



2 TOGGLE SWITCHES

General Purpose Toggle Switches — AC Rated (continued)

STANDARD AC RATED TOGGLES SELECTION TABLE (BOLD FACE TYPE INDICATES ITEMS NORMALLY IN DISTRIBUTOR STOCK)

Rating	Poles and Throw	Circuit with Toggle in			BASE CIRCUIT SEE PAGE 4.28	Bushing Length A mm (inches)	Lever Length B mm (inches)	CATALOG NUMBERS			
		UP Position 	CENTER Position 	DOWN Position (Keyway) 				Solder Lugs	Screw Terminals	.250" Spade Terminals	Combi-Term
TWO POLE		TWO POLE									
6A, 125V ac 3A, 250V ac 2A, 277V ac 2.5A, L @ 125V ac	2 P.S.T.	ON	NONE	OFF	C	11.91 (.469)	14.30 (.563)	7590K6	7590K4	7590K8	N/A
6A, 125V ac 3A, 250V ac 2.5A, L @ 125V ac	2 P.D.T.	ON	OFF	ON	D	11.91 (.469)	14.30 (.563)	7591K6	7591K4	7591K8	
	2 P.D.T.	ON	NONE	ON	D	11.91 (.469)	14.30 (.563)	7592K6	7592K4	7592K8	
6A, 125V ac 3A, 250V ac	2 P.D.T.	ON*	OFF	ON*	D	11.91 (.469)	14.30 (.563)	7597K6	7597K4	7597K8	
15A, 125V ac 10A, 250V ac 3/4 Hp, 250V ac 1/2 Hp, 125V ac	2 P.S.T.	ON	NONE	OFF	C	8.74 (.344) 11.91 (.469)	14.30 (.563) 14.30 (.563)	7561K5 7561K4	7560K6 7560K5	7561K7 7561K6	
	2 P.D.T.	ON	OFF	ON	D	8.74 (.344) 11.91 (.469)	14.30 (.563) 14.30 (.563)	7563K5 7563K4	7562K5 7562K4	7563K7 7563K6	
15A, 125V ac 10A, 250V ac 3/4 Hp, 250V ac	2 P.D.T.	ON	NONE	ON	D	11.91 (.469)	14.30 (.563)	7565K5	7564K6	7565K7	
15A, 125V ac 10A, 250V ac 1/2 Hp, 250V ac	2 P.S.T.	OFF	NONE	ON*	C	11.91 (.469)	14.30 (.563)	7566K4	7566K5	7566K7	
	2 P.D.T.	ON ON*	OFF OFF	ON* ON*	D	11.91 (.469)	14.30 (.563)	7568K3 ❶ 7569K1 7570K4	7568K2 ❶ 7569K2 7570K5	7568K4 ❶ 7569K3 7570K7	
20A, 125V ac 10A, 250V ac 3/4 Hp, 250V ac 1/2 Hp, 125V ac	2 P.D.T.	ON*	OFF	ON*	D	11.91 (.469)	17.48 (.688)	7569K38	7569K36	7569K40	
	2 P.S.T.	ON	NONE	OFF	C	11.91 (.469)	17.48 (.688)	7630K38	7630K36	7630K40	
20A, 125V ac 10A, 250V ac 1 Hp, 120-240V ac	2 P.D.T.	ON	OFF	ON	D	11.91 (.469)	17.48 (.688)	7632K38	7632K36	7632K40	
	2 P.S.T.	ON	NONE	OFF	C	—	—	7803K11	7803K31	7803K21 ❸	7803K41
20A, 125V ac 10A, 250V ac 1 Hp, 120-240V ac	2 P.D.T.	ON ON*	OFF NONE OFF	ON ON ON*	D	—	—	7803K12 7803K13 7803K17 ❸	7803K32 7803K33 7803K37 ❸	7803K22 ❹ 7803K23 ❹ 7803K27 ❸	7803K42 7803K43 ❸ 7803K47 ❸
	THREE POLE		THREE POLE								
15A, 125V ac 10A, 250V ac 3/4 Hp, 250V ac 1 Hp, 3 Ph 125-600V ac 1 Hp & 2 Ph 125-480V ac	3 P.S.T.	ON	NONE	OFF	E	11.91 (.469)	17.48 (.688)	7700K1	7700K2	7700K3	N/A
	3 P.D.T.	ON ON	OFF NONE	ON ON	F	11.91 (.469)	17.48 (.688)	7701K1 7702K1	7701K2 7702K2	7701K3 7702K3	
3 P.D.T.	ON* ON*	OFF NONE	ON ON	F	11.91 (.469)	17.48 (.688)	7704K1 7705K1	7704K2 7705K2	7704K3 7705K3		
20A, 125V ac 10A, 250V ac 1 Hp, 120V ac 1, 2, & 3 phase	3 P.D.T.	ON	OFF	ON	F	—	—	7804K12 ❷❸	7804K32 ❸	7804K22 ❸	7804K42 ❸
FOUR POLE		FOUR POLE									
15A, 125V ac 10A, 250V ac 3/4 Hp, 250V ac	4 P.S.T.	ON	NONE	OFF	E	11.91 (.469)	17.48 (.688)	7691K14	7690K8	—	N/A
	4 P.D.T.	ON ON	OFF NONE	ON ON	F	11.91 (.469)	17.48 (.688)	7693K2 7695K5	7692K13 7694K4	—	
20A, 125V ac 10A, 250V ac 3/4 Hp, 250V ac 1/2 Hp, 125V ac	4 P.S.T.	ON	NONE	OFF	E	11.91 (.469)	17.48 (.688)	7933K38	7933K36	7933K40	
	4 P.D.T.	ON ON	OFF NONE	ON ON	F	11.91 (.469)	17.48 (.688)	7934K38 7935K38	7934K36 7935K36	7934K40 7935K40	
20A, 125V ac 10A, 250V ac 1 Hp, 125-240V ac 2 & 3 phase	4 P.D.T.	ON	OFF	ON	F	—	—	7805K12 ❹	7805K32 ❹	7805K22 ❹	7805K42 ❹

* Momentary Contact.

❶ Also 1/2 Hp at 125-250V ac Rating.

❷ 1 Hp @ 240-480V ac 1 or 2 phase and 240-600V ac, 3 phase.

❸ Not CSA Certified.

❹ Also 7.5A, 277V ac, 3/4 Hp, 120-240-277V ac.

2 TOGGLE SWITCHES

Special Purpose Heavy Duty and Heavy Duty Hesitation Switches

DESCRIPTION

One Hole Panel Mount




These heavy duty toggle switches are available in either two or three position. The three position switches offer a unique positive center stop feature which assures that the lever cannot be thrown from one side through the center "OFF" position without stopping. This design feature is a major factor in their widespread

acceptance for motor reversing and speed control applications. The most common application for the switch is to help prevent motor damage resulting from the high current generation by counter EMF of the armature at the time of reversing. This type of device is referred to within the industry as an anti-plugging, hesitation, positive stop or positive off switch. Typical applications include bench tools, coach and truck (electric lift) and X-Ray equipment.

Flush Mount

These three position switches also offer the positive center stop feature where the lever cannot be thrown from one side through the center "OFF" position without stopping. The high ratings of this series allow it to be used with a broad range of heavy duty applications. Copper contacts and brass screw terminals are standard.




ONE HOLE PANEL MOUNT SWITCH SELECTION TABLE (BOLD FACE TYPE INDICATES ITEMS NORMALLY IN DISTRIBUTOR STOCK)

Rating	Poles and Throw	Circuit with Toggle in			BASE CIRCUIT SEE PAGE 4.28	Bushing Length mm (inches)	Lever Length mm (inches)	Lever Type	CATALOG NUMBERS
		UP Position 	CENTER Position 	DOWN Position  (Keyway)					Screw Terminals
ONE HOLE PANEL MOUNT		ONE HOLE PANEL MOUNT							
14A, 125V ac/dc 7A, 250V ac/dc 3/4 Hp, 125-250V ac/dc	2 P.D.T.	ON ON	NONE OFF	ON ON	D	10.31 (.406) 10.31 (.406)	13.49 (.531) 13.49 (.531)	Ball Ball	7814K1 7814K2
15A, 125V ac ① 10A, 250V ac 3/4 Hp, 250V ac	2 P.D.T.	ON	OFF	ON	D	11.89 (.468)	17.45 (.687)	Bat	7992K10
10A, 125V ac/dc 5A, 250V ac/dc	3 P.D.T.	ON	OFF	ON	F	10.31 (.406)	13.49 (.531)	Ball	7815K3
15A, 125V ac ① 10A, 250V ac 3/4 Hp, 250V ac	3 P.D.T.	ON	OFF	ON	F	11.89 (.468)	17.45 (.687)	Bat	7991K10
10A, 125V ac/dc 5A, 250V ac/dc	4 P.D.T.	ON	NONE	ON	F	10.31 (.406)	13.49 (.531)	Ball	7815K1 ②
10A, 125V ac/dc 5A, 250V ac/dc 1/2 Hp, 125-250V ac/dc	4 P.D.T.	ON	OFF	ON	F	10.31 (.406)	13.49 (.531)	Ball	7816K2
15A, 125V ac ① 10A, 250V ac 3/4 Hp, 250V ac	4 P.D.T.	ON	OFF	ON	F	11.89 (.468)	17.45 (.687)	Bat	7990K10

① Listed Rating for 125V ac also applies at 28V dc.

② Not UL Recognized.

FLUSH MOUNT SWITCH SELECTION TABLE

Rating	Poles and Throw	Circuit with Toggle in			Lever Type	Type of Termination	CATALOG NUMBERS
		UP Position 	CENTER Position 	DOWN Position  (Keyway)			
FLUSH MOUNT SWITCH		FLUSH MOUNT SWITCH					
20A, 125V ac/dc 10A, 250V ac/dc	2 P.D.T.	ON ON	NONE OFF	ON ON	Square Square	Screw Screw	7810K1 7810K2 ① ②
30A, 125V ac/dc 20A, 250V ac/dc	2 P.D.T.	ON	OFF	ON	Square	Screw	7811K2 ① ③
	3 P.D.T.	ON	OFF	ON	Square	Screw	7812K2
	4 P.D.T.	ON	OFF	ON	Square	Screw	7813K2

① CSA Certified.




② Also rated 5A, 600V ac; 1-1/2 Hp, 250V dc; 2 Hp, 240V ac.

③ Also rated 2 Hp, 250V ac/dc.

2 TOGGLE SWITCHES

Military Purpose Toggle Switches (continued) AC Rated (Heavy Duty) MIL-S-83731 Switches with Lever Seal

AC RATED (HEAVY DUTY) MIL-S-83731 SWITCHES SELECTION TABLE (BOLD FACE TYPE INDICATES ITEMS NORMALLY IN DISTRIBUTOR STOCK)

Rating	Poles and Throw	Circuit with Toggle in			BASE CIRCUIT SEE PAGE 4.28	Bushing Length "A" mm (inches)	Lever Length "B" mm (inches)	CATALOG NUMBERS	
		UP Position	CENTER Position	DOWN Position				Screw Terminals with Sealed Lever	
				 (Keyway)				MS Part Number	Catalog Number
ONE POLE									
1 1 2 2 2 2	1 P.S.T.	ON ON ON ON NONE OFF	NONE OFF NONE OFF* OFF NONE	OFF NONE OFF* NONE ON* ON*	A	11.89 (.468) 11.89 (.468) 11.89 (.468) 11.89 (.468) 11.89 (.468) 11.89 (.468)	17.45 (.687) 17.45 (.687) 17.45 (.687) 17.45 (.687) 17.45 (.687) 17.45 (.687)	MS35058-22 MS35058-24 MS35058-29 MS35058-25 MS35058-28 MS35058-30	8801K22 8801K23 8813K17 8813K18 8811K18 8811K17
1 1 2 2 2	1 P.D.T.	ON ON ON ON*	OFF NONE NONE OFF	ON ON ON* ON*	B	11.89 (.468) 11.89 (.468) 11.89 (.468) 11.89 (.468) 11.89 (.468)	17.45 (.687) 17.45 (.687) 17.45 (.687) 17.45 (.687) 17.45 (.687)	MS35058-21 MS35058-23 MS35058-26 MS35058-27 MS35058-31	8800K16 8810K15 8804K13 8812K14 8809K16
TWO POLE									
3 3 4 4 4 4	2 P.S.T.	ON ON ON ON NONE OFF	NONE OFF NONE OFF* OFF NONE	OFF NONE OFF* NONE ON* ON*	C	11.89 (.468) 11.89 (.468) 11.89 (.468) 11.89 (.468) 11.89 (.468) 11.89 (.468)	17.45 (.687) 17.45 (.687) 17.45 (.687) 17.45 (.687) 17.45 (.687) 17.45 (.687)	MS35059-22 MS35059-24 MS35059-29 MS35059-25 MS35059-28 MS35059-30	8822K20 8822K21 8828K13 8828K12 8826K14 8826K15
3 3 4 4 4	2 P.D.T.	ON ON ON ON*	OFF NONE NONE OFF	ON ON ON* ON*	D	11.89 (.468) 11.89 (.468) 11.89 (.468) 11.89 (.468) 11.89 (.468)	17.45 (.687) 17.45 (.687) 17.45 (.687) 17.45 (.687) 17.45 (.687)	MS35059-21 MS35059-23 MS35059-26 MS35059-27 MS35059-31	8820K16 8824K14 8830K13 8834K5 8832K6
5 5 5 5 5 5	1 P.3.T in a 2P Base	ON 3 ON 4 ON* 4 ON 4 ON 4 ON* 4	ON 4 ON 4 ON 4 ON 4 ON 4 ON 4	ON 10 ON* 10 ON* 10 ON* 10 ON* 10 ON* 10	See Diagram On Page 4.28	11.89 (.468) 11.89 (.468) 11.89 (.468) 11.89 (.468) 11.89 (.468) 11.89 (.468)	17.45 (.687) 17.45 (.687) 17.45 (.687) 17.45 (.687) 17.45 (.687) 17.45 (.687)	MS25201-4 MS25201-5 MS25201-6 MS25201-7 MS25201-8 MS25201-9	8860K4 8860K5 8860K6 8860K7 12 8860K8 12 8860K9 12
FOUR POLE									
6 6 7 7 7	4 P.S.T.	ON ON ON NONE OFF	NONE OFF OFF* OFF NONE	OFF NONE NONE ON* ON*	E	11.89 (.468) 11.89 (.468) 11.89 (.468) 11.89 (.468) 11.89 (.468)	17.45 (.687) 17.45 (.687) 17.45 (.687) 17.45 (.687) 17.45 (.687)	— MS25068-24 MS25068-25 MS25068-28 —	7660K12 7660K13 7668K7 7666K9 7666K6
6 6 7 7 7	4 P.D.T.	ON ON ON ON*	OFF NONE NONE OFF	ON ON ON* ON*	F	11.89 (.468) 11.89 (.468) 11.89 (.468) 11.89 (.468) 11.89 (.468)	17.45 (.687) 17.45 (.687) 17.45 (.687) 17.45 (.687) 17.45 (.687)	MS25068-21 MS25068-23 MS25068-26 MS25068-27 MS25068-31	7662K7 7664K5 7674K5 7672K5 7670K6

* Momentary Contact.

CURRENT RATINGS

Code From Selection Table	Switch	Type of Operation	CURRENT CAPACITY IN AMPERES PER POLE								
			28V dc			115V ac, 60 Hz			115V ac, 400 Hz		
			Lamp Load	Resistive Load	Inductive Load	Lamp Load	Resistive Load	Inductive Load	Lamp Load	Resistive Load	Inductive Load
1 2	MS35058	Maintained Momentary	7 5	25 20	15 10	— —	10 10	10 7	3 —	10 —	10 —
3 4	MS35059	Maintained Momentary	7 5	20 18	15 10	— —	20 11	— —	4 —	20 —	15 —
5	MS25201	ON-ON-ON	5	18	10	2	11	8	2	11	8
6 7	MS25068	Maintained Momentary	5 4	20 18	12 10	— —	— —	— —	4 2	20 11	15 5

3 Across terminals 2-3 and 5-6.
4 Across terminals 1-2 and 5-6.
10 Across terminals 1-2 and 4-5.
11 Across terminals 2-3 and 4-5.
12 For "INDEPENDENT ON-ON-ON" circuit arrangement see page 4.28.

2 TOGGLE SWITCHES

Military Purpose Toggle Switches (continued) AC Rated (Heavy Duty) MIL-S-83731 Lever Lock Switches with Lever Seal

AC RATED (HEAVY DUTY) MIL-S-83731 LEVER LOCK SWITCHES SELECTION TABLE (BOLD FACE TYPE INDICATES ITEMS NORMALLY IN DISTRIBUTOR STOCK)

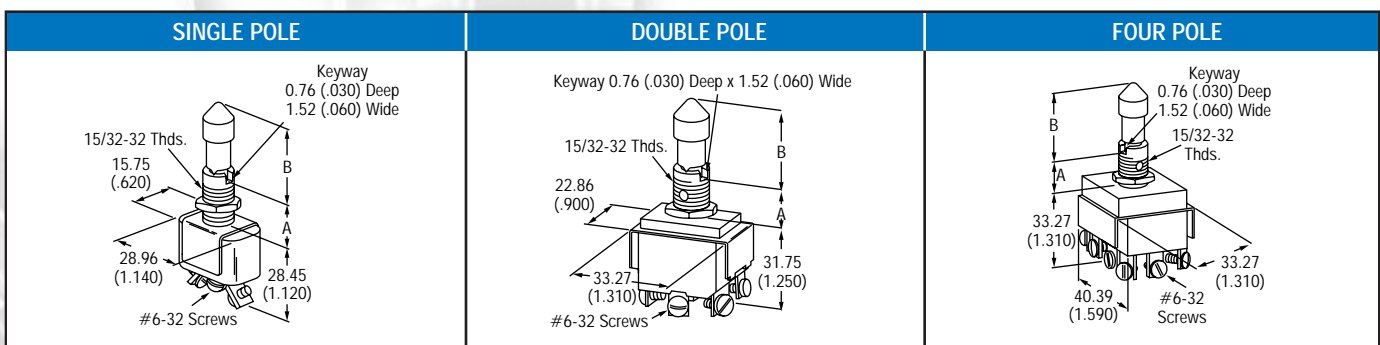
Rating	Poles and Throw	Circuit with Toggle in			BASE CIRCUIT SEE PAGE 4.28	Lever Lock Bushing Style (see below)	Bushing Length "A" mm (inches)	Lever Lock Length "B" mm (inches)	CATALOG NUMBERS	
		UP Position	CENTER Position	DOWN Position (Keyway)					Screw Terminals with Sealed Lever	
									MS Part Number	Catalog Number
ONE POLE		ONE POLE								
1	1 P.S.T.	ON	NONE	←OFF	A	14.27 (.562)	25.40 (1.000)	MS25125-C2	8857K47	
		ON→	NONE	←OFF		4	14.27 (.562)	25.40 (1.000)	MS25125-E2	8857K48
		ON→	←OFF	NONE		5	14.27 (.562)	25.40 (1.000)	MS25125-J4	8857K49
1	1 P.D.T.	ON	←OFF→	ON	B	14.27 (.562)	25.40 (1.000)	MS25125-B1	8857K40	
		ON	←OFF→	←ON		3	14.27 (.562)	25.40 (1.000)	MS25125-C3	8857K45
		ON→	NONE	←ON		4	14.27 (.562)	25.40 (1.000)	MS25125-E3	8857K44
TWO POLE		TWO POLE								
2	2 P.D.T.	ON→	←OFF→	←ON	C	14.27 (.562)	25.40 (1.000)	MS25126-A1	8858K39	
		ON	←OFF→	ON		2	14.27 (.562)	25.40 (1.000)	MS25126-B1	8858K40
		ON→	NONE	←ON		4	14.27 (.562)	25.40 (1.000)	MS25126-E3	8858K44
FOUR POLE		FOUR POLE								
3	4 P.D.T.	ON→	NONE	←ON	F	14.27 (.562)	25.40 (1.000)	MS25127-E3	8859K44	

← Indicates direction against which lever is locked.

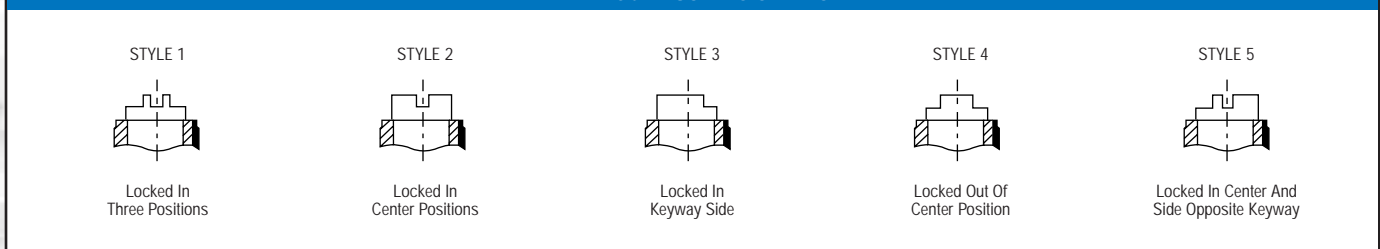
CURRENT RATINGS

Code From Selection Table	Switch	Type of Operation	CURRENT CAPACITY IN AMPERES PER POLE								
			28V dc			115V ac, 60 Hz			115V ac, 400 Hz		
			Lamp Load	Resistive Load	Inductive Load	Lamp Load	Resistive Load	Inductive Load	Lamp Load	Resistive Load	Inductive Load
1	MS25125	Maintained	5	20	15	—	—	—	3	10	10
2	MS25126	Maintained	7	20	15	—	—	—	4	20	15
3	MS25127	Maintained	5	20	15	—	—	—	4	20	15

DIMENSIONS APPROXIMATE IN MM (INCHES)



LEVER LOCK BUSHING STYLES



1 For pictorial representation only — keyway on right hand side.



Military Purpose Toggle Switches (continued)

AC Rated (Heavy Duty) Military (Jan-S-23 Equivalents) with Unsealed Lever

AC RATED (HEAVY DUTY) MILITARY JAN-S-23 EQUIVALENTS SELECTION TABLE (BOLD FACE TYPE INDICATES ITEMS NORMALLY IN DISTRIBUTOR STOCK)

Rating	Poles and Throw	Circuit with Toggle in			BASE CIRCUIT SEE PAGE 4.28	Bushing Length "A" mm (inches)	Bushing Length "B" mm (inches)	CATALOG NUMBERS					
		UP Position	CENTER Position	DOWN Position (Keyway)				Solder Lug Terminals		Screw Terminals			
								Former Jan-S-23 with Unsealed Lever	Catalog Number	Former Jan-S-23 with Unsealed Lever	Catalog Number		
ONE POLE													
1	1 P.S.T.	ON	NONE	OFF	A	11.89 (.468)	17.45 (.688)	ST-42A	7300K38	ST-40A	7300K36		
2		ON	NONE	OFF*				11.89 (.468)	17.45 (.688)	ST-42B	7304K38	ST-40B	7304K36
2		OFF	NONE	ON*				11.89 (.468)	17.45 (.688)	ST-42C	7303K38	ST-40C	7303K36
1	1 P.D.T.	ON	OFF	ON	B	11.89 (.468)	17.45 (.688)	ST-42E	7301K38	ST-40E	7301K36		
1		ON	NONE	ON				11.89 (.468)	17.45 (.688)	ST-42D	7302K38	ST-40D	7302K36
2		ON	NONE	ON*				11.89 (.468)	17.45 (.688)	ST-42F	7307K38	ST-40F	7307K36
2		ON*	OFF	ON*				11.89 (.468)	17.45 (.688)	ST-42G	7306K38	ST-40G	7306K36
2		ON	OFF	ON*				11.89 (.468)	17.45 (.688)	ST-42H	7305K38	ST-40H	7305K36
TWO POLE													
3	2 P.S.T.	ON	NONE	OFF	C	11.89 (.468)	17.45 (.688)	ST-52K	7310K38	ST-50K	7310K36		
4		ON	NONE	OFF*				11.89 (.468)	17.45 (.688)	ST-52L	7314K38	ST-50L	7314K36
4		OFF	NONE	ON*				11.89 (.468)	17.45 (.688)	ST-52M	7313K38	ST-50M	7313K36
3	2 P.D.T.	ON	OFF	ON	D	11.89 (.468)	17.45 (.688)	ST-52P	7311K38	ST-50P	7311K36		
3		ON	NONE	ON				11.89 (.468)	17.45 (.688)	ST-52N	7312K38	ST-50N	7312K36
4		ON	NONE	ON*				11.89 (.468)	17.45 (.688)	ST-52R	7317K38	ST-50R	7317K36
4		ON*	OFF	ON*				11.89 (.468)	17.45 (.688)	ST-52S	7316K38	ST-50S	7316K36
4		ON	OFF	ON*				11.89 (.468)	17.45 (.688)	ST-52T	7315K38	ST-50T	7315K36

* Momentary Contact.

CURRENT RATINGS

Code From Selection Table	Type of Operation	CURRENT CAPACITY IN AMPERES PER POLE								
		30V dc			125V ac, 60 Hz			250V ac, 60 Hz		
		Lamp Load	Resistive Load	Inductive Load	Resistive Load	Inductive Load	Horse Power	Resistive Load	Inductive Load	Horse Power
ONE POLE										
1	Maintained Momentary	5	20	15	15	—	—	6	—	—
2		4	15	10	15	—	—	6	—	—
TWO POLE										
3	Maintained Momentary	7	30	15	25	—	—	9	—	—
4		5	20	10	15	—	—	6	—	—

DIMENSIONS APPROXIMATE IN MM (INCHES)

