Emerson A6371-10

01 Map the original trip circuit

1 Identify the backplane

Confirm A6371/10 and capture the complete terminal strip. Do not infer the version from rack appearance.

2 Keep channel identities separate

Label Trip A, B and C commons and changeover contacts before disconnecting wires.

Trip A	7 common / 8 NC / 9 NO
Trip B	10 common / 11 NC / 12 NO
Trip C	13 common / 14 NC / 15 NO

A6371-10

02 Inspect assembly interfaces

1 Check the monitor positions

Inspect all three F48 interfaces and verify that the installed monitor types are consistent.

2 Identify auxiliary functions

Trace Out2 and Out3 to their external circuits and retain their configured function and 2oo3 relationship.

Out2	1 common / 2 NC / 3 NO
Out3	4 common / 5 NC / 6 NO
Trip logic	Separate, not voted by this backplane

03 Restore redundant power

1 Check feed polarity

Verify positive and return conductors at both input pairs, including the common-return design.

2 Verify supply capability

Test both feeds individually under the approved maintenance procedure and confirm the assembly remains within its voltage boundary.

Feed pairs	16/17 and 18/19
Voltage	19–31.2 VDC
Capability	At least 30 W for the system

04 Test relay loading and voting

1 Match load category

Compare the real switched circuit with the specified contact category. Do not apply the AC1 value to an AC15 circuit.

2 Exercise all channel decisions

Test each trip relay and the external voting response, then check the two auxiliary voted functions.

Trip AC1	48 VAC, maximum 4 A
Trip AC15	48 VAC, maximum 3 A
Out2 / Out3	48 VAC / 4 A; 30 VDC / 4 A

A6371-10

05 Release the verified assembly

1 Confirm final wiring

Compare terminal labels, contact state and downstream trip indication with the approved circuit drawing.

2 Record protection tests

Retain individual channel results, external voting behavior and redundant-feed tests before removing maintenance overrides.

Technical basis: Emerson AMS 6300 SIS Operating Manual, MHM-97442 Rev. 2.09, October 2026.

Related product navigation

Emerson PR6424/013-140 CON021/914-100

Epro PR6424/014-140 CON021

These are related references, not confirmed substitutes or an automatically approved assembly.