MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

GENERAL ELECTRIC

IS200TRPGH1BCC

PRIMARY TRIP TERMINAL BOARD

Used with the applicable Mark VI TRPG H1B Primary Trip configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Original GEH-6721G primary-trip comparison chart p.567, explicit TRPGH1B row

Trip Board Comparison

The following table compares existing primary trip boards to STUR.

Trip Board Comparison Chart

Board	TMR/Simplex	Output Contacts 125 V	Output Contacts 24 V	Estop	Sync Support	Trip Output Count
TRPGH1B	TMR	1A	No	No	Yes	3
TRPGH2B	Simplex	1A	3A	No	Yes	3
TRPLH1A	TMR	1A	3A	Yes	Yes	3
TRPSH1A	TMR/Simplex	1A	3A	Yes	Yes	3
TRPAH1A	TMR	No	5A	Yes	No	2
TRPAH2A	TMR	1A	No	Yes	No	2
STURH1A	Simplex	0.5A	5A	No	No	2
STURH2A	Simplex	0.5A	5A	No	Yes	2
STURH3A	Simplex	(TRPx)	(TRPx)	No	No	(TRPx)
STURH4A	Simplex	(TRPx)	(TRPx)	No	Yes	(TRPx)

Simplex Turbine Applications

In simplex applications STUR accepts up to four pulse rate signals used to measure turbine speed. The PT signals provide voltage input from both sides of a 52G circuit breaker permitting automatic synchronization to be performed. The on-board trip relays provided by the H1 and H2 groups of STUR create a self-contained overspeed and synchronizing function. It is also possible to use the H3 or H4 group of STUR in a simplex application with a simplex trip terminal board cabled into STUR using the DC-37 pin connection.

TMR Turbine Applications

Three STUR/PTUR combinations can be used where TMR applications are needed. A typical application would use a TMR trip terminal board with group H3 or H4 of STUR. This provides trip relay outputs that are wired to vote on the terminal board. It is possible to use three H1 or H2 STUR boards in a TMR normally open tripping configuration as each trip relay provides two normally open contacts. When this is desired the STUR provides two parallel customer terminals on select points to allow TMR relay contact voting wiring to be installed without two wires under one terminal.

Specification

Item	Specification
Number of inputs	4 passive or active speed pickups
	1 generator and 1 bus voltage potential transformer (H2, H4)
	1 generator breaker status contact. (H2, H4)
Number of outputs	2 Primary trip relays (H1, H2)
	2 Synchronizing relays (H2, H4)
	1 DC-37 connector for primary trip terminal board (H3, H4)
MPU pulse rate range	2 Hz to 20 kHz
MPU pulse rate accuracy	0.05% of reading
MPU input circuit sensitivity	27 mV pk (detects 2 rpm speed)