



## No. 0 SINGLE POLE S UNDER VOLTAGE RELAY

### FOLIO 7

### FOR DC OPERATION

#### INSTRUCTIONS

**RATING:** Relay rating is 8, 12, 25, or 50 amperes continuous depending upon blowout coil supplied.

**ELECTRICAL INTERLOCKS:** These consist of stationary contacts mounted on the base and a moving contact attached to the magnet arm. The moving contact should provide  $\frac{1}{8}$ " follow-up when the magnet arm reaches its limit of travel, either completely closed or completely opened. The rating of these electrical interlocks is as follows:

	Max. Inrush	Cont. Amps.	Rupturing Capacity Amps. Inductive			
			115 V.	250 V.	440 V.	550 V.
A.C.	30	10	10	10	5	5
D.C.	30	15	2.5	1.0	.4	.4

**OPERATING COILS:** Continuous duty operating coils are furnished for 115 volts and 230 volts. For 550 volts, the 230 volt coil is used and connected in series with a suitable resistor.

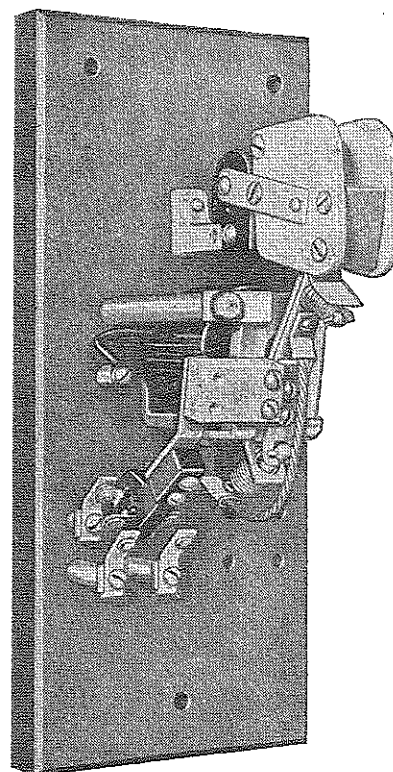
To remove the coil, loosen and rotate the stop plate out of the way and loosen the screws securing the spring retaining plate to the frame. Compress the arm spring and unhook the spring pin from the spring plate. The magnet arm may then be worked out of its bearing, exposing the coil. Remove core cap and coil terminal screws.

The relay will pick up and seal on 80% normal voltage, with the coil hot, will stand 110% voltage continuously, and will hold in to approximately 15% of normal voltage.

Time delay dropout can be provided by the addition of a condenser and resistor to give time delays of .3, .4, .6, or .8 seconds.

**MAGNET AIR GAP:** The air gap is provided by means of a non-magnetic spacer between the core and the frame which are held together by a brass screw. The armature seals directly against the core plate. See that this point of contact is free of any sticky, foreign material.

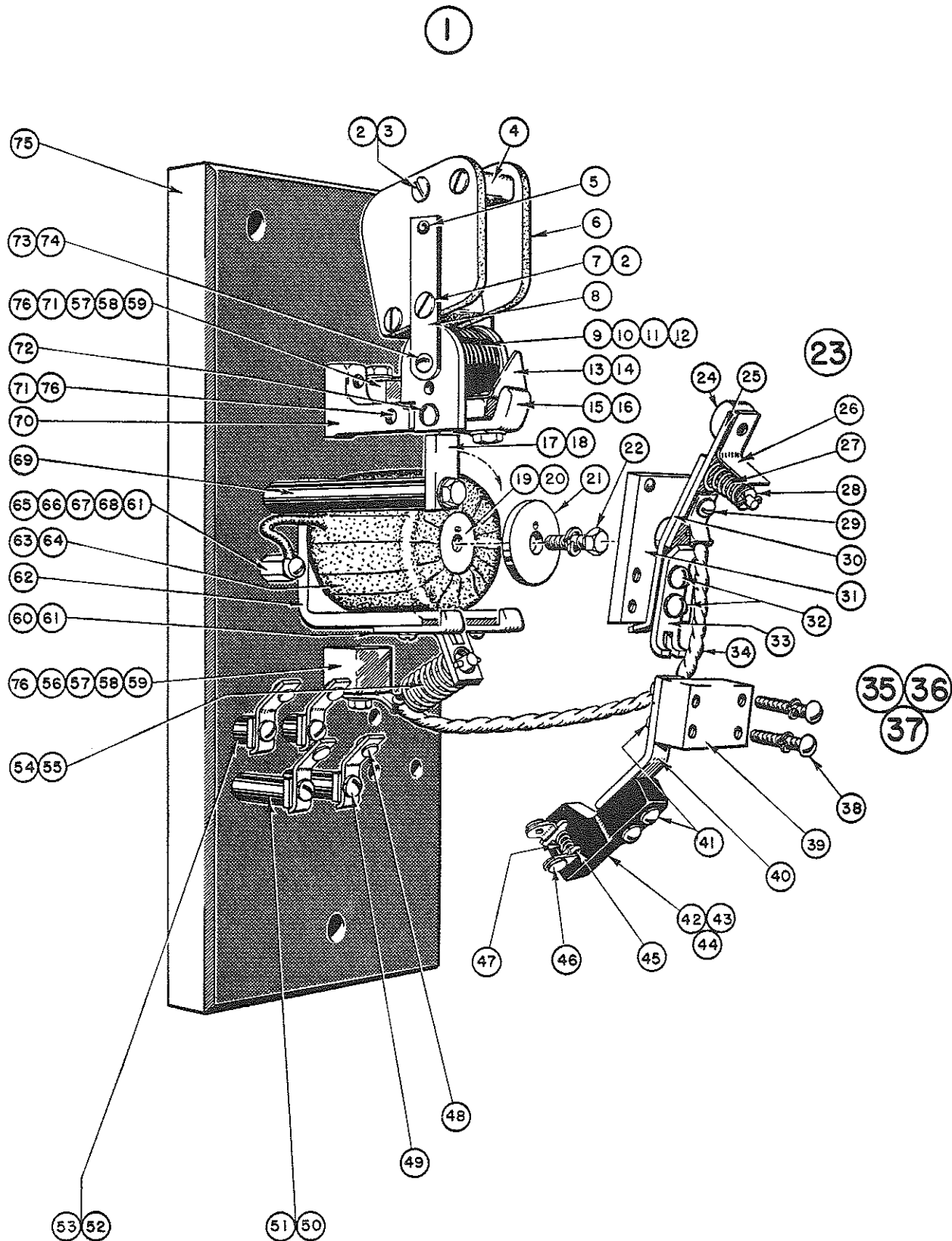
**BEARINGS:** Knife edge bearings are used and require no oiling. After assembly or adjustment, merely see that the knife edge bearing is properly located in its seat so that the arm moves freely. The arm spring has no adjustment but is sufficient to maintain the magnet arm properly in its bearing.



**CONTACTS AND CONTACT SPRINGS:** The contacts have coin silver facing and the follow-up with new contacts is  $\frac{1}{4}$ " which is equivalent to  $\frac{1}{8}$ " when measured on the contact arm opposite the contact spring pin. When contacts wear through the silver facing, the contacts should be replaced. The contact spring pressure is not adjustable. The initial pressure should be approx. one pound, and the final sealed pressure approx.  $1\frac{1}{2}$  pounds. There is sufficient tolerance in the assembly of arms to permit alignment of the contacts. When replacing contact tips, see that they are properly aligned and that the contact springs do not bind. Always have the arc shields fully down when operating the relay under load.

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SEE PAGE 4 FOR ADDITIONAL PARTS

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**NOTE: Indented items are component parts  
 of item immediately preceding.**

Item	Part Number	Description	Item	Part Number	Description
1	SS-0746-A	Assembled Arc Shield, Complete	40	EL-62	Control Circuit Support
• 2	22999-14400	Binding Screw, (4 Req'd.)	41		10 - 24 x 3/4" R.I. Mch. Screw & 3/16" Lk. Washer, (4 Req'd.)
• 3	29418-14120	Binding Post, (3 Req'd.)	42	EL-1-A	Control Circuit Arm, Complete, for Open or Closed Control Circuit (Same as Item 43 except only 1 Item 46)
4	SS-0771	Spacer, (2 Req'd.)			
5		#6 x 3/8" Wafer Hd. U-Drive Screw, (2 Req'd.)	43	EL-2-A	Control Circuit Arm, Complete for Open and Closed Control Circuit
6	SS-0770	Arc Shield, (2 req'd.)	44	EL-47	Control Circuit Arm, only
• 7	29418-14400	Binding Post	45	EL-87	Spring Retainer, (2 Req'd.)
8	SS-0753	Blowout Ear, (2 Req'd.)	†46	EL-84-A	Contact Bridge, (1 Req'd.) for Item 42, 2 for Item 43
† 9	SS-0747-A	Blowout Coil, for 50 Amp. Service	†47	EL-49	Spring
†10	SS-0867-A	Blowout Coil, for 8 Amp. Service	†48	EL-6-A	Contact
†11	SS-0891-A	Blowout Coil, for 12 Amp. Service	49		10 - 24 x 1/2" R.I. Mch. Screw & 3/16" Lk. Washer
†12	SS-0748-A	Blowout Coil, for 25 Amp. Service	50	EL-19	Stud, for 5/8" - 1" - 1 1/4" Base
13	SS-0752	Arc Horn	51	EL-20	Stud, for 1 1/2" - 2" Base
14		#6 x 3/8" R. H. U-Drive Screw, (2 Req'd.)	52	EL-9	Stud, for 5/8" - 1" - 1 1/4" Base
•†15	A50005-042-50	Contact Tip (Silver-Faced)	53	EL-10	Stud, for 1 1/2" - 2" Base
•16		1/4" - 20 x 1/2" H. I. Cap Screw & Lk. Washer	54	SS-0769-A	Spring Pin
17	SS-0805	Stop Plate	†55	SS-0802	Arm Spring
18		1/4" - 20 x 3/4" H. I. Cap Screw & Lk. Washer	56	B5-0502-004-01	Spring Washer
19	S-0107-A	Core	57	SS-0756	Main Terminal Stud, for 5/8" Base
20	SS-0803	Non-magnetic Spacer (at rear of Core, not shown)	58	SS-0757	Main Terminal Stud, for 1" - 1 1/4" Base
21	LT-1067	Core Cap	59	SS-0758	Main Terminal Stud, for 1 1/2" - 2" Base
22		1/4" - 20 x 3/4" H. B. Cap Screw & Lk. Washer	60	SS-0798	Spring Retaining Plate
†23	SS-0755-AS	Assembled Auxiliary Contact Arm, Complete	61		10 - 24 x 3/8" R.I. Mch. Screw & 3/16" Lk. Washer, (2 Req'd.)
•24	A50005-051-50	Contact Tip (Silver Faced)	62	SS-0827-A	Frame
25	SS-0754	Auxiliary Contact Arm, only	†63	SS-0785-AE	Operating Coil, 230 Volt
26	SS-0786	Guard	†64	SS-0782-AE	Operating Coil, 115 Volt
†27	SS-0896	Contact Spring	65	S-0110	Coil Terminal Stud, for 5/8" Base
28	ZS-0349	Spring Guide	66	LTZ-1809	Coil Terminal Stud, for 1" Base
29		8 - 32 x 3/8" R.B. Screw & Lk. Washer	67	LTZ-1810	Coil Terminal Stud, for 1 1/4" - 1 1/2" Base
30	SS-0796-A	Contact Bracket	68	LTZ-1811	Coil Terminal Stud, for 2" Base
31	SS-0922-A	Armature	69	SS-0806	Stop Bar
32		10 - 24 x 1/2" R.I. Mch. Screw & 3/16" Lk. Washer, (2 Req'd.)	70	SS-0750	Contact Bracket
33	SS-0795	Spring Plate	71	ZD-1150	Cup Washer
†34	SS-0828-A	Connector	72		10 - 24 x 1 1/2" R.I. Mch. Screw, #6 Blk. Burr, 3/16" Lk. Washer & Nut (Nut & Washers not shown)
▲35	EL-53-G	Control Circuit, Complete, Normally Closed	73	SS-0781	Blowout Core
▲36	EL-54-G	Control Circuit, Complete, Normally Open	74		10 - 24 x 1 3/4" R.I. Mch. Screw, #6 Blk. Burr, 3/16" Lk. Washer & Nut (Nut & Washer not shown)
▲37	EL-55-G	Control Circuit, Complete, Open & Closed	75		Base, specify thickness
38		10 - 24 x 1" R.I. Mch. Screw & 3/16" Lk. Washer, (2 Req'd.)	76		1/4" - 20 x 1/2" H. I. Cap Screw
39	EL-63	Mounting Block			

† Essential Parts for General Maintenance.

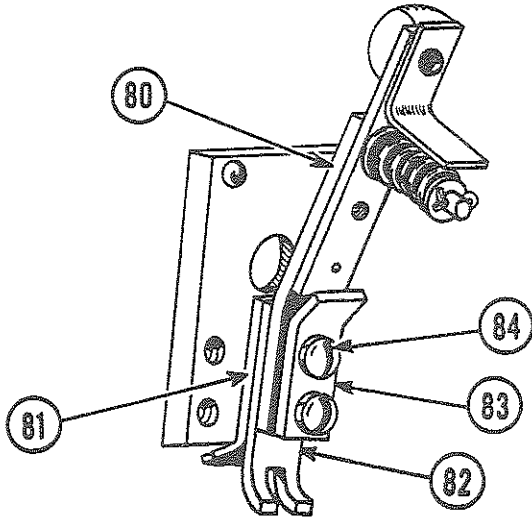
• Minor revision since previous issue.

▲ Advise Base Thickness.

■ Standard hardware, listed without a Square D part number, should be obtained from a local hardware supplier.

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This contact assembly has been changed to provide extra contact wipe. Where greater wipe is needed on existing contactors, the necessary parts can be purchased separately or the new complete assembled contact arm SS-0955-A (as illustrated below) can be installed quickly and easily.



Item No.	List No.	Description
80	SS-0957-A	Assembled Contact Bracket . . . . .
81	SS-0958	Armature Centering Plate . . . . .
82	SS-0960	Spring Plate . . . . .
83	SS-0959	Retaining Plate . . . . .
84		10-24x $\frac{3}{4}$ " R.I. Machine Screw and Lk. Washer

NOTE: Parts not numbered are the same as parts on Page 2.

**ADVISE NAMEPLATE MARKING WHEN ORDERING PARTS**