

RATIONALE

REVISION IS REQUIRED TO IMPROVE DRAWING QUALITY AND CLARIFY OPTIONAL DESIGNS, TO REMOVE IMAGES AND REPLACE WITH WORD TEXT/TABLES, TO UPDATE SUPERSEDED COMPONENT REFERENCES, TO REMOVE GOVERNMENT JARGON, AND TO UPDATE DOCUMENT TO MOST CURRENT SAE GUIDELINES.

AS14154C HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS58091.

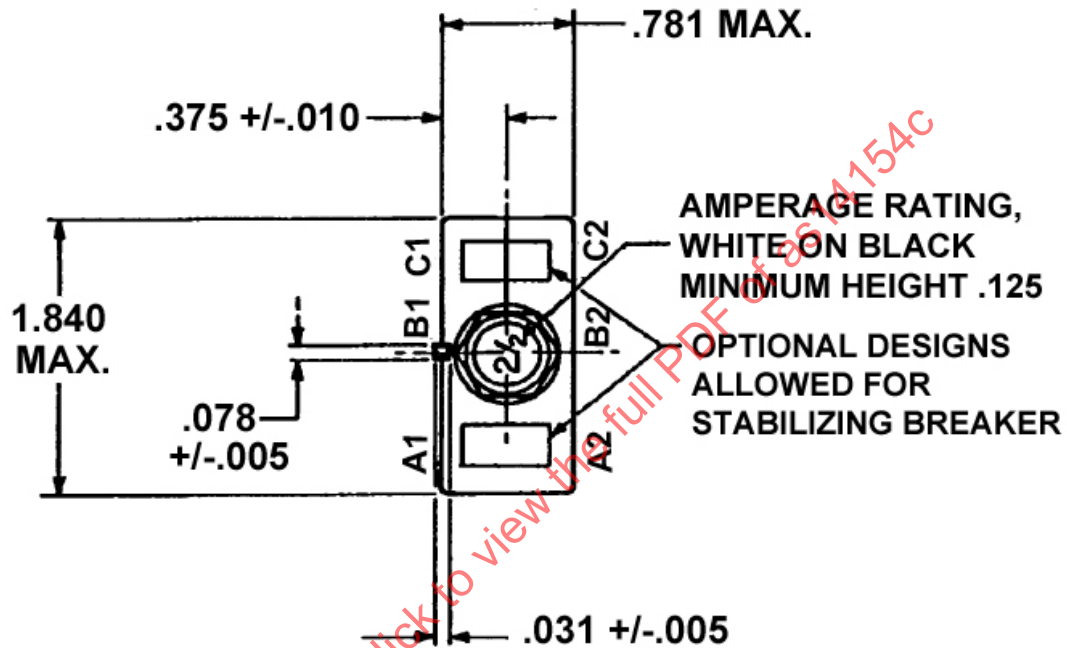
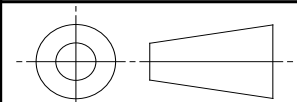


FIGURE 1 - TRIP-FREE CIRCUIT BREAKER

For more information on this standard, visit
<https://www.sae.org/standards/content/AS14154C/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8B1

PROCUREMENT SPECIFICATION: AS58091



AEROSPACE STANDARD

(R) CIRCUIT BREAKER - AIRCRAFT,
TRIP FREE, PUSH PULL,
1 THRU 20 AMP, TYPE 1

AS14154™
SHEET 1 OF 4

REV. C

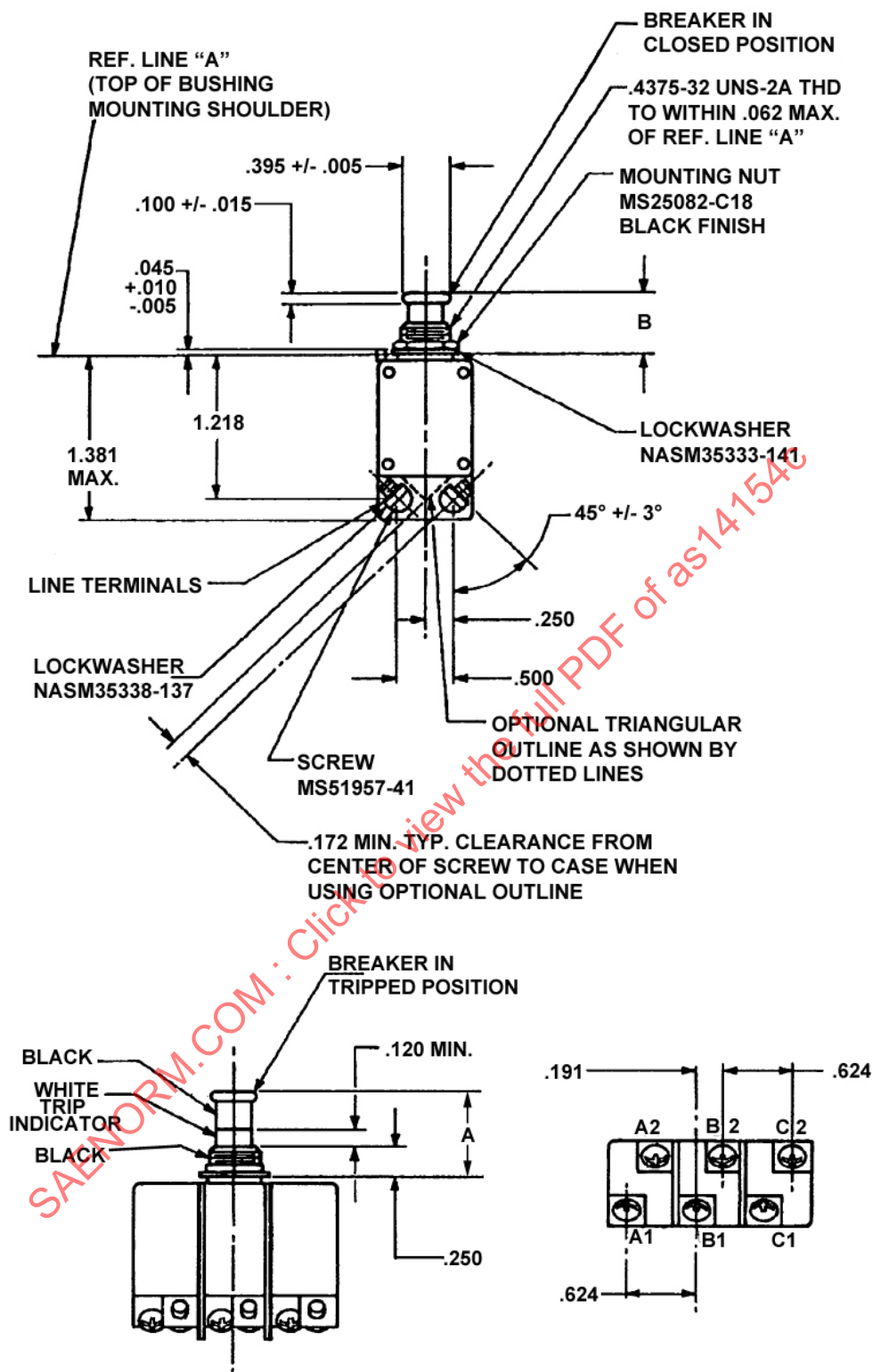


FIGURE 1 - TRIP-FREE CIRCUIT BREAKER (CONTINUED)

	AEROSPACE STANDARD	AS14154™ SHEET 2 OF 4	REV. C
	CIRCUIT BREAKER - AIRCRAFT, TRIP FREE, PUSH PULL, 1 THRU 20 AMP. TYPE 1		

TABLE 1 - PUSHBUTTON LENGTH

PUSHBUTTON	A MAXIMUM	B MINIMUM
STANDARD	.75	.470
EXTRA LENGTH	1.125	.845

TABLE 2 - ELECTRICAL AND MECHANICAL CHARACTERISTICS

DASH NUMBER	NOMINAL AMPERAGE RATING (A)	VOLT DROP MAX (V)	WEIGHT MAX (LB)	OPERATING FORCE MAX (LB)		ENDURANCE CYCLES				MECH. NO. LOAD
						RESISTIVE		INDUCTIVE		
				PULLOUT	RESET	AC	DC	AC	DC	
1	1	1.10	.15	18	12	5000 <u>1</u> /	NONE	2500 <u>1</u> /	NONE	5000
2	2	.75	.15	18	12					
2½	2-1/2	.70	.15	18	12					
3	3	.55	.15	18	12					
4	4	.45	.15	18	12					
5	5	.35	.15	18	12					
7½	7-1/2	.30	.15	18	12					
10	10	.28	.15	18	12					
15	15	.28	.15	18	12					
20	20	.25	.15	18	12					

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

TABLE 3 - 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. 2/	MUST TRIP 1 HOUR MAX. 2/	4 TO 20 3/	.4 TO 2.0 3/	.10 TO .53 3/	MUST HOLD 1 HOUR MIN. 2/	MUST TRIP 1 HOUR MAX. 2/	6 TO 40 3/	.55 TO 3.5 3/	.15 TO 60 3/	MUST HOLD 1 HOUR MIN. 2/	MUST TRIP 1 HOUR MAX. 2/	3 TO 20 3/	.33 TO 1.7 3/	.06 TO .40 3/
-2															
-2½															
-3															
-4															
-5															
-7½															
-10															
-15															
-20															

1/ ONE PHASE AT SPECIFIED LOAD AND OTHER PHASES CARRYING RATED LOAD.

2/ BALANCED THREE PHASE LOAD.

3/ SINGLE PHASE LOAD ONLY. TRIP TIME IN SECONDS.

TABLE 4 - INTERRUPTING CAPACITY REQUIREMENTS - AMPERES

NOMINAL AMPERAGE RATING (A)	TEST DESIGNATION PER AS58091											
	A		B		C	D	E	F	G		H	
	10	30	10	30					10	30	10	30
-1	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	2000	1200	2000	1200
-2												
-2½												
-3												
-4												
-5												
-7½												
-10												
-15												
-20												

* NOT APPLICABLE.