

MARCH, 1938

WESTINGHOUSE SWITCHGEAR AND CONTROL APPARATUS

PAGE

COMBINATION LINESTARTERS

CLASS 11-204-A, A-3, AC, AC-3, AF and AT

Style Number of Linestarter with WK-97 Disconnect Switch				Operating Coils		
Class 11-204-A 60 Ampere	Class 11-204-A-3 60 Ampere	Class 11-204-A-3 60 Ampere	Class 11-204-AC 60 Ampere	Volts	Cycles	Style Number
828 750	828 751	828 752	869 872	110	60	585 570
828 751	828 752	828 753	869 873	220	60	585 571
828 752	828 753	828 754	869 874	440	60	585 572
828 753	828 754	828 755	869 875	480	60	585 581
828 754	828 755	828 756	869 876	550	60	585 573
828 755	828 756	828 757	869 877	600	60	585 583
828 756	828 757	828 758	869 878	110	50	585 574
828 757	828 758	828 759	869 879	110/220	25/50	585 575
828 758	828 759	828 760	869 880	220/440	25/50	585 576
828 759	828 760	828 761	869 881	550	50	585 577
828 760	828 761	828 762	869 882	440	25	585 578
828 761	828 762	828 763	869 883	550	25	585 579

Style Number of Linestarter with WK Disconnect Switch				Operating Coils		
Class 11-204-AC 100 Ampere	Class 11-204-AF 60 Ampere	Class 11-204-AF 100 Ampere	Class 11-204-AT 60 Ampere	Volts	Cycles	Style Number
869 884	869 848	869 860	869 896	110	60	585 570
869 885	869 849	869 861	869 897	220	60	585 571
869 886	869 850	869 862	869 898	440	60	585 572
869 887	869 851	869 863	869 899	480	60	585 581
869 888	869 852	869 864	869 900	550	60	585 573
869 889	869 853	869 865	869 901	600	60	585 583
869 890	869 854	869 866	869 902	110	50	585 574
869 891	869 855	869 867	869 903	110/220	25/50	585 575
869 892	869 856	869 868	869 904	220/440	25/50	585 576
869 893	869 857	869 869	869 905	550	50	585 577
869 894	869 858	869 870	869 906	440	25	585 578
869 895	869 859	869 871	869 907	550	25	585 579

Style Number of Linestarter with HD Disconnect Switch					Operating Coils		
Class 11-204-AC 60 Ampere	Class 11-204-AC-3 60 Ampere	Fuse Clips	Class 11-204-AT 60 Ampere	Fuse Clips	Volts	Cycles	Style Number
828 772	884 791	42 341	828 726	.....	110	60	585 570
828 773		42 341	828 727	.....	220	60	585 571
828 774		42 342	828 728	.....	440	60	585 572
828 775		42 342	828 729	.....	480	60	585 581
828 776		42 342	828 730	.....	550	60	585 573
828 777		42 342	828 731	.....	600	60	585 583
828 778		42 341	828 732	.....	110	50	585 574
828 779		42 341	828 733	.....	110/220	25/50	585 575
828 780		42 342	828 734	.....	220/440	25/50	585 576
828 781		42 342	828 735	.....	550	50	585 577
828 782		42 342	828 736	.....	440	25	585 578
828 783		42 342	828 737	.....	550	25	585 579

ORDERING INSTRUCTIONS

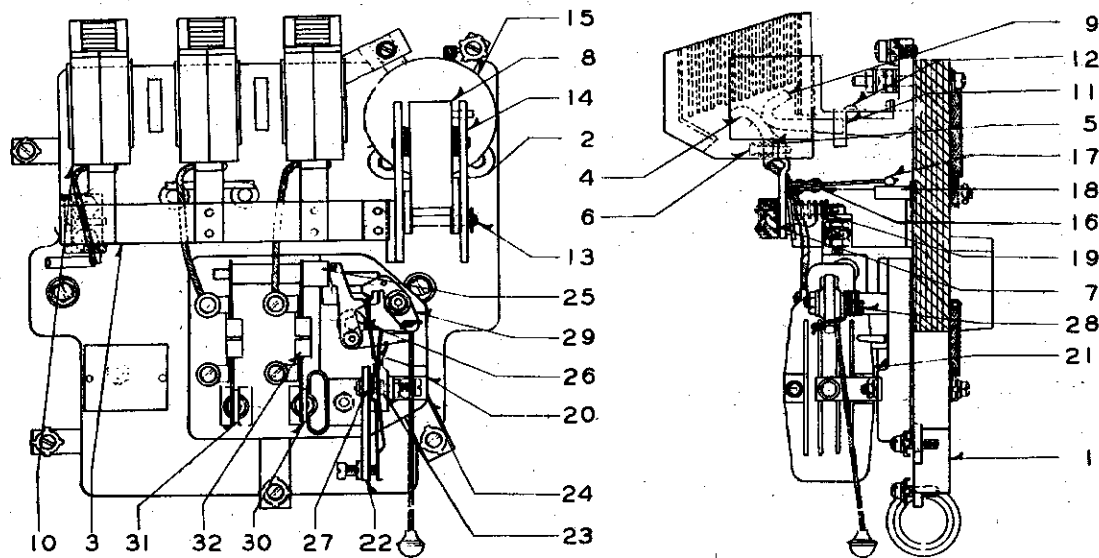
Name the part and give its style number. Give the complete nameplate reading. State whether shipment is desired by express, freight or by parcel post. Send all orders or correspondence to nearest sales office of the company. Small orders should be combined so as to amount to a value of at least \$1.00 net. Where the total of the sale is less than this, the material will be invoiced at \$1.00.

Westinghouse Electric Corporation

East Pittsburgh, Pa.

COMBINATION LINESTARTERS

CLASS 11-204-A, A-3, AC, AC-3, AF and AT



Ref No.	DESCRIPTION OF PART	Style Number	Number Per Line-starter	Linestarter in Use	
				1	5
				Recommended for Stock	
1	Starter base	576 187	1	0	0
2	Type 15-F-5 contactor complete	842 296	1	0	0
3	Armature complete	855 863	1	0	0
4	Moving contact with shunt	807 858	3	3	6
5	Contact spring	478 769	3	0	1
6	Contact spring pin	486 757	3	0	1
7	Cross bar	514 332	1	0	0
8	Floating armature	514 323	1	0	0
9	Stationary contact	844 132	3	3	6
10	Arc box	844 131	3	0	1
11	Mounting spring	667 531	3	0	1
12	Rivet for Mounting spring	667 532	3	0	0
13	Armature shaft	662 212	1	0	0
14	Bearing bracket	514 331	1	0	0
*	Stationary core	512 795	1	0	0
*	Shading coil	204 950	2	0	1
15	Operating coil	See Page 1	1	1	1
16	Type L-33 interlock complete	507 438	1	0	0
17	Moving contact finger	478 761	1	1	1
18	Stationary contact	516 544	2	1	2
19	Spring	472 204	1	0	1
20	Type TA-5 relay complete	808 734	1	0	0
21*	Moving contact	541 356	1	0	0
22*	Moving contact support	597 588	1	0	0
23*	Stationary contact and holder	548 397	1	0	0
24*	Stationary contact support	597 589	1	0	0
25	Latch push rod	597 587	1	0	0
26	Operating lever	597 586	1	0	0
27	Calibrating lever	597 584	1	0	0
28	Latch spring	597 590	1	0	0
29	Latch	597 585	1	0	0
30*	Bimetal strip and support (R.H.)	816 885	1	0	0
31*	Bimetal strip and support (L.H.)	816 884	1	0	0
32	Heaters	See Table	2	2	2
	Type WK-97 disconnect switch	See Page 3	.	.	.
	Type HD disconnect switch	See Page 4	.	.	.
	Test Jack	See Page 3	.	.	.

Not Illustrated

Order Parts by Style Number and Description

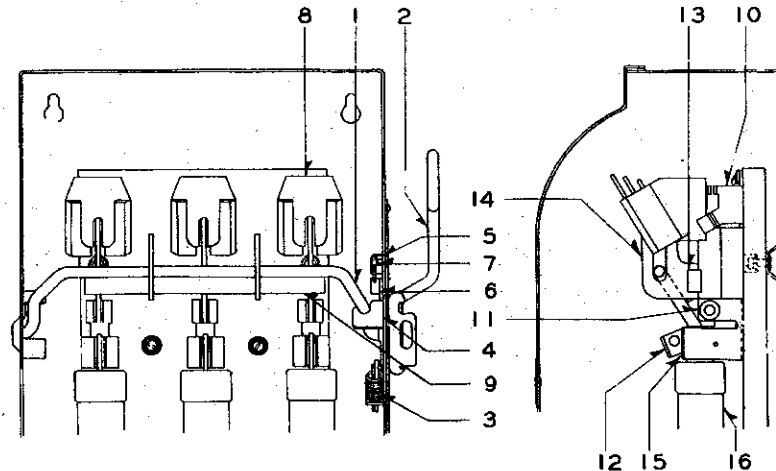
* Parts indented are included in the Part under which they are indented

* When Moving Contact, Stationary Contact and Holder or Thermal Strips must be renewed, the complete Relay should be sent to our works or nearest service shop, as accurate recalibration is necessary when any change in contacts is made. These contacts and thermal strips may be renewed by the customer, but at the risk of a possible change in relay calibration.

COMBINATION LINESTARTERS

CLASS 11-204-A, A-3, AC, AC-3, AF and AT

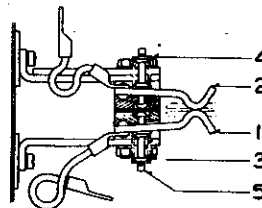
Type WK-97 Disconnect Switch and Details



Ref No.	Class of Linestarter	11-204-A 11-204-A-3 11-204-AT 60 Ampere	11-204-AC 11-204-AF 60 Ampere	11-204-AC 11-204-AF 100 Ampere	Number Per Line- starter	Linestarter in Use		
		DESCRIPTION OF PART	Style Number	Style Number		Style Number	1	5
							Recommended for Stock	
1	Crank	584 804	584 804	584 804	1	0	0	
2	Handle	585 359	585 359	585 359	1	0	0	
3	Spring	584 986	584 986	584 986	1	0	1	
4	Quick break disc.	584 976	584 976	584 976	1	0	0	
5	Cover interlock	502 310	502 310	502 310	1	0	0	
6	Handle interlock.	502 309	502 309	502 309	1	0	0	
7	Interlock spring.	513 400	513 400	513 400	1	0	1	
8	Arc box.	502 581	502 581	502 581	3	0	1	
9	Type WK-97 disconnect switch.	584 912	584 910	869 946	1	0	0	
10	Break jaw	584 832	584 832	584 832	3	0	0	
11	Hinge jaw	584 834	584 833	K-23632	3	0	0	
12	Blade.	584 895	584 895	584 895	3	0	0	
13	Yoke	584 884	584 884	584 884	1	0	0	
14	Yoke bracket	584 914	584 914	584 914	2	0	0	
15	Fuse clips (short)	...	K-39943	K-39944	6-3	0	0	
15	Fuse clips (long).	...	...	585 188	3	0	0	
16	Fuse.	...	† †	† †	3	3	6	
16	Fuse refill.	...	† †	† †	3	3	6	

† † Order from Westinghouse Jobber giving ampere rating

Test Jacks

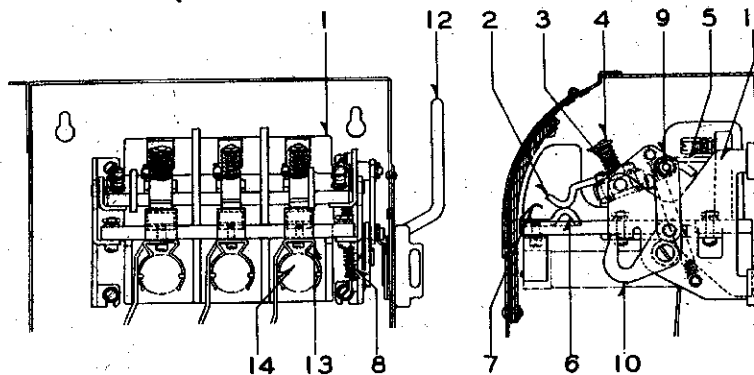


Ref No.	Class of Linestarter	11-204-AC	11-204-AC	11-204-AT	Number Per Line- starter	Linestarter in Use	
		60 Ampere	100 Ampere	60 Ampere		1	5
		ØDESCRIPTION OF PART	Style Number	Style Number		Style Number	Recommended for Stock
1	Contact finger (lower).	942 763	942 763	942 762	3	0	0
2	Contact finger (upper).	1 082 857	1 082 858	1 082 859	3	0	0
3	Spring	942 589	942 589	942 589	6	0	0
4	Spring washer.	569 662	569 662	569 662	12	0	0
5	Spring pin.	997 714	997 714	997 714	6	0	0

COMBINATION LINESTARTERS

CLASS 11-204-A, A-3, AC, AC-3, AF and AT

TYPE HD DISCONNECT SWITCH and DETAILS



Ref No.	Class of Linestarter	11-204-AC	11-204-AT	Number Per Linestarter	Linestarter in Use	
		11-204-AC-3			1	5
		Style Number	Style Number		Recommended for Stock	
1	Type HD disconnect switch complete	768 104	768 103	1	0	0
2	Moving contact with shunt	696 805	696 805	3	1	3
3	Contact spring	676 351	676 351	3	0	1
4	Contact spring retainer	697 036	697 036	3	0	0
5	Stationary contact (upper)	696 807	696 807	3	1	3
6	Stationary contact (lower)	696 806	696 806	3	1	3
7	Stationary contact (auxiliary)	705 094	705 094	3	1	3
8	Spring	676 350	676 350	1	0	1
9	Contact operating link	662 148	662 148	1	0	0
10	Interlock link and pin	859 601	859 601	1	0	0
11	Bearing bracket	859 600	859 600	2	0	0
12	Handle	676 161	676 161	1	0	0
13	Fuse clips	See Page 1	...	6	0	0
14	Fuse	† †	...	3	3	6
14	Fuse refill	† †	...	3	3	6

† † Order from Westinghouse Jobber giving ampere rating

Heaters for TA-5 Overload Relays

Full Load Current of Motor	Ampere Rating of Heaters	Heater Style Number	Full Load Current of Motor	Ampere Rating of Heaters	Heater Style Number
.90-1.04	N 1.25	817 428-A	10.00-12.10	N 13.50	817 442
1.05-1.19	N 1.45	817 429-A	12.20-14.10	N 17.00	817 443
1.20-1.44	N 1.60	817 430-A	14.20-16.10	N 18.50	817 444
1.45-1.89	N 1.90	817 431-A	16.20-18.40	N 22.00	817 445
1.90-2.44	N 2.60	817 432	18.50-21.90	N 25.00	817 446
2.45-2.89	N 3.40	817 433	22.00-25.90	N 30.00	817 447
2.90-3.39	N 4.00	817 434	26.00-28.90	N 34.00	817 448
3.40-4.10	N 4.70	817 435	29.00-35.90	N 40.00	816 929
4.2 -4.70	N 5.70	817 436-A	36.00-44.00	N 49.00	831 442
4.80-5.40	N 6.50	817 437-A	45.00-54.00	N 62.00	831 443
5.50-6.50	N 7.40	817 438	55.00-64.00	N 74.00	831 444
6.60-7.40	N 9.10	817 439	65.00-74.00	N 81.00	831 445
7.50-8.40	N 10.00	817 440	75.00-85.00	N 95.00	831 446
8.50-9.90	N 11.50	817 441			