AI830A 3BSE040662R1

Technical Reference | verified identity and ratings

Channel performance depends on the selected RTD or resistance range, three-wire connection and the configured 50/60 Hz rejection. Modulebus draw and power dissipation are module-level figures, not sensor-loop supply ratings.

Verified technical data

Product series	S800 I/O
Article number	3BSE040662R1
Input channels	8
Input type	RTD and resistance
Sensor wiring	3-wire
Supported RTDs	Pt100, Cu10, Ni100 and Ni120
Conversion resolution	14 bit
Interference rejection	Selectable 50 or 60 Hz
Input diagnostics	Open circuit, short circuit and ground fault
Modulebus 5 V draw	70 mA
Modulebus 24 V draw	50 mA
Dissipated power	1.6 W

Measurement interpretation

The sensor type and range are chosen per channel. A resistance value becomes a temperature value only when the matching RTD curve is configured in the S800 system.

Open-circuit, short-circuit and ground-fault indications support fault separation between module, MTU and field lead. Check the displayed diagnostic against the actual circuit before replacing hardware.

Evidence and applicability

ABB Compact Hardware Selector AI830A product page and AI830A original technical data PDF.

Eight-channel RTD and resistance specifications apply to the AI830A article 3BSE040662R1; sensor and termination options depend on channel configuration and the selected module termination unit.

Related references

Separate product listings for system review. Verify each application independently.

ABB SPGU240A1

ABB TC520 3BSE001449R1

Enquiry contact

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