TECHNICAL REFERENCE / EXACT-MODEL DOSSIER

WESTINGHOUSE 1C31222G01 5A26458G05

Form X Relay Output Assembly

WESTINGHOUSE 1C31222G01 5A26458G05 is a twelve-channel Ovation KUEP Form X relay-output assembly combining the documented base with a complete relay kit.

IDENTITY AND FUNCTION SNAPSHOT	
H1 Twelve KUEP Form X relays	**H2** 10 A at 240 VAC, PF 0.8
H3 10 A at 150 VDC	**H4** Complete G05 labeled assembly

Installed-system position

1	Ovation output command
2	Relay-output electronics
3	1C31222G01 base and G05 relays
4	Field load

Exact-model release boundary

Identity Keep WESTINGHOUSE 1C31222G01 5A26458G05 complete in drawings, labels and acceptance records.	**Evidence** Use only the exact-model and explicitly applicable family facts documented here.
Configuration Record cables, jumpers, settings and the installed functional position before work.	**Acceptance** Prove the affected control path before returning the equipment to service.

02 / SYSTEM ROLE AND INTERFACES

Architecture, interfaces and service boundaries

WESTINGHOUSE 1C31222G01 5A26458G05 switches high AC and DC field loads through twelve electromechanical Form X channels. Contact ratings, auxiliary power, branch voltage and cabinet temperature must all be checked together.

CONTROL PATH	
1	Ovation output command
2	Relay-output electronics

3	1C31222G01 base and G05 relays
4	Field load

Interface architecture

Logic boundary	Ovation relay-output electronics commands
Coil boundary	Ovation auxiliary power feeding the relay base
Contact boundary	Twelve isolated Form X switching paths
Field boundary	External current-limited AC or DC loads

Interface acceptance checks

1

Isolate auxiliary coil power and every switched circuit before handling WESTINGHOUSE 1C31222G01 5A26458G05.

2

Preserve the complete base-and-kit identity; do not shorten or split the model record.

3

Record all twelve relay assignments, contact wiring and safe states before removal.

4

Provide the external current-limiting protection required by each field load.

Engineering rule

A nearby WESTINGHOUSE family code does not establish interchangeability with 1C31222G01 5A26458G05; use the physical nameplate and controlled site records.

ENGINEERING SUMMARY / MODEL-SPECIFIC CHECKPOINTS

- Logic boundary: Ovation relay-output electronics commands
- Coil boundary: Ovation auxiliary power feeding the relay base
- Contact boundary: Twelve isolated Form X switching paths
- Field boundary: External current-limited AC or DC loads

03 / VERIFIED TECHNICAL DATA

Engineering matrix and component map

Every populated row is a technical value supported by the reviewed exact-model record or an explicitly applicable WESTINGHOUSE family source.

Product class	KUEP Form X relay-output assembly
Relay count	12
Base assembly	1C31222G01
Panel kit	5A26458G05
Contact type	Form X electromechanical
AC contact rating	10 A at 240 VAC; PF 0.8
DC contact rating	10 A at 150 VDC
Operate time	15 ms typical, excluding bounce
Release time	10 ms typical, excluding bounce
Auxiliary power	15.9 W typical; 20.41 W maximum
Operating temperature	0 to 60 °C
Storage temperature	-40 to 70 °C

CHANGE CONTROL

Record

Capture the full model, revision, slot, connectors and as-found condition.

Compare

Match every populated technical row to the replacement and project record.

Protect

Apply controlled isolation, stored-energy and ESD practices.

Prove

Complete the product-specific functional and safe-state checks.

Source applicability

Evidence record	Applicable scope
Ovation I/O Reference Manual OW350_R1150, Relay Output base and 5A26458G05 panel-kit sections	Supports only the exact-model or explicitly applicable family facts used in this document.

04 / SERVICE LOGIC AND ACCEPTANCE

Fault isolation and controlled return

1	Capture the fault, indicators and surrounding-system state
2	Verify exact identity, power boundary, cabling and installed position
3	Test WESTINGHOUSE 1C31222G01 5A26458G05 against the approved service procedure
4	Correct the isolated cause and restore the recorded configuration
5	Commission the affected path and archive measured evidence

Eight product-specific precautions

1 Isolate auxiliary coil power and every switched circuit before handling WESTINGHOUSE 1C31222G01 5A26458G05.	**2** Preserve the complete base-and-kit identity; do not shorten or split the model record.
3 Record all twelve relay assignments, contact wiring and safe states before removal.	**4** Provide the external current-limiting protection required by each field load.
5 Keep the relay branch on the documented +24 V auxiliary-power arrangement.	**6** Verify J10/J11 grounding on the cabinet power-distribution module before energization.
7 Check relay operate and release action without exceeding the contact ratings.	**8** Release the assembly only after every used channel, load response, fuse and safe-state function passes acceptance.

05 / ENGINEERING FAQ AND SUPPORT

Model-specific engineering decisions

Engineering decision	Controlled response
How many relay channels are in WESTINGHOUSE 1C31222G01 5A26458G05?	The assembly contains twelve KUEP Form X relay channels.
What does the 5A26458G05 portion of WESTINGHOUSE 1C31222G01 5A26458G05 identify?	It identifies the complete kit with relay electronics, the 1C31222G01 base, twelve Form X relays and a country-of-assembly label.
What AC contact rating applies to WESTINGHOUSE 1C31222G01 5A26458G05?	The Form X contacts are rated 10 A at 240 VAC with power factor 0.8.
What DC contact rating applies to WESTINGHOUSE 1C31222G01 5A26458G05?	The Form X contacts are rated 10 A at 150 VDC.
What timing is documented for WESTINGHOUSE 1C31222G01 5A26458G05?	Typical operate time is 15 ms and release time is 10 ms, both excluding bounce.

Engineering decision	Controlled response
What auxiliary power is documented for WESTINGHOUSE 1C31222G01 5A26458G05?	The Form X assembly uses 15.9 W typical and 20.41 W maximum auxiliary power.
Which operating range applies to WESTINGHOUSE 1C31222G01 5A26458G05?	The documented operating range is 0 to 60 °C.
Which functional tests authorize return of WESTINGHOUSE 1C31222G01 5A26458G05?	Verify coil power, grounding, each relay command, contact continuity under the approved test load, timing and safe-state action.

Related Apter Power references

Related Apter Power references	Scope note
WESTINGHOUSE 5X00121G01	Portfolio reference only; verify compatibility independently.
WESTINGHOUSE 5X00167G01	Portfolio reference only; verify compatibility independently.
WESTINGHOUSE 5X00226G04	Portfolio reference only; verify compatibility independently.

	Apter Power technical support sales13@apterpower.com +86 180 3023 5313 www.apterpower.com	Model record WESTINGHOUSE 1C31222G01 5A26458G05 Form X Relay Output Assembly Verify the complete nameplate before installation.

ENGINEERING SUMMARY / MODEL-SPECIFIC CHECKPOINTS

- Exact model: WESTINGHOUSE 1C31222G01 5A26458G05
- Retain nameplate, wiring and as-left acceptance evidence.
- Use only the Apter Power links contained in this document.
- Verify compatibility independently before installation.