

SAE-AS14154

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ISSUED 1997-08

PREPARED BY SUBCOMMITTEE AE-8B1



AEROSPACE STANDARD

CIRCUIT BREAKER - AIRCRAFT, TRIP-FREE,
PUSH-PULL, 3 PHASE, 1 THRU 20 AMP, TYPE 1

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SHEET 1 OF 4

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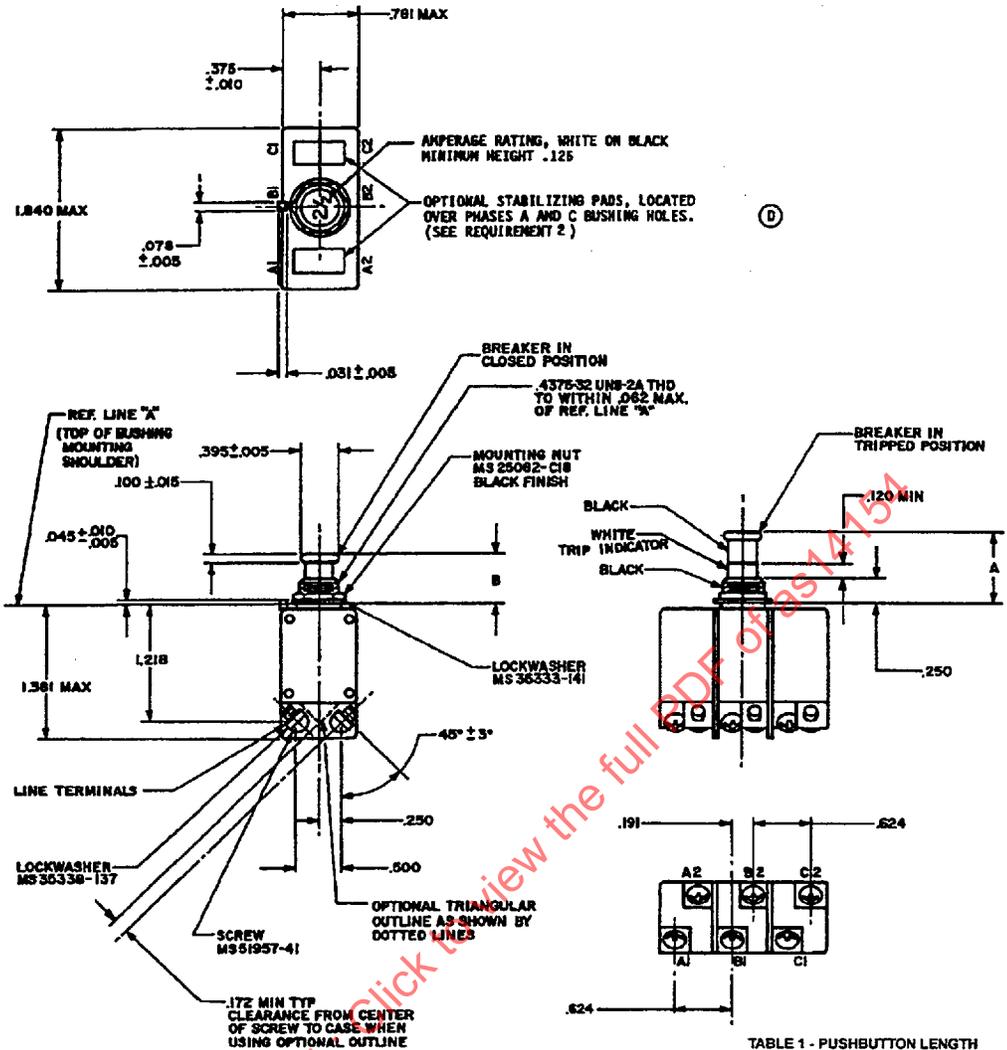


TABLE 1 - PUSHBUTTON LENGTH

PUSHBUTTON	A (MAX)	B (MIN)
STANDARD	.75	.470
EXTRA LENGTH	1.125	.845

FIGURE 1 - TRIP-FREE CIRCUIT BREAKER

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TABLE II ELECTRICAL AND MECHANICAL CHARACTERISTICS

DASH NUMBER	NOMINAL AMPERAGE RATING (A)	VOLT DROP MAX. (V)	WEIGHT MAX. (LBS)	OPERATING FORCE MAX. (LBS)		ENDURANCE CYCLES				MECH. NO. LOAD
				PULLOUT	RESET	RESISTIVE		INDUCTIVE		
1	1	1.10	.15	12	12	5000 1/	none	2500 1/	none	5000
2	2	.75								
2-1/2	2-1/2	.70								
3	3	.65								
4	4	.45								
5	5	.35								
7-1/2	7-1/2	.30								
10	10	.28								
15	15	.28								
20	20	.25								

1/400 HZ 115/200 VOLT SYSTEM, TESTED AT 120 ± 5 VOLTS 380-400 HZ

TABLE III DETAIL CALIBRATION REQUIREMENTS

NOMINAL AMPERAGE RATING (A)	+25°C					-55°C					+71°C										
	% RATED CURRENT					% RATED CURRENT					% RATED CURRENT										
	110	145	200	500	1000	110	165	200	500	1000	100	145	200	500	1000						
-1	MUST HOLD - 1 HOUR MIN.	MUST TRIP - 1 HOUR MAX.	↑	↑	↑	MUST HOLD - 1 HOUR MIN.	MUST TRIP - 1 HOUR MAX.	↑	↑	↑	MUST HOLD - 1 HOUR MIN.	MUST TRIP - 1 HOUR MAX.	↑	↑	↑						
-2																					
-2 1/2																					
-3					4			0.4	0.10					0.55	0.15				3	0.33	0.08
-4					T0			T0	T0					T0	T0	T0			T0	T0	T0
-5					20			2.0	0.53					40	3.5	0.80			20	1.7	.040
-7 1/2					↓			↓	↓					↓	↓	↓			↓	↓	↓
-10					↓			↓	↓					↓	↓	↓			↓	↓	↓
-15			2/	2/	↓			↓	↓					↓	↓	↓			↓	↓	↓
-20			3/	3/	4/			4/	4/	3/			3/	4/	4/	4/	3/	3/	4/	4/	4/

- 2/ ONE PHASE AT SPECIFIED LOAD AND OTHER PHASES CARRYING RATED LOAD.
- 3/ BALANCED THREE PHASE LOAD
- 4/ SINGLE PHASE LOAD ONLY. TRIP TIME IN SECONDS.