ICS Triplex T8240

01 / Map the actual load and reserve

1 Identify the supported bus

Trace the loads supplied by this shelf and record which other shelves, if any, feed that same bus. Distinguish an independent backup bus from another shelf on the common output.

2 Assess one-pack loss

Compare the actual load with the capacity remaining after the intended pack loss. Include the project load allowance and protection coordination; an unloaded bench test does not demonstrate redundant service.

Load evidence	Measured or engineered load and expected peak
Reserve evidence	Capacity remaining after the specified loss
Bus identity	Confirmed common bus or separate A/B assignment

Capacity versus redundancy

2250 W total and 1500 W with one-pack redundancy are different loading cases. The full-load capacity does not provide one-pack redundancy.

02 / Inspect mains and DC terminations

1 Match feeder to position

Identify all three AC connections and their retained plugs. Trace each pack position to its approved supply source before any isolation work.

2 Preserve the output reference

Compare V+, V− and frame-ground connections with the distribution drawing. Inspect ring terminals and the M4 output connection arrangement without assuming a floating output removes grounding obligations.

AC inspection	Assigned source and retained connector
DC inspection	Correct polarity and sound ring termination
Grounding check	Frame and DC-reference arrangement agree with design

Very low load

Below 2 A per installed pack, current sharing may not operate correctly and PWR OK may remain unlit. Investigate load conditions before condemning a pack solely from that indication.

ICS Triplex T8240

03 / Reconstruct sharing and addresses

1 Follow the bus through TC-323

Check that all linked shelves feed the same busbar. Tie back unused cable connectors and keep independent supplies out of the sharing chain.

2 Record each address

Where a controller is used, retain the J1/J2 combination assigned to each Power Port. Resolve duplicate addresses before energization and use the original startup procedure.

Interconnect	Same-bus shelves only
Address record	Unique identifier for each controller shelf
Unused connectors	Secured and left unconnected

Output connection

Use suitable ring-type connections on the M4 output screws and preserve the engineered busbar and grounding arrangement.

04 / Test alarm interpretation under load

1 Observe healthy operation first

Compare pack indications, bus voltage and the alarm inputs at a representative approved load. Record any low-load condition that could affect current sharing.

2 Exercise an authorized fault

Perform only the approved loss test while monitoring the retained supply and process state. Confirm that the expected pack channel changes and that the remaining capacity sustains the agreed load.

Healthy baseline	Voltage, load and diagnostic state agree
Fault response	Correct alarm channel and retained bus behavior
Recovery	Restored sharing and expected alarms cleared

Controller startup

Simultaneous energization of several shelves can create address-recognition problems and an excessive bus voltage. Follow the exact system startup procedure; do not improvise a sequence from shelf position alone.

ICS Triplex T8240

05 / Close spare positions and release

1 Check intentional omissions

Use the correct shields for empty pack slots and verify the specified links for their alarm contacts. Remove temporary test arrangements before release.

2 Retain a usable service record

Record pack count, bus topology, addresses, load and test outcomes together. This lets a later technician distinguish a designed spare position from a missing or failed supply.

Physical closure	Spare positions correctly covered
Alarm closure	Only intentional empty-slot contacts linked
Handover	Final topology and acceptance evidence retained

Other automation product references

Foxboro P0922YU FPS400-24

Honeywell 10302/2/1

Honeywell FC-PSU-UNI2450U V1.0

Separate references; no replacement or compatibility is implied.