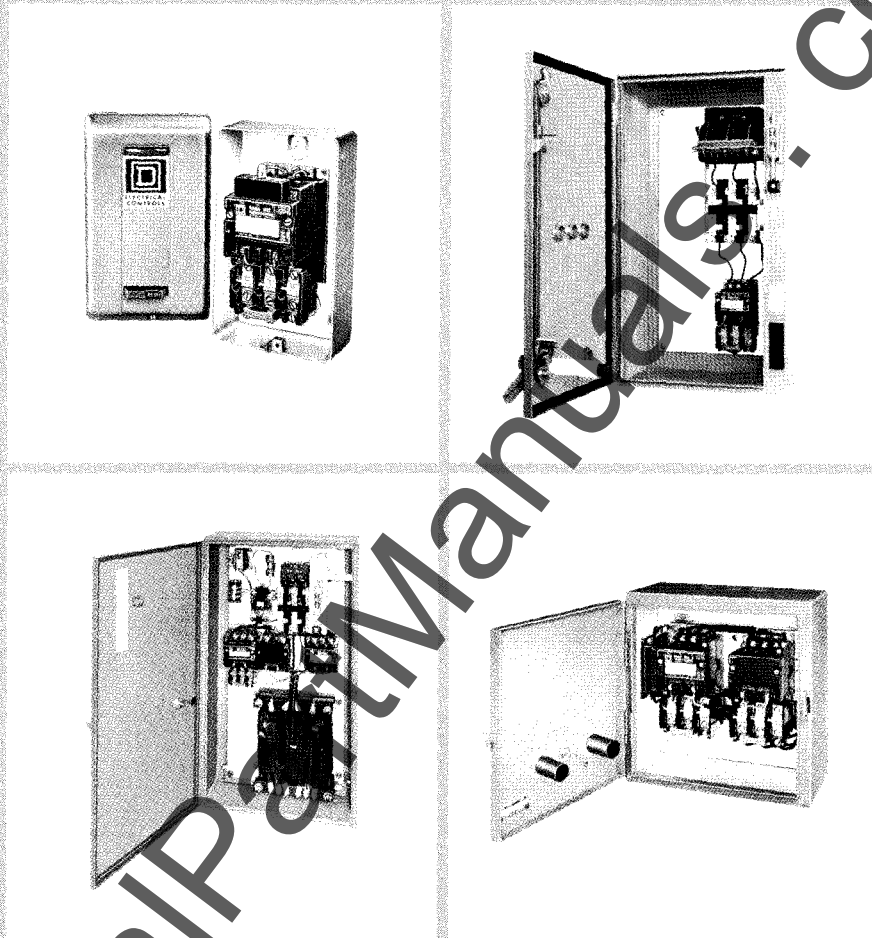




Factory Modifications and Forms

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NOTE: For modifications and forms not present, refer to specific product catalog section.



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FACTORY MODIFICATIONS AND FORMS

FOR AC MAGNETIC CONTACTORS & STARTERS

Factory installed modifications are available for the classes of control equipment listed in the respective tables. Prices shown are additions to standard equipment prices and are **not** to be used as separate selling prices. Kits are also available for many field modifications and normal parts replacement on most control items. Refer to Classes 9998 and 9999 for complete listings. Standard equipment dimensions and enclosure construction may not apply when certain special features are added. Such cases should be referred to the factory with complete description when accurate dimensions are required.

FULL VOLTAGE CONTROLLERS ONLY

Factory Modifications			Enclosure Type	Form Letters	NEMA Size									
					00	0	1	2	3	4	5	6	7	8
PILOT DEVICES IN COVER	Push Buttons ①													
	"Start-Stop"	1	A	\$ 32.	\$ 32.	\$ 32.	\$ 32.	\$ 32.	\$ 32.	\$ 32.	\$ 88.	\$ 88.	\$ 88.	
		4, 4X, 7, 9, 12	A		88.	88.	88.	88.	88.	88.	88.	88.	88.	
	"Start-Stop" with lockout on "Stop"	1, 4, 12	....	100.	100.	100.	100.	100.	100.	100.	100.	100.		
	"Start-Stop" (maintained contact)	Any	....	100.	100.	100.	100.	100.	100.	100.	100.	100.		
	"Start-Stop" push button and "Hand-Off-Auto" selector switch	Any	AC	....	176.	176.	176.	176.	176.	176.	176.	176.		
	"On-Off"	1	A3	32.	32.	32.	32.	32.	32.	32.	88.	88.		
		4, 4X, 12	A3	....	88.	88.	88.	88.	88.	88.	88.	88.		
	Single Oiltight Pushbutton (specify marking)	1, 4, 4X, 12	A11	....	88.	88.	88.	88.	88.	88.	88.	88.		
	Illuminated Pushbutton (specify marking)	1, 4, 4X, 12	....	148.	148.	148.	148.	148.	148.	148.	148.	148.		
	Selector Switches													
	"Hand-Off-Auto"	1	C	32.	32.	32.	32.	32.	32.	32.	88.	88.		
		4, 4X, 7, 9, 12	C	....	88.	88.	88.	88.	88.	88.	88.	88.		
	"On-Off"	1	C6	32.	32.	32.	32.	32.	32.	32.	88.	88.		
		4, 4X, 7, 9, 12	C6	....	88.	88.	88.	88.	88.	88.	88.	88.		
	Oiltight selector switch (specify markings)													
	Two and Three Position	1, 4, 4X, 12	....	88.	88.	88.	88.	88.	88.	88.	88.	88.		
	Four Position	1, 4, 4X, 12	....	100.	100.	100.	100.	100.	100.	100.	100.	100.		
	Illuminated Selector Switch (specify markings)	1, 4, 4X, 12	....	148.	148.	148.	148.	148.	148.	148.	148.	148.		
	Key Operated Selector Switch (specify markings)	1, 4, 4X, 12	....	112.	112.	112.	112.	112.	112.	112.	112.	112.		
	NON-STANDARD markings for Pilot Devices	Any	G12	4.	4.	4.	4.	4.	4.	4.	4.	4.		
Pilot Lights (specify color) ②														
One pilot light: wired in parallel with coil.														
Two pilot lights: one wired in parallel with coil, the second wired through an electrical interlock.														
One light	1, 4, 4X, 12	P	60.0	60.	60.	60.	60.	60.	60.	60.	60.	60.		
One light	7, 9	P	....	108.	108.	108.	108.	108.	108.	108.	108.	108.		
Two lights	1, 4, 4X, 12	PP	....	264.	264.	264.	264.	264.	264.	264.	264.	264.		
Three or more lights														
Push-to-Test (one)	1, 4, 4X, 12	P②	....	120.	120.	120.	120.	120.	120.	120.	120.	120.		
Push-to-Test (two)	1, 4, 4X, 12	PP②	....	288.	288.	288.	288.	288.	288.	288.	288.	288.		
PILOT DEVICES IN COVER	Push Buttons ①													
	"Forward-Reverse-Stop"	1, 4, 4X, 12	A1	....	160.	160.	160.	160.	160.	160.	160.	160.		
	"High-Low-Stop"	1, 4, 12	A2	....	160.	160.	160.	160.	160.	160.	160.	160.		
	"Fast-Off-Slow"	1, 4, 12	A9	....	160.	160.	160.	160.	160.	160.	160.	160.		
	"High-Low" push button and "Hand-Off-Auto" selector switch	1, 4, 12	A10C	....	176.	176.	176.	176.	176.	176.	176.	176.		
	Single Oiltight Pushbutton (specify marking)	1, 4, 4X, 12	A11	....	88.	88.	88.	88.	88.	88.	88.	88.		
	Illuminated Operator (specify marking)	1, 4, 4X, 12	....	148.	148.	148.	148.	148.	148.	148.	148.	148.		
	Selector Switches													
	"Hand-Off-Auto"	1	C	....	88.	88.	88.	88.	88.	88.	88.	88.		
		4, 4X, 7, 9, 12	C	....	88.	88.	88.	88.	88.	88.	88.	88.		
	"On-Off"	1, 4, 4X, 7, 9, 12	C	....	88.	88.	88.	88.	88.	88.	88.	88.		
		9, 12	C6	....	88.	88.	88.	88.	88.	88.	88.	88.		
	"High-Off-Low"	1, 4, 12	C7	....	88.	88.	88.	88.	88.	88.	88.	88.		
	"Forward-Off-Reverse"	1, 4, 4X, 12	C14	88.	88.	88.	88.	88.	88.	88.	88.	88.		
	"High-Low" and "Hand-Off-Auto"	1, 4, 12	CC17	....	176.	176.	176.	176.	176.	176.	176.	176.		
	"Forward-Reverse"	1, 4, 4X, 12	C19	88.	88.	88.	88.	88.	88.	88.	88.	88.		
	"Slow-Fast"	1, 4, 4X, 12	C20	....	88.	88.	88.	88.	88.	88.	88.	88.		
	"Auto-Off-Low-High"	1, 4, 12	C25	....	176.	176.	176.	176.	176.	176.	176.	176.		
	Key Operated Selector Switch (specify markings)	1, 4, 4X, 12	....	112.	112.	112.	112.	112.	112.	112.	112.	112.		
	Oiltight selector switch (specify markings)													
	Two and Three Position	1, 4, 4X, 12	....	88.	88.	88.	88.	88.	88.	88.	88.	88.		
Four Position	1, 4, 4X, 12	....	100.	100.	100.	100.	100.	100.	100.	100.	100.			
NON-STANDARD markings for Pilot Devices	Any	G12	4.	4.	4.	4.	4.	4.	4.	4.	4.			
Pilot Lights (specify color) ②														
One Pilot Light: one light uses two electrical interlocks.														
Two Pilot Lights: each light is wired in parallel with a coil.														
Three Pilot Lights: one light uses two electrical interlocks, the remaining two lights are each wired in parallel with a coil.														
One light	1, 4, 4X, 12	P	156.	156.	156.	158.	156.	158.	156.	156.	156.	156.		
	7, 9	P	....	204.	204.	204.	204.	204.	204.	204.	204.	204.		
Two lights	1, 4, 4X, 12	PP	....	216.	216.	216.	216.	216.	216.	216.	218.	216.		
Three lights	1, 4, 4X, 12	PPP	....	420.	420.	420.	420.	420.	420.	420.	420.	420.		
Four or more lights														
Push-To-Test (one)	1, 4, 4X, 12	P②	216.	216.	216.	216.	216.	216.	216.	216.	216.	218.		
Push-To-Test (two)	1, 4, 4X, 12	PP②	240.	240.	240.	240.	240.	240.	240.	240.	240.	240.		
Push-To-Test (three)	1, 4, 4X, 12	PPP②	456.	456.	456.	456.	456.	456.	456.	456.	456.	456.		

① For Classes 8502 and 8536 Type A Size 00 devices; Pilot Lights available at 120 to 600 volt only.

② Insert "Push-To-Test" before color.

③ All push buttons are momentary contact unless specified otherwise.

④ This adder, used with a NEMA 4X enclosure, applies only to Classes 8538, 8539, 8738, 8739 and 8810 non-reversing.

⑤ Indicate pilot light color as Form P (red) or Form P (green), etc.

FOR AC MAGNETIC CONTACTORS & STARTERS

FULL VOLTAGE CONTROLLERS ONLY

CLASSES 8502, 8536, 8538, 8539, 8702, 8736, 8738, 8739, 8810, 8811 and 8812

Factory Modifications	Enclosure Type	Form Letters	NEMA Size									
			00	0	1	2	3	4	5	6	7	8
Separate Control Circuit — unfused (specify voltage and frequency)	Any	S	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.
Fused Control Circuit (without control transformer)												
One fuse	1, 4, 4X, 12	F	88.	88.	88.	88.	88.	88.	88.	88.	88.	88.
Two fuses	1, 4, 4X, 12	F4	88.	88.	88.	88.	88.	88.	88.	88.	88.	88.
Control Circuit Transformers ①												
Standard capacity (50 or 60 Hz.)												
One fuse in secondary	1, 4, 4X, 12	FT	108.	108.	152.	224.	272.	308.	Std.	Std.	Std.	Std.
One fuse in primary and one fuse in secondary	1, 4, 4X, 12	FF1T	196.	196.	240.	312.	360.	396.	88.	88.	88.	88.
Two fuses in primary and one fuse in secondary	1, 4, 4X, 12	FF4T	196.	196.	240.	312.	360.	396.	88.	88.	88.	88.
One fuse in primary and two fuses in secondary	1, 4, 4X, 12	F1F10T	196.	196.	240.	312.	360.	396.	88.	88.	88.	88.
Two fuses in primary and two fuses in secondary	1, 4, 4X, 12	F4F10T	196.	196.	240.	312.	360.	396.	88.	88.	88.	88.
Two fuses in secondary	1, 4, 4X, 12	F10T	108.	108.	152.	224.	272.	308.	N.C.	N.C.	N.C.	N.C.
One fuse in secondary	7	FT	124.	124.	208.	292.	372.	428.	88.	88.	88.	88.
One fuse in secondary	9	FT	108.	108.	152.	224.	272.	308.	88.	88.	88.	88.
Additional capacity (50 or 60 Hz.)												
One fuse in secondary												
100 VA additional capacity	1, 4, 4X, 12	FT-11	192.	192.	248.	312.	352.	392.	392.	392.	392.	392.
200 VA additional capacity	1, 4, 4X, 12	FT-12	260.	260.	324.	388.	428.	428.	428.	428.	428.	428.
300 VA additional capacity	1, 4, 4X, 12	FT-13	328.	328.	400.	464.	504.	504.	504.	504.	504.	504.
400 VA additional capacity	1, 4, 4X, 12	FT-14	464.	464.	552.	616.	696.	696.	696.	696.	696.	696.
500 VA additional capacity	1, 4, 4X, 12	FT-15	544.	544.	632.	696.	776.	776.	776.	776.	776.	776.
One fuse in secondary												
100 VA additional capacity	7	FT-11	208.	208.	304.	360.	452.	512.	88.	88.	88.	88.
100 VA additional capacity	9	FT-11	192.	192.	248.	312.	352.	392.	88.	88.	88.	88.
200 VA additional capacity	9	FT-12	260.	260.	324.	388.	428.	428.	88.	88.	88.	88.
300 VA additional capacity	9	FT-13	328.	328.	400.	464.	504.	504.	88.	88.	88.	88.
Substitute non-standard single primary, and/or single secondary voltage rating on control transformer ②	Any	T1	20.	20.	20.	20.	20.	20.	88.	88.	88.	88.
Substitute dual-voltage magnet coil per coil	Any	Y5	8.	8.	8.	8.	8.	8.	88.	88.	88.	88.
Control circuit breaker — internally operated	Any		348.	348.	348.	348.	348.	348.	348.	348.	348.	348.

REDUCED VOLTAGE CONTROLLERS ONLY

CLASSES 8547, 8549, 8604, 8606, 8630, 8640, 8650 and 8851

Factory Modifications	Enclosure Type	Form Letters	NEMA Size							
			1 PW 1 YD	2 PW 2 YD	3 PW 3 YD	4 PW 4 YD	5 PW 5 YD	6 PW 6 YD	7 PW 7 YD	8 PW 8 YD
Push Buttons ③										
"Start-Stop"	Any	A	\$ 88.	\$ 88.	\$ 88.	\$ 88.	\$ 88.	\$ 88.	\$ 88.	\$ 88.
"Forward-Reverse-Stop"	Any	A1	160.	160.	160.	160.	160.	160.	160.	160.
Selector Switches										
"Hand-Off-Auto"	Any	C	88.	88.	88.	88.	88.	88.	88.	88.
"On-Off"	Any	C6	88.	88.	88.	88.	88.	88.	88.	88.
Other										
Oiltight push button or selector switch (specify markings and connections)										
Standard markings listed for Class 9001 oiltight units	1, 4, 12		88.	88.	88.	88.	88.	88.	88.	88.
Non-standard markings	1, 4, 12		92.	92.	92.	92.	92.	92.	92.	92.
Addition of lockout or padlock attachment (Add to price of pushbutton or selector switch)	1, 12		12.	12.	12.	12.	12.	12.	12.	12.
Substitute key operator on selector switch (Add to price of pushbutton or selector switch)	1, 12		24.	24.	24.	24.	24.	24.	24.	24.
Substitute illuminated operator for non-illuminated operator(s). Add to price of each push button or selector switch. Each	4, 12		108.	108.	108.	108.	108.	108.	108.	108.
Pilot Lights (specify color) ④										
One light "ON" wired in parallel w/ "TR" coil	1, 4, 12	P	60.	60.	60.	60.	60.	60.	60.	60.
One light "OFF" wired w/ N.C. contact on TR	1, 4, 12	P	108.	108.	108.	108.	108.	108.	108.	108.
Two lights "ON" and "OFF"	1, 4, 12	PP	216.	216.	216.	216.	216.	216.	216.	216.
More than two pilot lights	1, 4, 12									
Push-To-Test (one)	1, 4, 12	P③	120.	120.	120.	120.	120.	120.	120.	120.
Push-To-Test (two)	1, 4, 12	PP③	288.	288.	288.	288.	288.	288.	288.	288.
Separate Control Circuit (Unfused)										
"TR" coil only (specify voltage and frequency)	Any	S	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.
All coils (specify voltage and frequency)	Any	Y195	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.	N.C.
Fused Control Circuit (without control transformer)										
One fuse	1, 4, 12	F	88.	88.	88.	88.	88.	88.	88.	88.
Two fuses for entire circuit	1, 4, 12	F4	88.	88.	88.	88.	88.	88.	88.	88.
Control Circuit Transformers ①										
Standard capacity (50 or 60 Hz.)										
One fuse in secondary	1, 4, 12	FT	192.	248.	312.	352.	392.	Std.	Std.	Std.
One fuse in primary and one fuse in secondary	1, 4, 12	FF1T	260.	336.	400.	440.	480.	88.	88.	88.
Two fuses in primary and one fuse in secondary	1, 4, 12	FF4T	260.	336.	400.	440.	480.	88.	88.	88.
Two fuses in entire primary circuit and one in secondary	1, 4, 12	FF4-1T	260.	336.	400.	440.	480.	88.	88.	88.
One fuse in primary and two fuses in secondary	1, 4, 12	F1F10T	260.	336.	400.	440.	480.	88.	88.	88.
Two fuses in primary and two fuses in secondary	1, 4, 12	F4F10T	260.	336.	400.	440.	480.	88.	88.	88.
Two fuses in secondary	1, 4, 12	F10T	260.	336.	400.	440.	480.	88.	88.	88.
Fused secondary	9	FT	192.	248.	312.	352.	392.	88.	88.	88.

① Indicate pilot light color as Form P (red) or Form P (green), etc.

② Insert "Push-To-Test" before color.

③ All push buttons are momentary contact, unless specified otherwise.

④ Standard voltage ratings are:

60 Hz.: 600-120, 575-115, 550-110, 240/480-120, 240/480-24, 230/460-115,

220/440-110, 208-120, 277-120.

50 Hz.: 575-115, 550-110, 230/460-115, 220/440-110, 380-110.

Other voltages add \$20.



FACTORY MODIFICATIONS AND FORMS

FOR AC MAGNETIC CONTACTORS & STARTERS

REDUCED VOLTAGE CONTROLLERS ONLY (CONT.)

CLASSES 8547, 8549, 8604, 8606, 8630, 8640, 8650 and 8651												
Factory Modifications			Enclosure Type	Form Letters	NEMA Size							
					1 PW 1 YD	2 PW 2 YD	3 PW 3 YD	4 PW 4 YD	5 PW 5 YD	6 PW 6 YD	7 PW 7 YD	8 PW 8 YD
Reduced Voltage Controllers Only	Control Circuit Transformers ① (Cont.)											
	Additional capacity (50 or 60 Hz.)											
	One fuse in secondary											
	50 VA additional capacity		1, 4, 12	FT-10	276.	332.	396.	436.	476.	476.	476.	476.
	100 VA additional capacity		1, 4, 12	FT-11	276.	332.	396.	436.	476.	476.	476.	476.
	200 VA additional capacity		1, 4, 12	FT-12	344.	420.	476.	508.	552.	552.	552.	552.
	300 VA additional capacity		1, 4, 12	FT-13	512.	568.	622.	672.	712.	712.	712.	712.
	400 VA additional capacity		1, 4, 12	FT-14	844.	932.	992.	1076.	1076.	1076.	1076.	1076.
	500 VA additional capacity		1, 4, 12	FT-15	884.	1012.	1076.	1156.	1156.	1156.	1156.	1156.
	Substitute nonstandard single primary and/or single secondary voltage rating on control transformer ①		Any	T1	20.	20.	20.	20.	20.	.....	.....	.....
	Substitute dual voltage magnet coil		Any	Y5	8.	8.	8.	8.	.....	.....	.....	.....
	Control circuit breaker — internally operated		Any		348.	348.	348.	348.	348.	348.	348.	348.
	Coil transient suppressor		Any	Y145	44.	44.	44.	44.	44.	.....	.....	.....

① Indicate pilot light color as Form P (red) or Form P (green), etc.

② Insert "Push-To-Test" before color.

③ All push buttons are momentary contact, unless specified otherwise.

④ Standard voltage ratings are:

60 Hz.: 600-120, 575-115, 550-110, 240/480-120, 240/480-24, 230/460-115, 220/440-110, 208-120, 277-120.

50 Hz.: 575-115, 550-110, 230/460-115, 220/440-110, 380-110.

Other voltages add \$20.

FULL VOLTAGE AND REDUCED VOLTAGE CONTROLLERS

CLASSES 8502, 8536, 8538, 8539, 8547, 8549, 8604, 8606, 8630, 8640, 8651, 8702, 8736, 8738, 8739, 8810, 8811 and 8812													
Factory Modifications			Enclosure Type	Form Letters	NEMA Size								
					0	1 PW 1 YD	2 PW 2 YD	3 PW 3 YD	4 PW 4 YD	5 PW 5 YD	6 PW 6 YD	7 PW 7 YD	8 PW 8 YD
AUXILIARY RELAYS	Control relay (limited to one relay having maximum of 4 poles) —specify pole arrangement, voltage and type required①	1, 12 4, 4X②, 9	.....	\$ 204. 312.	\$ 204. 312.	\$ 204. 312.	\$ 204. 312.	\$ 320. 424.	\$ 360. 472.	\$ 360. 472.	\$ 360. 472.	\$ 360. 472.	
	Pneumatic Timing Relay — specify "On" or "Off" delay 0.2 Sec. to 1.0 Min.	1, 12 4, 4X②, 9	K K	336. 440.	336. 440.	336. 440.	336. 440.	336. 440.	336. 440.	336. 440.	336. 440.	336. 440.	
	1.0 Min. to 3.0 Min.	1, 12 4, 4X②, 9	K16 K16	336. 440.	336. 440.	336. 440.	336. 440.	336. 440.	336. 440.	336. 440.	336. 440.	336. 440.	
	Pneumatic Timing Attachment — 0.2 sec. to 1.0 min. Addition of Class 9999 Type SK-3 (off delay) attachment	1, 4, 4X②, 12	K2D	220.	220.	220.	220.	220.	220.	220.	220.	.....	
	Addition of Class 9999 Type SK-4 (on delay) attachment	1, 4, 4X②, 12	K2E	220.	220.	220.	220.	220.	220.	220.	220.	.....	
	Motor driven timing relay①⑤	1, 4, 12	K5	704.	704.	704.	704.	704.	704.	704.	704.	704.	
	Phase Reversal Relay⑤	1, 12	.....	704.	704.	704.	704.	704.	704.	704.	704.	704.	
	Phase Failure Relay⑤	1, 12	.....	740.	740.	740.	780.	780.	1020.	1260.	1260.	1260.	
	Phase Failure and Reverse Phase Relay⑤	1, 12	.....	1000.	1000.	1000.	1040.	1040.	1260.	1520.	1520.	1520.	
	Incomplete sequence protection (reduced voltage only)①	1, 12	.....	.....	476.	476.	476.	476.	476.	Std.	Std.	476.	
	Undervoltage Relay⑤	1, 12	.....	270.	270.	270.	270.	270.	270.	270.	270.	270.	
	Overvoltage Relay⑤	1, 12	.....	270.	270.	270.	270.	270.	270.	270.	270.	270.	
	Under and Overvoltage Relay⑤	1, 12	.....	500.	500.	500.	500.	500.	500.	500.	500.	500.	
	Ground Fault Protection⑤ (Can only be used on devices w/circuit breaker disconnects) .....	.....	.....	1500.	1500.	1500.	1500.	1500.	1500.	1500.	1500.	1500.	
	For multispeed controllers: Compelling relay (requires motor to be started in low speed)	1, 4, 9, 12	R1	264.	264.	264.	264.	264.	264.	264.	264.	264.	
	Accelerating relay (provides timed acceleration to selected speed): For Class 8810	1, 4, 9, 12	R2	616.	616.	616.	616.	616.	616.	616.	616.	616.	
	For Class 8811	1, 4, 9, 12	R2	1232.	1232.	1232.	1232.	1232.	1232.	1232.	1232.	1232.	
	For Class 8812	1, 4, 9, 12	R2	1848.	1848.	1848.	1848.	1848.	1848.	1848.	1848.	1848.	
	Decelerating relay (imposes a timing delay during transfer from a higher to a lower speed): For Class 8810	1, 4, 9, 12	R3	616.	616.	616.	616.	616.	616.	616.	616.	616.	
	For Class 8811	1, 4, 9, 12	R3	1232.	1232.	1232.	1232.	1232.	1232.	1232.	1232.	1232.	
	For Class 8812	1, 4, 9, 12	R3	1848.	1848.	1848.	1848.	1848.	1848.	1848.	1848.	1848.	
	Antiplugging timers and relays	1, 4, 9, 12	R10	1080.	1080.	1080.	1080.	1312.	1392.	1392.	1392.	1392.	
	Time delay low voltage release relay⑤	1, 4, 12	.....	440.	440.	440.	440.	440.	440.	440.	440.	440.	
	Brake relay	1, 4, 12	.....	392.	392.	392.	392.	392.	392.	392.	392.	392.	
	METERS AND METERING	Current Transformer (E.I. Models 5N, 180)	1, 12		280.	280.	280.	280.	280.	280.	280.	280.	280.
		Ammeter in cover (includes current transformer if necessary on Size 2 and up)	1, 12	G9-1	280.	280.	560.	560.	792.	792.	792.	792.	792.
		Ammeter and switch with two current transformers	1, 12	G9-2		1200.	1200.	1200.	1200.	1200.	1200.	1200.	1200.
Ammeter and switch with three current transformers		1, 12	G9-3	.....	1480.	1480.	1480.	1480.	1480.	1480.	1480.	1480.	
Voltmeter mounted		1, 12	G9-4	.....	792.	792.	792.	792.	792.	792.	792.	792.	
Voltmeter and switch mounted		1, 12	G9-5	.....	1200.	1200.	1200.	1200.	1200.	1200.	1200.	1200.	
Elapsed time meter		1, 12	G9-7	.....	232.	232.	232.	232.	232.	232.	232.	232.	
Operation counter		1, 12	G9-9	.....	400.	400.	400.	400.	400.	400.	400.	400.	
Wattmeter		1, 12	G9-11	.....	1624.	1624.	1624.	1624.	1624.	1624.	1624.	1624.	
Watt-hour meter		1, 12	G9-12	.....	1880.	1880.	1880.	1880.	1880.	1880.	1880.	1880.	
Varmeter		1, 12	G9-13	.....	1600.	1600.	1600.	1600.	1600.	1600.	1600.	1600.	
Power factor meter		1, 12	G9-14	.....	1600.	1600.	1600.	1600.	1600.	1600.	1600.	1600.	

① If controller has a control transformer, price that transformer with additional capacity for the relay provided.

② This adder, used with a NEMA 4X enclosure, applies only to Classes 8538, 8539, 8738, 8739 and 8810 non-reversing.

③ Controllers must have a 120 V control circuit (either from S or FT).

FOR AC MAGNETIC CONTACTORS & STARTERS

FULL VOLTAGE AND REDUCED VOLTAGE CONTROLLERS

CLASSES 8502, 8536, 8538, 8539, 8547, 8549, 8604, 8606, 8630, 8640, 8650, 8651, 8702, 8736, 8738, 8739, 8810, 8811 and 8812

				NEMA SIZE											
Factory Modifications				Enclosure Type	Form Letters	00	0	1 PW 1 YD	2 PW 2 YD	3 PW 3 YD	4 PW 4 YD	5 PW 5 YD	6 PW 6 YD	7 PW 7 YD	8 PW 8 YD
OVERLOAD RELAYS	Automatic Reset Bimetallic Overload Relays														
	Single Phase:					Deduct	Deduct	Deduct	Deduct						
	Types SA-SD (Sizes 00-2) ①			Any	B1	\$ 6.	\$ 6.	\$ 6.	\$ 6.						
	Type SE (Size 3)			Any	B5					N.C.					
	Polyphase:														
	Two Element — For 2 phase only														
	Types SB-SD (Sizes 0-2)			Any	B1		N.C.	N.C.	N.C.						
	Types SE-SF (Sizes 3-4)			Any	B5					N.C.	N.C.				
	Three Element														
	Types SA-SD, SH, SJ and K (Sizes 00-2, 6-8)			Any	B2	N.C.	N.C.	N.C.	N.C.				N.C.	②	N.C.
Types SE-SG (Sizes 3-5)			Any	B5					N.C.	N.C.	N.C.				
ELECTRICAL INTER- LOCKS	Ambient Compensated Bimetallic Overload Relays														
	Three Element														
	Types SA-SD, SG, SH, SJ & K (Sizes 00-2, 5-8)			Any	B	8.	8.	8.	8.			8.	8.	②	8.
	Types SE-SF (Sizes 3 & 4)			Any	Y59					8.	8.				
	Overload Relays — General														
	Omit overload protection from combination starters. (Classes 8538, 8539, 8738, 8739 only)														
	Do not use with MAG-GARD® Circuit Breakers.														
	Deduct per Starter			Any	Y76		20.	20.	36.	60.	92.	478.	398.	626.	386.
	Substitute 9999 SO-4 isolated alarm contact on melting alloy overload relay			Any	Y34-2	16.	16.	16.	16.	16.	16.	16.	16.	16.	16.
	EN- CLOSURES	Additional starter (contactor) electrical interlocks .Ea. (Specify number of additional normally open or closed interlocks required per contactor.)			Any	X		44.	44.	44.	44.	44.	44.	44.	44.	132.
Auxiliary interlocks installed on disconnect switch or circuit breaker operating mechanism.															
1 N.O.-1 N.C. contacts			1, 4, 12	Y74		44.	44.	44.	44.	44.	116.	116.			
2 N.O.-2 N.C. contacts			1, 4, 12	Y75		88.	88.	88.	88.	88.	160.	160.			
(Note: Above contacts do not switch with automatic tripping of circuit breaker. If such operation is required, consult your local Square D field office.)															
Omit enclosure (deduct from NEMA 1 price):															
Class 8547			1				40.	96.	304.	440.	888.	1424.			
Space heater with N.C. interlock			1, 4, 12	G51		108.	108.	192.	308.	496.	736.	1120.	1120.	1120.	
Function identification plate, with marking as specified			Any	G11	12.	12.	12.	12.	12.	12.	12.	12.	12.	12.	
Convenience receptacle (2-wire) mounted in side of enclosure			1, 12	Y31		80.	80.	80.	80.	80.	80.	80.	80.	80.	
MISCEL- LANEOUS	Drain and breather installed (SPIN TOP® starters only)			7	Y41		64.	64.	64.	64.	64.	64.	64.		
	Floor mounting angles (not for Spin Top starters)			Any	E		200.	200.	200.	200.	200.	200.	200.	200.	200.
	Cylinder lock (Yale 511-S or equal) on enclosure door			1, 12			200.	200.	200.	200.	200.	200.	200.	200.	200.
	Drip hood with corrosion resisting finish														
	Add to List Price			1, 9, 12			72.	72.	88.	132.	264.	352.	400.	400.	400.
	Cover gaskets (in combination starters only):														
	For Classes 8538 and 8539			1	Y47		40.	40.	Std.	Std.	Std.	Std.			
	For Classes 8738 and 8739			1	Y47		Std.	Std.	Std.	Std.	Std.	Std.			
	For full voltage controllers			1	Y47								480.	480.	480.
	For reduced voltage controllers			1	Y47								480.	720.	720.
	Stainless steel watertight device (add to catalog price of sheet steel watertight device):														
	Class 8606				Y56			480.	600.	960.	1340.	2400.	2400.	3400.	3400.
	Classes 8630 and 8640				Y56			Std.	Std.	Std.	Std.	1340.	2400.	2400.	3400.
	Non-standard size or location of conduit openings or hubs. (Specify size and location. Does not apply to SPIN TOP® starters. No deduction for omission of standard conduit provision. Use of standard pipe plug by user recommended instead.)														
	For 2½ inch and smaller conduit Each			4, 7, 9	G7		24.	24.	24.	28.	28.	28.			
	For 3 inch to 4 inch conduit Each			4, 7, 9	G7		60.	60.	60.	60.	60.	60.			
	Add for reversing service														
	For Class 8606			1, 4, 9, 12	Y64				1576.	1664.	3608.	4312.	7380.	9900.	14744.
	For Classes 8630 and 8640			1, 4, 9, 12	Y64			576.	1576.	1664.	3608.	4312.	7380.	9900.	14744.
	Add for thermal protector (installed on autotransformer on Class 8606 only)			Any	Y116				160.	160.	160.	160.	160.		
Coil transient suppressor Per Coil			Any	Y145	44.	44.	44.	44.	44.	44.	44.				
Addition of terminal blocks.															
Wired, per terminal Each			1, 4, 12	G50②		32.	32.	32.	32.	32.	32.	32.	32.	32.	
Unwired, per terminal Each			1, 4, 12	G50②		16.	16.	16.	16.	16.	16.	16.	16.	16.	

① Single phase bimetallic overload relays for Type Sizes 00-2 require two (2) thermal units per starter.

② Addition of terminal block type 9080 CA or 9080 GB6 only. Number of circuits is same as ending of form number. (Ex: G50-7 is 7 wire terminal block.)

③ Size 7 uses a solid state overload relay. See Class 8536 for complete details.

* MAG-GARD is a Registered Trademark of Square D Company.
SPIN TOP is a Registered Trademark of Square D Company.



FACTORY MODIFICATIONS AND FORMS

FOR AC MAGNETIC CONTACTORS & STARTERS

FULL VOLTAGE AND REDUCED VOLTAGE CONTROLLERS

CLASSES 8547, 8549, 8604, 8606, 8650, 8651, 8810, 8811 and 8812

CLASSES 8547, 8549, 8604, 8606, 8650, 8651, 8810, 8811 and 8812												
	Factory Modifications	Enclosure Type	Form Letters	NEMA Size								
				0	1	2	3	4	5	6	7	8
0 CIRCUIT BREAKER OR DIS- CONNECT SWITCH	Addition of main circuit breaker or disconnect switch											
		10	Y79-1	\$564.	\$564.	\$688.	\$ 748.	\$1368.	\$2680.	\$3916.	\$5428.	\$ 9200.
	Molded case circuit breaker	4, 7, 9, 10	Y79-1	804.	804.	992.	1372.	1992.	3316.	5116.	6628.	10400.
		12	Y79-1	572.	572.	720.	804.	1848.	3044.	4216.	5728.	9500.
	Non-fusible disconnect switch	1	Y79-2	376.	376.	480.	608.	840.	1504.			
		4, 9, 10	Y79-2	616.	616.	784.	1232.	1496.	2160.			
		12	Y79-2	384.	384.	512.	664.	1352.	1664.			
	Fusible switch with 30 amp. fuse clips	1	Y79-3	440.	440.							
		4	Y79-3	680.	680.							
		12	Y79-3	448.	448.							
	Fusible switch with 60 amp. fuse clips	1	Y79-4		440.	512.						
		4	Y79-4		680.	816.						
		12	Y79-4		448.	544.						
	Fusible switch with 100 amp. fuse clips	1	Y79-5				656.					
		4	Y79-5				1280.					
		12	Y79-5				712.					
	Fusible switch with 200 amp. fuse clips	1	Y79-6				816.	1016.				
		4	Y79-6				1440.	1640.				
		12	Y79-6				872.	1496.				
	Fusible switch with 400 amp. fuse clips	1	Y79-7						1648.	3100.		
		4	Y79-7						2304.	4312.		
		12	Y79-7						1808.	3612.		
	Automatic molded case switch with 600 amp. fuse clips	1	Y79-8							3876.		
		4	Y79-8							5076.		
	12	Y79-8							4176.			
Automatic molded case switch with fuse clips 1000 amp. or less	1	Y79-9							4332.	4332.	8960.	
	4	Y79-9							5532.	5532.	10160.	
	12	Y79-9							4932.	4932.	9560.	
Automatic molded case switch	1	Y79-10							3452.	3652.	8280.	
	4	Y79-10							4652.	4852.	9480.	
	12	Y79-10							3752.	3952.	8580.	

0 NEMA 7, 9 adders apply to 8810 non-reversing devices Sizes 0, 1 and 2 only.

CLASS 8630 REDUCED VOLTAGE CONTROLLERS ONLY

Factory Modifications	Enclosure Type	Form Letters	NEMA Size							
			1 YD	2 YD	3 YD	4 YD	5 YD	6 YD	7 YD	8 YD
Circuit Breakers, Circuit Interruptors or Non-Fusible Disconnects										
Molded case circuit breaker	1	Y79-1	\$688.	\$ 748.	\$1368.	\$2660.	\$3916.	\$5428.	\$ 9200.	\$ 9200.
	4	Y79-1	992.	1372.	1992.	3316.	5116.	6628.	10400.	10400.
	12	Y79-1	720.	804.	1848.	3044.	4216.	5728.	9500.	9500.
Automatic molded case switch	1	Y79-10					3452.	3652.	8280.	8280.
	4	Y79-10					4652.	4852.	9480.	9480.
	12	Y79-10					3752.	3952.	8580.	8580.
Non-fusible disconnect switch	1	Y79-2	480.	608.	840.	1504.				
	4	Y79-2	784.	1232.	1496.	2180.				
	12	Y79-2	512.	664.	1352.	1664.				
Fusible Disconnect Switch with Fuse Clips for Time Delay Fuses 0										
30 amp. clips	1	Y79-3	512.0	656.0						
	4	Y79-3	680.0	1280.0						
	12	Y79-3	544.0	712.0						
60 amp. clips	1	Y79-4	656.0	656.0	656.0					
	4	Y79-4	1280.0	1280.0	1280.0					
	12	Y79-4	712.0	712.0	712.0					
100 amp. clips	1	Y79-5		1016.0	1016.0					
	4	Y79-5		1640.0	1640.0					
	12	Y79-5		1496.0	1496.0					
200 amp. clips	1	Y79-6			1648.0	1648.0				
	4	Y79-6			2304.0	2304.0				
	12	Y79-6			1808.0	1808.0				
400 amp. clips	1	Y79-7				3876.0	3876.0			
	4	Y79-7				5076.0	5076.0			
	12	Y79-7				4176.0	4176.0			
600 amp. clips0	1	Y79-8					4076.0	4076.0		
	4	Y79-8					5276.0	5276.0		
	12	Y79-8					4276.0	4276.0		

0 Not suitable for full load current exceeding 26 amps. Use larger clip and/or Class J clips.

0 Not suitable for full load current exceeding 52.1 amps. Use larger clip and/or Class J clips.

0 Not suitable for full load current exceeding 86.9 amps. Use larger clip and/or Class J clips.

0 Not suitable for full load current exceeding 173 amps. Use larger clip and/or Class J clips.

0 Not suitable for full load current exceeding 347 amps. Use larger clip and/or Class J clips.

0 Not suitable for full load current exceeding 521 amps.

0 Fuses not included. Class K5 fuses recommended.

0 Uses automatic circuit interrupter as the disconnect means.

FOR AC MAGNETIC CONTACTORS & STARTERS

CLASS 8640 REDUCED VOLTAGE CONTROLLERS ONLY

NOTE: To comply with Section 430-3 of the National Electrical Code, combination part-winding controllers are provided as follows:

- (A) Circuit Breaker: two magnetic, adjustable trip, circuit breakers; one for each motor winding. In the FA and KA frames, a single external operating mechanism to operate the two breakers simultaneously. In KA and LA frames, each breaker has its own operating mechanism, but electrical interlocks prevent motor operation unless both breakers are closed.
- (B) Non-fusible Disconnect: a single 3-pole unfused disconnect of the proper rating for both windings. The user is required to provide proper short-circuit protection external to the controller, using only Class J fuses.
- (C) Fusible Disconnect Switch: a single unfused disconnect with two sets of fuse clips (each set of the rating indicated) to provide short-circuit protection for each winding.

CLASS 8640 ONLY								
Factory Modifications	Enclosure Type	Form Letters	NEMA Size					
			1 PW	2 PW	3 PW	4 PW	5 PW	6 PW
Main Circuit Breaker or Disconnect Switch (See NOTE above for explanation of circuit breaker or fuse clip arrangement.)								
Molded case circuit breakers {	1	Y79-11	\$688.	\$ 748.	\$1368.	\$2660.	\$3916.	....
	4, 9Ø	Y79-11	962.	1372.	1992.	3316.	5116.	....
	12	Y79-11	720.	804.	1848.	3044.	4216.	....
Non-fusible disconnect switch {	1	Y79-2	480.	608.	840.	1504.	3452.	....
	4, 9Ø	Y79-2	784.	1232.	1496.	2160.	4652.	....
	12	Y79-2	512.	684.	1352.	1664.	3752.	....
Fusible switch with 30 amp. fuse clips (Two Sets) {	1	Y79-31	512.	....	....	....	....	....
	4	Y79-31	816.	....	....	....	....	....
	12	Y79-31	544.	....	....	....	....	....
Fusible switch with 60 amp. fuse clips (Two Sets) {	1	Y79-41	596.	656.	1016.	....	....	....
	4	Y79-41	900.	1280.	1640.	....	....	....
	12	Y79-41	628.	712.	1496.	....	....	....
Fusible switch with 100 amp. fuse clips (Two Sets) {	1	Y79-51	....	....	1016.	....	....	....
	4	Y79-51	....	....	1640.	....	....	....
	12	Y79-51	....	....	1496.	....	....	....
Fusible switch with 200 amp. fuse clips (Two Sets) {	1	Y79-61	....	....	1448.	1648.	....	....
	4	Y79-61	....	....	2072.	2304.	....	....
	12	Y79-61	....	....	1560.	1808.	....	....
Fusible switch with 400 amp. fuse clips (Two Sets) {	1	Y79-71	....	....	....	2212.	3876.0	....
	4	Y79-71	....	....	....	2888.	5076.0	....
	12	Y79-71	....	....	....	2372.	4176.0	....
Automatic molded case switch with 600 amp. fuse clips (Two Sets) {	1	Y79-20	....	....	....	....	4332.	....
	4	Y79-20	....	....	....	....	5532.	....
	12	Y79-20	....	....	....	....	4932.	....
Automatic molded case switch with provisions for 801-800 amp. Class L fuses (Two Sets) {	1	Y79-21	....	....	....	....	4332.	4332.
	4	Y79-21	....	....	....	....	5532.	5532.
	12	Y79-21	....	....	....	....	4932.	4932.
Automatic molded case switch with provisions for 1000-1200 amp. Class L fuses (Two Sets) {	1	Y79-22	....	....	....	....	4332.	4332.
	4	Y79-22	....	....	....	....	5532.	5532.
	12	Y79-22	....	....	....	....	4932.	4932.

① Consists of Automatic molded case switch with two sets of 400-ampere fuse clips.

② NEMA Type 9 enclosure modifications not available in size 3PW and larger.



SPECIAL FEATURES

ENCLOSURE PRICE

Enclosures only for certain Class 8501 relays and Class 8502, 8702 and 8903 contactors and Class 8536, 8736 and 8810 starters are listed in the Class 9991 Section. Where **other** enclosures are required, catalog sheets may be used to determine selling price under **all** of the following limitations:

1. The enclosure must be for a Class 8502, 8536, 8702, 8736, 8810 or 8903 device.
2. The enclosure must be Nema Type 1 for a device of current design.
3. The basic device must be without form letter (except Form S, X or SX).
4. The enclosure must be for replacement purposes, or for use with an open type device previously purchased.
5. Prices must be listed in catalog for both the open and enclosed versions.

If all of the above limitations apply, use the method below.

When both the price of the enclosed device and the price of the open device are shown in the catalog, the difference is the "omission price." After the omission price has been found, the cabinet list price may be determined by the following formula:

- A. Two times the omission price
or
B. Omission price plus **\$40.00**

Use the lower of the two prices.

Example 1: Enclosure only for Class 8502, Type SCG-2

8502 — SCG-2	\$144.00
8502 — SCO-2	136.00
Omission price	\$ 8.00

(a) Two times \$8.00 = \$16.00

(b) \$8.00 + \$40.00 = \$48.00

Use \$16.00 as list price

Example 2: Enclosure only for Class 8536 Type SEG-1

8536 — SEG-1	\$540.00
8536 — SEO-1	460.00
Omission price	\$ 80.00

(a) Two times \$80.00 = \$160.00

(b) \$80.00 + \$40.00 = \$120.00

Use \$120.00 as list price

All prices obtained by this method are subject to

D1B DISCOUNT

CHARGES FOR SPECIAL WIRING DIAGRAMS AND SPECIAL WIRING

The prices quoted for special controllers include charges covering the preparation of the special diagrams needed. The prices published for standard apparatus, however, are based upon high production of identical units with no provision for special engineering, beyond the assistance which our representatives render in the field.

I. SPECIAL WIRING DIAGRAMS

A. If customer purchases a number of standard devices to be connected together for controlling a machine of his manufacture, it is assumed that he will prepare a machine wiring diagram based on the standard diagrams which we supply with each individual piece of equipment. If, however, he does not have the facilities for this work and asks us to do it for him, the following prices will be charged.

Sheet Identification		Size	Net Price
New	Old		
A	D	8½" x 11"	\$ 100.
B	C	11" x 17"	225.
C	B	17" x 22"	340.
D	A	22" x 34"	630.
E	AA	34" x 44"	1190.

B. The above prices cover only our engineering charges for making up the wiring diagrams required. When requested ten (10) blue-

prints of the wiring diagram will be furnished without additional charge. In the event the customer is willing to make his own blueprints from a **paper transparency** (ammonia process), we will supply a suitable transparency without charge.

C. Our Engineering Department reserves the right to select the size of sheets to be used for the special diagrams. Their selection will be in accordance with good engineering practice, and will be guided by the amount and size of equipment to be shown.

II. SPECIAL WIRING

Occasionally requirements involve devices which are completely standard except for the fact that special wiring is necessary. On reasonably simple devices such as Class 8502, 8536, 8538, 8539, 8702, 8736, 8738, and 8739, special wiring can be furnished at the following prices:

A. A special handling charge of \$8.00 LIST (D1A discounts) per device will be added to the price of the device when fewer than ten identical units are ordered. In the event that ten or more identical units are ordered, no special handling charge will be assessed.

PLUS

B. A net charge will be made for special wiring diagrams on the **initial** order. No charge for diagrams will be made on **repeat** orders.

SPECIAL FEATURES

FUNGICIDAL TREATMENT AND SPECIAL FINISHES

Price additions shown below will apply when one or more of the following finishes are applied to a device:

1. Plating of parts to withstand 200 hour salt spray test.
2. Cronak finish on zinc plated parts.
3. Zinc or cadmium plating of all metal parts (does not include enclosure).
4. Treatment with special varnishes per MIL-V-173A under Government Specification MIL-T-152B, to resist moisture and fungus. Specify **Form L5**.

MINIMUM CHARGE

A minimum charge of **\$320.** list per item will be made for each order for unit shipment. An item may be interpreted to be all devices on an order having the same Class number and the same size rating.

UNIT CHARGES

I. CONTROL ITEMS

A. Class 2510 Types F and K:

- Lots of 1-22 **\$320.** list minimum charge
 Lots of 23-99 **14.** list each
 Lots of 100 or more **8.** list each

B. Classes 2510 Types M and T, 7001, 8501, 8502, 8504, 8536, 8538 and 8539 (Price additions for Classes 8502, 8504, 8536, 8538 and 8539 devices, apply to NEMA Size 1½ and smaller only):

- Lots of 1-10 **\$320.** list minimum charge
 Lots of 11-99 **32.** list each

Lots of 100 or more **14.** list each

C. Class 9012 through 9049 All Types:

Lots of 1 or more **10%** of list price per device.

D. All Other Controls:

Lots of 1-99 **25%** of list price of open type construction (Subject to **\$320.** list minimum charge).

Lots of 100 or more **10%** of list price of open type construction (Subject to **\$320.** list minimum charge).

II. ACCESSORIES

A. Class 9001, Standard duty push button stations, heavy duty and heavy duty oil-tight control units:

Lots of 1-24 **\$320.** list minimum charge

D1B DISCOUNT

Lots of 25 or more **14.** list each

D1B DISCOUNT

B. Class 9001, Heavy duty and heavy duty oil-tight push button stations:

Class 9007 Types C, B, BO or BR limit switches meet specifications without special treatment. The price adders below do apply to Types BB, BC, BF and all other Types of limit switches:

Class 9050 timing relays:

- Lots of 1-10 **\$320.** list minimum charge
 Lots of 11-99 **32.** list each
 Lots of 100 or more **14.** list each

D1B DISCOUNT



CHARGES FOR ADDITIONAL QUANTITIES OF PRINTS AND INSTRUCTION MANUALS

The data below applies to Heavy Industry Control Products.

PRINTS

PRINTS CERTIFIED FOR INSTALLATION

When stated on the purchase order at the time of order entry, Square D Company will furnish prints of each wiring diagram, resistor drawing and outline drawing certified for installation. Square D Company will furnish, without charge, up to ten (10) prints or one (1) print and one (1) paper reproducible tracing from which additional prints can be made. If no quantity is specified, five (5) prints of each drawing will be supplied. An extra charge will be made for preparation of additional prints once the initial drawing transmittal is made.

PRINTS FOR CUSTOMER'S APPROVAL

When prints for customer's approval are specified on the purchase order, these will be supplied in addition to any certified for installation drawings. The same limitations as listed for prints certified for installation shall apply. All shop work and shipments will be held pending return of approved drawings.

EXCESSIVE QUANTITIES OF PRINTS

When the quantity of prints requested by a customer exceeds the quantities listed above, additional reprints or reproducible can be supplied at the prices listed in the price table below. Note that these prices are **per sheet** prices. Wiring diagrams normally are of C or D drawing size and may consist of multiple sheets. A minimum charge of \$50.00 net will apply.

REPRODUCIBLE TRACINGS

Reproducible tracings of wiring diagrams, resistor drawings and outline drawings are available as part of an order for HI Control Products at the prices listed in the table below.

PAPER — AMMONIA-DIAZO OR XEROX PROCESS

This is a reproducible drawing made on paper. The process will be determined by Square D Company.

MYLAR — AMMONIA-DIAZO PROCESS

This is the standard mylar reproducible drawing process. The mylar sheet thickness is 0.003" with one side smooth and the other side

matte. The mylar is exposed so that the reproducible is correctly viewed from the matte side. Corrections can be made on the mylar by erasing with an electric eraser or by applying GAF Corporation Scalemaster erasing fluid to the emulsion side and rubbing with a soft cloth or cotton swab. Changes can then be drawn on the matte side of the mylar by using a special pencil made for use with polyester films.

MYLAR — WASH-OFF PROCESS

This is a photographic process. The base material is commonly mylar. Tracings can be corrected by simply moistening a cotton swab with water and lightly rubbing the image to be removed. Changes can then be added by pencil or drawing ink.

MICROFILM

35mm film is mounted on a 3 1/4" by 7 7/8" aperture card. All micro-filmed drawings will be parallel to the long axis of the aperture card. A, B, & C size drawings will have a 16:1 reduction; D and larger size drawings will have a 24:1 reduction. Drawings above size D will be sectionalized and will require 2 or more cards. See the table below for prices.

SPECIAL FEATURES

Special features include reproducing Square D drawings on customer's drawing format with customer's title block and/or the combining of several smaller drawings on one large drawing. Special features of this type can only be supplied on mylar drawings and cannot be supplied on prints or paper reproducible. These features can be supplied at the price adders listed in the table below.

INSTRUCTION MANUALS

When stated on the purchase order at the time of order entry, Square D Company will furnish, without charge, up to five (5) instruction manuals. These manuals normally consist of a stiff paper binder containing index sheets, service bulletins, wiring diagrams and resistor drawings. The number and types of prints required to prepare the manuals will vary. If more than five (5) instruction manuals are required, consult your nearby Square D sales office for additional charges.

Drawing Size ^Δ		†NET PRICE EACH					
		Print	Reproducible Paper	Standard Mylar	Wash-Off Mylar	Standard Microfilm	Addition For ▲ Special Features
A	8 1/2 x 11	\$1.00	\$2.00	\$ 6.00	\$ 9.00	\$6.00	\$ 5.00
B	11 x 17	1.25	2.50	9.00	18.00	6.00	10.00
C	17 x 22	1.50	3.00	12.00	36.00	6.00	20.00
D	22 x 34	2.00	4.00	16.00	72.00	6.00	40.00

^Δ Square D Company reserves the right to select the size and number of sheets to be used for a drawing. The selection will be in accordance with good engineering practice and will be guided by the size and amount of equipment to be shown.

▲ Special features as listed above can be supplied on mylar reproducible tracings only. Add to the price listed for mylar.

† A minimum charge of \$50.00 net will apply.

Prices subject to change without notice.

NOTE: Prints and instruction manual pricing procedures for General Industry Control Products are listed on page 12.



CHARGES FOR ADDITIONAL QUANTITIES OF PRINTS AND INSTRUCTION MANUALS

The data below applies to General Industry Control Products.

I. PRINTS

Prices of industrial control products have been established on the basis that the wiring diagram normally included will be sufficient for most applications and other jobs will require little more in the way of outline dimension prints or additional diagrams.

A few applications will require abnormal quantities of prints and there should be no objection to paying for the excessive quantities of prints required. Our policy will be as follows:

A. Where job requirements justify, we will furnish, without charge, as many as ten (10) prints for an order item of 1 to 24 units of equipment of the same type. This would mean furnishing "no charge" twenty (20) prints for an order item calling for 25 to 49 units, thirty (30) prints for an order item specifying 50 to 74 units, etc. Upon request, these prints will also be certified without charge. In the event the customer is willing to make his own prints from a **paper reproducible** (Ammonia process), we will supply such a reproduction of any standard wiring diagram or outline dimension drawing without charge.

B. Additional prints over and above the quantities listed in paragraph A will be provided at the prices shown in Table 1 (minimum billing charge of \$50. net will apply).

II. OPERATIONAL AND REPAIR PARTS MANUAL

A. When requested, instruction manuals will be supplied for all GENERAL INDUSTRIAL CONTROL products, a charge of \$20. net for the first copy and \$10. net for each additional copy will be applied to each controller.

B. These instruction manuals normally consist of a stiff paper binder containing service bulletins covering devices in the controller, wiring diagrams, panel arrangements, outline dimensions, recommended repair parts, etc.

NOTE: Print and instruction manual pricing information for Heavy Industry Control equipment is listed on page 11. The above procedures do *not* apply to Systems Control or Peru Motor Control Centers — for pricing refer to specific product catalog sections.

TABLE 1

Drawing	Size	Net Price Each		
		Prints	Paper Transparency	Mylar Transparency
A	8½" x 11"	\$1.00	\$ 2.00	\$ 6.
B	11" x 17"	1.25	2.50	9.
C	17" x 22"	1.50	3.00	12.
D	22" x 34"	2.00	5.00	25.
E	34" x 44"	3.00	10.00	50.

* These prints can be certified for an additional charge of \$0.10 per print.

