

UNITROL EXCITATION SYSTEMS

Product Data Sheet

3BHE014557R6104

automatic voltage regulators

FUNCTION automatic voltage regulators	FAMILY UNITROL Excitation Systems	ORIGIN Switzerland	WEIGHT 2.82 kg
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UNITROL Excitation Systems 3BHE014557R6104 is a automatic voltage regulators for the UNITROL Excitation Systems. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Supply Voltage	90 - 280 V AC
Frequency	40 - 70 Hz or 45 - 65 Hz
Power Consumption	< 50 VA (Standby)
Voltage	50 - 150 V AC
Max Continuous Current	10 A DC @ 125 V DC
Operating Temperature	-25°C to +70°C (-13°F to +158°F)
Exact Article Code	3BHE014557R6104
Product Family	UNITROL Excitation Systems
Component Type	Automatic Voltage Regulators
Assembly Class	ABB PCB assembly

System Interface	UNITROL Excitation Systems control interface
Control Supply	Documented rack control supply
Connector Interface	Keyed ABB board connectors
Installation Format	Plug-in control board
Signal Domain	Control and diagnostic signals

- Sequence aeration control with Automatic Volta: During operation of the blowers and dissolved-oxygen loops, 3BHE014557R6104 provides its specified system function as a automatic volta regulators. During changing oxygen demand, the system uses this function to adjust air delivery from process feedback, helping it stabilize treatment performance.
- Sequence clean-in-place transfer with Automatic Volta: Across the CIP supply and return headers, 3BHE014557R6104 handles its designated signal or control duty as a automatic volta regulators. During sanitation transition, the system uses this function to coordinate valve paths and pump availability, helping it complete sanitation without cross-routing product.
- Govern reactor charging during batch initiation: In the automation chain for the feed valves, vessels and agitators, 3BHE014557R6104 operates in its approved product-family role as a automatic volta regulators. During batch initiation, the system uses this function to sequence the material path against vessel readiness, helping it begin the reaction from a verified state.

Match 3BHE014557R6104 to the installed UNITROL Excitation Systems, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

[ABB UNITROL Excitation Systems documentation](#)

<https://new.abb.com/control-systems>

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