01 / Identity and job scope

GENERAL ELECTRIC

IS220PTURH1A

Turbine Trip Module

Product role

General Electric IS220PTURH1A is a Mark VIe turbine-specific primary-trip module used with the IS200TRPAH1A terminal board.

Turbine signals
Speed / voltage / E-stop

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PTUR + TRPA
Primary-trip arrangement

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Trip circuit
Validated protective action

Applicability

The electrical values apply to IS220PTURH1A with the IS200TRPAH1A accessory terminal board. They are connection ratings for that arrangement, not proof of supplied terminal-board inclusion or an independent system safety rating.

Hardware and configuration

The IS220PTURH1A identity belongs to the Mark VIe PTUR turbine-specific primary-trip function. Its specified accessory is IS200TRPAH1A. Treat the module, terminal board and installed turbine wiring as a coordinated arrangement; the terminal-board designation is a pairing requirement and does not mean that the board is included with the offered module.

Planning basis

This Apter Power guide supports identification and engineering planning. Apply the complete manufacturer and machine-builder procedures for the actual installation.

02 / Configuration and interface readiness

Item	Configuration relationship
Control platform	Mark VIe
Function	Turbine-specific primary trip
Accessory terminal board	IS200TRPAH1A
Power supply	28 V DC
Supply current	0.41 A DC
Speed input range	−15 to +15 V DC
Voltage input range	16–140 V DC

Technical context

The paired arrangement is rated for a 28 V DC power supply at 0.41 A DC. Its speed input is specified from −15 to +15 V DC, voltage input from 16 to 140 V DC and emergency-stop input from 18 to 140 V DC. These interface ranges serve different circuits and must not be interchanged when checking the installed terminations.

What supply rating applies to IS220PTURH1A?

The IS220PTURH1A and IS200TRPAH1A arrangement is specified for 28 V DC at 0.41 A DC.

What speed-input range is specified for IS220PTURH1A?

The paired arrangement specifies a speed-input range of −15 to +15 V DC.

03 / Installation and connection decisions

Confirm the board pairing

Use the specified IS200TRPAH1A terminal-board arrangement.

Isolate trip circuits

Follow the site procedure before disturbing powered protection or emergency-stop wiring.

Distinguish input ranges

Do not interchange speed, voltage and emergency-stop input circuits.

Interpret boundary ratings

Keep open-circuit voltage separate from short-circuit current when reviewing the E-stop output.

Installation context

The emergency-stop power output is specified at 28 V DC open circuit and 17 mA DC short circuit; the contact output is rated at 28 V DC, 7 A DC. The open-circuit and short-circuit values describe boundary conditions, not a single normal operating point. Verify field loads, trip wiring and the approved functional test before returning the turbine protection arrangement to service.

What voltage-input range is specified for IS220PTURH1A?

The voltage input is specified from 16 to 140 V DC for the identified module and terminal-board pairing.

What emergency-stop input range applies to IS220PTURH1A?

The emergency-stop input is specified from 18 to 140 V DC.

04 / Functional acceptance planning

Application	Controlled review
Turbine primary trip	Integrate the PTUR module in the approved Mark VIe turbine trip arrangement.
Speed-signal integration	Match the speed-signal circuit to the specified input range and terminal assignments.
Emergency-stop circuits	Review input and power-output boundaries against the complete emergency-stop wiring.
Protection maintenance	Retain the PTUR and TRPA pairing and validate trip behavior under the authorized test procedure.

How should the emergency-stop power-output values for IS220PTURH1A be interpreted?

28 V DC is the open-circuit value and 17 mA DC is the short-circuit value. They are distinct boundary conditions, not a combined normal load rating.

What contact-output rating is given for IS220PTURH1A?

The paired arrangement specifies 28 V DC, 7 A DC. Check the field load and complete trip-circuit design before commissioning.

Release boundary

Validate the complete turbine trip arrangement before release; a module replacement is not a system-level acceptance test.

Record
Keep the original configuration

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Test
Observe controlled response

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Release
Authorize normal operation

05 / Technical handover and support

Retained information

Keep the complete IS220PTURH1A marking, host identity, connection photographs, configuration backup and controlled-test results in the service record.

Support planning

Confirm current support and replacement guidance with General Electric for the installed identity and configuration. Apter Power availability and dispatch are separate quotation matters.

Reference basis

GE Mark VIe Programmable Controller System, DEMKO 12 ATEX 1114875X Rev. 18.

Apter Power technical summary; not a manufacturer-issued manual. Apply the original instructions for the actual installation.

Related industrial automation products

Navigation only; no substitution or compatibility claim.

General Electric UR8MH

General Electric 531X133PRUALG1

General Electric IS420UCSCH1A-H-V0.1-A

Discuss your installed configuration

Send the full unit marking and connection details.

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