

Westinghouse



Dc Magnetic Contactors, Type MMD Front Connected

Frames 301, 310, 311, 320, 321, 322,
401, 410, 411, 420, 421, 422
50 and 100/150 Ampere

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.

Operating Coils

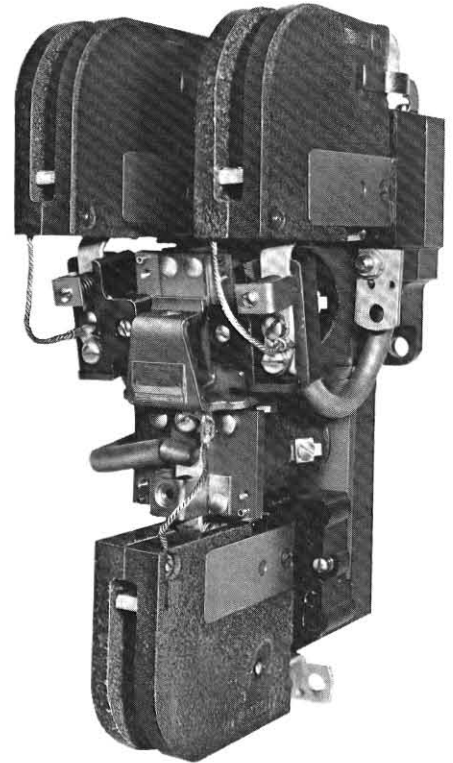
Voltage	Style Number	
	Frames 301, 310, 320, 401, 410 420	Frames 311, 321, 322, 411, 421, 422
		Upper Coil Lower Coil
65	.....	1600 767
115	1490 640	1490 640 1622 906
125	1600 763	1600 763 427C048G06
230	1490 641	1490 641 1622 907
250	1626 810	1626 810 30B4376G17
550	1622 924	1622 924 1622 908

Contactor With Coil

Frame Size	Style Number		
	Contactor Complete	Contactor Less Coil	Upper Coil
301	490A666G04	493A566G01	1626 810
310	490A667G04	493A563G01	1626 810
311	490A668G04	493A567G01	1626 810
311	490A668G14	493A575G01	1626 810
320	490A669G04	493A565G01	1626 810
321	490A670G04	493A568G01	1626 810
321	490A670G14	493A574G01	1626 810
322	490A671G04	493A569G01	1626 810
401	490A666G09	493A566G02	1626 810
410	490A667G09	493A563G02	1626 810
411	490A668G09	493A567G02	1626 810
411	490A668G19	493A575G02	1626 810
420	490A669G09	493A565G02	1626 810
421	490A670G09	493A568G02	1626 810
421	490A670G19	493A574G02	1626 810
422	490A671G09	493A569G02	1626 810

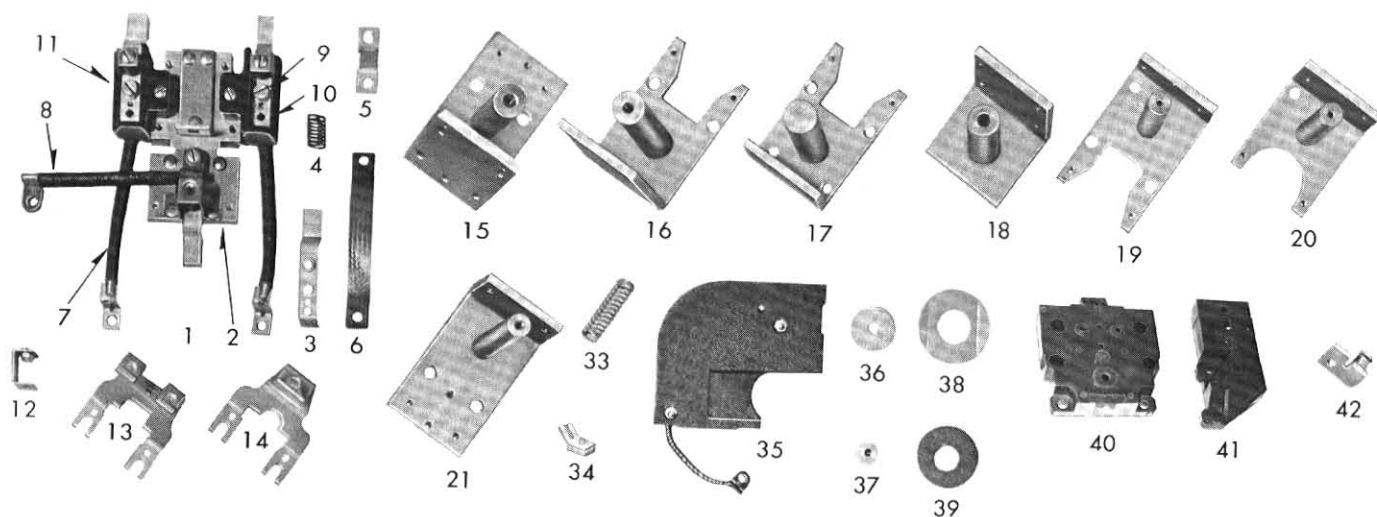
One Pole Kit of Normal Wearing Parts

A one pole kit of normal wearing parts, style number 1620 043, consisting of one moving contact, one stationary contact and one contact spring has been packaged in a single carton. It is more economical to purchase these parts in this convenient, easily identified spare parts kit.



Type MMD-321 Contactor

Westinghouse



Ref. No.	Description of Part	Type and Frame of Contactor								No. Used
		MMD-301	MMD-310	MMD-311	MMD-311	MMD-320	MMD-321	MMD-321	MMD-322	
		(Contactor Mechanical Parts Style Number)								
		493A566G01	493A563G01	493A567G01	493A575G01	493A565G01	493A568G01 493A568G03	493A574G01	493A569G01	
		Style Number of Parts								
1	Armature complete.....	1625 890	1625 891	1625 892	1625 892	1625 893	1625 894	1625 894	1625 895	1
2	Bare armature.....	1490 520	1490 518	1490 519	1490 519	1257 432	1490 520	1490 520	1257 434	1
3	Moving contact finger.....	1490 515	1490 515	1490 515	1490 515	1490 515	1490 515	1490 515	1490 515	②
4	Contact spring.....	1490 698	1490 698	1490 698	1490 698	1490 698	1490 698	1490 698	1490 698	②
5	Shunt.....	.....	.....	1289 475	1289 475	.....	.....	.....	.....	1
6	Shunt.....	.....	1419 193	.....	.....	.....	.....	.....	.....	1
7	Shunt.....	.....	.....	.....	.....	1490 696	1490 696	1490 696	1490 696	②
8	Shunt.....	1490 697	.....	1490 697	1490 697	.....	1490 697	1490 697	.....	1
9	Shunt screw — 3/8" long	1355 076	1355 076	1355 076	1355 076	1355 076	1355 076	1355 076	1355 076	②
	Contact finger support	.....	.....	.....	.....	.....	.....	.....	.....	.....
10	Right hand.....	.....	.....	.....	.....	1406 689	1406 689	1406 689	1406 689	②
11	Left hand.....	.....	.....	.....	.....	1406 688	1406 688	1406 688	1406 688	②
12	Spring holder.....	.....	.....	.....	.....	1308 184	1308 184	1308 184	1308 184	②
13	Armature stop.....	.....	427C696G24	427C696G26	427C696G24	.....	.....	.....	.....	1
14	Armature stop.....	427C696G27	.....	.....	.....	427C696G25	427C696G27	427C696G25	427C696G25	1
15	Frame with core.....	.....	.....	.....	.....	1257 424	1818 160	1818 160	1818 160	1
16	Frame with core.....	.....	1289 431	1818 159	1818 159	.....	.....	.....	.....	1
17	Frame with core.....	1344 148	.....	.....	.....	.....	.....	.....	.....	1
18	Frame with core — lower	1289 047	.....	.....	.....	.....	.....	.....	.....	1
19	Frame with core — lower	.....	.....	1320 655	.....	.....	1320 655	.....	.....	1
20	Frame with core — lower	.....	.....	.....	1320 656	.....	.....	1320 656	.....	1
21	Frame with core — lower	.....	.....	.....	.....	.....	.....	.....	1320 657	1
①	Base assembly without	.....	.....	.....	.....	.....	30B9270G04	30B9270G04	30B9270G04	1
	contact — upper.....	.....	30B9269G04	30B9269G04	30B9269G04	30B9270G04	.....	.....	.....	.....
①	Lower.....	30B9269G04	.....	30B9269G04	1257 394	.....	③	1257 394	30B9270G04	1
22 to 32	Base assembly details..	See table on page 4								
33	Armature spring.....	1596 679	1289 441	1289 441	1289 441	1289 442	1289 442	1289 442	1289 442	②
34	Stationary contact.....	1490 516	1490 516	1490 516	1490 516	1490 516	1490 516	1490 516	1490 516	②
①	Contact screw.....	1355 076	1355 076	1355 076	1355 076	1355 076	1355 076	1355 076	1355 076	②
35	Arc box.....	1490 517	1490 517	1490 517	1490 517	1490 517	1490 517	1490 517	1490 517	②
36	Pole face.....	1257 462	1257 462	1257 462	1257 462	1257 462	1257 462	1257 462	1257 462	1
37	Pole face — lower.....	.....	.....	1308 247	1308 247	.....	1308 247	1308 247	1308 247	1
38	Steelcoil washer.....	1486 999	1486 999	1486 999	1486 999	1486 999	1486 999	1486 999	1486 999	1
39	Felt coil washer.....	.....	.....	1308 248	1308 248	.....	1308 248	1308 248	1308 248	1
40	Base insulation — upper..	.....	877D101H01	877D102H03	877D102H03	877D100H01	877D105H01	877D105H01	877D105H01	1
41	Base insulation — lower..	877D102H01	.....	877D102H03	877D102H04	.....	877D102H03	877D102H04	877D105H01	1
42	Bent connector.....	.....	659C302H03	.....	659C302H03	.....	.....	659C302H03	.....	1
42	Bent connector.....	659C302H06	.....	659C302H06	659C302H06	.....	659C302H05	659C302H05	.....	1
①	Straight connector.....	.....	.....	.....	.....	659C302H02	659C302H02	659C302H02	659C302H02	②

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

① Not illustrated

② See table page 3 for number used

③ Style number 30B9270G04 for Mechanical Parts Style 493A568G01; 30B9270G05 for Mechanical Parts Style 493A568G03

Dc Magnetic Contactors, Type MMD Front Connected

Frames 301, 310, 311, 320, 321, 322
401, 410, 411, 420, 421, 422
50 and 100/150 Ampere

Ref. No.	Description of Part	Contactor Mechanical Parts Style Number																
		493A563G01	493A563G02	493A565G01	493A565G02	493A566G01	493A566G02	493A567G01	493A567G02	493A568G01	493A568G02	493A568G03	493A569G01	493A569G02	493A574G01	493A574G02	493A575G01	493A575G02
		Number Used																
3	Moving contact finger	1	1	2	2	1	1	2	2	3	3	3	4	4	3	3	2	2
4	Contact spring	1	1	2	2	1	1	2	2	3	3	3	4	4	3	3	2	2
7	Shunt	.	.	2	2	.	.	.	.	2	2	2	4	4	2	2	.	.
9	Shunt screw – ¾" long	1	1	2	2	1	1	2	2	3	3	3	4	4	3	3	2	2
10	Contact finger support – right hand	.	.	1	1	.	.	.	.	1	1	1	2	2	1	1	.	.
11	Contact finger support – left hand	.	.	1	1	.	.	.	.	1	1	1	2	2	1	1	.	.
12	Spring holder	.	.	2	2	.	.	.	.	2	2	2	4	4	2	2	.	.
33	Armature spring	2	2	1	1	1	1	2	2	1	1	1	1	1	1	1	2	2
34	Stationary contact	1	1	2	2	1	1	2	2	3	3	3	4	4	3	3	2	2
①	Contact screw	1	1	2	2	1	1	2	2	3	3	3	4	4	3	3	2	2
35	Arc box	1	1	2	2	1	1	2	2	3	3	3	4	4	3	3	1	1
①	Straight connector	.	.	2	2	.	.	.	.	2	2	2	4	4	2	2	.	.

① Not illustrated.

① Not illustrated.

Ref. No.	Description of Part	Type and Frame of Contactor								No. Used
		MMD-401	MMD-410	MMD-411	MMD-411	MMD-420	MMD-421	MMD-421	MMD-422	
		(Contactor Mechanical Parts Style Number)								
		493A566G02	493A563G02	493A567G02	493A575G02	493A566G02	493A568G02	493A574G02	493A569G02	
		Style Number of Parts								
1	Armature complete.....	427C696G01	427C696G02	427C696G03	427C696G03	427C696G04	427C696G05	427C696G05	427C696G06	1
2	Bare armature.....	1490 520	1490 518	1490 519	1490 519	1257 432	1490 520	1490 520	1257 434	1
3	Moving contact finger.....	1490 515	1490 515	1490 515	1490 515	1490 515	1490 515	1490 515	1490 515	②
4	Contact spring.....	1490 698	1490 698	1490 698	1490 698	1490 698	1490 698	1490 698	1490 698	②
5	Shunt.....	.....	.....	1289 475	1289 475	.....	.....	.....	.....	1
6	Shunt.....	.....	16B9647G02	.....	.....	.....	.....	.....	.....	1
7	Shunt.....	.....	.....	.....	.....	297B760G01	297B760G01	297B760G01	297B760G01	②
8	Shunt.....	297B681G01	.....	297B681G01	297B681G01	.....	297B681G01	297B681G01	.....	1
9	Shunt screw – ¾" long.....	1355 076	1355 076	1355 076	1355 076	1355 076	1355 076	1355 076	1355 076	②
	Contact finger support.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
10	Right hand.....	.....	.....	.....	.....	1406 689	1406 689	1406 689	1406 689	②
11	Left hand.....	.....	.....	.....	.....	1406 688	1406 688	1406 688	1406 688	②
12	Spring holder.....	.....	.....	.....	.....	1308 184	1308 184	1308 184	1308 184	②
13	Armature stop.....	.....	427C696G24	427C696G26	427C696G24	.....	.....	.....	.....	1
14	Armature stop.....	427C696G27	.....	.....	.....	427C696G25	427C696G27	427C696G25	427C696G25	1
15	Frame with core.....	.....	.....	.....	.....	1257 424	1818 160	1818 160	1818 160	1
16	Frame with core.....	.....	1289 431	1818 159	1818 159	.....	.....	.....	.....	1
17	Frame with core.....	1344 148	.....	.....	.....	.....	.....	.....	.....	1
18	Frame with core – lower.....	1289 047	.....	.....	.....	.....	.....	.....	.....	1
19	Frame with core – lower.....	.....	.....	1320 655	.....	.....	1320 655	.....	.....	1
20	Frame with core – lower.....	.....	.....	.....	1320 656	.....	.....	1320 656	.....	1
21	Frame with core – lower.....	.....	.....	.....	.....	.....	.....	.....	1320 657	1
①	Base assembly without contact – upper.....	.....	30B9269G04	30B9269G04	30B9269G04	30B9270G04	30B9270G04	30B9270G04	30B9270G04	1
①	Lower.....	30B9269G04	.....	30B9269G04	1257 394	.....	30B9269G04	1257 394	30B9270G04	1
22 to 32	Base assembly details.....	See table on page 4								
33	Armature spring.....	1596 679	1289 441	1289 441	1289 441	1289 442	1289 442	1289 442	1289 442	②
34	Stationary contact.....	1490 516	1490 516	1490 516	1490 516	1490 516	1490 516	1490 516	1490 516	②
①	Contact screw.....	1355 076	1355 076	1355 076	1355 076	1355 076	1355 076	1355 076	1355 076	②
35	Arc box.....	1490 517	1490 517	1490 517	1490 517	1490 517	1490 517	1490 517	1490 517	②
36	Pole face.....	1257 462	1257 462	1257 462	1257 462	1257 462	1257 462	1257 462	1257 462	1
37	Pole face – lower.....	.....	.....	1308 247	1308 247	.....	1308 247	1308 247	1308 247	1
38	Steel coil washer.....	1486 999	1486 999	1486 999	1486 999	1486 999	1486 999	1486 999	1486 999	1
39	Felt coil washer.....	.....	.....	1308 248	1308 248	.....	1308 248	1308 248	1308 248	1
40	Base insulation – upper.....	.....	877D101H01	877D102H03	877D102H03	877D100H01	877D105H01	877D105H01	877D105H01	1
41	Base insulation – lower.....	877D102H01	.....	877D102H03	877D102H04	.....	877D102H03	877D102H04	877D105H01	1
42	Bent connector.....	.....	659C302H03	.....	659C302H03	.....	.....	659C302H03	.....	1
42	Bent connector.....	659C302H06		659C302H06	659C302H06		659C302H05	659C302H05		1
①	Straight connector.....					659C302H02	659C302H02	659C302H02	659C302H02	②

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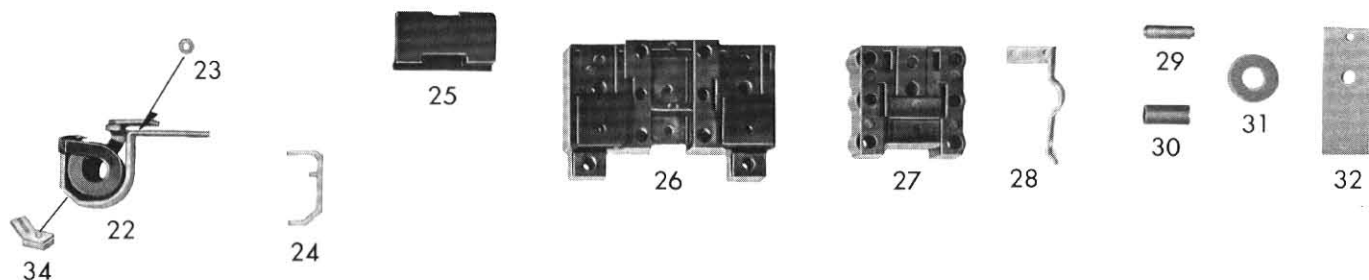
① Not illustrated.

② See table above for number used.

Dc Magnetic Contactors, Type MMD Front Connected

Frames 301, 310, 311, 320, 321, 322
401, 410, 411, 420, 421, 422
50 and 100/150 Ampere

Base Assembly Details



Ref. No.	Description of Part	Style Number of Part	Style Number of Base Assembly			
			1257 394	30B9269G05	30B9269G04	30B9270G04
			Single Pole			Double Pole
			Without Blowout Coil	With Blowout Coil		
			50 Amp	100/150 Amp	100/150 Amp	
			Number Used			
①	Base assembly without contact	See pages 2, 3	1	1	1	1
22	Blowout coil	878D422G05	.	.	1	2
22	Blowout coil	878D422G06	.	1	.	.
23	Insulating washer	208A560H05	.	1	1	2
24	Stationary contact support	1331 781	1	.	.	.
25	Bare base	1257 350	1	.	.	.
26	Bare base	1419 591	.	.	.	1
27	Bare base	1419 592	.	1	1	.
28	Arc box clip	1419 590	.	1	1	2
29	Blowout coil core	1257 371	.	1	1	2
30	Insulating tube	1257 373	.	1	1	2
31	Insulating washer	1257 374	.	2	2	4
32	Pole piece — tapped	1257 366	.	1	1	2
32	Pole piece — drilled	1257 367	.	1	1	2
①	Pole piece screw — .190-32 x 1½" flat head brass machine	Std. hdwr.	.	1	1	2

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

① Not illustrated.