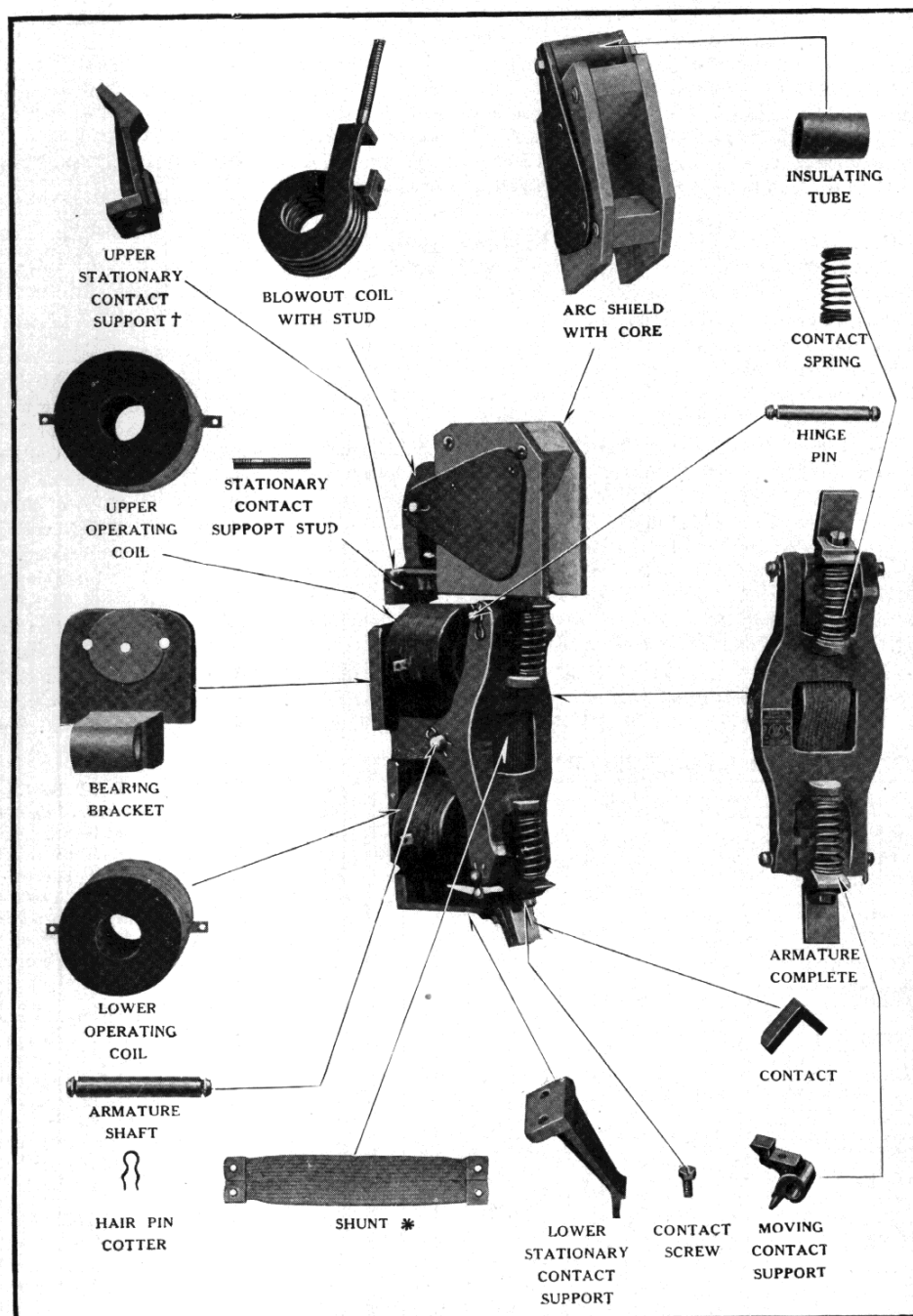


# TYPE C MAGNETIC CONTACTOR

Frames 61-C, 71-C and 81-C

## RENEWAL PARTS DATA



For ordering instructions see page 1

Westinghouse Electric & Manufacturing Company  
East Pittsburgh, Pa.

## TYPE C MAGNETIC CONTACTOR

### Frames 61-C, 71-C and 81-C

### INSTRUCTIONS

#### Description

Type C Magnetic Contactors are direct-current contactors, designed for operating voltages up to 600 volts. Frames 61-C, 71-C, and 81-C are single-pole contactors with a back contact for dynamic braking service. They are supplied with or without magnetic blowouts. The 12 hour current carrying capacities are as follows:

Frame 61-C.....350 amperes  
Frame 71-C.....500 amperes  
Frame 81-C.....800 amperes

These contactors have a cast iron armature and bearing bracket. The bearing pin and armature shaft are made of steel and sherardized to prevent rusting, while all of the cast iron parts are painted. Contactors are designed for mounting on slate panels up to two inches thick.

The arc shields are made of a moulded heat resisting compound and are hinged so that they may be easily raised by hand for inspection of contacts. They are also equipped with arc splitters for quickly cooling, lengthening, and rupturing the arc.

The rolling contacts are interchangeable and are made of hard drawn copper

of sufficient cross sections to give long life. Burning at opening and closing occurs only at the tips of the contacts and does not affect the current carrying surfaces. A slight wiping action when closing insures a clean, low resistance contact area. A steel compression spring gives positive contact pressure regardless of wear, and also produces a quick opening of the contacts.

#### Maintenance

Use no oil or other lubricant on the main copper contacts. The contacts normally wear to give the best contact surface without any attention. The roughened appearance of the contacts is no indication that good contact is not being obtained.

The copper contacts should be renewed when the tips are burned away to the extent that the current carrying surfaces are materially affected. Contacts may be removed by taking out one or two screws. Neglect of this may cause the arc to burn the contact screw making it difficult to remove, or may otherwise damage the contactor.

The bearings of the hinge pin and armature shaft require no lubrication. Oil quickly collects dust, and, unless

parts are frequently cleaned, will interfere with the operation of the contactor.

Arc shields should be renewed before the moulded material is burned away sufficiently to expose the metal poles. The shield may be easily removed by taking out a single bolt.

#### TABLE OF OPERATING COILS

Frame No.	61-C	71-C	81-C
Upper Coils			
Volts	Style Number		
115	368 119	322 105	368 274
230	301 780	301 781	303 703
Lower Coils			
115	368 121	368 271	303 706
230	368 122	368 272	303 705

The operating coil may be easily removed by lowering the armature, disconnecting the terminal leads, and removing a single bolt. Coils are designed to operate the contactor successfully at from 80% to 110% of normal voltage and to stand 110% voltage continuously without overheating. Shunt coils are standard and are impregnated to make moisture and oil resisting, but a series coil may be used on the back contact in special applications.

The sealing surfaces of the magnet core and armature should be kept clean to insure proper contact.

#### RECOMMENDED STOCK OF RENEWAL PARTS

Frame Number of Contactor.....	61-C	71-C	81-C	No. per Contactor	Contactors in Use	
Style Number of Contactor.....					1	5
With Blowout	301002	314315,A	303677,A			
Without Blowout	301006	314319,A	303680,A			
Description of Part	Style Number of Part				Rec. for Stock	
Armature Complete.....	301 449	316 424	305 109	1	0	0
Moving Contact.....	94 401	74 883	293 590	2	2	4
Contact Screw.....	780 767(2)	574 659	780 768	4	2	4
Contact Spring.....	301 451	301 452	301 453	2	0	1
Contact Support-Moving.....	301 433	316 492	305 051	2	0	0
Contact Support Hinge Pin.....	662 248	662 250	662 260	2	0	1
Shunt-Upper.....	517 791	517 795	517 991	1	0	1
Shunt-Lower.....	517 792	517 796	517 992	1	0	1
Stationary Contact Support-Upper.....	301 434	316 529	467 188	1	0	0
Stationary Contact Support with Stud-Lower.....	969 205	969 207	496 487	1	0	0
Stationary Contact Support with Stud.....	969 205	969 207	496 487	2	0	0
Stationary Contact Support Stud.....	361 726	362 212	.....	1	0	0
Stationary Contact.....	94 401	74 883	293 590	2	2	4
Stationary Contact Screw.....	780 767(2)	574 659	780 768	4	2	4
Arc Shield with Core and Insulating Tube.....	279 039	293 586	293 591	1	0	1
Blowout Coil Insulating Tube.....	302 860	332 251	332 256	1	0	0
Blowout Coil with Stud.....	301 440	316 537	305 075	1	0	0
Bearing Bracket with Stud.....	496 485	791 371	.....	1	0	0
Bearing Bracket with Core.....	.....	.....	496 218	1	0	0
Armature Shaft.....	662 267	662 269	662 247	1	0	1
Stationary Core.....	301 439	.....	.....	2	0	0
Stationary Core-Upper.....	.....	316 534	.....	1	0	0
Stationary Core-Lower.....	.....	316 543	.....	1	0	0
Magnet Base with Core.....	.....	.....	496 488	1	0	0
Operating Coil-Upper.....	.....	*See Table	.....	1	1	1
Operating Coil-Lower.....	.....	*See Table	.....	1	1	1

Ø Used only on Contactor with Blowout; = Used only on Contactors without Blowout.

\* When ordering, specify identification number stamped on coil. See table for commonly used coils.

() Figures in parentheses indicate the number required.

† Not Illustrated.

Parts indented are included in the part under which they are indented.

For illustration of parts see reverse side of this sheet.

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