

A6371-10

Trip Backplane

Emerson A6371-10 is the AMS 6300 SIS backplane version with non-voted trip relays for three A6370D speed monitors. It distributes redundant 24 VDC power and exposes independent Trip A, Trip B and Trip C outputs.

BRAND	Emerson	ORIGIN	USA
MODEL	A6371-10	PRODUCT	Trip Backplane
FAMILY	AMS 6300 SIS	SOURCE	Emerson MHM-97442, Rev. 2.08, April 2026; A6371/10 wiring

MANUFACTURER SOURCE RECORD

AMS 6300 SIS Overspeed Protection System Operating Manual
Emerson MHM-97442, Rev. 2.08, April 2026; A6371/10 wiring

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 531
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



A6371-10

Product Overview

SYSTEM FUNCTION

Emerson A6371-10 is the AMS 6300 SIS backplane version with non-voted trip relays for three A6370D speed monitors. It distributes redundant 24 VDC power and exposes independent Trip A, Trip B and Trip C outputs.

FUNCTION 1

Carries three independent speed-monitor channels

FUNCTION 2

Provides non-voted Trip A, B and C relays

FUNCTION 3

Implements 2oo3 logic on auxiliary outputs

FUNCTION 4

Distributes redundant 24 VDC power to the monitor set

TECHNICAL NOTE

Record every Trip A/B/C and Out 2/Out 3 terminal before disturbing A6371-10. After installation, verify both supply feeds, the three independent trip relays and the documented 2oo3 auxiliary output logic without crossing channel identities.

Technical Data and Acceptance

PARAMETER	VERIFIED VALUE
Complete model	A6371-10
System	AMS 6300 SIS
Monitor positions	3 A6370D or A6370D/DP
Trip relay mode	Trip not voted
Independent trips	Trip A, Trip B, Trip C
Auxiliary outputs	Out 2 and Out 3 use 2oo3 logic
Supply	Redundant 24 VDC SELV/PELV
Minimum supply power	30 W
Conformal coating	HumiSeal 1B31 EPA; G3 environment

ENGINEERING BOUNDARY

Record every Trip A/B/C and Out 2/Out 3 terminal before disturbing A6371-10. After installation, verify both supply feeds, the three independent trip relays and the documented 2oo3 auxiliary output logic without crossing channel identities.

Acceptance Path

1 IDENTITY

A6371-10 and all terminal destinations are recorded.

2 POWER

Both redundant feeds support the monitor set.

3 RELAY LOGIC

Independent trips and 2oo3 auxiliary outputs are correct.

4 SYSTEM PROOF

Shutdown interfaces are tested and all bypasses cleared.

Applications and Engineering FAQ

APPLICATION	ENGINEERING CONTEXT
Independent overspeed trips	Routes each A6370D channel to its own trip relay.
Shutdown-system interfacing	Provides terminal connections for Trip A, B and C outputs.
Auxiliary voted annunciation	Produces 2oo3 Out 2 and Out 3 logic.
Redundant power distribution	Feeds the three-monitor set from two 24 VDC SELV/PELV supplies.

Model-Specific FAQ - Part 1

QUESTION	ANSWER
What trip logic is built into Emerson A6371-10?	The /10 version is documented as Trip Not Voted: Trip A, Trip B and Trip C are independent relay outputs.
Are all Emerson A6371-10 outputs non-voted?	No. The three trip relays are independent, while auxiliary Out 2 and Out 3 use 2oo3 logic.
How many A6370D monitors fit Emerson A6371-10?	The backplane is arranged for three A6370D or A6370D/DP speed monitors.
Which terminals carry the independent trips on Emerson A6371-10?	The operating manual assigns Trip A, B and C to terminals 7–15.

FAQ, Related Products and Source

QUESTION	ANSWER
Where are the Emerson A6371-10 power connections?	Redundant supply connections are assigned to terminals 16–19.
What supply is required for Emerson A6371-10?	Use redundant 24 VDC SELV/PELV sources with at least 30 W available for the documented system.
What coating is documented for Emerson A6371-10?	The manual identifies a G3-rated conformal coating using HumiSeal 1B31 EPA.
How should Emerson A6371-10 relay logic be accepted?	Energize each A6370D channel independently to prove Trip A/B/C, then use the approved combinations to verify Out 2 and Out 3 change only under the documented 2oo3 condition.

MANUFACTURER SOURCE RECORD

AMS 6300 SIS Overspeed Protection System Operating Manual
Emerson MHM-97442, Rev. 2.08, April 2026; A6371/10 wiring

Related Products on Apter Power

MODEL	APTER POWER PAGE
Bently Nevada 21000-3 4-05-00-040-03-02	View Bently Nevada 21000-34-05-00-040-03-02
Bently Nevada 21000-3 4-05-00-056-04-02	View Bently Nevada 21000-34-05-00-056-04-02
Bently Nevada 21000-3 4-05-15-029-04-02	View Bently Nevada 21000-34-05-15-029-04-02
Bently Nevada 21000-3 4-10-00-054-04-02	View Bently Nevada 21000-34-10-00-054-04-02
Bently Nevada 21000-3 4-10-00-071-04-02	View Bently Nevada 21000-34-10-00-071-04-02
Bently Nevada 21000-3 4-10-00-078-04-02	View Bently Nevada 21000-34-10-00-078-04-02
Bently Nevada 21000-3 4-10-20-058-04-02	View Bently Nevada 21000-34-10-20-058-04-02
Bently Nevada 21000-3 4-10-20-062-04-02	View Bently Nevada 21000-34-10-20-062-04-02

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



A6371-10