

SQIC-3000 Intelligent Controller



CONTROLLER FUNCTIONS

Monitoring	S1 and S2 voltage, current, phase sequence and frequency
Breaker control	QS1, QTIE and QS2 opening, closing and position feedback
Transfer	Selectable open/closed-transition operation
Operating modes	Manual/automatic transfer and restoration
System stability	Configured voltage-sensing failure detection

GENERAL DESCRIPTION

A microprocessor-based automatic transfer controller designed for medium & low-voltage power systems. It integrates programmable control, current measurement, voltage-sensing wire-break detection, sequential load switching, intelligent load shedding, an LCD display, and Modbus RTU communication over RS485.

The module accurately monitors the three-phase voltages of both incoming power supplies. It detects overvoltage, over/undervoltage, over/underfrequency, phase loss, and reverse phase sequence, and provides volt-free contact outputs for switch control.

It supports both open/closed-transition transfer.

The closed-transition overlap time less than 100ms.

MAIN FEATURES

ENHANCED SOURCE SENSING

Measures three-phase voltage and current from both incoming sources.

COORDINATED SWITCHING

Supports sequential load switching and intelligent load shedding. (Disconnect non-critical loads to ensure uninterrupted power supply to critical loads)

CONFIGURED TRANSFER

Transfer inhibit, open or closed transition, and selectable auto/manual restoration support site-specific operation.

EVENT TRACEABILITY

Stores up to 200 timestamped events records (actuation, operation, warning, fault event) for switching review and fault analysis.

LOCAL AND REMOTE OPERATION

4.3-inch LCD, front-panel controls and Modbus RTU communication support operation and maintenance.

INTEGRATION AND SERVICE

Integrated I/O	12 inputs and 13 outputs (Optional 24 inputs and 24 outputs expansion module)
Communication	Dual isolated RS485 ports, Modbus RTU
USB	Parameter setup and firmware updates
Power supply	PA/PN: 90-305 VAC or 110/220 VDC
Panel cutout	242 × 161 mm
Overall size	260 × 180 × 54 mm
Languages	English, Chinese, and Others (Users can customize language via the host computer software)

SQIC NAMING SYSTEM

SQIC – 3000 – S – CM

CM: Current Measurement
Blank: Without Current Measurement

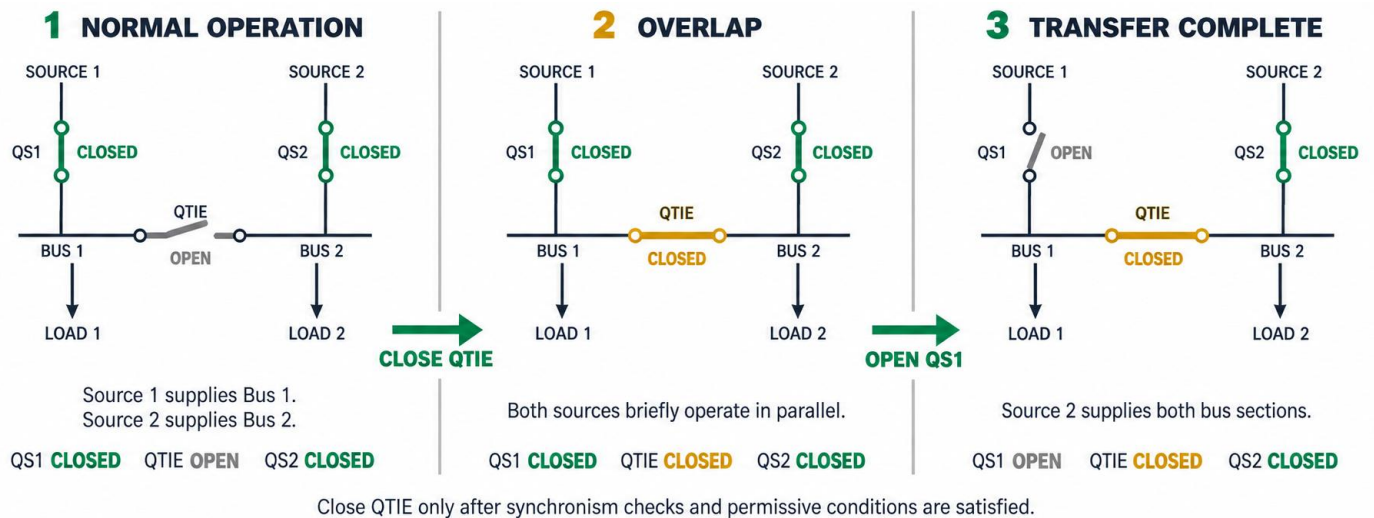
S: Synch. Transfer, Close Transition
O: Open Transition

2000: To control 2 breakers
3000: To control 3 breakers

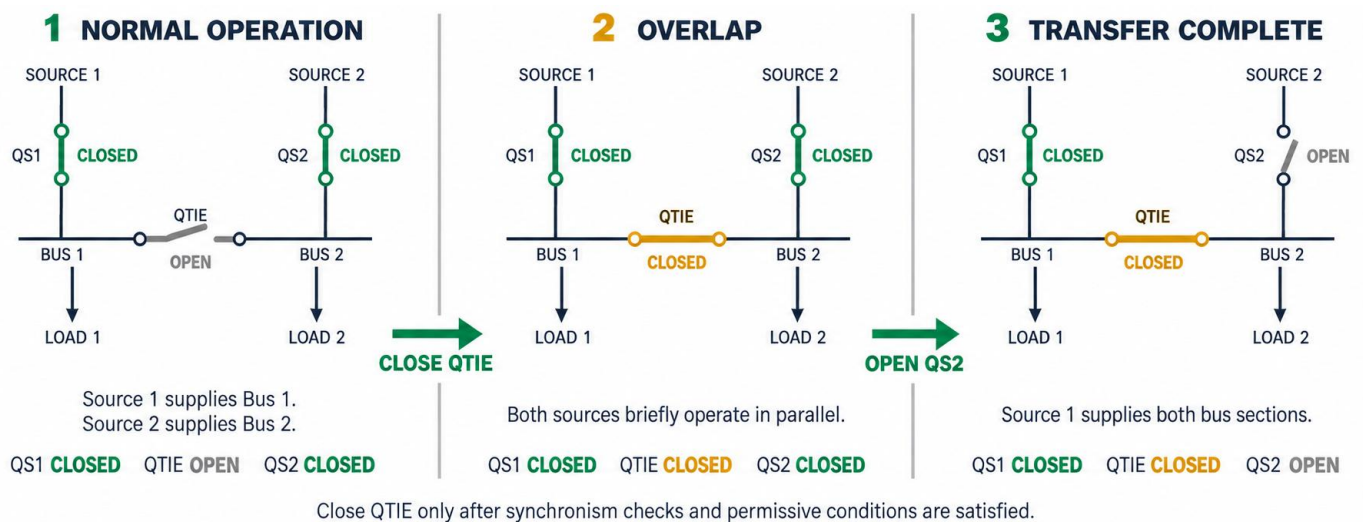
Product Type: SeQuence Intelligent Controller (SQIC)

SQIC-3000 Intelligent Controller

TRANSFER SEQUENCE FROM QS1 TO QTIE



TRANSFER SEQUENCE FROM QS2 TO QTIE



APPLICATIONS



DATA CENTERS



**TELECOM
FACILITIES**



**INDUSTRIAL
PLANTS**



RAIL TRANSIT



**CRITICAL
INFRASTRUCTURE**