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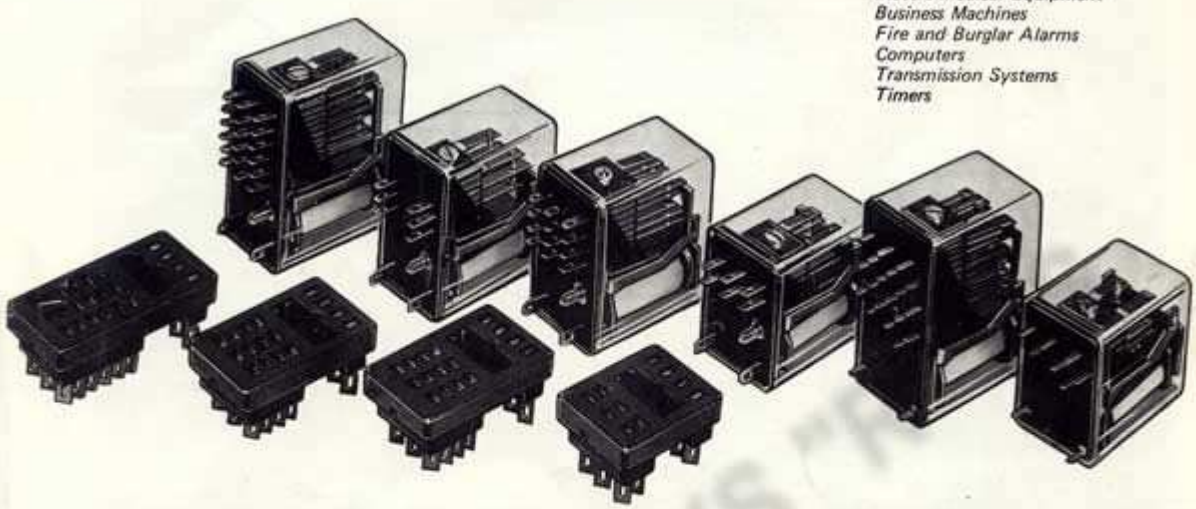
DAVALL RELAYS

APPLICATIONS:
Low level switching in numerous industrial applications:
Telephone Exchanges
Electronic Instruments
Electro-Medical Equipment
Business Machines
Fire and Burglar Alarms
Computers
Transmission Systems
Timers



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Introduction

Davall miniature plug-in relays are manufactured in a wide variety of switching functions, coil resistances and physical configurations to the highest standard of manufacturing quality and technical specifications.

The following general information is given to enable the most appropriate relays to be selected for a specific requirement.

Performance details for each type of relay are given. The Technical Sales Department will be pleased to give any additional advice.

All relays are fitted with a transparent polycarbonate cover.

Davall has a special department available for design and production of non standard relays if no suitable relay is found within these stated parameters.

CONTACT MATERIALS

Production relays are fitted with welded cross bar contacts. The Davall relay is available with a wide range of contact materials to suit any particular switching requirement. The following list is an aid to selecting the appropriate material for the service conditions required but as the correct material is of vital importance to the relay any special requirements should be referred to the Technical Department.

Fine Silver (light duty): code ref A.

Commonly taken as the standard contact material for general purposes. It is suitable for switching heavy currents and has little tendency to stick or weld in service. Silver contacts are normally flashed with gold to protect them against atmospheric tarnishing.

Gold Alloy: code ref B.

One of the most reliable of alloys for all round use, where complete freedom from tarnish at ordinary temperatures is desired. It is hard, long wearing and arc resistant.

Silver/Palladium: code ref C.

This material is 40%/60% Silver/Palladium Alloy. It is not as sensitive to sulphur as pure silver, it is also less likely to burn off and has lower material creep particularly with inductive loading.

Silver Cadmium Oxide 5 amp: code ref D.

Provides a virtually 'unweldable' contact over its entire life span. It is not usually used for switching voltages lower than 50 volts.

95% Gold/5% Nickel: code ref E.

This alloy is arc and weld resistant, hard wearing and a good substitute in many cases for platinum, particularly where conditions are such that there is a risk of polymer formation in the presence of platinum.

Heavy Duty (Silver): code ref H.

This is a large silver contact for use only in the 21/2CH range of relays where higher values of insulation are required.

5 Amp (Silver): code ref S.

Also for heavy duty applications but with contacts small enough to be used in contact configurations usually restricted to lighter duty contacts.

Twin Contacts

Davall relays can be supplied with either single or twin contacts. Twin contacts have a lower contact resistance, higher reliability and better performance than is possible with a single contact of the same current carrying capacity. Relays of this type with Silver/Palladium contacts are specified by British Telecom as the approved type 23.

Contact Ratings

CONTACT	RATING (Resistive Load)
A, B, C, E	1A or 100v DC (Max. 30w)
D, H, S	5A or 270v DC Limits — 100w at 30v or 80w at 50v or 50w at 270v etc.

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