

**REV.  
C**

**AS14154™**

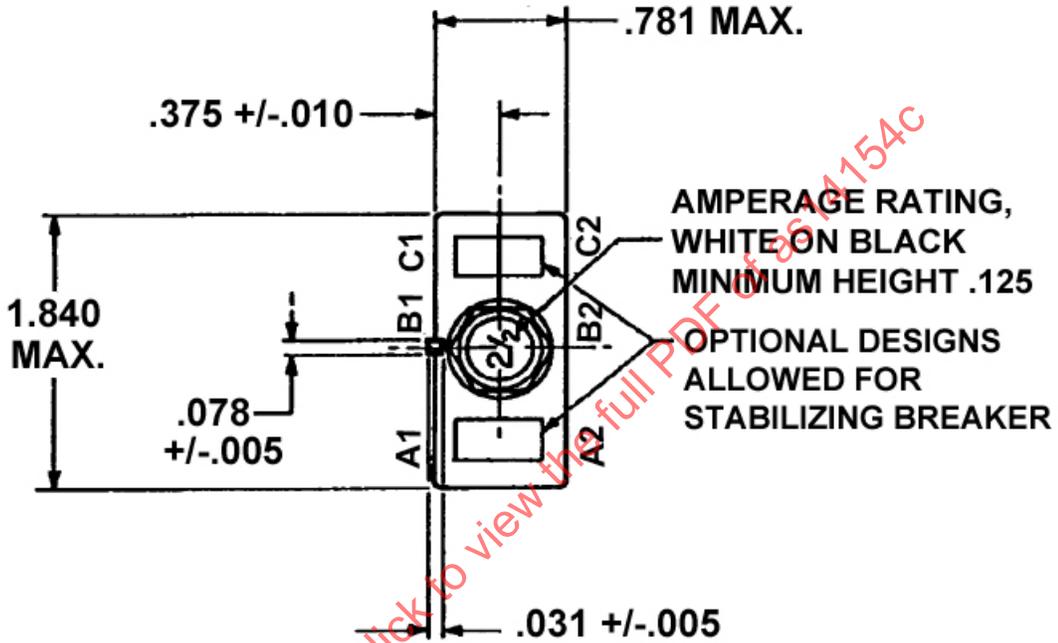
**RATIONALE**

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TO IMPROVE DRAWING QUALITY AND CLARIFY OPTIONAL DESIGNS, TO REMOVE IMAGES AND REPLACE WITH WORD TEXT/TABLES, TO UPDATE SUPERSEDED COMPONENT REFERENCES, TO REMOVE GOVERNMENT JARGON, AND TO UPDATE DOCUMENT TO MOST CURRENT SAE GUIDELINES.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

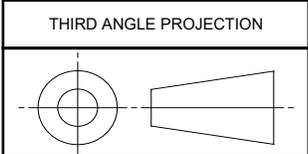
**NOTICE**

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/>



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

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ISSUED 1997-08 REVISED 2016-07 REAFFIRMED 2023-03

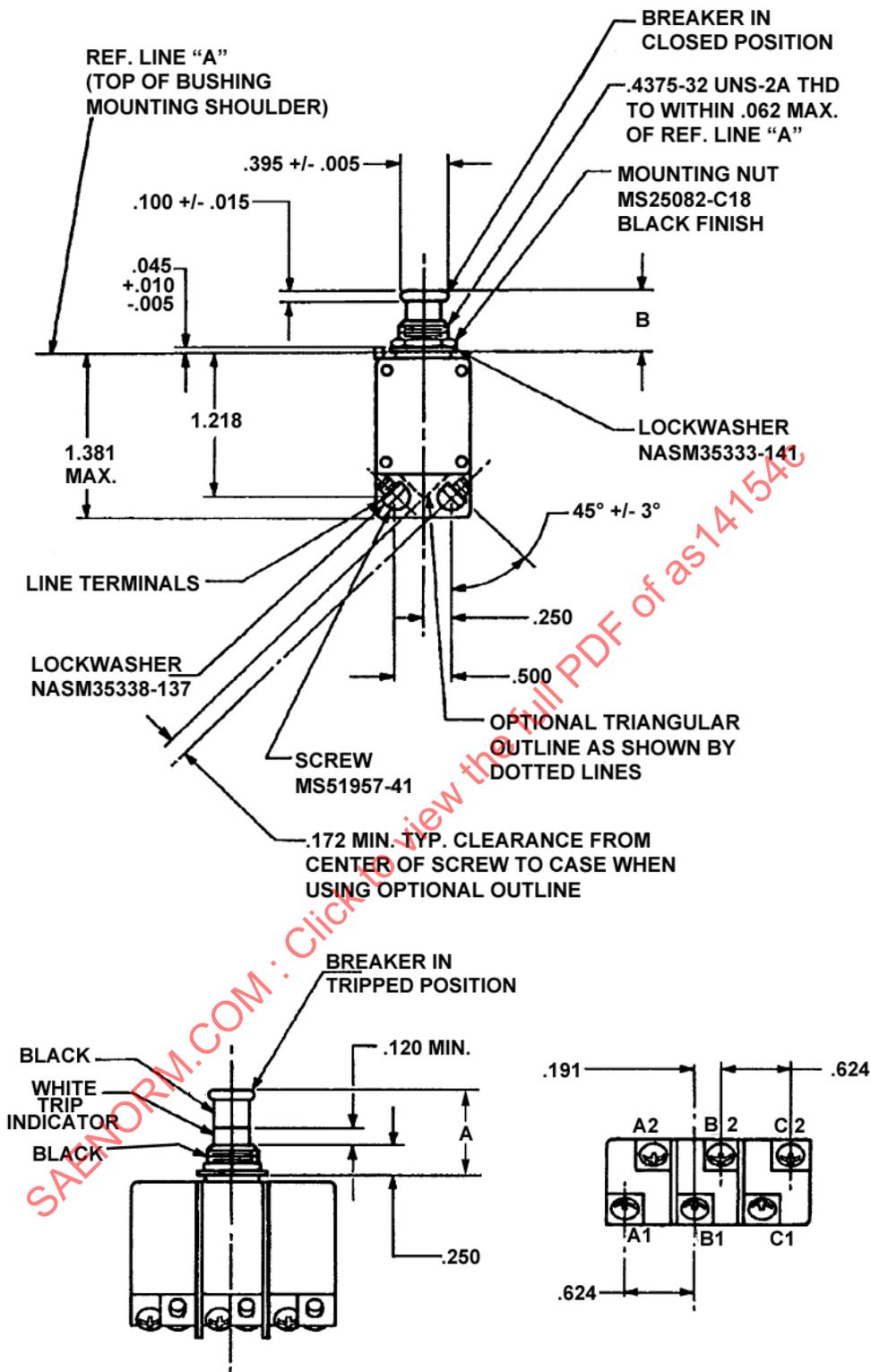


FIGURE 1 - TRIP-FREE CIRCUIT BREAKER (CONTINUED)

	<b>AEROSPACE STANDARD</b>	<b>AS14154™</b> SHEET 2 OF 4	<b>REV.</b> <b>C</b>
	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
				PULLOUT	RESET	RESISTIVE		INDUCTIVE		
						AC	DC	AC	DC	
1	1	1.10	.15	18	12	5000 <sup>1/</sup>	NONE	2500 <sup>1/</sup>	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					

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

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

<sup>2/</sup> BALANCED THREE PHASE LOAD.

<sup>3/</sup> 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.