

Installation Instructions

IQS450 204-450-000-001

Proximity signal conditioner

TQ442 / IQS450

Before work begins

- 01 Confirm the exact IQS450 204-450-000-001 article number and installed power-section position.
- 02 Place the drive in a safe state, isolate all energy sources and wait the Siemens discharge time.
- 03 Record busbars, connectors, gate leads, cooling connections and protective-earth conductors.
- 04 Use ESD controls and qualified drive-service personnel throughout the replacement.

Model-specific connection checks

Conditioner Type	IQS450 proximity interface
Article Number	204-450-000-001
Matched Sensor	TQ442 proximity sensor
Measurement Principle	Eddy current displacement
Dynamic Range	16 V
Minimum Gap Output	-1.6 V
Output Impedance	500 Ω
Short-Circuit Current	45 mA
Minimum Gap Current	-15.5 mA
Maximum Gap Current	-20.5 mA

Installation sequence

- Inspect the replacement for transport damage, contamination, bent pins and altered keying.
- Install without forcing connectors or busbars; restore all shields, grounds and cooling seals.
- Torque power connections and secure cable supports under the applicable Siemens procedure.

Commissioning and return to service

- 01 Gap voltage verification.
- 02 Check insulation and protective-earth continuity before energising..
- 03 Restore auxiliary and main power in the approved sequence..
- 04 Observe interface, control-unit and power-section diagnostics..
- 05 Test the connected motor or DC-drive function at a controlled operating point..
- 06 Record the final article number, test results and maintenance approval..

This AMIKON installation reference supplements the applicable Siemens controlled documentation and the site safety procedure.
Warranty: 12 months from AMIKON.