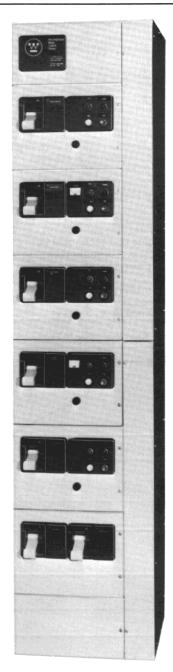


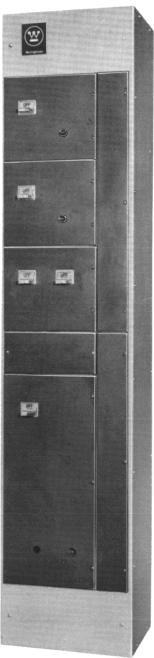
Westinghouse Electric Corporation
Distribution and Control Business Unit
Construction Equipment Division
Pittsburgh, Pennsylvania, U.S.A. 15220

February 15, 1987 Supersedes Renewal Parts Data 12-125, pages 1-12, dated July, 1984 Prices effective February 15, 1987; subject to change without notice. Mailed to: E,D,C/8900 D Series 2100 Motor Control Centers Five Star Motor Control Centers Type W Motor Control Centers Type 11-300 Motor Control Centers

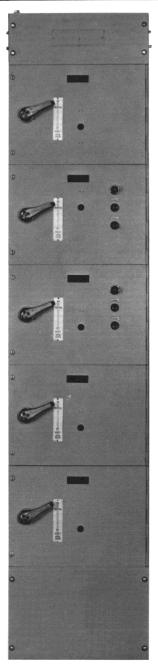
Motor Control Center Renewal Parts







Type W



11-300



General Information

Renewal and Replacement Parts

The concept of Motor Control Centers was introduced by Westinghouse in 1937, and we have been building various designs ever since. The current plug-in design was first introduced in 1950 with the Type 11-300 Motor Control Center and has been continued in the Type W design (1965), and the Five-Star design (1975). The Series 2100 was introduced in 1987 and is mechanically compatible with the Five Star design.

This renewal parts data will provide you with the proper identification of those standard parts which may be required in the maintenance of Westinghouse Motor Control Centers.

It is recommended that special attention be given to forecasting your particular renewal parts requirements. Proper forecasting will ensure the on-site availability of necessary parts and materials when needed, as well as guaranteeing efficiency and continued operation of your equipment.

The amount of investment to be made in renewal parts is best determined by the customer. Factors which should be considered when ordering renewal parts include distance from the source of supply, the impact of probable shutdown time, equipment duty cycle, etc.

Maintain the maximum operating characteristics of your apparatus and its dependability by using genuine Westinghouse renewal parts.

Procedure for Identifying Renewal Parts

- Identify the design of the Motor Control Center, i.e., Series 2100, Five Star, Type W or 11-300.
- Turn to the proper section in this publication to identify standard parts and components.
- This publication identifies those replacement parts which are most frequently ordered and which are readily available from manufacturing stock. These parts can be ordered by style number to speed up processing and delivery.

Since many Motor Control Centers are supplied to meet specific customer electrical control and distribution requirements, other parts not listed in this publication might occasionally be needed. Price and availability for parts not listed may be obtained by contacting your local Westinghouse representative and providing a complete description of the part, along with the data on the Motor Control Center nameplate.

Ordering Instructions

- 1. Describe the part and give style number.
- Send all orders and correspondence to the nearest Westinghouse Sales Office.
- 3. Selling Policy 7000 conditions apply.

For Complete Plug-in Cell Units – Starter or Feeder

- List type of Motor Control Center: Series 2100, 5-Star, Type W, 11-300. Identify cell unit type, function, and give description. Complete nameplate information may be necessary.
- Use pricing instructions found on page 3 of Price List 8910. Selling Policy 7000 conditions apply.
- Complete cell units for Series 2100, Five Star, Type W and 11-300 Motor Control Centers are available from the Fayetteville, NC plant. Standard Series 2100 and Five-Star plug-in starter units are also available at the Control Division Service Centers in Portland, OR; Houston, TX., Hartford, CT., Chicago, IL, and Los Angeles, CA.

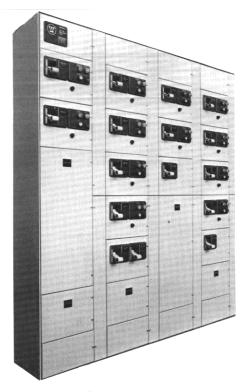
Ordering Information

Shaded items in this booklet should be entered by your local distributor direct on the service center serving your geography.

All items in this booklet are also listed in PEG-120 and should be entered on our quick-ship warehouse, Q68.

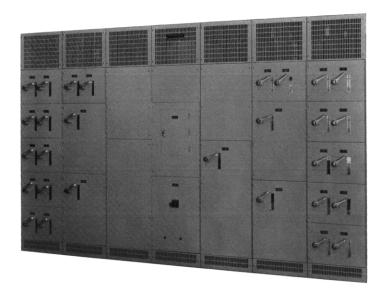
Series 2100, Five Star and Type W Parts: 10 working days 11-300 Parts: 8-10 weeks





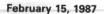
Five Star Motor Control Center

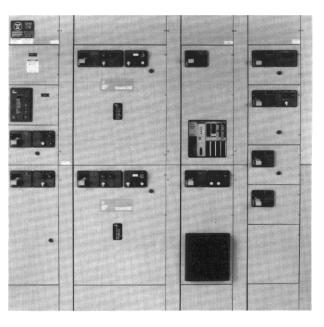
Introduced in 1975, the Five Star Model was manufactured through January, 1987, serving industrial, construction, power systems, and international markets.



11-300 Motor Control Center

Manufactured from 1950 to 1965 as the main production design. It was available as match and line up until 1974. Plug-in cells still available.





Series 2100 Motor Control Center

The Series 2100 was introduced in 1987. It offers all of the features of the Five Star, plus increased interrupting capacity (65 KAIC standard) and an expanded availability of solid state components.



Type W Motor Control Center

Manufactured from 1965 to 1975 as the main production design. Available for match and line up until 1982. Plug-in cells still available.



Section 1 - Series 2100/Five Star Motor Control Centers

Vertical structures are normally 90" high with 72" of usable vertical compartment space. Structure depth is either 16" or 21" for front-mounted designs, and 21" deep for back-to-back mounting. Vertical sections may be bolted together forming a single line-up with continuous horizontal bus and

open horizontal wireways. ANSI 70 light gray paint is used on all structure parts, wireways, and cell doors. Side and top sheets are dark charcoal gray. Unit height is measured in six inch increments resulting in simple cell interchangeability. Each six (6) inch increment equals 1× unit space.

Index	
Enclosure Parts	Page 4
Bus System Parts	Page 4
Bus Bar Assemblies, Connection	_
Kits, Splice Kits	Page 6
Drawout Unit Kits	Page 7

Series 2100/Five Star Enclosure Parts

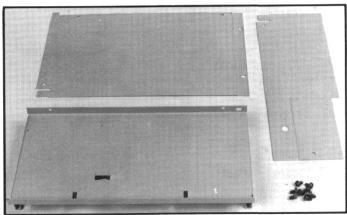
1,9	Master Terminal Block Mounting Rack Kit① Top Mounting Bottom Mounting	4719A91G28	
2		4719A91G28	
2			\$ 54 54
2	Horizontal Wireway Door® 9 In. High X 15½ In. Wide (Standard)(Kit of 2) 1-15 In. High X 15½ In. Wide, 1-3 In. High		54 54
3	Blank Unit Doors, 15½ In. Wide® 6 In. High (Kit of 3) 12 In. High (Kit of 2) 18 In. High 24 In. High 30 In. High 36 In. High	4719A91G21 4719A91G22 4719A91G23 4719A91G24	54 54 36 44 54
	Enhancement Hardware Kit (10 Door) @	4719A91G26	75
4	Vertical Wireway Door® 4 In. X 36 In. Long – Upper (Standard)	4719A91G17	44
10	Horizontal Wireway Barrier Kits Includes Divider Pan, Horizontal and Vertical Barriers, and Junction Piece® 9 In. High, Front Mounted 15 In. High, Front Mounted 15 In. High, Rear Mounted	4719A91G03	108 118 118
11	Divider Pan Kits@ Standard (Five Dividers)		91 30
15	Sheet Metal Covers® Side Sheets: 16 In. Deep, Front Mounted	4719A91G32 4719A91G33 4719A91G35 4719A91G35 4719A91G36 4719A91G37 4719A91G39 4719A91G39	140 140 140 167 172 129 129 129 129 129
	Touch-up Paint Kit, Including Three Cans of ANSI 61 Medium Gray		54

① Does not Include Terminal Blocks. If required, order from Catalog Section 16-921.

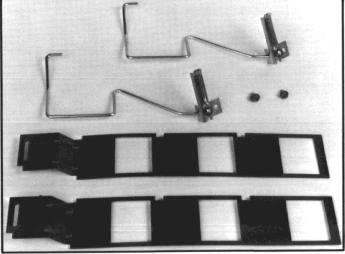
② Includes mounting hardware.

Series 2100/Five Star Bus System Parts

Ref. No.	Description	Style Number	List Price
6	Horizontal Bus Insulator Kit (4 Assemblies)	4719A91G11	\$108
7	Vertical Bus Insulator Kit (6 Assemblies)	4719A91G12	161
12	Vertical Bus Barriers Standard, Flat Barrier Kit includes One Barrier,		
	12 Covers and Clips (Glass Polyester) Labyrinth Barrier Kit includes Front and Rear	4719A91G13	170
	Barrier, Two Bus Supports and Hardware (Does not Include Shutters)	4719A91G14	197
	Complete Shutter Kit (Six Included)	4719A91G15	113
	Horizontal Bus – See Page 6		
	Vertical Bus Assembly – See Page 6	*********	



9" Horizontal Barrier Kit

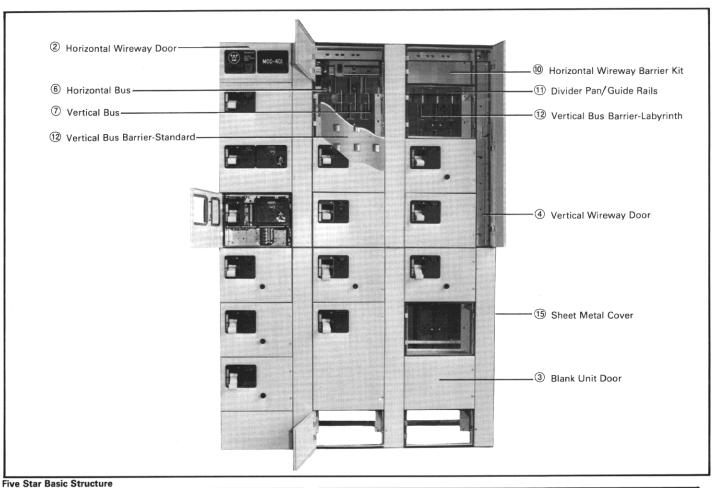


Shutter Kit 4719A91G15

³ Does not include mounting screws. If required, order sheet metal mounting kit.

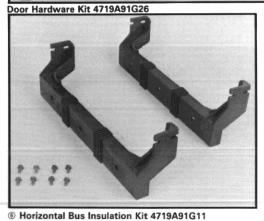
⁽⁴⁾ In view of new door design effective October 1, 1983, if replacing hinge, door must also be replaced.

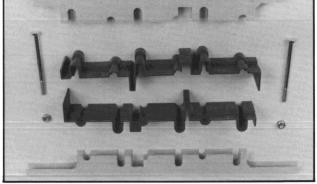






① Divider Pan Kit 4719A91G02





∇ Vertical Bus Insulation Kit 4719A91G12



Section 1 - Series 2100/Five Star Motor Control Centers, Continued

	ontal Bus	Bar Kits RMS Bus Br	acing ①			
Struc No.	tures Length	Bar Size	Bars per Ph.	Style Number	Ampere Rating®	List Price
INO.	Length				UL/NĚMA	
Alum	inum					
1 2 3	20" 40" 60"	.25" X 2.00"	1	4719A97G01 4719A97G02 4719A97G03	600/600	\$ 486 842 1197
1 2 3	20'' 40'' 60''	.25" X 3.50"	1	4719A97G04 4719A97G05 4719A97G06	/800	519 906 1294
1 2 3	20" 40" 60"	.25" X 2.00"	2	4719A97G07 4719A97G08 4719A97G09	800/1000	576 1021 1465
1 2 3	20" 40" 60"	.25" X 3.50"	2	4719A97G10 4719A97G11 4719A97G12	1000/1200	587 1044 1501
1 2 3	20" 40" 60"	.25" X 2.50"	3	4719A97G13 4719A97G14 4719A97G15	1200/	608 1085 1562
Silve	Plated Cop	oper				
1 2 3	20'' 40'' 60''	.25" X 2.00"	1	4719A97G28 4719A97G29 4719A97G30	600/600	519 906 1294
1 2 3	20" 40" 60"	.25" X 2.50"	1	4719A97G31 4719A97G32 4719A97G33	/800	551 971 1391
1 2 3	20'' 40'' 60''	.25" X 3.50"	1	4719A97G34 4719A97G35 4719A97G36	/1000	608 1085 1562
1 2 3	20" 40" 60"	.25" X 2.00"	2	4719A97G40 4719A97G41 4719A97G42	/1200	631 1130 1738
1 2 3	20" 40" 60"	.25" X 3.00"	1	4719A97G37 4719A97G38 4719A97G39	800/	551 971 1391
1 2 3	20" 40" 60"	.25" X 3.50"	2	4719A97G43 4719A97G44 4719A97G45	1200/	637 1143 1650

65 000 Ampere RMS Rus Bracing (1)

65,000 Ampe	re RMS Bus Bracing	g U	
Ampere Rating	Type Mounting	Style Number	List Price
Copper®			
300	Front	4719A80G01	\$ 576
600	Front/BB	4719A80G02	931
800	Front	4719A80G04	931
1200	Front	4719A80G05	1332

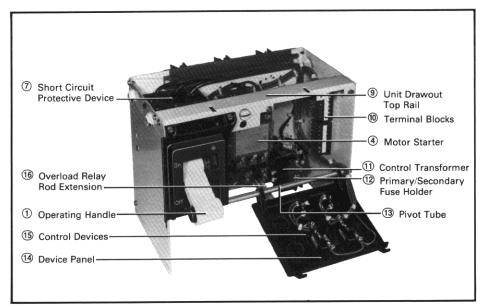
1	Refer	to	Westinghouse	for	higher	hus	bracing
·	neiei	w	vvestiligilouse	101	mynei	Dus	Diacing.

U.L. – 50°C temperature rise.
 NEMA – 65°C temperature rise.
 Utilize in lieu of aluminum.

Horizontal E	Bus	Vertical Bu	s	Style	List	
Ampere Rating	Bars/ Ph.	Ampere Rating	Mat'l.	Number	Price	
600	1	300 600 800 1000 1200	Cu Cu Cu Cu	4719A97G64 4719A97G65 4719A97G66 4719A97G67 4719A97G68	\$32 43 43 65 65	
800/1000	2	300 600 800 1000 1200	Cu Cu Cu Cu	4719A97G72 4719A97G73 4719A97G74 4719A97G75 4719A97G76	43 54 54 81 81	
1200	3	300 600 800 1000 1200	Cu Cu Cu Cu	4719A97G80 4719A97G81 4719A97G82 4719A97G83 4719A97G84	54 65 65 97 97	

Horiz. Bus Rating, Amps		Bus	Bars	Style	List
NEMA	UL	Size, In's.	per Ph.	Number	Price
Copper (S	ilver Plated)				
600	600	2.00"	1	4719A97G86	\$ 70
800		2.50"	1	4719A97G87	70
	800	3.00′′	1	4719A97G88	124
1000		3.50"	1	4719A97G89	124
1200	1000	2.00′′	2	4719A97G90	232
1400	1200	2.50''	2	4719A97G91	232
Aluminum	1				
600	600	2.00	1	4719A97G92	54
800		3.50	1	4719A97G93	54
1000	800	2.00	2	4719A97G94	108
1200	1000	3.50	2	4719A97G95	161
	1200	2.50	3	4719A97G96	215





Combination Starter Types

Combination Ctarter	1 y pcs		
Description	Designati	ion	
	Fusible	Circuit	Circuit Breaker With Current Limiter
Full Voltage, Non-			
Reversing	204	206	207
Full Voltage, Reversing Red. Voltage, Autotrans-	214	216	217
former Type	604	606	607
Winding Type Full Voltage, Non-Reversing,	704	706	707
2 Speed, 2 Windings Full Voltage, Non- Reversing,	954	956	957
2 Speed, 1 Winding Red. Voltage Closed	944	946	947
Transition, Star Delta	894	896	897

Series 2100/Five Star Draw-Out Unit Parts

Ref. No.	Description	Style Number	List Price
1	Operating Handle Mechanism Kits (3 Incl.)		
	Circuit Breaker Units:	4719A92G43	\$ 97
	FB/MCP (Kit of 3)	4719A92G43 4719A92G05	\$ 97 161
	KB (Kit of 3)	4719A92G05 4719A88G01	97
	HFD/HMCD (Kit of 3)	4719A88G01 4719A89G01	161
	HJD/HKD (Kit of 3)	4719A92G06	161
	MA/MC (Kit of 1)	4719A92G00	80
	NB (Kit of 1)	4719A92G07	80
	FCL (Kit of 3)	4719A92G08	97
	LCL (Kit of 3).	4719A92G44	80
	Fusible Switch Units:	47 13A32G43	
	30/60/100A DS Switch (Kit of 3)	4719A92G09	97
	200/400A DS Switch (Kit of 3)	4719A92G10	161
4	Motor Starters – Refer to Westinghouse Line of A/200 Motor Controllers.		
9	Unit Drawout Top Rail Kit (3 Incl.)	4719A92G02	55
10	Terminal Blocks (Side Mtd.) (25 Blocks)		
	Red, 7 Circuit, Fixed Pressure	4719A92G28	172
	Yellow, 7 Circuit, Pull-Apart, Screw	4719A92G30	377
	White, 6 Circuit, Ring Type, Pull-Apart, Screw. For Front Rail Mounted. Refer to Type W.	4719A92G29	377
11	Control Transformers, 480, 240/120V,		
	1 Phase (Does not include fuseholder)		
	50VA (Kit of 4)	4719A92G46	128
	75VA (Kit of 4)	4719A92G47	175
	100VA (Kit of 2)	4719A92G48	120
	150VA (Kit of 2)	4719A92G49	130
	200VA	4719A92G50	76
	250VA	4719A92G51	98
	300VA	4719A92G52	119
	350VA	4719A92G53	196
	500VA	4719A92G54	260

Ref. No.	Description	Style Number	List Price
12	Primary/Secondary Fuse Holder Kit (10 each, Fuses not Incl.)	4719A92G01	\$108
13, 14	Device Panel/Pivot Tube Kit (6 Incl.)	4719A92G03	161
15	Control Devices – Refer to Westinghouse line of PB-2 Pilot Controls		
	Single to Dual Mounting Series C Feeder Breaker Kit (150A Max.).	4719A92G31	228
	Single to Dual Mounting Feeder Switch Kit (60A Max.)	4719A92G32	228
	HFD/HMCP Series C Mod. Kit	4715A23G01	115
	HJD/HKD Series C Mod. Kit	4715A23G02	180
16	Overload Relay Reset Button and Reset Rod Extension Kit	4719A92G04	108
	Short Circuit Protective Devices – Refer to Westinghouse Line of Molded Case Circuit Breakers and DS Switches.		
	Fuse Clip Kits $\ensuremath{\mathfrak{D}}$ (Includes line and load blocks with clips)		
	30A Non-rejection (Kit of 3 Pairs). 30A Rejection (Kit of 3 Pairs). 60A Non-rejection (Kit of 3 Pairs). 60A Rejection (Kit of 3 Pairs). 100A Non-rejection (Kit of 3 Pairs). 100A Rejection (Kit of 3 Pairs). 200A Non-rejection (Kit of 1 Pair). 200A Rejection (Kit of 1 Pair). 400A Non-rejection (Kit of 1 Pair). 400A Rejection (Kit of 1 Pair).	4719A92G33 4719A92G34 4719A92G35 4719A92G37 4719A92G37 4719A92G39 4719A92G40 4719A92G41 4719A92G42	89 98 98 115 115 213 213 226 226

① Certain fusible designs have line fuse clips mounted on the DS Switch. Non-rejection clips can be removed from the mounting block and mounted on the switch. Rejection clips are non-removable. Order a complete switch assy.

February 15, 1987 Discount C31-7

Page 8



Section 2 - Type W Motor Control Center

Description

Vertical structures are normally 90" high with 72" of usable vertical compartment space. Structure depth is either 15" or 20" for front mounted designs, and 20" deep for back-to-back design. Vertical sections may be bolted together forming a single line-up with continuous horizontal bus, and open

horizontal wireways. Unit height in six inch increments resulting in simple cell interchangeability. Each six (6) inch increment equals 1× unit space. Structure parts were painted light gray (ANSI-61 or ANSI-70), and unit and wireway doors were painted dark charcoal gray.

Index	
Enclosure Parts	Page 8
Bus Parts	Page 8
Bus Bar Assemblies	Page 10
Drawout Unit Parts	Page 11

Enclosure Parts

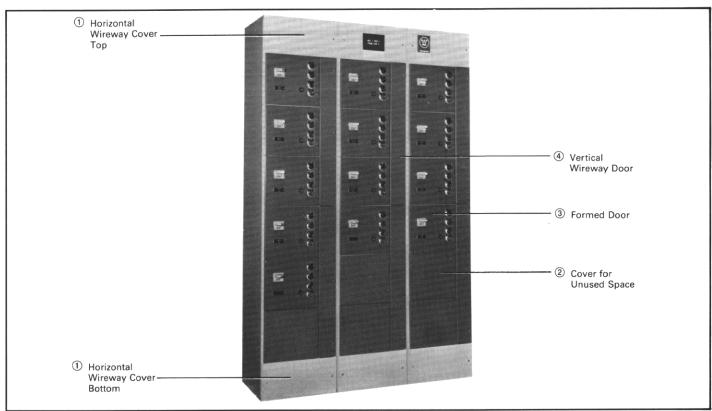
Ref. No.	Description Style Numb		tyle umber	List Price	
1	Top or B	ottom Flat	Horizontal Wireway Cover®		
2			Unused Space®	719A93G27	\$ 55
				719A93G28	55
				719A93G29	32
3		Door Kit®		ute	
			Disconnect and Device Panel Cuto	uta,	
			ot with Plug. Disconnect		
	Starter Size	Door Height	Disconnect		
	2156				
	1 or 2	2X	HMCP, MCP, FB, HFB (Kit of 2).		
	1 or 2	3X	HMCP, MCP, FB, HFB		
	1 or 2	зх	HFD, FB TRI-PAC		
	3	3X	HMCP, MCP, FB, HFB, HFD		
	3	4X	FB TRI-PAC		
	1 or 2	2X	DS Switch (Kit of 2)		
	1 or 2	3X	DS Switch		
		4X	DS Switch.	4719A93G0	
	3	*^			
	3	2X	Dual FB (Kit of 2)		
		2X 2X	Dual DS Switch (Kit of 2)	4719A93G2	0 77
		2X 2X		4719A93G2	0 77

1 Includes Mounting Hardware.

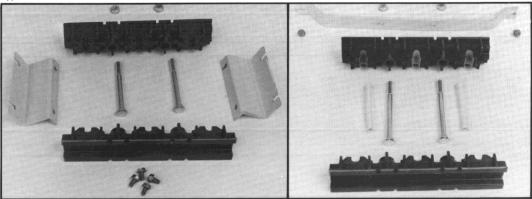
Bus Parts

Ref. No.	Description	Style Number	List Price
5	Horizontal and Vertical Bus Insulator Kit Includes Horizontal and Vertical Bus Supports and Hardware (Ten (10) included)	4719A93G09	\$269
6	Vertical Bus Isolating Barrier Kit Includes Barrier, 12 Stab Cutouts, 24 Clips	4719A93G10	248
7	Unit Divider Pan/Guide Rail Kit (Five (5) Incl.)	4719A93G11	118

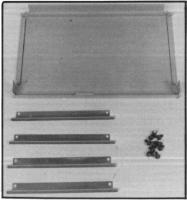




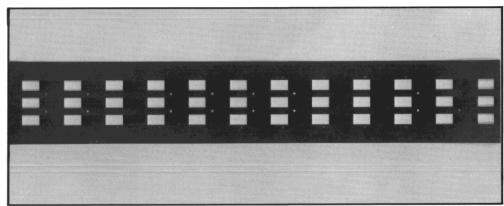
Type W Basic Structure



Bus Insulator Kit 4719A93G09



Divider Pan/Guide Rail Kit 4719A93G11



Vertical Bus Barrier Kit 4719A93G10



Section 2 - Type W Motor Control Centers, Continued

Horizontal Bus Bar Assemblies 22,000 Amperes RMS Bus Bracing

Horiz. Bus Amperes	Structure Width	Bus Bar Size	Style Number	List Price
Aluminum				-
600	19 ln.	1/4 ln. X 2 ln.	4719A93G31	\$355
	32½ ln.	¼ In. X 2 In.	4719A93G32	711
800	19 ln.	1/4 ln. X 3 ln.	4719A93G33	355
	32½ ln.	1/₄ In. X 3 In.	4719A93G34	775
1000	19 In.	1/4 ln, X 4 ln.	4719A93G35	445
	32½ In.	1/4 ln. X 4 ln.	4719A93G36	884
Copper				
600	19 in.	1/4 ln. X 2 ln.	4719A93G37	388
	32½ ln.	1/4 ln. X 2 ln.	4719A93G38	775
800	19 ln.	1/4 ln. X 3 ln.	4719A93G39	420
	321/2 in.	1/4 ln, X 3 ln,	4719A93G40	840
1000	19 in.	1/4 ln. X 4 ln.	4719A93G41	477
	32⅓ in.	1/4 ln, X 4 ln.	4719A93G42	954

Vertical Bus Bar Assemblies

22,000 Amperes RMS Bus Bracing

Vert. Bus	Enclosure	Style	List
Amperes	Туре	Number	Price
300	Front	4719A93G45	\$445
600	Front	4719A93G47	800
500	Back-to-Back	4719A93G46	614

Type W Splice Plates Silver Plated Copper

Horiz, bus	Bus Bar	Style	List	
Amperes	Size	Number	Price	
600-NEMA	1/4 in. X 11/2 in.	4719A93G51	\$ 54	
800	1⁄4 ln. X 2 ln.	4719A93G52	54	
800-UL	1/4 In. X 3 In.	4719A93G53	80	
1000	1/4 In. X 4 In.	4719A93G54	108	

Style Number

4719A94G22 4719A94G24 4719A94G26 4719A94G28 4719A94G30

4719A94G18

4719A94G19

4719A94G20

4719A94G21

List Price

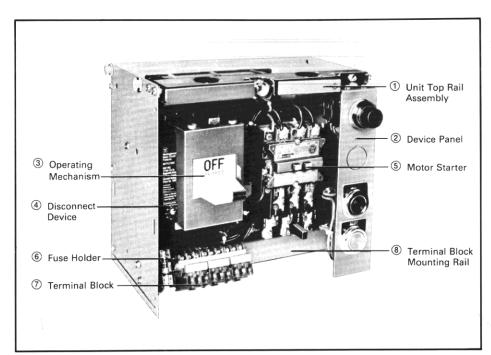
222

222

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222





Description	Catalog Number Designation				
· .	Fusible	Circuit Breaker	Circuit Breaker With Current Limiter		
Full Voltage, Non Reversing	204	206	207		
Full Voltage, Reversing	214	216	217		
Red. Voltage, Resistor Type Red. Voltage, Autotransformer	404	406	407		
Type	604	606	607		
Type	704	706	707		
Two Speed	904	906	907		

Drawout Unit Parts ①

Drav	vout Unit Parts U				
Ref. No.	Description	Style Number	List Price	Ref. No.	Description
1	Unit Top Rail Assembly (3 incl.)	4719A94G32	\$161		Control Transformers Refer to Five Star Identification Page 7.
2	Device Panel Kit (Incl. 10 Ass'y.) with: Four (4) Knockouts, 2 X Unit	4719A94G01 4719A94G02	140 183		Fuse Clip Kits (Includes Line and Load Blocks with Clips).
3	Operating Mechanisms HMCP/HFD/MCP/FB Circuit Breaker (Kit of 3) HJD/HKD/KA/KB/MCP/250 Circuit Breaker LA/MCP400 Circuit Breaker MA Circuit Breaker NB Circuit Breaker 30/60/100 Amp DS Switch (Kit of 3) 200/400 Amp DS Switch Disconnect Devices – Refer to Westinghouse Line of Molded Case Circuit Breakers and DS Disconnect Switches	4719A94G03 4719A94G04 4719A94G05 4719A94G06 4719A94G07 4719A94G08 4719A94G09	123 54 54 80 80 113 54		30A Non-rejection (Kit of 3 Pairs). 60A Non-rejection (Kit of 3 Pairs). 100A Non-rejection (Kit of 3 Pairs). 200A Non-rejection (Kit of 1 Pair). 400A Non-rejection (Kit of 1 Pair). Single to Dual Mounting Feeder Breaker Kit (135A Max.). Single to Dual Mounting Feeder Switch Kit (60A Max.). FA to HFD Breaker Mounting Kit (3 Included).
5	Motor Starters – Refer to Westinghouse Line of A/200 Motor Control.				DE-ION to DS Switch Mounting (3 Included)
6	Fuse Holder Kit (10 Incl.)	4719A94G10	108		
7	Terminal Blocks Kit (Rail Mounted) Red, Three (3) Circuit, Pressure (Kit of 50)	4719A94G11 4719A94G12 4719A94G13	172 377 377		
8	Terminal Block Mounting Rail Kit (10 Incl.)	4719A94G14	86		

① For overload relay reset button and reset rod extension kit style 4719A92G04, refer to page 7.

February 15, 1987 Discount C31-7

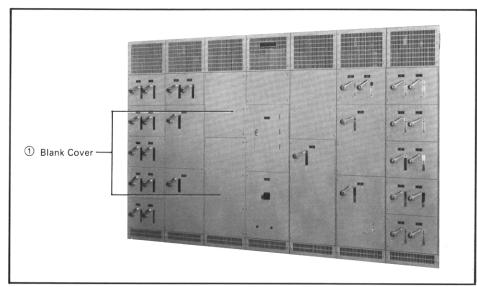


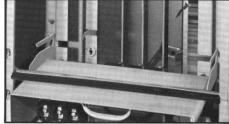
Section 3 - Type 11-300 Motor Control Centers

Description

Vertical structures are normally 90" high, 20" wide and 20" deep, for either front mounted, or back-to-back mounting. Vertical sections may be bolted together forming a single line-up with continuous horizontal

bus and open horizontal wireways. Unit height is measured in either $9\frac{1}{3}$ " or 14" increments up to a maximum of 70" of usable vertical space. ANSI 61 light gray enamel was used on all structural parts.





Divider Pan/Guide Rail Kit

Type 11-300 Base Structure

Enclosure Parts

Ref. No.	Description	Style Number	List Price
1	Blank Front Covers for Unused Space 4.67 In. High (Kit of 4)	112D177H15 112D177H01 112D177H02	\$ 97 161 242
2	Bus Support Kit	4719A95G01	323

Kits for Drawout Units

Ref. No.	Description	Style Number	List Price
4	Guide Rail Kit (3 Incl.).	4719A95G02	\$161
	For FA to HFD Breaker Mounting Kit (3 Incl.)	4719A96G04	222
	Handle Mechanisms: See Slide Plate handle Mechanism PL 29-520.		

Note: Order 11-300 components indicated on this page: Entry Point FVU

Westinghouse Electric Corporation Distribution and Control Business Unit Construction Equipment Division Pittsburgh, Pennsylvania, U.S.A. 15220