

DI803 3BSE022362R1

Digital Input Module — exact-model engineering reference

Exact identity

ABB DI803 3BSE022362R1 is an eight-channel S800 I/O digital input module for 230 VAC or 220 VDC current-sinking field signals. Each channel is individually galvanically isolated and supports selectable input filtering.

System role

Retain the recorded terminal assignment, field-voltage class and filter setting. Verify every channel independently before restoring the affected process function.

FUNCTION 1

Accepts eight current-sinking field inputs in one S800 I/O module.

FUNCTION 2

Keeps every input channel galvanically isolated from the others.

FUNCTION 3

Provides selectable filtering for 2, 4, 8 or 16 ms response behavior.

FUNCTION 4

Uses channel indication and supervision for controlled commissioning checks.

MANUFACTURER EVIDENCE BASIS

- ABB DI803 product page
- ABB S800 I/O hardware selector

External manufacturer URLs are intentionally omitted from this document.

Verified technical parameters

Manufacturer-supported facts for the complete exact model

Product family	S800 I/O / S800L
Function	Digital input module
Input channels	8
Field signal	230 VAC or 220 VDC, current sinking
Logic 1 range	164-264 VAC or 175-275 VDC
Logic 0 range	0-50 VAC or 0-40 VDC
Channel isolation	Individually galvanically isolated
Selectable filter	2, 4, 8 or 16 ms
AC frequency	47-63 Hz
Rated insulation voltage	250 V
Input impedance	30 kOhm AC; 134 kOhm DC
Status indication	Channel LEDs and voltage supervision

Parameters not supported by the cited exact-model manufacturer record are intentionally omitted.

Engineering applications

Four bounded uses derived from the documented signal and system role

High-voltage digital sensing

Receives documented 230 VAC or 220 VDC contact-state signals in an S800 I/O station.

Individually isolated inputs

Separates the eight input channels to preserve the intended field-circuit boundaries.

Selectable response filtering

Applies the configured 2, 4, 8 or 16 ms filter to match the approved signal behavior.

Channel service verification

Uses input indication and controller diagnostics to prove each restored field point.

Configuration boundary

DI803 provides eight individually isolated current-sinking inputs with channel status indication. Match the field voltage, filter selection and terminal assignment to the approved S800 I/O configuration before replacement.

Acceptance boundary

Release the module only after all eight assigned points pass independent functional acceptance.

Model-specific technical questions

Eight distinct questions backed by the ABB source record

How many input channels does ABB DI803 3BSE022362R1 provide?

DI803 provides eight digital input channels.

Which field signals are specified for ABB DI803 3BSE022362R1?

It is specified for 230 VAC or 220 VDC current-sinking digital input service.

Are the channels on ABB DI803 3BSE022362R1 isolated?

Yes. Each of the eight channels is individually galvanically isolated.

Which input filters can ABB DI803 3BSE022362R1 use?

The selectable input-filter values are 2, 4, 8 and 16 ms.

What is the logic-1 range for ABB DI803 3BSE022362R1?

The documented logic-1 range is 164-264 VAC or 175-275 VDC.

What is the logic-0 range for ABB DI803 3BSE022362R1?

The documented logic-0 range is 0-50 VAC or 0-40 VDC.

Which AC frequency range applies to ABB DI803 3BSE022362R1?

The documented AC input frequency range is 47-63 Hz.

How should ABB DI803 3BSE022362R1 be accepted after replacement?

Verify each assigned input with a controlled field-state change, channel indication and matching controller diagnostics.

Related ABB control-system pages

Verified public navigation links; not parameter evidence for this model

VERIFIED RELATED ABB PRODUCT PAGES

01	ABB BC810K01 3BSE031154R1 Open verified ApterPower page
02	ABB TB811 3BSE008568R1 Open verified ApterPower page
03	ABB CI857K01 3BSE018144R1 Open verified ApterPower page
04	ABB PM866K01 3BSE050198R1 Open verified ApterPower page
05	ABB CI854AK01 3BSE030220R1 Open verified ApterPower page
06	ABB CI830 3BSE013252R1 Open verified ApterPower page
07	ABB CI840A 3BSE041882R1 Open verified ApterPower page
08	ABB CI801 3BSE022366R1 Open verified ApterPower page

MANUFACTURER EVIDENCE BASIS

- ABB DI803 product page
- ABB S800 I/O hardware selector

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