GE IS220YDIAS1AK

Technical Reference

Document purpose

A concise technical reference for configuration review, electrical limits, certified terminal-board pairing, and service identification.

Product identity

Mark VIeS control discrete input module. Official certification identifies the base catalog number as IS220YDIAS1A.

Electrical input

28 V dc; 0.23 A maximum module input current.

Configuration boundary

Use only with the certified STCIS or TBCIS terminal-board combinations listed in this document.

Identity control: confirm the full supplied marking **IS220YDIAS1AK** against the purchase record and installed unit. The official certification used for the technical limits in this document identifies base catalog number **IS220YDIAS1A**; this document does not assign a meaning to the additional K suffix.

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Identity and certified configuration

GE IS220YDIAS1AK is listed here as a Mark VIeS control discrete input module. The technical data below follows GE certification for base catalog number IS220YDIAS1A; the complete supplied marking remains the controlling service identity.

Item	Verified value
Published model	IS220YDIAS1AK
Official base catalog number	IS220YDIAS1A
Manufacturer	GE Drives & Controls, Inc.
Module type	Mark VIeS Control Discrete Input Module
RoHS internal acquisition board	IS400BPDIS1A
Certified STCIS family	ISx0ySTCIS1A and ISx0ySTCIS2A, where x = 2 or 4 and y = 0 or 1
Certified TBCIS family	ISx0yTBCIS2C, where x = 2 or 4 and y = 0 or 1
User manuals referenced by GE	GEH-6721 and GEH-6725

Pairing control

- Confirm the terminal-board catalog number before replacement or commissioning.
- If the RoHS internal board is required, verify IS400BPDIS1A on the serviced assembly.
- Do not use similarity in connector appearance as a substitute for catalog-number matching.

Configuration notes

The x and y characters in the certified terminal-board family notation are controlled variables: x is 2 or 4, and y is 0 or 1. Preserve the complete fitted terminal-board catalog number in the maintenance record.

The GE declaration lists IS200STCIS1A, IS200STCIS2A, IS400STCIS1A, IS400STCIS2A, IS200TBCIS2C, and IS400TBCIS2C as associated boards for the base module.

When replacing a module, reconcile the full unit marking, internal-board requirement, terminal-board identity, and site documentation as one configuration. A partial text match is not sufficient.

Electrical and environmental limits

Item	Verified value
Input voltage	28 V dc
Maximum module input current	0.23 A
Ambient temperature	-30 °C to +65 °C
Temperature class	T4
Equipment group and category	II 3 G
Protection method	Ex nA [ic] IIC T4 Gc; the later certificate also lists Ex ec [ic] IIC T4 Gc for the same base model
Directive stated in GE declaration	2014/34/EU

The Mark VIe platform is described in the certification as an open-type, microprocessor-based control system used for integrated control, protection, and monitoring of generator and mechanical-drive applications for gas turbines, steam turbines, and other industrial controls. Field devices are installed in a suitable electrical enclosure.

These values are module and certified-configuration limits. Project wiring, protective devices, cabinet design, and site-area classification remain engineering responsibilities.

Classification review

Certificate identity

Confirm the applicable site certificate revision and the base catalog number before using the protection marking.

Enclosure

Install the field-mounted device in a suitable electrical enclosure as required by the certified system description.

Ambient

Use the -30 °C to +65 °C limit for this base model; do not borrow a wider range from another Mark VIe component.

Temperature class

Retain the T4 requirement in cabinet and hazardous-area reviews.

Configuration review workflow

1. Identify

Read the complete unit marking and confirm IS220YDIAS1AK. Cross-check purchase and maintenance records.

2. Match

Verify the STCIS or TBCIS terminal-board catalog number against the certified combinations.

3. Inspect

Check the enclosure, connectors, and board seating before applying control power.

4. Power

Apply 28 V dc and keep maximum module input current within 0.23 A.

5. Environment

Confirm cabinet ambient conditions remain within -30 °C to +65 °C and the required T4 classification.

6. Record

Document the full model, terminal-board catalog number, internal-board identity when applicable, and commissioning result.

System context

In a Mark VIeS installation, IS220YDIAS1AK belongs between the cabinet's discrete field wiring and the controller-side I/O architecture through its approved terminal-board arrangement. Preserve this catalog-number pairing during maintenance so the certified combination remains traceable.

Before energization, verify that wiring and area-classification decisions follow the project's approved drawings and the applicable GE user manual.

Minimum handover record

Item	Verified value
Module identity	Complete marking including IS220YDIAS1AK
Terminal-board identity	Complete STCIS or TBCIS catalog number
Internal-board identity	IS400BPDIS1A when the serviced assembly requires the RoHS configuration
Power verification	Measured 28 V dc and confirmation that maximum module input current is not exceeded
Environmental review	Enclosure, ambient range, T4, and site-classification check
Commissioning result	Authorized point checks and final returned-to-service status

Related GE Mark VIe products

The following verified ApterPower product pages are provided for navigation. They are not substitutes for the model-specific configuration limits in this reference.

Related GE Mark VIe product	Public product page
IS200STCIH2A Contact input terminal board	Open verified product page
IS420UCSBH4A Mark VIe controller	Open verified product page
IS220YDOAS1AJ Safety output pack	Open verified product page
IS200TPROH1C Protection terminal board	Open verified product page
IS200TREAH1A Emergency trip terminal board	Open verified product page
IS200WREAH1A Aero trip terminal board	Open verified product page
IS220PSFDH1A Flame-detector power module	Open verified product page
IS200TBTCH1BBB Control terminal board	Open verified product page

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