



AE1 ALTERNATING RELAYS

DIN-RAIL MOUNTED



Alternating Relays - AE1 Series

17.5MM Din-Rail Mounted

Macromatic/Trystar alternating relays are designed to automatically balance run-time between two loads, most commonly pumps, compressors, or fans, by alternating which device is energized on each operating cycle. By equalizing run-time, these relays help extend equipment life, reduce maintenance costs, and improve overall system reliability.

Offered in the compact 17.5MM DIN-rail mounted form factor, AE1 alternating relays support a wide range of control voltages, duplex or cross-wired configurations, and sequence control. Their slim 17.5MM footprint enables high-density panel designs. Robust industrial construction and straightforward integration make them a trusted solution in HVAC, water/wastewater, industrial processing, and commercial building systems where dependable load sharing is critical.



Benefits

Macromatic/Trystar duplex alternating relays deliver a simple, reliable way to balance runtime across two loads, maximizing equipment life and system uptime while minimizing maintenance and unplanned downtime. By automatically alternating or sequencing loads such as pumps, compressors, and fans, these relays prevent uneven wear and reduce the risk of premature failure. The compact 17.5MM DIN-rail form factor enables high density panel designs without sacrificing performance, making them ideal for modern control panels where space, reliability, and ease of integration are critical.



Key Features

- Automatic load alternation to equalize runtime and extend equipment life
- 17.5MM DIN-rail mounted form factor for compact, space-efficient panels
- Duplex or cross-wired configurations with optional sequence control
- Wide control voltage range to support diverse industrial and commercial systems
- Clear status indication for easy troubleshooting and maintenance
- Industrial-grade reliability designed for continuous-duty applications
- Simple integration into HVAC, water/wastewater, and industrial control systems



Product Series

Series Number

AE1 Series

Description

17.5MM Alternating Relays



Applications

- **Water and wastewater pumping systems** – Duplex lift stations, booster pumps, and sump pumps
- **HVAC systems** – Alternating lead/lag control of compressors, condenser fans, circulation pumps, and cooling towers
- **Industrial process equipment** – Redundant pumps, blowers, or motors requiring even wear and high availability
- **Commercial building systems** – Domestic water pressure booster systems and building utility pumps
- **Irrigation and agricultural systems** – Alternating pump operation to balance usage and reduce downtime
- **Oil & gas and energy facilities** – Auxiliary pumps, cooling systems, and support equipment with duty/standby requirements
- **Material handling systems** – Conveyor drives or motorized subsystems requiring shared duty cycles
- **OEM control panels** – Skid mounted or packaged equipment where compact 17.5 MM DIN-rail components are preferred



Available Options

- Environmentally friendly bulk packaging
- Custom functions and settings (please inquire)