

TYPE F MAGNETIC CONTACTOR, FRAME 11-F5 and 13-F5 RENEWAL PARTS DATA

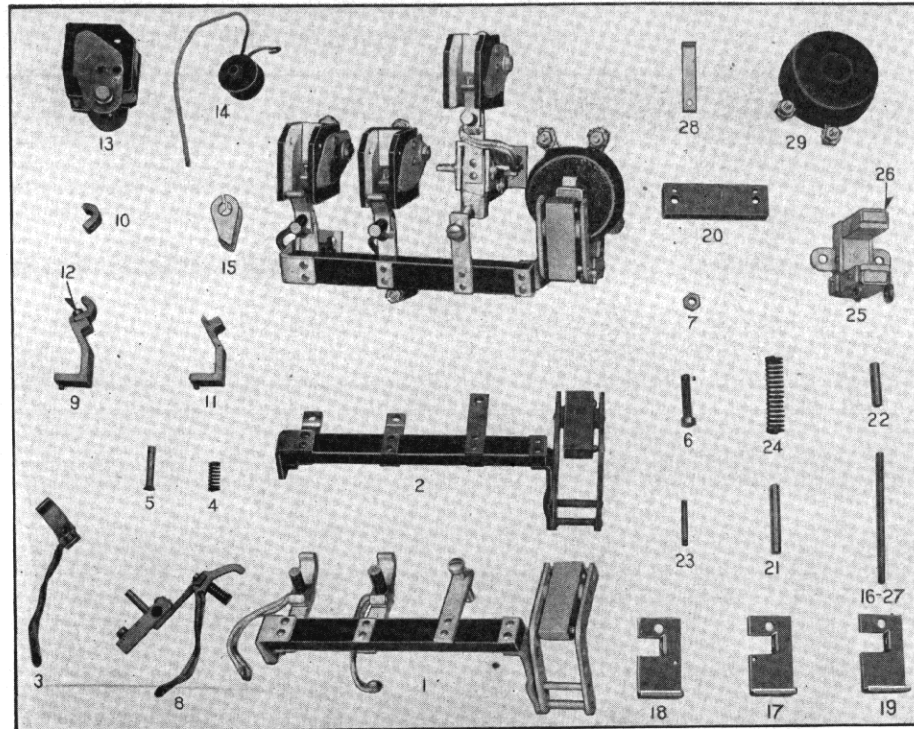


FIG. 2—TYPE F MAGNETIC CONTACTOR, FRAME 13-F5

RECOMMENDED STOCK OF RENEWAL PARTS

Type of Contactor		11-F5	13-F5	No. per Contactor	Contactors in Use	
Style Number of Contactor { With Blowout Without Blowout		844151 842334	783984,A 842335		1	5
Ref. No.	Description of Part	Style Number of Part			Recommended for Stock	
1	Armature Complete.....	1074965	850757	1	0	0
2	Bare Armature.....	1074972	1074964	1	0	0
3	Moving Contact with Shunt.....	807858 (1)	807858	2	2	4
4	Contact Spring.....	478769 (1)	478769	2	0	1
5	Contact Spring Pin.....	486757 (1)	486757	2	0	1
6	Adjusting Screw for Break Contact Operating Arm	997716	997716	1	0	0
7	Adjusting Screw Nut— $\frac{1}{4}$ "—20 Hex. Nut.....	Std. Hdw.	Std. Hdw.	1	0	0
8	Moving Break Contact Complete.....	850759	850759	1	0	0
3	Moving Contact with Shunt.....	807858	807858	1	1	2
5	Contact Spring.....	478769	478769	1	0	1
5	Contact Spring Pin.....	486757	486757	1	0	0
9	Stationary Make Contact Complete.....	1074976 (1)	486753	2	0	0
10	Stationary Contact.....	486756 (1)	486756	2	2	4
11	Stationary Contact Support.....	1074975 (1)	674634	2	0	0
12	Contact Screw" .190-32 x $\frac{1}{2}$ " Fil. Hd. Brace M. Sc.	Std. Hdw. (1)	Std. Hdw.	2	2	4
9	Stationary Break Contact Complete.....	486753	486753	1	0	0
10	Stationary Contact.....	486756	486756	1	1	2
11	Stationary Contact Support.....	674634	674634	1	0	0
12	Contact Screw" .190-32 x $\frac{1}{2}$ " F.l. Hd. Brass M. Sc.	Std. Hdw.	Std. Hdw.	1	1	2
13	Arc Shields.....	497448 (2)	497448	3	0	1
14	Blowout Coil.....	497431 (2)	497431	3	0	1
15	Blowout Coil Support.....	486758 (2)	486758	3	0	0
16	Blowout Coil Stud.....	361707 (2)	361707	3	0	1
17	R. H. Bearing Bracket for Break Contact.....	998107	998107	1	0	0
18	L. H. Bearing Bracket for Break Contact.....	998108	998108	1	0	0
19	Bearing Bracket for Armature.....	514331	514331	1	0	0
20	Spacer for Stationary Contact Support.....	809493	850761	1	0	0
21	Armature Hinge Pin.....	662212	662212	1	0	0
22	Break Contact Hinge Pin.....	662204	662204	1	0	0
23	Break Contact Stop Pin.....	806164	806164	1	0	0
24	Break Contact Return Spring.....	247317	247317	1	0	1
25	Stationary Core.....	512795	512795	1	0	0
26	Shading Coil.....	204950	204950	2	1	1
27	Shunt Stud.....	394826	394826	1	0	1
16	Stationary Contact Support Stud.....	361707 (2)	361707	3	0	1
28	Coil Clip.....	253429	253429	1	0	0
29	Operating Coil.....	*	*	1	1	1

() Figures in Parentheses indicate the number per Contactor.

* Used only on Contactors with Blowout.

* When ordering coil give Identification Number stamped on coil. See table of commonly used coils.

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

This is the list of Renewal Parts and the quantities of each that we recommend should be stocked by the user of this apparatus to minimize service interruptions caused by breakdowns. The parts recommended are those most subject to wear in normal operation, or to damage or breakage due to possible abnormal conditions.

This list of Renewal Parts is given only as a guide. When continuous operation is a primary consideration, additional insurance against shutdowns is desirable. Under such conditions more renewal parts should be carried, considering the severity of the service and the time required to secure replacements.

ORDERING INSTRUCTIONS

Name the part and give its style number. Give the complete name plate reading. State whether shipment is desired by express, freight or by parcel post. Send all orders or correspondence to nearest sales office of the company. Small orders should be combined so as to amount to a value of at least one dollar, as order-handling and shipping expenses prevent us from billing a smaller amount.

Westinghouse Electric Corporation
East Pittsburgh, Pa.

TYPE F MAGNETIC CONTACTOR, FRAME 11-F5 and 13-F5

INSTRUCTIONS

Description and Maintenance

The type 13-F5 is a contactor having one normally closed and two normally open contacts. It is designed primarily for use as a synchronous motor field switch, the magnet being laminated for a-c. operation. The contactor is supplied with blowout coils and arc shields.

The 11-F5 has one normally open and one normally closed contact.

The contactor is designed for mounting on slate or ebony asbestos panels up to 2" thick.

Rating

The 8 hour ampere ratings of the normally open contacts is 25 amperes.

The 1 hour ampere ratings is 33 amperes.

The normally closed contact is rated at 25 amperes for 2 minute maximum.

Insulation is for a maximum of 600 volts.

Coil

The coil is designed for continuous duty. It will operate the contactor satisfactorily at from 85% to 110% of its rated voltage.

To remove the coil, first remove the complete armature and cross bar assembly by withdrawing the magnet hinge pin.

The coil is identified by a stamped metal tag affixed to the side.

Magnet

Before shipment, the magnet sealing surfaces are covered with grease to prevent rusting. This should be removed before the contactor is placed in service. The surfaces should be cleaned occasionally with a cloth moistened with a light oil to remove deposits of dirt and prevent rusting.

The moving armature is full-floating to allow sealing against the stationary magnet surfaces with a minimum of noise. Should noise develop in service, it is probably the result of accumulated dirt, and this should be removed.

Contacts

The contacts are so adjusted before leaving the factory that when the magnet is energized, the normally closed contact opens only after the normally open contacts have closed.

With the magnet open, the contact separation of the normally open contacts should be $\frac{1}{2}$ ".

The contact pressure should be between 8 and 10 ounces.

The contact tips should not be lubricated, as the slight wear of dry contacts produces a self-cleaning action. Should excessive roughening or burning occur, the tips may be dressed with a fine file. Do not use emery cloth, as abrasive granules left embedded in the contact surfaces may raise the contact resistance or cause the contacts to weld.

Arc Shield

The arc shield should always be down in place so that the arc is broken within the field of the blowout coil, otherwise the shield will not give satisfactory results.

Electrical Interlock

The type 11-P5 and 13-P5 contactor may be equipped with a type L-33 interlock, the moving element of which is secured to the contactor cross-bar in such fashion that it energizes a pair of stationary contact studs projecting from the panel. The interlock may be adjusted as shown in Fig. 1. For further information concerning the interlock refer to I.L. 2806.

General Maintenance

The contactor should be inspected frequently to see that no impairment of electrical or mechanical functioning occurs in service. Accumulations of dust may be removed with a dry cloth or a compressed air jet. Except only when cleaning the magnet sealing surfaces, avoid oily cloths, as an oil film quickly collects dust. Do not oil the bearings.

See that all belts remain tight and the bearings frictionless. The moving and stationary magnets should be in alignment. Ascertain that the moving contacts make contact squarely and centrally with the stationary contacts without rubbing the arc shield. Be sure that the correct contact gap and pressures are maintained.

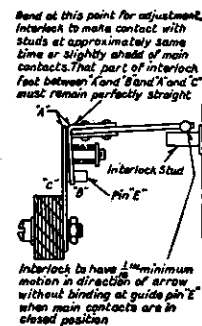


FIG. 1—DETAIL SHOWING ADJUSTMENT OF TYPE L-33 ELECTRICAL INTERLOCK

TABLE OF OPERATING COILS

Volts	Cycles	Style Number
110	60	585 570
208	60	776 110
220	60	585 571
440	60	585 572
550	60	585 573
110	50	585 574
220	50	585 575
440	50	585 576
550	50	585 577
110	25	585 575
220	25	585 576
440	25	585 578
550	25	585 579