/DC. Verify the exact suffix on your unit.

Q: Can the 3VT3763 be used for selective coordination?
Yes, the electronic trip unit with adjustable S (short-delay) protection enables selective coordination in complex distribution networks when properly set.

Q: What are the physical dimensions of this breaker?
Approximately 140mm (W) × 310mm (H) × 147mm (D) for the MCCB alone. Adding the 3VT9340 motor operator increases the width by approximately 52mm.

Q: Is this model suitable for DC applications?
Yes, the 3VT series supports DC operation up to 250V per pole (up to 750V when poles are connected in series).