

Westinghouse

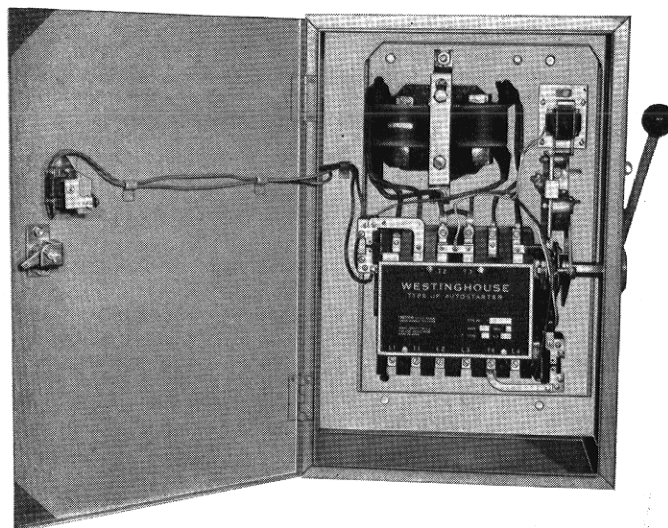


Type JF Auto-starters Frames 2 and 3

220 to 550 Volts, Two and
Three Phase

Ordering Information

- Name the part and give its style number.
- Give the complete nameplate reading.
- State method of shipment desired.
- Send all orders or correspondence to nearest sales office of the company.

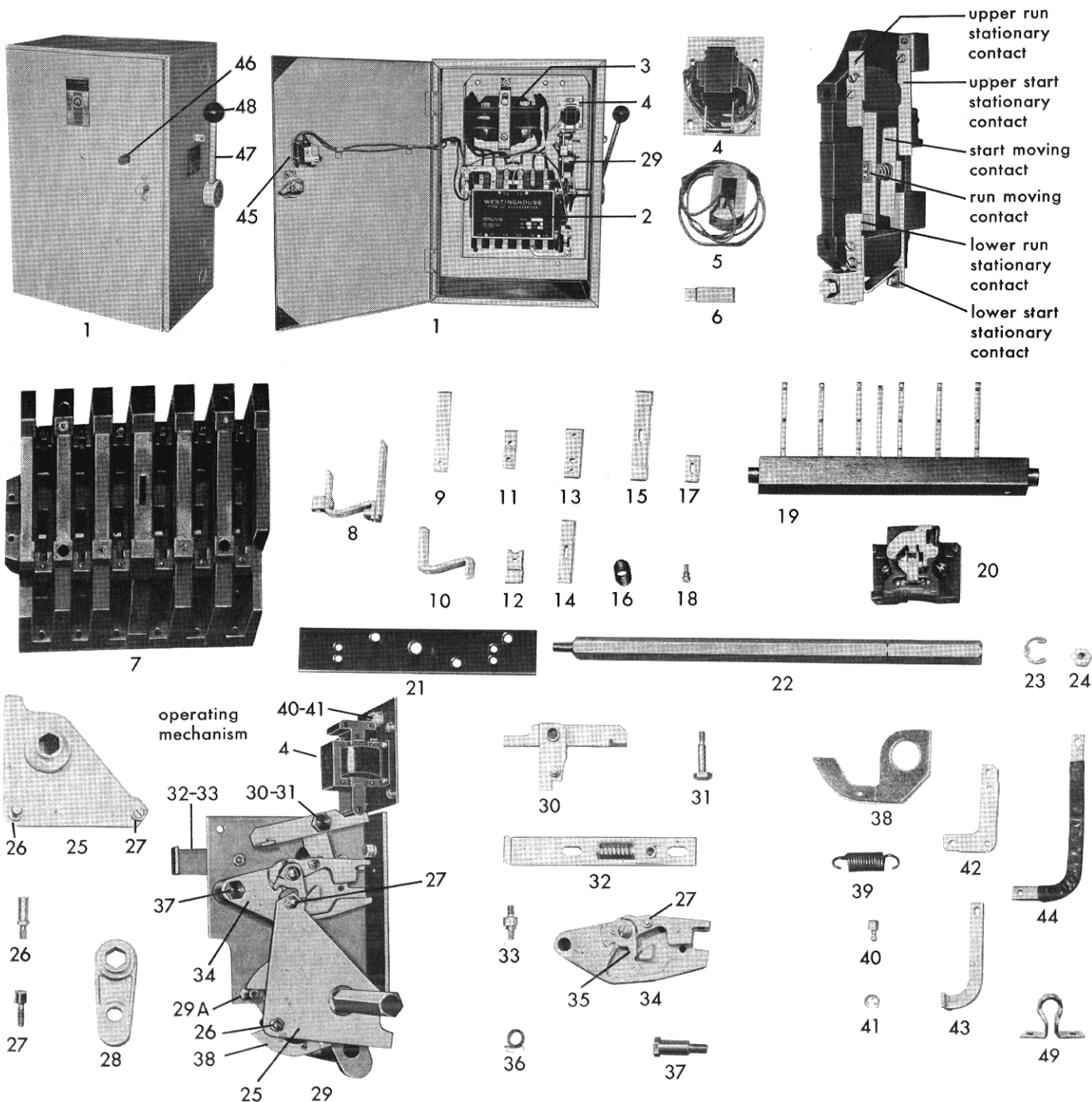


Frame Size	Horse-power	Volts	Hertz	Style Number							
				Two Phase				Three Phase			
				Auto-Starter		Switch Cover	Auto-Transformer	Auto-Starter		Switch Cover	Auto-Transformer
				Complete	Less Heater, Cabinet, Handle			Complete	Less Heater, Cabinet, Handle		
2	5/15	220	60	550D412G01	416C165G01	416C163H01	1747 002	550D413G01	416C165G15	416C163H15	1747 003
2	5/15	440	60	550D412G02	416C165G02	416C163H02	1747 024	550D413G02	416C165G16	416C163H16	1747 025
2	20/25	440	60	550D412G03	416C165G03	416C163H03	1747 026	550D413G03	416C165G17	416C163H17	1747 027
2	5/15	550	60	550D412G04	416C165G04	416C163H04	1747 042	550D413G04	416C165G18	416C163H18	1747 043
2	20/25	550	60	550D412G05	416C165G05	416C163H05	1747 024	550D413G05	416C165G19	416C163H19	1747 025
2	5/15	220	50	550D412G06	416C165G06	416C163H06	1747 024	550D413G06	416C165G20	416C163H20	1747 011
2	5/15	380	50	550D412G07	416C165G07	416C163H07	1747 018	550D413G07	416C165G21	416C163H21	1747 025
2	20/25	380	50	550D412G08	416C165G08	416C163H08	1747 018	550D413G08	416C165G22	416C163H22	1747 019
2	5/15	440	50	550D412G09	416C165G09	416C163H09	1747 036	550D413G09	416C165G23	416C163H23	1747 017
2	20/25	440	50	550D412G10	416C165G10	416C163H10	1747 055	550D413G10	416C165G24	416C163H24	1747 019
2	5/15	550	50	550D412G11	416C165G11	416C163H11	1747 044	550D413G11	416C165G25	416C163H25	1747 048
2	20/25	550	50	550D412G12	416C165G12	416C163H12	1747 044	550D413G12	416C165G26	416C163H26	1747 049
2	5/15	220	25	550D412G13	416C165G13	416C163H13	1747 018	550D413G13	416C165G27	416C163H27	553D122G35
2	5/15	440	25	550D412G14	416C165G14	416C163H14	1747 036	550D413G14	416C165G28	416C163H28	1747 037
2	5/15	550	25	550D412G15	416C165G15	416C163H15	1747 055	550D413G15	416C165G29	416C163H29	1747 056
3	20/25	220	60	550D412G16	416C165G16	416C163H16	1747 004	550D413G16	416C165G30	416C163H30	1747 005
3	30	220	60	550D412G17	416C165G17	416C163H17	1747 006	550D413G17	416C165G31	416C163H31	1747 007
3	30	440	60	550D412G18	416C165G18	416C163H18	1747 028	550D413G18	416C165G32	416C163H32	1747 029
3	40/50	440	60	550D412G19	416C165G19	416C163H19	1747 028	550D413G19	416C165G33	416C163H33	1747 029
3	30	550	60	550D412G20	416C165G20	416C163H20	1747 044	550D413G20	416C165G34	416C163H34	1747 019
3	40/50	550	60	550D412G21	416C165G21	416C163H21	1747 044	550D413G21	416C165G35	416C163H35	1747 019
3	20/25	220	50	550D412G22	416C165G22	416C163H22	1747 018	550D413G22	416C165G36	416C163H36	1747 012
3	30	220	50	550D412G23	416C165G23	416C163H23	1747 018	550D413G23	416C165G37	416C163H37	1747 012
3	30	380	50	550D412G24	416C165G24	416C163H24	1747 028	550D413G24	416C165G38	416C163H38	1747 019
3	40/50	380	50	550D412G25	416C165G25	416C163H25	1747 028	550D413G25	416C165G39	416C163H39	1747 029
3	30	440	50	550D412G26	416C165G26	416C163H26	1747 018	550D413G26	416C165G40	416C163H40	1747 012
3	30	220	50	550D412G27	416C165G27	416C163H27	1747 018	550D413G27	416C165G41	416C163H41	1747 012
3	30	380	50	550D412G28	416C165G28	416C163H28	1747 028	550D413G28	416C165G42	416C163H42	1747 019
3	40/50	380	50	550D412G29	416C165G29	416C163H29	1747 028	550D413G29	416C165G43	416C163H43	1747 029
3	30	440	50	550D412G30	416C165G30	416C163H30	1747 018	550D413G30	416C165G44	416C163H44	1747 019
3	30	440	50	550D412G31	416C165G31	416C163H31	1747 018	550D413G31	416C165G45	416C163H45	1747 049
3	30	550	50	550D412G32	416C165G32	416C163H32	1747 049	550D413G32	416C165G46	416C163H46	1747 049
3	40/50	550	50	550D412G33	416C165G33	416C163H33	1747 049	550D413G33	416C165G47	416C163H47	1747 049
3 Spec.	20/25	220	25	550D412G34	416C165G34	416C163H34	553D123G33	550D413G34	416C165G48	416C163H48	553D123G33
3 Spec.	30	220	25	550D412G35	416C165G35	416C163H35	553D123G33	550D413G35	416C165G49	416C163H49	553D123G33
3 Spec.	20/25	440	25	550D412G36	416C165G36	416C163H36	553D123G42	550D413G36	416C165G50	416C163H50	553D123G42
3 Spec.	30	440	25	550D412G37	416C165G37	416C163H37	553D123G42	550D413G37	416C165G51	416C163H51	553D123G42
3 Spec.	40/50	440	25	550D412G38	416C165G38	416C163H38	553D123G42	550D413G38	416C165G52	416C163H52	553D123G42
3 Spec.	20/25	550	25	550D412G39	416C165G39	416C163H39	553D123G51	550D413G39	416C165G53	416C163H53	553D123G51
3 Spec.	30	550	25	550D412G40	416C165G40	416C163H40	553D123G51	550D413G40	416C165G54	416C163H54	553D123G51
3 Spec.	40/50	550	25	550D412G41	416C165G41	416C163H41	553D123G51	550D413G41	416C165G55	416C163H55	553D123G51
3 Spec.	20/25	550	25	550D412G42	416C165G42	416C163H42	553D123G51	550D413G42	416C165G56	416C163H56	553D123G51
3 Spec.	30	550	25	550D412G43	416C165G43	416C163H43	553D123G51	550D413G43	416C165G57	416C163H57	553D123G51
3 Spec.	40/50	550	25	550D412G44	416C165G44	416C163H44	553D123G51	550D413G44	416C165G58	416C163H58	553D123G51
3 Spec.	20/25	550	25	550D412G45	416C165G45	416C163H45	553D123G51	550D413G45	416C165G59	416C163H59	553D123G51
3 Spec.	30	550	25	550D412G46	416C165G46	416C163H46	553D123G51	550D413G46	416C165G60	416C163H60	553D123G51
3 Spec.	40/50	550	25	550D412G47	416C165G47	416C163H47	553D123G51	550D413G47	416C165G61	416C163H61	553D123G51
3 Spec.	20/25	550	25	550D412G48	416C165G48	416C163H48	553D123G51	550D413G48	416C165G62	416C163H62	553D123G51
3 Spec.	30	550	25	550D412G49	416C165G49	416C163H49	553D123G51	550D413G49	416C165G63	416C163H63	553D123G51
3 Spec.	40/50	550	25	550D412G50	416C165G50	416C163H50	553D123G51	550D413G50	416C165G64	416C163H64	553D123G51
3 Spec.	20/25	550	25	550D412G51	416C165G51	416C163H51	553D123G51	550D413G51	416C165G65	416C163H65	553D123G51
3 Spec.	30	550	25	550D412G52	416C165G52	416C163H52	553D123G51	550D413G52	416C165G66	416C163H66	553D123G51
3 Spec.	40/50	550	25	550D412G53	416C165G53	416C163H53	553D123G51	550D413G53	416C165G67	416C163H67	553D123G51
3 Spec.	20/25	550	25	550D412G54	416C165G54	416C163H54	553D123G51	550D413G54	416C165G68	416C163H68	553D123G51
3 Spec.	30	550	25	550D412G55	416C165G55	416C163H55	553D123G51	550D413G55	416C165G69	416C163H69	553D123G51
3 Spec.	40/50	550	25	550D412G56	416C165G56	416C163H56	553D123G51	550D413G56	416C165G70	416C163H70	553D123G51
3 Spec.	20/25	550	25	550D412G57	416C165G57	416C163H57	553D123G51	550D413G57	416C165G71	416C163H71	553D123G51
3 Spec.	30	550	25	550D412G58	416C165G58	416C163H58	553D123G51	550D413G58	416C165G72	416C163H72	553D123G51
3 Spec.	40/50	550	25	550D412G59	416C165G59	416C163H59	553D123G51	550D413G59	416C165G73	416C163H73	553D123G51
3 Spec.	20/25	550	25	550D412G60	416C165G60	416C163H60	553D123G51	550D413G60	416C165G74	416C163H74	553D123G51
3 Spec.	30	550	25	550D412G61	416C165G61	416C163H61	553D123G51	550D413G61	416C165G75	416C163H75	553D123G51
3 Spec.	40/50	550	25	550D412G62	416C165G62	416C163H62	553D123G51	550D413G62	416C165G76	416C163H76	553D123G51

August, 1971

Supersedes RPD 10-600 B1 dated December, 1957
E. D. C/2738

Westinghouse



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

- ① Not illustrated.
- ② Plunger guides should be replaced each time the coil is replaced.
- ③ Poles 1, 2, 5, 6 for two phase; all poles for three phase.

④ Poles 2, 6 for two phase; poles 2, 3, 4, 6 for three phase.

- ⑤ When ordering relay heaters specify code marking stamped on heater or refer to heater table on rear of cabinet door.
- ⑥ Style number covers one set of contacts and springs for complete starter.

Type JF Auto-starters Frames 2 and 3

220 to 550 Volts, Two and
Three Phase

Ref. No.	Description of Part	Style Number of Part and Number Used							
		Two Phase				Three Phase			
		Frame 2	Frame 3	Frame 3 Special	No. Used	Frame 2	Frame 3	Frame 3 Special	No. Used
1	Autostarter without relay heaters	See page 1	See page 1	See page 1	1	See page 1	See page 1	See page 1	1
①	Autostarter without heaters, cabinet or handle	See page 1	See page 1	See page 1	1	See page 1	See page 1	See page 1	1
2	Switch cover	See page 1	See page 1	See page 1	1	See page 1	See page 1	See page 1	1
3	Autotransformer	See page 1	See page 1	See page 1	1	See page 1	See page 1	See page 1	1
4	Solenoid	See page 4	See page 4	See page 4	1	See page 4	See page 4	See page 4	1
5	Solenoid coil②	See page 4	See page 4	See page 4	1	See page 4	See page 4	See page 4	1
6	Solenoid plunger guide②	197A758H01	197A758H01	197A758H01	2	197A758H01	197A758H01	197A758H01	2
①	Voltage transformer – 110V secondary	See page 4	See page 4	See page 4	1	See page 4	See page 4	See page 4	1
①	Switch with overload relays	550D408G01	550D408G02	550D408G05	1	550D408G03	550D408G04	550D408G06	1
①	Base without overload relays	38A7018G05	38A7018G06	38A7018G06	1	38A7018G07	38A7018G08	38A7018G08	1
7	Base	1747 091	1747 091	1747 091	1	1747 091	1747 091	1747 091	1
8	Lower start stationary contact (poles 1, 2, 3, 4, 6)	15C5475G03	15C5475G04	15C5475G04	5	15C5475G03	15C5475G04	15C5475G04	5
9	Start contact	1747 107	1747 107	1747 107	5	1747 107	1747 107	1747 107	5
10	Contact support	15C5475H08	15C5475H08	15C5475H08	5	15C5475H08	15C5475H08	15C5475H08	5
8	Lower start stationary contact (pole 5)	1747 114	1747 115	1747 115	1	1747 114	1747 115	1747 115	1
9	Start contact	1747 107	1747 107	1747 107	1	1747 107	1747 107	1747 107	1
10	Contact support	1747 116	1747 116	1747 116	1	1747 116	1747 116	1747 116	1
8	Upper start stationary contact (poles 3, 4)	1747 114	1747 115	1747 115	2	.....	.....	.....	..
9	Start contact	1747 107	1747 107	1747 107	2	.....	.....	.....	..
10	Contact support	1747 116	1747 116	1747 116	2	.....	.....	.....	..
9	Upper start stationary coil③	1747 107	1747 107	1747 107	4	1747 107	1747 107	1747 107	6
11	Upper start contact support③	1747 109	1747 109	1747 109	4	1747 109	1747 109	1747 109	6
12	Run stationary contact (poles 1, 2, 3, 4, 6)	1747 095	1747 095	1747 095	10	1747 095	1747 095	1747 095	10
13	Upper run contact support④	1747 111	1747 111	1747 111	2	1747 111	1747 111	1747 111	4
14	Start moving contact	1747 097	1747 097	1747 097	6	1747 097	1747 097	1747 097	6
15	Run moving contact (poles 1, 2, 3, 4, 6)	1747 093	1747 093	1747 093	5	1747 093	1747 093	1747 093	5
16	Moving contact spring	197A754H01	197A754H01	197A754H01	6	197A754H01	197A754H01	197A754H01	6
17	Moving contact retainer	755B009H01	755B009H01	755B009H01	6	755B009H01	755B009H01	755B009H01	6
18	Fastener	1781 355	1781 355	1781 355	26	1781 355	1781 355	1781 355	28
19	Crossbar	1747 089	1747 089	1747 089	1	1747 089	1747 089	1747 089	1
20	Type MW-21 overload relay	48A3455G05	48A3455G05	48A3455G05	2	48A3455G05	48A3455G05	48A3455G05	2
21	Switch base insulation	1747 161	1747 161	1747 161	2	1747 161	1747 161	1747 161	2
22	Operating shaft	296B886H01	296B886H01	296B886H01	1	296B886H01	296B886H01	296B886H01	1
23	Retaining ring	27D7260H08	27D7260H08	27D7260H08	1	27D7260H08	27D7260H08	27D7260H08	1
24	Locknut	18D8358H27	18D8358H27	18D8358H27	1	18D8358H27	18D8358H27	18D8358H27	1
25	Operating lever	296B885G01	296B885G01	296B885G01	1	296B885G01	296B885G01	296B885G01	1
26	Centering pin	416C151H01	416C151H01	416C151H01	1	416C151H01	416C151H01	416C151H01	1
27	Cam follower	197A759H01	197A759H01	197A759H01	1	197A759H01	197A759H01	197A759H01	1
28	Crossbar drive lever (left hand)	1747 083	1747 083	1747 083	1	1747 083	1747 083	1747 083	1
28	Crossbar drive lever (right hand)	38A6141H09	38A6141H09	38A6141H09	1	38A6141H09	38A6141H09	38A6141H09	1
29	Operating mechanism	550D406G02	550D406G02	550D406G02	1	550D406G02	550D406G02	550D406G02	1
29A	Eccentric	416C151H06	416C151H06	416C151H06	1	416C151H06	416C151H06	416C151H06	1
30	Tee lever	296B877G01	296B877G01	296B877G01	1	296B877G01	296B877G01	296B877G01	1
31	Tee lever pin	416C151H03	416C151H03	416C151H03	1	416C151H03	416C151H03	416C151H03	1
32	Push rod	296B882G01	296B882G01	296B882G01	1	296B882G01	296B882G01	296B882G01	1
33	Push rod pin	416C151H04	416C151H04	416C151H04	2	416C151H04	416C151H04	416C151H04	2
34	Inertia latch	550D406G01	550D406G01	550D406G01	1	550D406G01	550D406G01	550D406G01	1
35	Auxiliary latch	416C157H05	416C157H05	416C157H05	1	416C157H05	416C157H05	416C157H05	1
①	Auxiliary latch pivot bushing	416C155H01	416C155H01	416C155H01	1	416C155H01	416C155H01	416C155H01	1
27	Cam follower	197A759H01	197A759H01	197A759H01	1	197A759H01	197A759H01	197A759H01	1
36	Torsion spring	197A756H01	197A756H01	197A756H01	1	197A756H01	197A756H01	197A756H01	1
37	Inertia latch pivot pin	416C151H02	416C151H02	416C151H02	1	416C151H02	416C151H02	416C151H02	1
38	Centering lever	296B880H01	296B880H01	296B880H01	2	296B880H01	296B880H01	296B880H01	2
39	Centering spring	197A755H01	197A755H01	197A755H01	1	197A755H01	197A755H01	197A755H01	1
40	Eccentric for solenoid adjustment	416C155H06	416C155H06	416C155H06	1	416C155H06	416C155H06	416C155H06	1
41	Retaining ring	27D7260H07	27D7260H07	27D7260H07	1	27D7260H07	27D7260H07	27D7260H07	1
42	Strap – pole 2 to overload relay	1747 180	1747 180	1747 180	1	1747 180	1747 180	1747 180	1
43	Strap – pole 5 to overload relay	1747 188	1747 188	1747 188	1	1747 188	1747 188	1747 188	1
44	Strap – pole 6 to overload relay	1747 189	1747 189	1747 189	1	1747 189	1747 189	1747 189	1
18	Fastener	1781 355	1781 355	1781 355	6	1781 355	1781 355	1781 355	6
45	Pushbutton switch unit	1625 900	1625 900	1625 900	1	1625 900	1625 900	1625 900	1
46	Pushbutton	296B874G01	296B874G01	296B874G01	1	296B874G01	296B874G01	296B874G01	1
①	Pushbutton spring	197A754H04	197A754H04	197A754H04	1	197A754H04	197A754H04	197A754H04	1
47	Operating handle complete	416C175G03	416C175G03	416C175G01	1	416C175G03	416C175G03	416C175G01	1
48	Knob for operating handle	1624 145	1624 145	1624 145	1	1624 145	1624 145	1624 145	1
49	Overload relay heater	⑤	⑤	⑤	2	⑤	⑤	⑤	2
①	Contact kit⑥	38A7018G09	38A7018G09	38A7018G09	1	38A7018G09	38A7018G09	38A7018G09	1

Type JF Auto-starters Frames 2 and 3

220 to 550 Volts, Two and
Three Phase

Solenoid and Voltage Transformers

Rating Volts	Hertz	Style Number of Part		
		Solenoid Complete	Solenoid Coil	Voltage Transformer
110	25	416C160G27	296B892G02	.....
110	50	416C160G14	296B892G08	.....
110	60	416C160G01	296B892G01	.....
220	25	416C160G28	296B892G02	199A379G01
220	50	416C160G16	296B892G09	.....
220	60	416C160G03	296B892G02	.....
380	50	416C160G17	296B892G04	.....
440	25	416C160G29	296B892G02	199A381G01
440	50	416C160G19	296B892G10	.....
440	60	416C160G05	296B892G04	.....
550	25	416C160G30	296B892G02	199A382G01
550	50	416C160G20	296B892G11	.....
550	60	416C160G07	296B892G06	.....