

Emerson - AMS 6300 SIS**A6371/10**

Non-Voted Overspeed Protection System Backplane

Verified model data

Manufacturer	Emerson
Part number	A6371/10
User-supplied punctuation variant	A6371-10
Product family	AMS 6300 SIS
Product type	Non-voted overspeed protection system backplane
Monitor capacity	3 × A6370 protection monitors
Trip architecture	Trip not voted; separate trip outputs
System package association	A6300/P2; A6300/P4 when A6370D/DP is used
Terminal conductor range	0.2 to 2.5 mm ² ; AWG 24 to 14
Wire strip length	8 mm
Dimensions	21.1 × 13.0 × 5.8 cm (W × H × D)

Selection summary

Emerson A6371/10 is the non-voted backplane used with three A6370 monitors in an AMS 6300 SIS overspeed protection system.

It distributes monitor interconnections and presents separate trip outputs rather than the voted relay arrangement provided by A6371/00.

Before replacement, document every monitor position, terminal conductor, trip circuit, sensor and supply connection, backplane-type setting, bypass and site proof-test requirement.

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Net weight	0.49 kg without A6352 rack
Coating	G3 conformal coating; HumiSeal 1B31 EPA

Architecture

- Pair the backplane with three documented A6370 monitors
- Configure each monitor for A6371/10 non-voted operation
- Do not mix voted and non-voted drawings or relay logic

Field Wiring

- Preserve terminal numbers, conductor IDs and shield connections
- Use the documented conductor range and strip length
- Separate trip, supply and sensor circuits according to the approved design

Safety Validation

- Control all bypasses through the site safety procedure
- Test each non-voted trip output independently
- Retain signed proof-test and return-to-service evidence

Application checkpoints

- Non-voted overspeed shutdown architecture
- Separate trip-channel implementation for critical turbines
- AMS 6300 SIS packages requiring independent protection outputs

Evidence boundary: Dimensions and net weight are official A6371/10 backplane values without the A6352 rack. The user-supplied A6371-10 spelling is not the official order-code punctuation.

Source basis: Emerson AMS 6300 SIS operating manual.