

DC Control Relays

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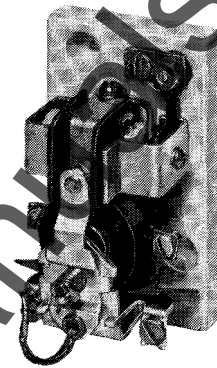
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**GENERAL PURPOSE RELAYS
TYPE J — SINGLE POLE**

JANUARY, 1981

The Class 7001 Type J relay is ideal for controlling small DC motors, solenoids, and other inductive loads. Its effective blow out coil and arc barriers give it the ability to interrupt high DC currents for a device of such small size.

- BLOW OUT COILS
- HORSEPOWER RATED
- UL LISTED▲



Type J-30

Number of Contacts	DC Contact Ratings				Open Type	
	Volts max.	Amperes		Horsepower	Type	Price
		Inductive	Resistive			
1 Normally Open	115	15	15	3/4	J-30	\$74.
	230	5	5	3/4	J-31	88.
	230	.....	10	.....	J-32	88.

APPLICATION DATA FOR TYPE J

Standard Coil Voltages: For operating voltages higher than 115v, a resistor is wired in series with the Type J coil at the factory. All coils are rated for continuous duty at +10% to -20% of nominal voltage.

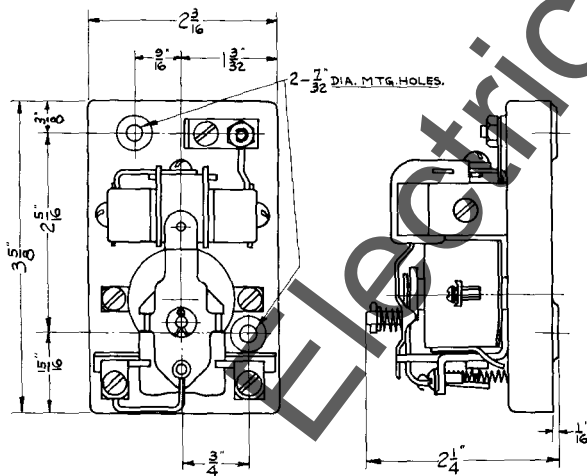
Enclosure: Separately packed NEMA Type 1 sheet steel enclosure for Type J: Class 9991, Type UE-6 **\$28.00.**

▲**UL Listings:** Type J-30 with 115v coil and Type J-31 with resistor and coil for operation at 230v are listed under the UL reexamination service program.

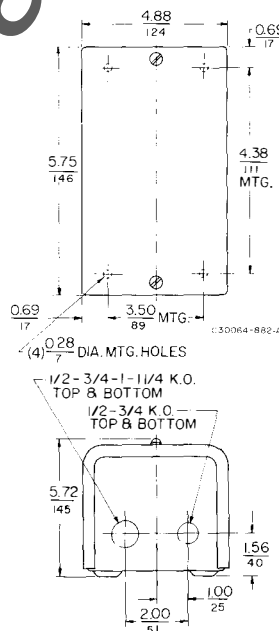
STANDARD COILS

Frequency	Voltage
DC	6, 12, 24, 36, 48, 90, 115, 125, 230○, 250○

○ Not available for Type J-30.



Type J-30, J-31 and J-32
Weight — 1 Lb.



Class 9991 Type UE-6

ORDERING INFORMATION REQUIRED

1. Class and type number
2. DC operating voltage of coil

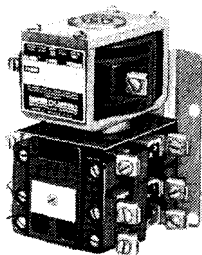


DC CONTROL RELAYS — 600 VOLT TYPE D

**CLASS
7001**

The Type D relay is a fixed contact, heavy duty relay well suited for machine tool type applications where long life and good contact reliability are important. Some of the important features are:

- VISIBLE CONTACTS
 - EASY DISASSEMBLY
- PRESSURE WIRE CONNECTORS ON ALL TERMINALS
 - MOLDED COILS
- 600 VOLT, 10 AMP RATING
 - SMALL SIZE



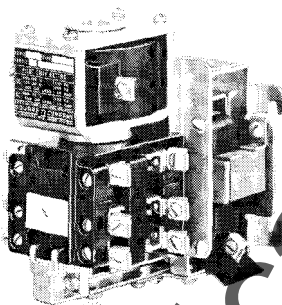
Class 7001
Type DO-42

Description	*Number of Contacts		600 Volt DC CLASS 7001	
	Normally Open	Normally Closed	Type	Open Type Price
2 Pole, Single Throw	2	0	DO-20	\$114.
2 Pole, Single Throw	0	2	DO-02	114.
2 Pole, Double Throw	2	2	DO-22	141.
4 Pole, Single Throw	4	0	DO-40	141.
4 Pole, 2 Double Throw, 2 N.O.	4	2	DO-42	167.
8 Pole, 4 N.O., 4 N.C.	4	4	DO-44	194.
6 Pole, 6 N.O.	6	0	DO-60	167.
8 Pole, 6 N.O., 2 N.C.	6	2	DO-62	194.
8 Pole, 2 Double Throw, 4 N.O., 2 N.C.	6	4	DO-64	220.
8 Pole, 8 N.O.	8	0	DO-80	194.
8 Pole, 6 N.O., 2 Double Throw	8	2	DO-82	220.

*Double throw contacts must be used on same polarity.

LATCHING RELAYS TYPE D

**CLASS
7008**



Type DO-42

The Class 7008 Type D relay is the mechanically held version of the Class 7001 Type D electrically held relay. The mechanically held device consists of a standard electrically held relay and a Class 7008 Type M-1 attachment.

These mechanically held relays must be wired with a normally open contact of the relay in series with the dropout coil of the attachment. This is necessary to insure momentary energization only on dropout. Because of this wiring arrangement these relays have one less normally open contact available for customer use than is listed in the price table.

Description	Number of Contacts		600 Volt DC CLASS 7008	
	Normally Open	Normally Closed	Type	Open Type Price
2 Pole, Single Throw	2	0	DO-20	\$187.
2 Pole, Double Throw	2	2	DO-22	213.
4 Pole, Single Throw	4	0	DO-40	213.
4 Pole, 2 Double Throw, 2 N.O.	4	2	DO-42	240.
8 Pole, 4 N.O., 4 N.C.	4	4	DO-44	266.
6 Pole, 6 N.O.	6	0	DO-60	240.
8 Pole, 6 N.O., 2 N.C.	6	2	DO-62	266.
8 Pole, 2 Double Throw, 4 N.O., 2 N.C.	6	4	DO-64	293.
8 Pole, 8 N.O.	8	0	DO-80	266.
8 Pole, 6 N.O., 2 Double Throw	8	2	DO-82	293.

For Conversion of Class 7001, Type DO, Electrically Held Relay to Mechanically Held		Type	Price
Attachment		M-1	\$33.

Standard Coils	
Frequency	Voltage
DC	12, 24, 48, 115, 230/250

APPLICATION DATA — see Class 8501 Type D relays.

DC CONTROL RELAYS — 600 VOLT TYPE H

JANUARY, 1981

The Class 8501, Type H is a heavy duty relay with electrical clearance distances for up to 600 volts. As such, it is particularly well suited for machine tool type applications where long life, high reliability and easy maintenance inspection are important. The ease

of contact conversion and coil change provides the flexibility needed to take care of last minute circuit changes. Some of the important features are:

- 600 VOLT 15 AMP RATING
- CONVERTIBLE CONTACTS
- N.O. & N.C. INDICATORS
- VISIBLE CONTACTS
- "ADDER POLES" TO INCREASE STOCK FLEXIBILITY
- DC
- CONTINUOUS DUTY COILS

STANDARD COILS

Frequency	Voltage
DC	24, 32, 48, 115/125, 230/250

15 AMPERE DC OPERATED RELAY		
The dc operated relays are similar to the ac operated relays except for the use of a different coil, an economizing resistor and an economizing contact. The economizing circuit is completely prewired at the factory so that field wiring of the coils is a simple two terminal connection.		
Number of Normally Open Convertible Contacts*	CONTROL RELAY	
	Open Type	
	Type	Price
2	HDO-20	\$113.
3	HDO-30	130.
4	HDO-40	139.
6	HDO-60	195.
7	HDO-70	221.

*The above tables list relays with all normally open convertible contacts. For relays having a combination of normally open and normally closed contacts order by description and add \$13. to prices shown.

ORDERING INFORMATION REQUIRED

1. Class and type number.
2. Voltage and frequency of operating coils.

APPLICATION DATA — see Class 8501 Type H relays

CONTROL RELAYS — 300 VOLT TYPE G

- 300 volt 10 Amp Rating
- Single coil selection
- Convertible contacts
- Convertible timer
- Uniform mounting dimensions
- AC and DC operated
- Timing attachments
- Latching attachment
- Universal pole attachment
- Captive pressure wire connectors

The Type G control relay and its accessories provide a complete system designed to do a complete job — and do it better! Because of this "systems" approach, maximum flexibility is assured during panel design, construction, testing and maintenance.

The tables below list relays with all convertible contacts normally open. Relays having a combination of normally open and normally closed convertible contacts can be ordered by description. Add \$8.00 per relay.

DC OPERATED — OPEN TYPE

6-250 VOLT COILS — DC					300 VOLTS MAX.				
No. of Convertible Contacts on Relay (Instantaneous Contacts)	No. of Contacts Normally Open	No. of Contacts Normally Closed	Standard Relay		*†Mechanically Held Relay		Relay Operated Pneumatic Timer		
			Type	Price	Type	Price	OFF Delay	ON Delay	Price
							Type	Type	
0	0	0	GDO-20	\$ 76.	GDO-20-GDL	\$140.	GDO-00-GD	GDO-00-GE	\$172.
2	2	0	GDO-30	84.	GDO-30-GDL	148.	GDO-20-GD	GDO-20-GE	188.
3	3	0	GDO-40	100.	GDO-40-GDL	164.	.....	.....	.....
4	4	0	GDO-60	124.	GDO-60-GDL	188.	.....	.....	.....
6	6	0	GDO-80	148.	GDO-80-GDL	212.	.....	.....	.....
8	8	0					.....	.....	.....

* DC latch attachment has an intermittent rated coil and should be connected through a normally open contact of the relay. Order one more N.O. contact than application requires to accommodate DC latch attachment.
 † For applications where it is desirable that the latch or unlatch coils do not operate continuously, coil clearing contacts are available. See Application Data.

APPLICATION DATA — see Class 8501 Type G relays

Standard Coils	
Frequency	Voltage
DC	12, 24, 48, 115, 230/250

ORDERING INFORMATION REQUIRED

1. Class and type number.
2. Voltage and frequency of operating coil.

