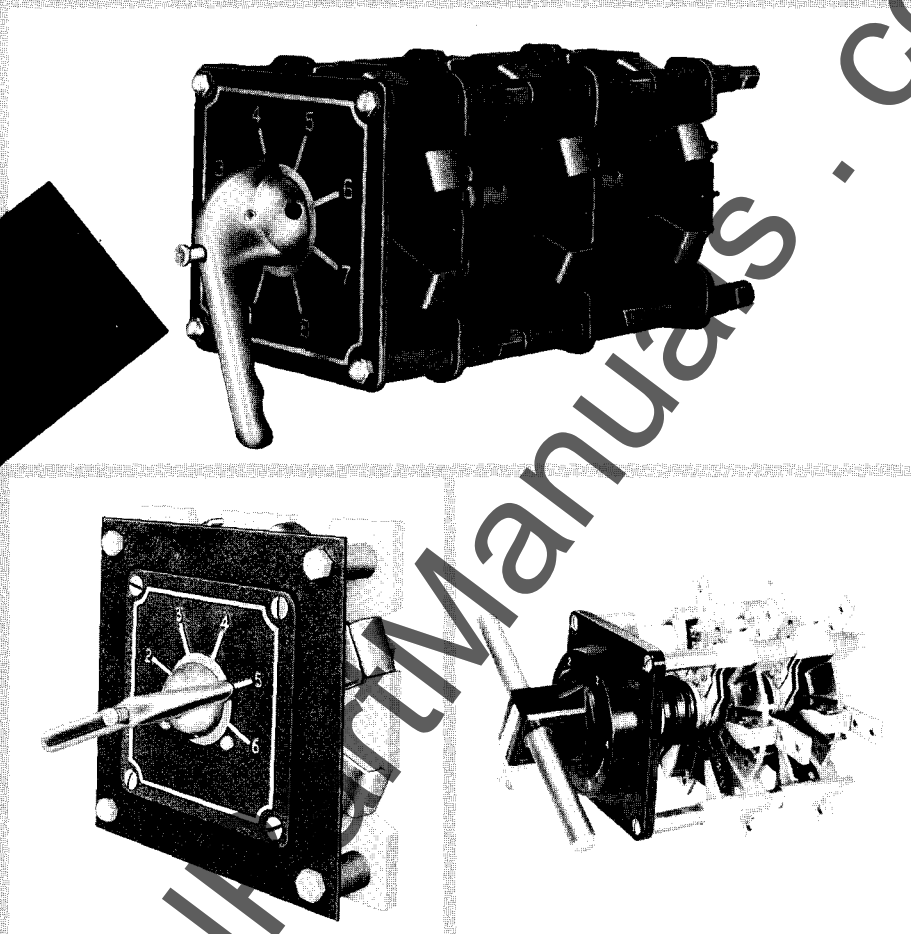




Tap Switches

CONTENTS

Description	Class	Pages
Type RT General Information	9830	3
Type R & RT—Unassembled.....	9830	4-5
Type R & RT—Assembled	9830	5-7
R & RT Dimensions	9830	8-9
Type V—Unassembled	9831	10
Type V—Assembled.....	9831	11
Type V—Manually Operated, Dims.....	9831	12
Type V—Motor Operated, Dims.....	9831	13-14
Type V—Motor Operated.....	9831	15



SQUARE D COMPANY

TYPE R AND RT ROTARY TAP SWITCHES

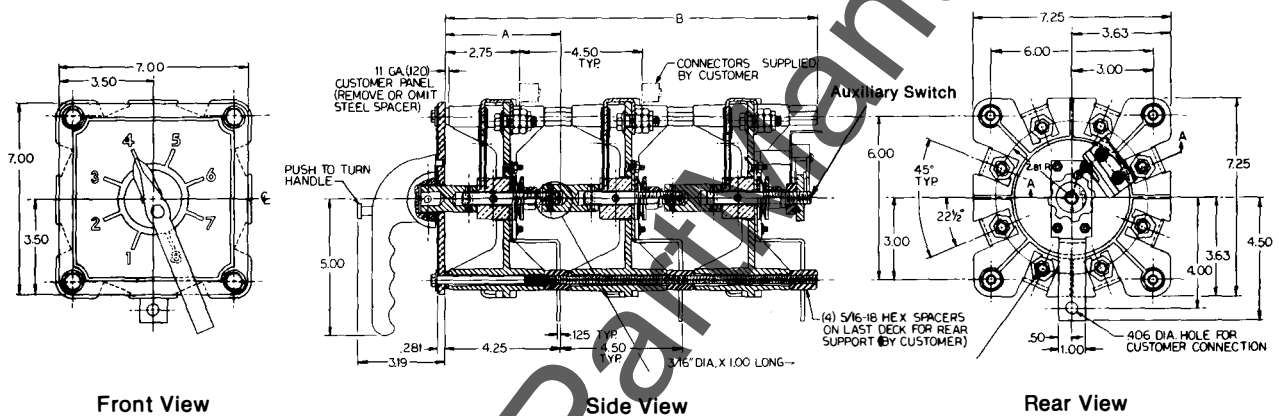
CLASS
9830

NON-LOAD BREAK, 600 VOLTS AC OR DC

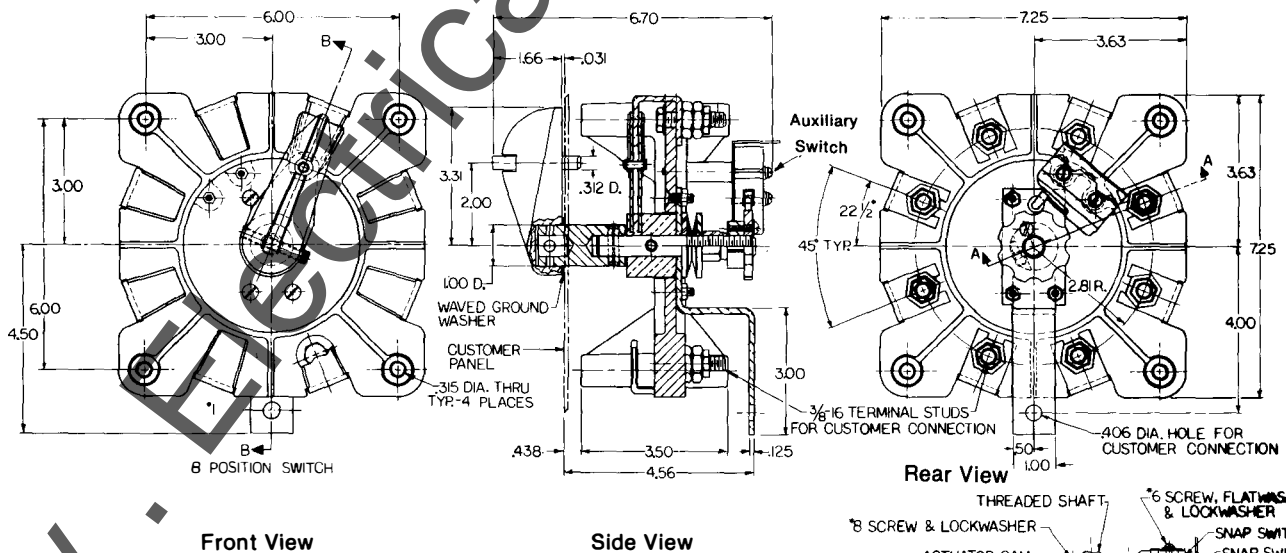
GENERAL INFORMATION

The 100/200 ampere rotary tap switches permit factory or customer modifications to the basic single deck switches. It is possible to add up to two additional decks to the basic single phase switch. One or more decks can be rotated using the same operating handle (pistol grip only). This feature permits the user to control one, two or three phase circuits with ratings up to 200 amperes at 600 Vac./600 Vdc. Auxiliary switch type XT 1-200 can be added to the last deck assembly to provide a signal which can be used to signal other upstream equipment to remove power during tap changing. Single phase switch assemblies are furnished with a welder type handle.

TYPE RT ROTARY TAP SWITCH With Front Plate & Pistol Grip Handle



SINGLE PHASE TYPE RT ROTARY TAP SWITCH Without Front Plate & With Welder Handle



DIMENSIONS NOT FOR CONSTRUCTION UNLESS ENDORSED



© Square D Company 1980

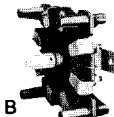
SQUARE D COMPANY

TYPE R AND RT ROTARY TAP SWITCHES

JANUARY, 1981
Supersedes Class 9830
dated October, 1975

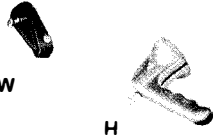
UNASSEMBLED—NON-LOAD BREAK, 600 VOLTS AC OR DC

TYPE R BASIC SWITCHES DECKS Without Operating Handle

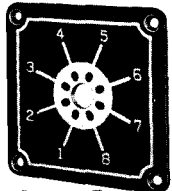
	Ampere Rating	4-Points		6-Points		8-Points ♦	
		Type ●	Price	Type ●	Price	Type ●	Price
	100/200 400	RT-204-B	\$84.00	RT-206-B R-406-B	\$ 94.00 172.00	RT-208-B R-408-B	\$105.00 191.00

MODIFICATION KITS All Necessary Parts To Add Features To Basic Switches

HANDLES With Mounting Bolt

	Ampere Rating ●	Handle Type	Type Number	Price
	100/200 400 100/200 & 400	Welder * Welder * Pistol Grip	W-1 W-4 H	\$17.00 19.00 22.00

FRONT POSITIONING PLATES With Mounting Supports & Hardware

	Ampere Rating	Positions						Price
		3	4	5	6	7	8	
	100/200 400	23-HT 43-H	24-HT 44-H	25-HT 45-H	26-HT 46-H	27-HT 47-H	28-HT 48-H	\$26.00 32.00

Example—48-H is a 400 ampere size, 8 Point Plate for use on Type No. R-408-H with Pistol Grip Handle.

STATIONARY CONTACTS With Mounting Hardware

	Ampere Rating	Type Numbers ●	Price
	200 400	C-200 C-400	\$ 5.00 10.00

AUXILIARY SWITCH Including Actuator and Mounting Hardware. Snap-Switch Type, Single Pole, Double Throw, Actuated when Main Switch is in closed position.

	Ampere Rating	Type Number ●	Price ‡
	100/200 400	XTI-200 XI-400	\$39.00 39.00

*Welder Type Handles will not fit with front positioning Plates.
‡ Add \$10.00 for factory assembly of auxiliary switches.

ORDERING INFORMATION

SELECT:

1. Basic Switch Deck—Ampere rating and positions to suit application
2. Handle Type—To match switch rating
3. Front Positioning Plate—To match ampere rating and number of taps required
4. Contacts—If additional taps are required.
5. Auxiliary Switch—Type to fit switch size (if required).

Prices subject to change without notice.

M DISCOUNT

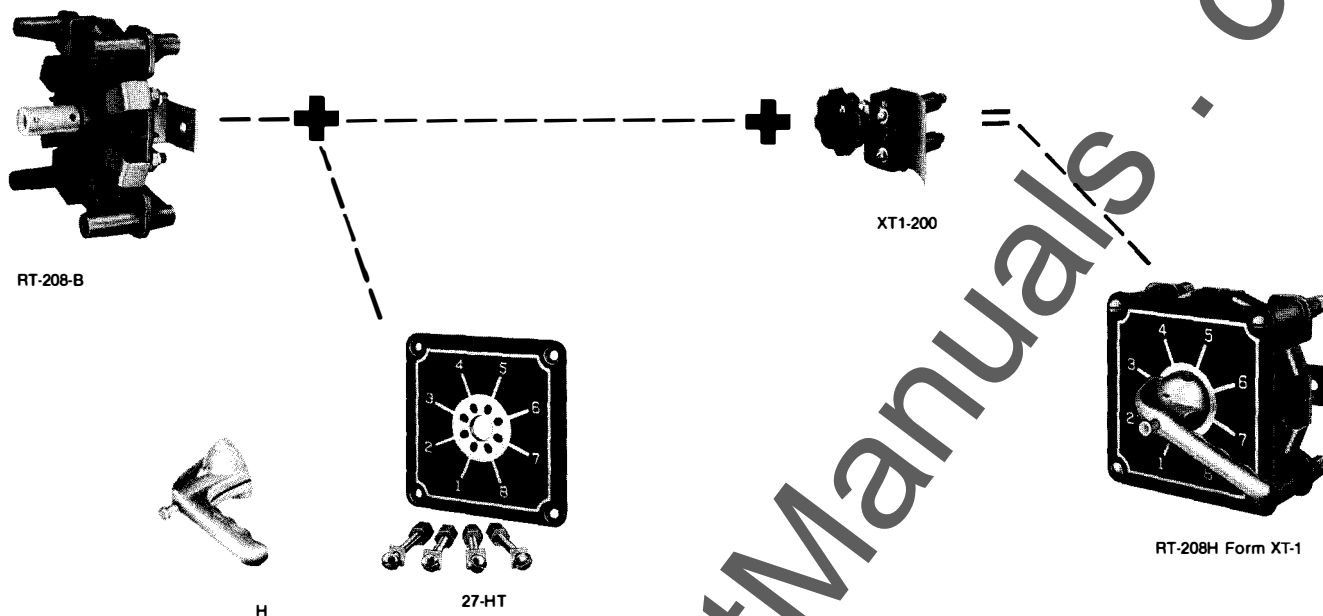
SQUARE D COMPANY



TYPE R ROTARY TAP SWITCHES

CLASS
9830

UNASSEMBLED—NON-LOAD BREAK, 600 VOLTS AC OR DC



ORDERING EXAMPLE

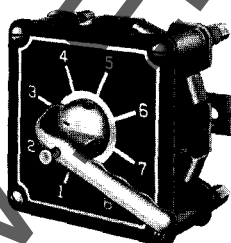
Following is write-up to obtain the equivalent of a Class 9830 Type RT-207H, Form XT-1 switch from stock parts:

- 1—Class 9830, Type RT-208B (Basic Switch)
- 1—Class 9830, Type H (Pistol Grip Handle)
- 1—Class 9830, Type 27-HT (Front Positioning Plate)
- 1—Class 9830, Type XT1-200 (Auxiliary Contact Kit)

NON-LOAD BREAK, 600 VOLTS AC OR DC

Class 9830 tap switches are designed to change taps on resistance welders, electric furnaces, induction heaters, rectifiers, transformers and other applications which require multiple-point power switching. Class 9830 Type R and Type RT switches described on this page are used extensively on resistance welding machines.

WITH FRONT PLATE AND PISTOL GRIP HANDLE, 600 VOLTS AC OR DC



RT-208H

Ampere Rating	3 Points		4 Points		5 Points		6 Points		7 Points		8 Points	
	Type	Price	Type	Price	Type	Price	Type	Price	Type	Price	Type	Price
100/200	RT-203-H	\$134.	RT-204-H	\$138.	RT-205-H	\$141.	RT-206-H	\$146.	RT-207-H	\$150.	RT-208-H	\$153.
400	R-403-H	208.	R-404-H	216.	R-405-H	224.	R-406-H	231.	R-407-H	239.	R-408-H	247.
800	For Continuous-Duty Switches over 400 amperes see Class 9831, Type V Tap Switches											
1200												

Ampere Rating	9 Points		10 Points		11 Points		12 Points		Series-Parallel	
	Type	Price	Type	Price	Type	Price	Type	Price	Type	Price
100/200	R-209-H	\$216.	R-210-H	\$221.	R-211-H	\$228.	R-212-H	\$233.	R-201-H	\$167.
400	R-409-H	299.	R-410-H	313.	R-411-H	326.	R-412-H	340.	R-401-H	258.
800	For Continuous-Duty Switches over 400 amperes see Class 9831, Type V Tap Switches									
1200										

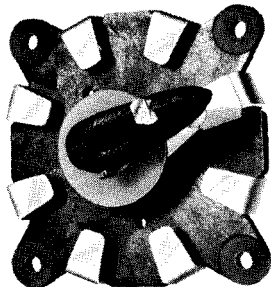
Prices subject to change without notice.

TYPE R ROTARY TAP SWITCHES

JANUARY, 1981
Supersedes Class 9830
dated October, 1975

ASSEMBLED—NON-LOAD BREAK, 600 VOLTS AC OR DC

BASIC SWITCH ONLY, WITHOUT FRONT PLATE, WITH WELDER TYPE HANDLE, 600 VOLTS AC OR DC

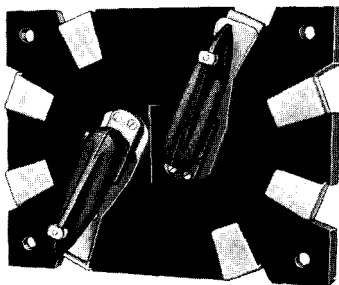


TYPE R-208

Ampere Rating	3 Points		4 Points		5 Points		6 Points		7 Points	
	Type	Price	Type	Price	Type	Price	Type	Price	Type	Price
100/200	RT-203	\$111.	RT-204	\$114.	RT-205	\$119.	RT-206	\$122.	RT-207	\$126.
400	R-403	185.	R-404	192.	R-405	200.	R-406	208	R-407	216.

Ampere Rating	8 Points		9 Points		10 Points		11 Points		12 Points		Series-Parallel	
	Type	Price	Type	Price	Type	Price	Type	Price	Type	Price	Type	Price
100/200	RT-208	\$131.	R-209	\$135.	R-210	\$139.	R-211	\$144.	R-212	\$148.	R-201	\$144.
400	R-408	224.	R-409	231.	R-410	239.	R-411	246.	R-412	254.	R-401	243.

BASIC DOUBLE TAP SWITCHES, WITHOUT FRONT PLATE, WITH WELDER TYPE HANDLE, 600 VOLTS AC OR DC



Type R 444

Ampere Rating	2 & 2 Points		2 & 4 Points		4 & 4 Points		4 & 6 Points	
	Type	Price	Type	Price	Type	Price	Type	Price
100/200	R-222	\$374.	R-224	\$384.	R-244	\$392.	R-246	\$400.
400	R-422	389.	R-424	432.	R-444	447.	R-446	469.

WITH PULL-TO-TURN AUXILIARY SWITCH, 600 VOLTS AC OR DC

Ampere Rating	3 Points		4 Points		5 Points		6 Points		7 Points		8 Points	
	Type	Price	Type	Price	Type	Price	Type	Price	Type	Price	Type	Price
100/200	RT-203-W	\$367.	RT-204-W	\$376.	RT-205-W	\$381.	RT-206-W	\$387.	RT-207-W	\$392.	RT-208-W	\$397.
400	R-403-W	397.	R-404-W	410.	R-405-W	421.	R-406-W	435.	R-407-W	446.	R-408-W	457.

Ampere Rating	9 Points		10 Points		11 Points		12 Points		Series-Parallel	
	Type	Price	Type	Price	Type	Price	Type	Price	Type	Price
100/200	R-209-W	\$421.	R-210-W	\$435.	R-211-W	\$446.	R-212-W	\$457.	R-201-W	\$437.
400	R-409-W	486.	R-410-W	502.	R-411-W	516.	R-412-W	535.	R-401-W	411.

TYPE R PULL-TO-TURN WITH AUXILIARY SWITCH

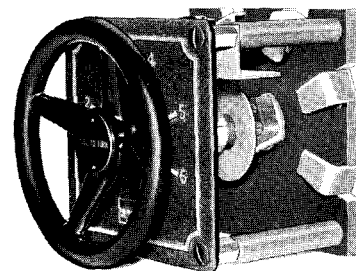
The two-direction motion of this switch makes it well suited to applications requiring operation of a remote electrical device before the power contacts of the tap switch open.

Sequence of operation of the switch is:

Pull—Actuates auxiliary switch to pilot remote device, such as a contactor.

Turn—Turn to desired position, release handle (push in) and auxiliary switch is returned to original state.

See Class 9830, Page 5, for Modifications and Special Features



TYPE RT-206-W

Molded Wheel Handle
And Positioning Plate
Are Standard Equipment

ORDERING INFORMATION REQUIRED

1. Class, Type number and Form letters (if any) of switch.
2. Number of points.
3. Voltage and ampere rating.
4. If special features (other than listed on page 4) are desired, order as Class 9830, similar to Type _____, Form _____, except (Clearly describe special feature).

Prices subject to change without notice.

M DISCOUNT

SQUARE D COMPANY



TYPE R ROTARY TAP SWITCHES

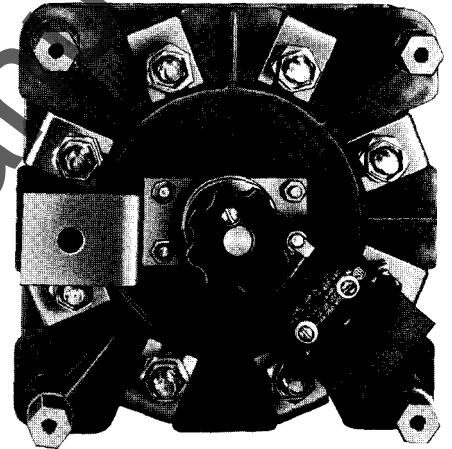
CLASS
9830

ASSEMBLED—NON-LOAD BREAK, 600 VOLTS AC OR DC

Ratings: Type R and RT switches are rated 100/200 and 400 amperes at 600 volts AC or DC for continuous general-duty. For continuous-duty over 400 amperes see Class 9831, Type V heavy-duty tap switches.

Construction: The current-carrying parts of Type R and RT tap switches are made of formed copper. Standard switches are without OFF position. Switches are available with any number of points up to twelve and series-parallel. A switch that operates series-parallel is constructed so that in one position two loads, such as transformer windings, are connected in series. Moving the switch to the other position connects the loads in parallel.

Auxiliary Switches: To avoid operating the Type RT tap switch under load, auxiliary switches can be used to actuate remote electrical devices before opening of the power contacts of the main switch. Auxiliary switches, single-pole, double-throw are rated 15 amperes continuous at 120, 240 or 480 volts AC.



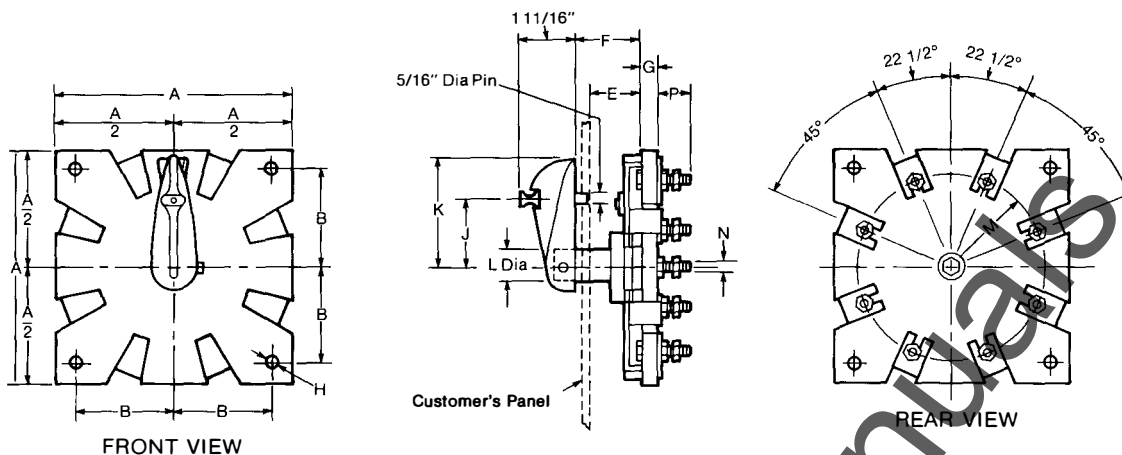
Type RT Tap Switch
With Auxiliary Switch

MODIFICATIONS AND SPECIAL FEATURES									
Item	Form Letter	Description	Price						
1	XT-1	Snap-switch type auxiliary switches, single-pole, double-throw, actuated when main switch is in closed position, can be added to Type R & RT tap switches as follows: One auxiliary switch—	\$39. ‡						
2	XT-2	Two auxiliary switches—	65. ‡						
3	AG	Silver-plating—"Basic" price, in table below, includes plating of blade and all center hinge parts. "Per Point" price covers plating of each clip and associated hardware. Multiply "Per Point" price times number of points and add to "Basic" price to obtain total addition price for silver-plating.							
		<table><tr><td>Ampere Rating</td><td>Basic Price</td><td>Per Point Price</td></tr><tr><td>100/200 400</td><td colspan="2">CONTACT FACTORY FOR PRICING</td></tr></table>	Ampere Rating	Basic Price	Per Point Price	100/200 400	CONTACT FACTORY FOR PRICING		
Ampere Rating	Basic Price	Per Point Price							
100/200 400	CONTACT FACTORY FOR PRICING								
‡Add \$10.00 for factory assembly									

TYPE R ROTARY TAP SWITCHES

JANUARY, 1981
Supersedes Class 9830
dated October, 1975

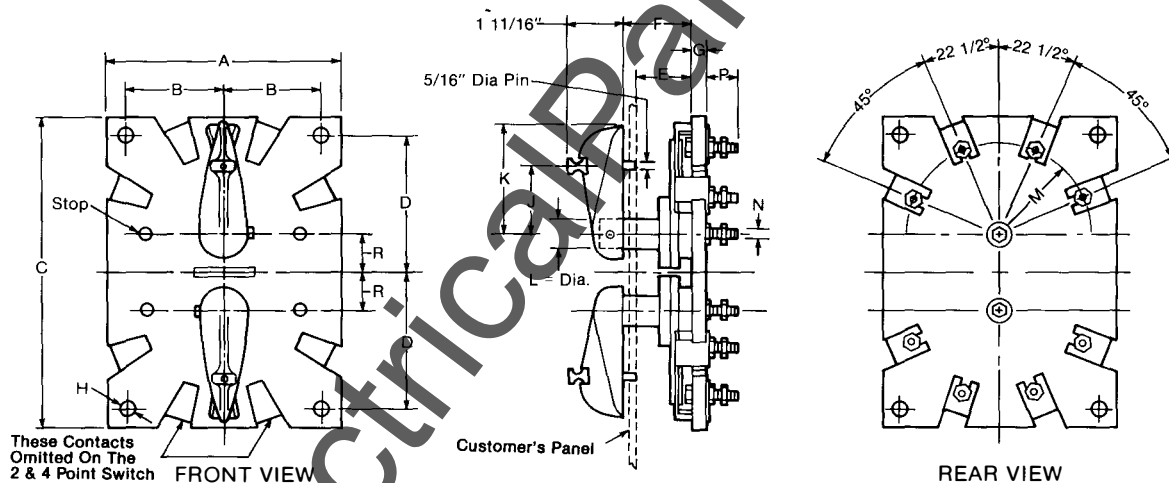
DIMENSIONS (NOT FOR CONSTRUCTION UNLESS ENDORSED)



Type	Ampere Rating	A	B	E	F	G	H	J	K	L	M	N	P
RT-203 to RT-208	200	7 1/4	3	1 1/2	1 1/16	1/2	1 3/32	2	3 1/16	1	2 1 3/16	3/16-16	1
R-403 to R-408	400	10 1/2	4 1/4	1 1/2	1 1 1/16	1/2	1 3/16	3 1/2	4 1 1/16	1	4 1/4	1/2-13	1 1/4

Series-Parallel Tap Switches have same overall and mounting dimensions as 4 point switches.

DOUBLE SWITCH



Type	Ampere Rating	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R
2 and 4 Point	200	7 1/4	3	9 1/2	4 1/8	1 1/2	1 1 1/16	1/2	1 3/32	2	3 1/16	1	2 1 3/16	3/16-16	1	1 1/8
4 and 4 Point	400	10 1/2	4 1/4	13 1/2	5 1/4	1 1/2	1 1 1/16	1/2	1 3/16	3 1/2	4 1 1/16	1	4 1/4	1/2-13	1 1/4	1 1/2

All handles will have latch and will point to same contact as blade.

Submitted For Approval

Record Drawing

Customer _____ C.O. No. _____ Item No. _____
 Job Name _____ F.O. No. _____ Item No. _____
 Submitted By _____ Date _____
 Approved By _____ Date _____

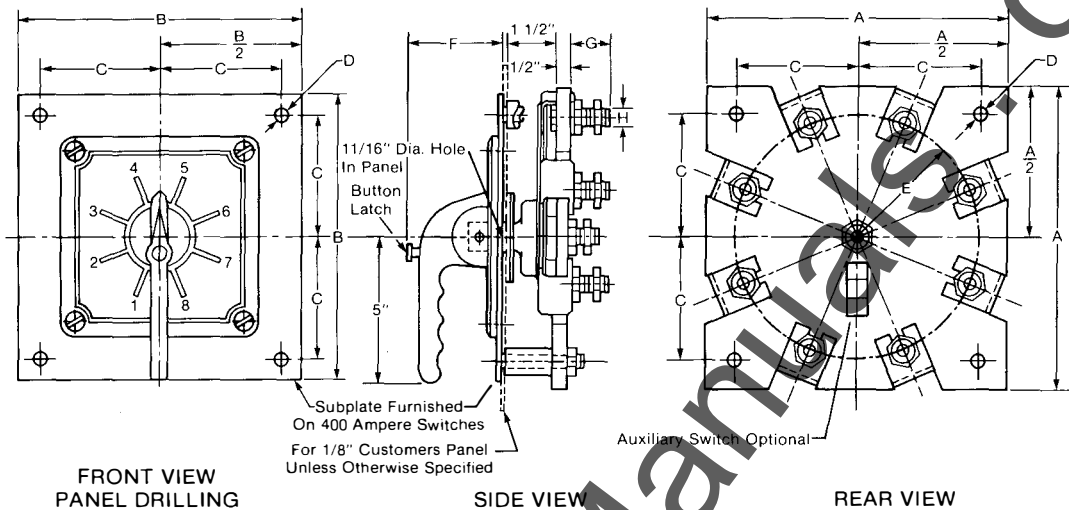


TYPE R AND RT ROTARY TAP SWITCHES

CLASS
9830

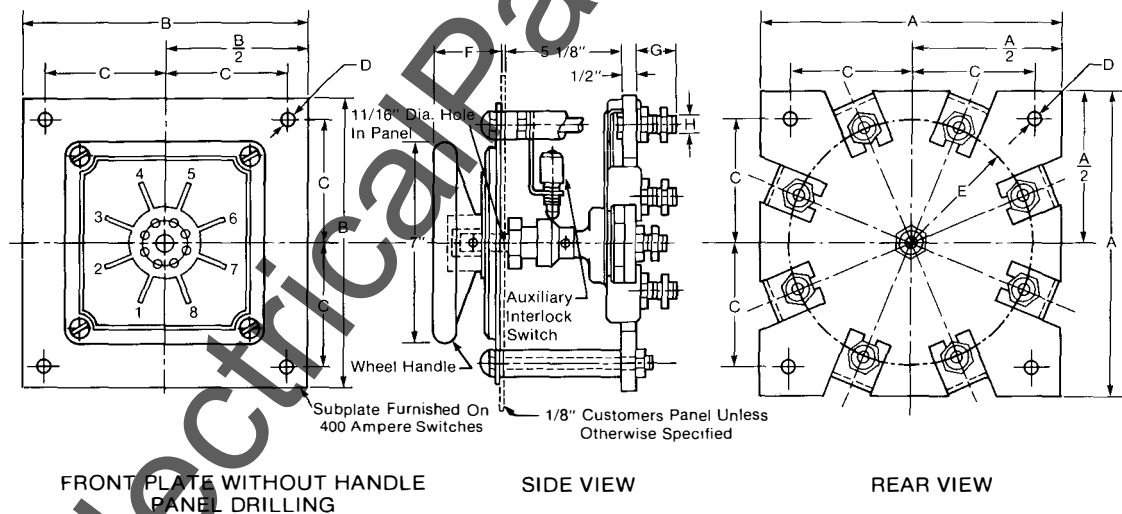
WITH PISTOL GRIP HANDLE & —POSITIONING PLATE

DIMENSIONS (NOT FOR CONSTRUCTION UNLESS ENDORSED)



Type	Ampere Rating	A	B	C	D	E	F	G	H
R-201-W to RT-208-W	200	7 1/4	7	3	1 1/32	2 13/16	2 1/4	1	3/8
R-401-W to R-408-W	400	10 1/2	10	4 1/4	9/16	4 1/4	2 1/4	1 1/4	1/2

PULL-TO-TURN WITH AUXILIARY INTERLOCK



Type	Ampere Rating	A	B	C	D	E	F	G	H
R-201-H to RT-208-H	200	7 1/4	7	3	1 1/32	2 13/16	2 1/4	1	3/8
R-401-H to R-408-H	400	10 1/2	10	4 1/4	9/16	4 1/4	2 1/4	1 1/4	1/2

Series-Parallel Tap Switches have same overall mounting dimensions as 4 point switches. Dimensions for switches with more than 8 points available on request.

Submitted For Approval

Record Drawing

Customer

C.O. No.

Item No.

Job Name

F.O. No.

Item No.

Submitted By

Date

Approved By

Date



SQUARE D COMPANY

PRINTED
IN U.S.A.

TYPE V ROTARY TAP SWITCHES

JANUARY, 1981
Supersedes Class 9831
dated October, 1975

HEAVY-DUTY 600 VOLTS AC OR DC

NON-LOAD SWITCHING UN-ASSEMBLED—OPERATORS AND SWITCH DECKS

CLASS 9831: Tap switches are designed for dead-front operation for changing taps on various types of resistance welders, rectifiers, transformers, induction heating and electric furnaces and other applications requiring multiple point power switching in a single, 2 or 3 phase system.

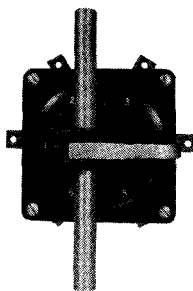
Ratings: 400, 800, 1200, 1600 and 2000 Amperes. 600 volts, 60 Hertz A.C. 600 volts D.C. Single, two and three decks in tandem. 3 to 11 power taps plus "off" position. Rated for continuous duty based on a temperature rise not exceeding a 30° C rise in a 40° C ambient.

Construction: Current carrying parts are made from hard drawn copper. Blades are provided with blade reinforcing springs. Stationary contacts are of copper extruded construction base materials made of a polyester glass fiber compression molding.

Operators and switch decks are listed below as separate items. They can be purchased and assembled in the field to make up any of the tap switch combinations listed on page 8.

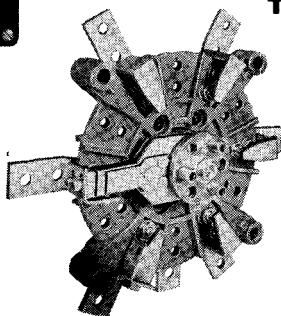
TYPE V OPERATORS

Operators are equipped with 1—auxiliary switch rated 15 ampere continuous with 1—N. O. and 1—N. C. contact. Upon changing taps it provides a signal which can be used in conjunction with load-break protective equipment to guard the switch from load switching.



Ampere	Type	Handle Length	Position	Price	Wt.
400	H-1106	11	6	\$130.	6.5
400	H-1112	11	12	130.	6.5
800-1200	H-1406	14	6	173.	16.0
800-1200	H-1412	14	12	173.	16.0
1800-2000	H-1606	16	6	194.	16.5
1800-2000	H-1612	16	12	194.	16.5

TYPE V SWITCH DECKS



All switch decks may be arranged to provide an "off" position except the 6-point switch which is arranged for 6 power positions only. If and "off" position is required with six power positions, select an 8 power point switch and a 12 position operator and move the mechanical stops to provide only six power positions.

Mechanical contact clip stops are provided on all switches to stop rotor blade in both directions including the "off" position. Each switch deck is arranged to reduce the number of power points by moving the mechanical stops.

Ampere Rating	USE 6 POSITION OPERATORS						USE 12 POSITION OPERATORS					
	4 POINT			6 POINT			8 POINT			11 POINT		
	Type	Price	Wt.	Type	Price	Wt.	Type	Price	Wt.	Type	Price	Wt.
400	V-04041-B	\$ 207.	8.0	V-04061-B	\$ 238.	9.0	V-04081-B	\$ 268.	10.0	V-04111-B	\$ 339.	11.5
800	V-08041-B	367.	25.0	V-08061-B	471.	29.0	V-08081-B	575.	33.0	V-08111-B	730.	39.0
1200	V-12041-B	451.	35.0	V-12061-B	575.	41.0	V-12081-B	700.	47.0	V-12111-B	886.	56.0
1600	V-16041-B	1125.	49.0	V-16061-B	1320.	58.0	V-16081-B	1553.	67.0	V-16111-B	1894.	80.5
2000	V-20041-B	1836.	62.5	V-20061-B	2166.	74.5	V-20081-B	2536.	86.5	V-20111-B	2964.	104.5

STATIONARY CONTACTS
With Mounting Hardware

All necessary parts for adding or replacing contacts on switch decks.



Ampere	Type	Price	Wt.
400	C-4	\$ 15.	0.5
800	C-8	52.	2.0
1200	C-12	63.	3.0
1600	C-16	97.	4.5
2000	C-20	166.	6.0

ORDERING INFORMATION

SELECT:

1. Basic switch decks—Ampere rating and taps to suit application.
2. Operators—to match switch rating.
3. Contacts—if additional taps are required.



TYPE V ROTARY TAP SWITCHES

CLASS
9831

ASSEMBLED—NON-LOAD BREAK, 600 VOLTS AC OR DC

SINGLE DECK SWITCHES

Power Taps	Ampere Ratings														
	400			800			1200			1600			2000		
	Type	Price	Wt.	Type	Price	Wt.	Type	Price	Wt.	Type	Price	Wt.	Type	Price	Wt.
3	V-04031	\$ 343.	14.0	V-08031	\$ 558.	39.0	V-12031	\$ 688.	48.0	V-16031	\$1279.	61.0	V-20031	\$2061.	73.0
4	V-04041	359.	14.5	V-08041	612.	41.0	V-12041	760.	51.0	V-16041	1388.	65.5	V-20041	2255.	79.0
5	V-04051	374.	15.0	V-08051	666.	43.0	V-12051	832.	54.0	V-16051	1497.	70.0	V-20051	2434.	85.0
6	V-04061	389.	15.5	V-08061	721.	45.0	V-12061	904.	57.0	V-16061	1606.	74.5	V-20061	2620.	91.0
7	V-04071	404.	16.0	V-08071	775.	47.0	V-12071	976.	60.0	V-16071	1715.	79.0	V-20071	2807.	97.0
8	V-04081	419.	16.5	V-08081	831.	49.0	V-12081	1048.	63.0	V-16081	1823.	83.5	V-20081	2994.	103.0
9	V-04091	434.	17.0	V-08091	912.	51.0	V-12091	1145.	66.0	V-16091	2010.	88.0	V-20091	3239.	109.0
10	V-04101	449.	17.5	V-08101	974.	53.0	V-12101	1234.	69.0	V-16101	2150.	92.5	V-20101	3441.	115.0
11	V-04111	490.	18.0	V-08111	1036.	55.0	V-12111	1324.	72.0	V-16111	2290.	97.0	V-20111	3643.	121.0

12-Point Switches available on request through the local Square D field office.

TWO DECK SWITCHES

Power Taps	Ampere Ratings														
	400			800			1200			1600			2000		
	Type	Price	Wt.	Type	Price	Wt.	Type	Price	Wt.	Type	Price	Wt.	Type	Price	Wt.
3	V-04032	\$ 557.	21.5	V-08032	\$1065.	62.0	V-12032	\$1326.	80.0	V-16032	\$2508.	105.5	V-20032	\$4071.	129.5
4	V-04042	588.	22.5	V-08042	1174.	66.0	V-12042	1470.	86.0	V-16042	2725.	114.5	V-20042	4444.	141.5
5	V-04052	618.	23.5	V-08052	1282.	70.0	V-12052	1614.	92.0	V-16052	2943.	123.5	V-20052	4817.	153.5
6	V-04062	648.	24.5	V-08062	1392.	74.0	V-12062	1757.	98.0	V-16062	3161.	132.5	V-20062	5190.	165.5
7	V-04072	678.	25.5	V-08072	1501.	78.0	V-12072	1901.	104.0	V-16072	3378.	141.5	V-20072	5564.	177.5
8	V-04082	708.	26.5	V-08082	1609.	82.0	V-12082	2046.	110.0	V-16082	3596.	150.0	V-20082	5937.	189.5
9	V-04092	739.	27.5	V-08092	1765.	86.0	V-12092	2231.	116.0	V-16092	3815.	159.5	V-20092	6304.	201.5
10	V-04102	769.	28.5	V-08102	1890.	90.0	V-12102	2411.	122.0	V-16102	4033.	168.5	V-20102	6671.	213.5
11	V-04112	851.	29.5	V-08112	2014.	94.0	V-12112	2590.	128.0	V-16112	4251.	177.5	V-20112	7038.	225.5

12-Point Switches available on request through the local Square D field office.

THREE DECK SWITCHES

Power Taps	Ampere Ratings														
	400			800			1200			1600			2000		
	Type	Price	Wt.	Type	Price	Wt.	Type	Price	Wt.	Type	Price	Wt.	Type	Price	Wt.
3	V-04033	\$ 771.	29.0	V-08033	\$1572.	85.0	V-12033	\$1963.	112.0	V-16033	\$ 3737.	150.0	V-20033	\$6080.	186.0
4	V-04043	816.	30.5	V-08043	1757.	91.0	V-12043	2179.	121.0	V-16043	4063.	163.5	V-20043	6641.	204.0
5	V-04053	862.	32.0	V-08053	1900.	97.0	V-12053	2395.	130.0	V-16053	4389.	177.0	V-20053	7200.	222.0
6	V-04063	907.	33.5	V-08063	2063.	103.0	V-12063	2610.	139.0	V-16063	4716.	190.0	V-20063	7761.	240.0
7	V-04073	953.	35.0	V-08073	2226.	109.0	V-12073	2826.	148.0	V-16073	5043.	204.0	V-20073	8320.	258.0
8	V-04083	998.	36.5	V-08083	2389.	115.0	V-12083	3042.	157.0	V-16083	5370.	217.5	V-20083	8880.	276.0
9	V-04093	1043.	38.0	V-08093	2619.	121.0	V-12093	3319.	166.0	V-16093	5697.	231.0	V-20093	9439.	294.0
10	V-04103	1089.	39.5	V-08103	2805.	127.0	V-12103	3587.	175.0	V-16103	6023.	244.5	V-20103	9999.	312.0
11	V-04113	1212.	41.0	V-08113	2992.	133.0	V-12113	3855.	184.0	V-16113	6349.	258.0	V-20113	10558.	330.0

12-Point Switches available on request through the local Square D field office.

MODIFICATIONS:

1. With "off" position
2. With motor operator

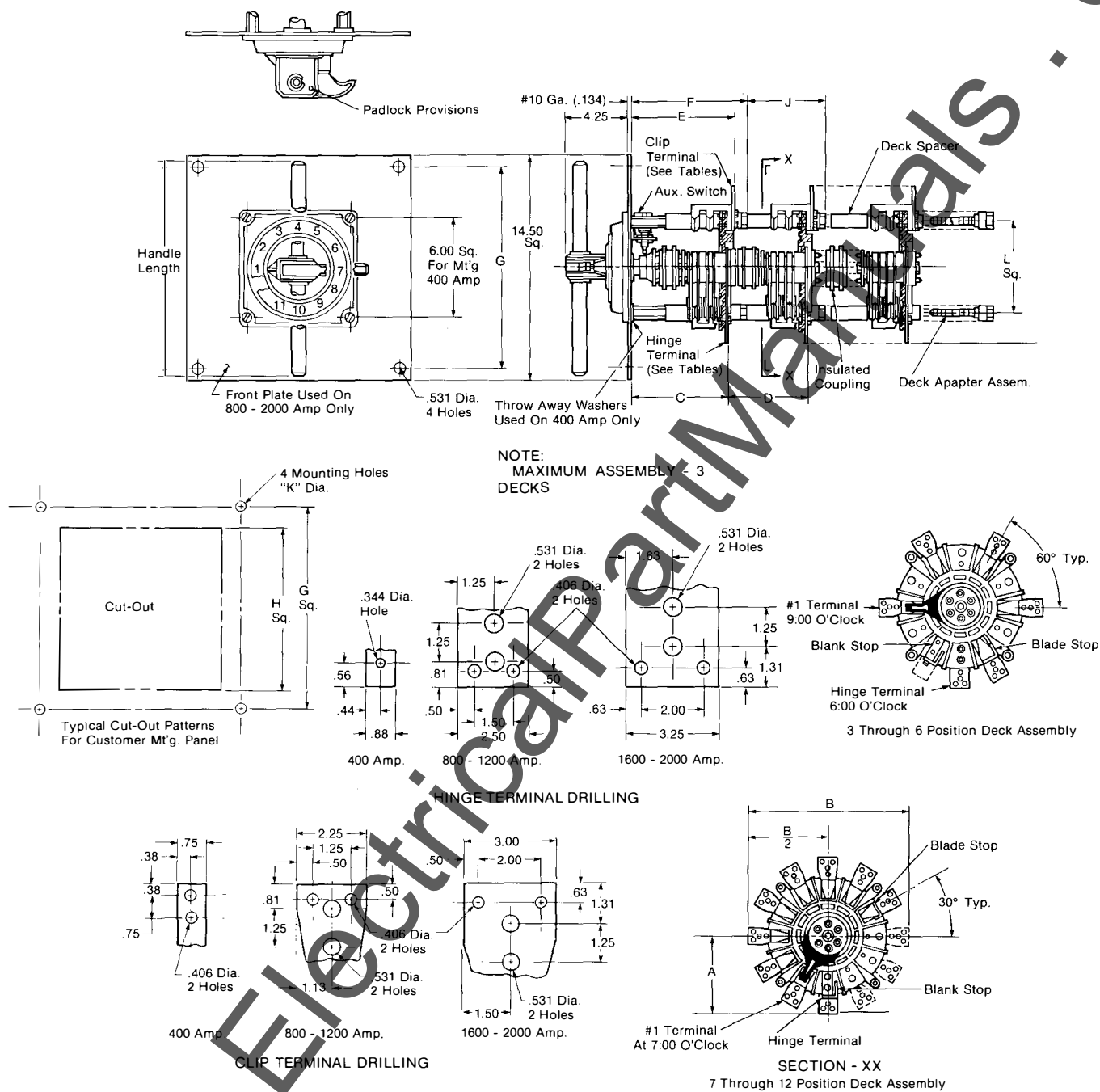
Form letter O
Form letter M

List adder \$5.00
List adder \$1800.00

ORDERING INFORMATION REQUIRED—CLASS, TYPE NUMBER AND FORM LETTERS (IF ANY) OF SWITCH.

MANUALLY OPERATED NON-LOAD BREAK, 600 VOLTS AC OR DC

**DIMENSIONS
(NOT FOR CONSTRUCTION UNLESS ENDORSED)**



DIMENSIONS FOR 3-12 POSITION SWITCHES

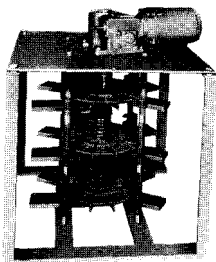
Ampere Rating	A	B	C	D	E	F	G	H	J	K	L	Handle Length	Terminal Thickness	
													Clip	Hinge
400	4.50	10.63	4.81	3.69	5.19	5.81	6.00	5.50	3.69	.375	6.00	11.00	.312	.188
600	8.25	16.50	6.56	5.69	6.88	8.56	13.00	11.75	5.69	.562	8.50	14.00	.375	.375
1200	8.25	16.50	6.81	5.69	7.19	8.56	13.00	11.75	5.69	.562	8.50	14.00	.625	.625
1800	9.88	19.75	7.19	6.31	7.56	8.75	13.00	11.75	6.31	.562	10.50	16.00	.750	.750
2000	9.88	19.75	7.44	6.31	7.94	8.75	13.00	11.75	6.31	.562	10.50	16.00	1.000	1.000



TYPE V ROTARY TAP SWITCHES

CLASS
9831

UNASSEMBLED—NON-LOAD BREAK, 600 VOLTS AC OR DC



MOTOR OPERATORS Suitable for all Switch Decks

Motor operators are listed below as separate items. They can be purchased and assembled to switch decks in the same fashion as manual operators.

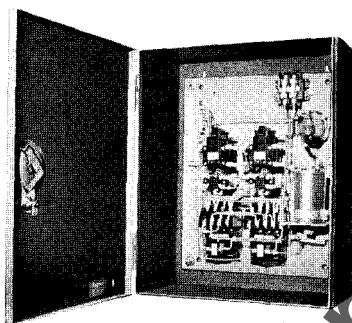
Motor operators and switch deck assemblies can be supplied as factory assembled units by selecting appropriate switch type number from pages 1 and 2 and specifying Form "M". The motor is rated 1/4 H.P. 115/230 volts, 60 Hertz. Single phase with mounting plate and all necessary control switches installed and wired to a terminal block.

NOTE: Motor Operator requires special control equipment with time delay shut-off dynamic braking. The control design specifications, and diagrams will be supplied upon request, or select a Square D Company controller as listed below. To insure proper operation of gear motor, control scheme must be in accordance with Square D Company design criteria.

Switch Rating Amperes	6-Position Type	12-Position Type
400 800-1200 1600-2000	M0406 M1206 M2006	M0412 M1212 M2012
AUXILIARY SWITCH (for remote position indication)	\$200.	\$250.

CONTROLLER

Suitable for all Motor Operators

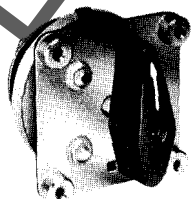


Controller provides a means for controlling the motor operator. It includes the time delay, shut-off, dynamic braking and all necessary components installed and wired to a terminal block. It provides a reversible operation of the gear motor in selecting the switch power contacts.

Device	Type No.	Price
Open Type	C0	\$ 972.
NEMA 1 Enclosure	C1	1080.
NEMA 12 Enclosure	C2	1188.

Optional Feature: The control selector switch listed below may be mounted on controller door. Add proper form letter to controller Type Number.

NOTE: It may be any single pole multi position switch rated 1 ampere, 120 volt A.C. inductive load break.



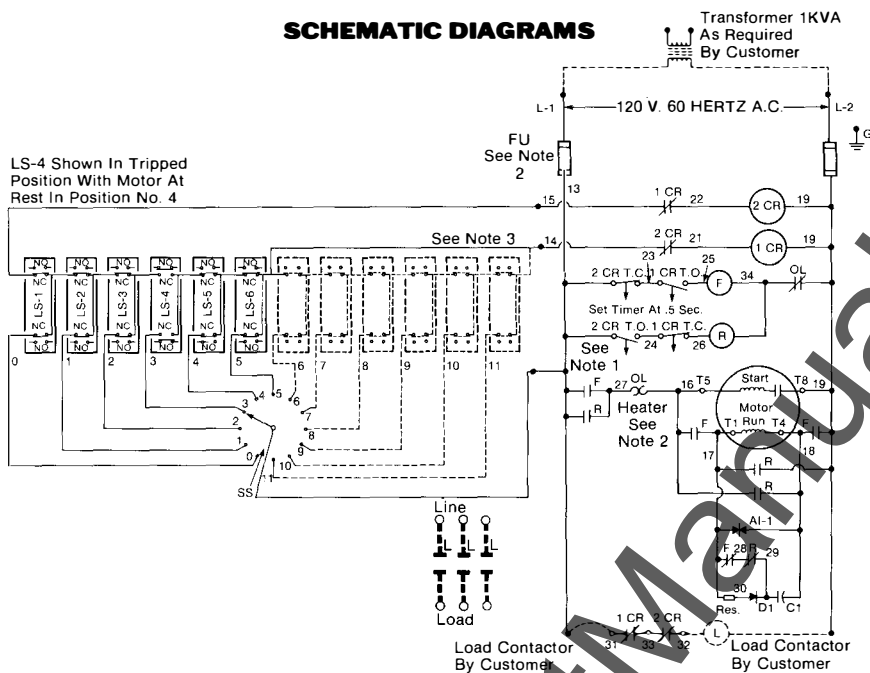
Device	6-Position		12-Position	
	Type	Price	Type	Price
Open Type	S0-6	\$ 63.	S0-12	\$ 97.
NEMA 1 Enclosure	S1-6	167.	S1-12	346.
NEMA 12 Enclosure	S2-6	178.	S2-12	367.

TYPE V ROTARY TAP SWITCHES

JANUARY, 1981
Supersedes Class 9831
dated October, 1975

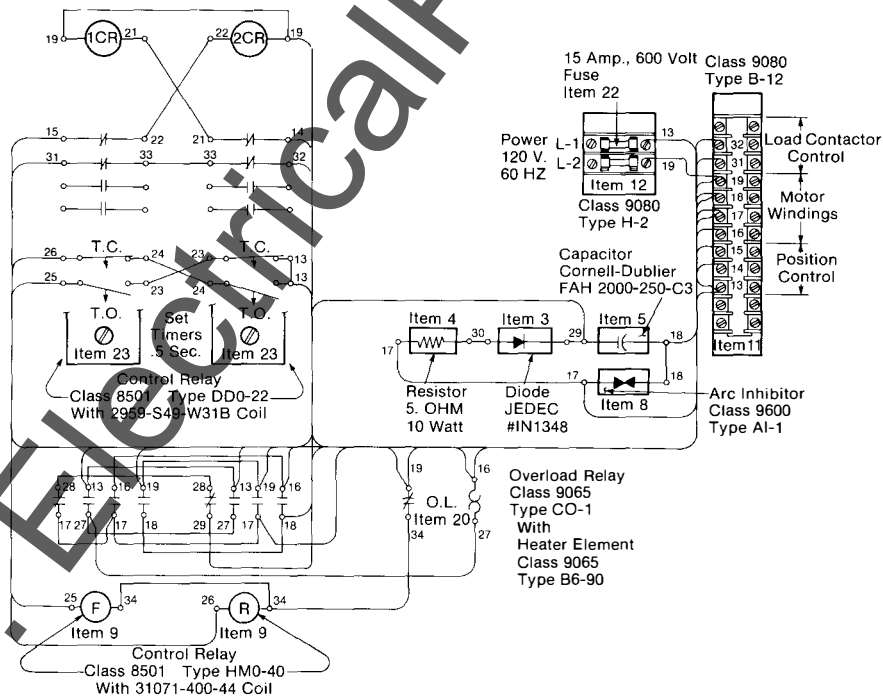
MOTOR OPERATED 600 VOLTS AC OR DC NON-LOAD SWITCHING

SCHEMATIC DIAGRAMS



NOTE:

1. Timer setting is approximately .5 sec. The purpose of the timer is to center the moving switch blade on the clip when the motor stops. If the motor stops before the blade gets to the center, then turn timer "slower", increasing timer setting. If the motor stops after the blade has passed through the center then turn the timer "faster". Timer 1CR controls the positioning when the switch is rotating in a clockwise direction (F contactor closed) and timer 2CR controls the positioning when the switch is rotating in a counterclockwise direction (R contactor closed). Timer set too "fast" will simply cause the motor to stop before the blades are centered. Timers set too "slow" will cause over shoot and go to the next tap and possibly go into oscillation. Always approach timer adjustment from the too "fast" side. Start with the setting screws backed all the way out and adjust by turning in the timing adjustment screw in the clockwise direction.
2. Fuse size and overload heater are based upon 1/4 HP as standard. If other than 1/4 HP see selection table.
3. Wire 14 to end of limit switch chain for more than 6 positions.



NOTE—REFER TO:

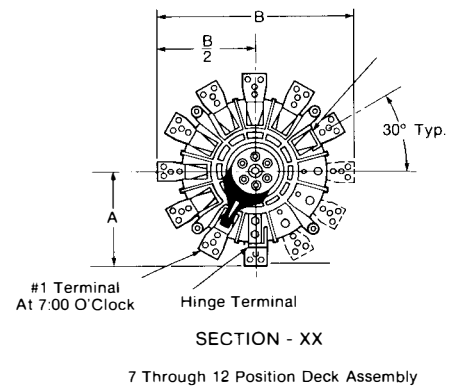
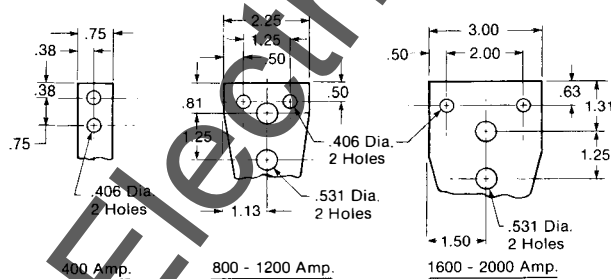
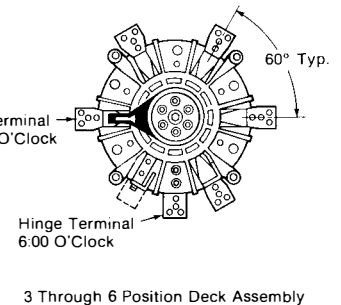
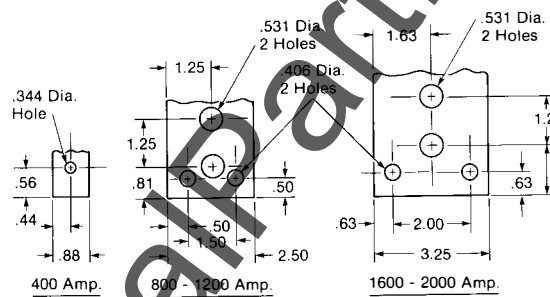
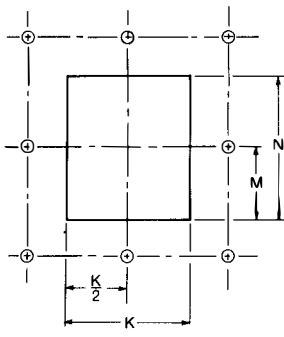
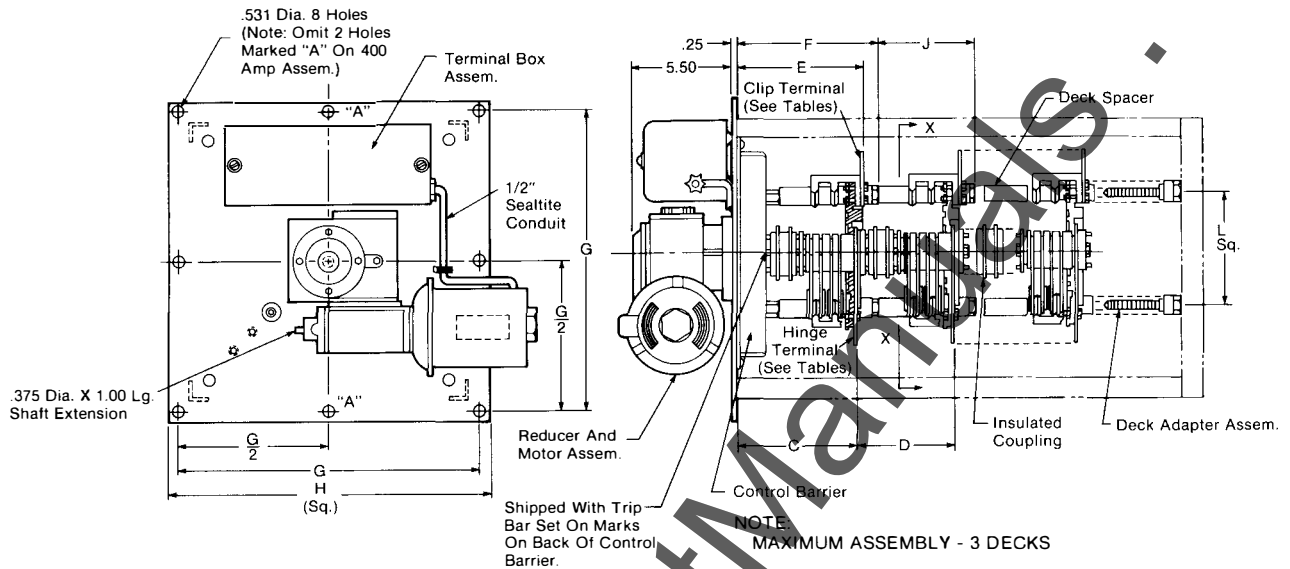
1. Dwg. No. C44040-229 for item identity.
2. Dwg. No. C44020-200 for elementary wiring diagram.
3. Dwg. No. C44040-290—Motor operator 6 position assembly wiring diagram.
4. Dwg. No. C44040-291—Motor operator 12-position assembly wiring diagram.
5. B44040-288 and B44040-289 selector switch wiring diagram.



TYPE V ROTARY TAP SWITCHES

MOTOR OPERATED NON-LOAD BREAK 600 VOLTS AC OR DC

DIMENSIONS



CLIP TERMINAL DRILLING

DIMENSIONS FOR 3-12 POSITION SWITCHES

Ampere Rating	A	B	C	D	E	F	G	H	J	K	L	M	N	Terminal Thickness	
														Clip	Hinge
400	4.50	10.63	5.75	3.75	5.81	6.75	16.50	18.00	3.75	13.00	6.00	6.50	13.88	.250	.188
600	8.25	16.50	6.94	5.69	7.25	8.94	20.50	22.00	5.69	15.25	8.50	7.63	17.50	.375	.375
1200	8.25	16.50	7.19	5.69	7.56	8.94	20.50	22.00	5.69	15.25	8.50	7.63	17.50	.625	.625
1600	9.88	19.75	6.00	6.31	8.38	10.56	20.50	22.00	6.31	15.25	10.50	7.63	17.50	.750	.750
2000	9.88	19.75	8.25	6.31	8.75	10.56	20.50	22.00	6.31	15.25	10.50	7.63	17.50	1.000	1.000



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