FEDERAL SUPPLY CLASS
5925

RATIONALE

LIMIT SCOPE REVISION REQUIRED TO INCORPORATE AS26574-A1 AND UPDATE REFERENCES.

AS26574A HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

NOTICE

THE REQUIREMENTS FOR ACQUIRING THE COMPONENTS DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF AS58091

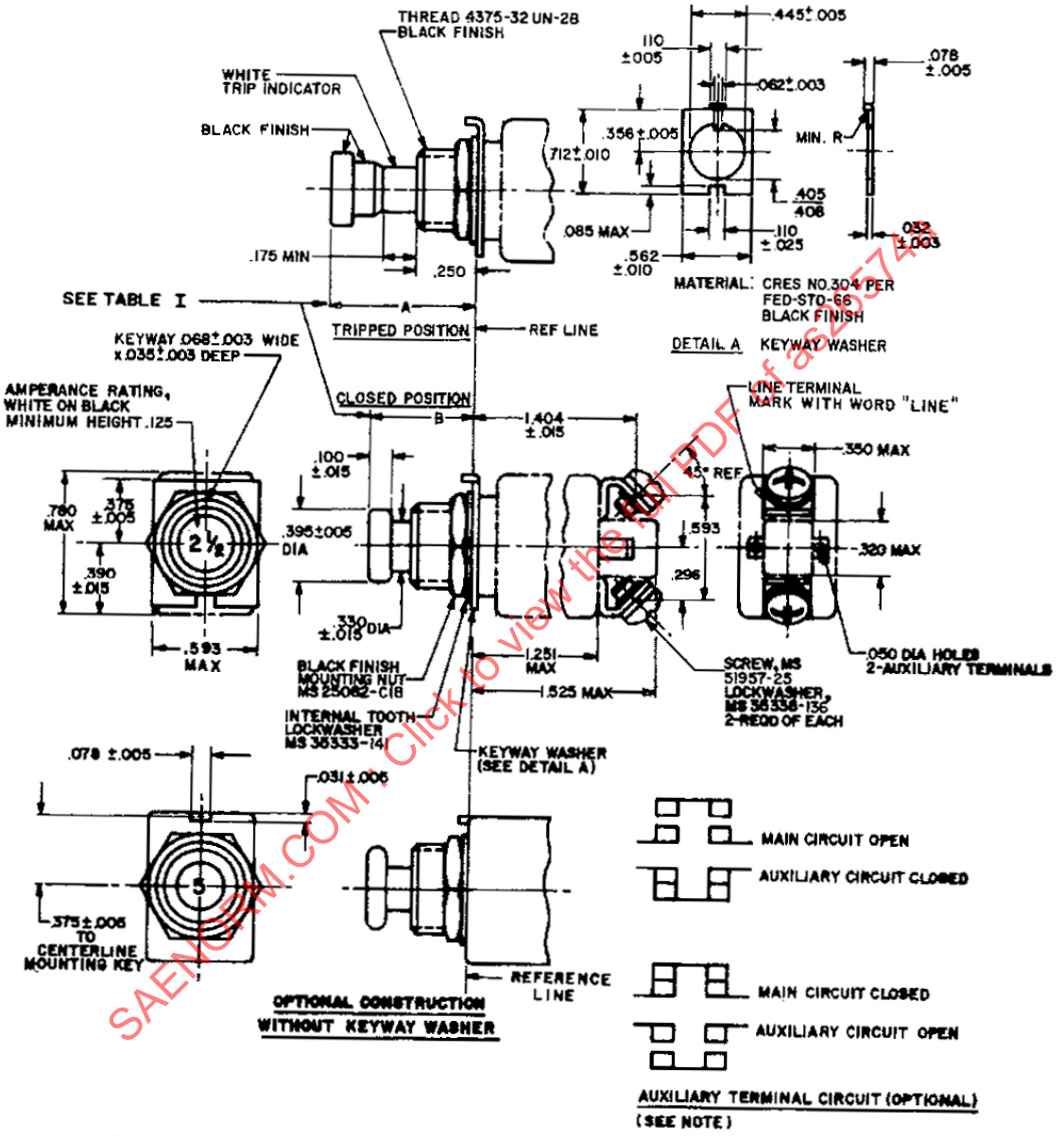

FIGURE 1 – CIRCUIT BREAKER CONFIGURATION

For more information on this standard, visit
https://www.sae.org/standards/content/AS26574A/

THIRD ANGLE PROJECTION

ISSUED 2004-06 REVISED 2011-03 REAFFIRMED 2023-03

CUSTODIAN: AE-8B1

PROCUREMENT SPECIFICATION: AS58091

SAE INTERNATIONAL

AEROSPACE STANDARD

CIRCUIT BREAKER,
TRIP FREE, PUSH PULL,
1/2 THRU 20 AMP, TYPE I

TABLE 1- PUSHBUTTON DIMENSIONS

PUSHBUTTON	A (MAX)	B (MIN)
STANDARD EXTRA LENGTH	.759 1.134	.407 .782

NOTES:

1. DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED; TOLERANCE: DECIMALS ± .031; AND ANGLES ±2 DEGREES. THE NOTCH, AS DEFINED BY 0.110 +/- 0.025 BY .085 MAX DIMENSIONS, IS OPTIONAL ON THE KEYWAY WASHER.

2. PHANTOM LINES INDICATE THAT CONTOUR IS OPTIONAL PROVIDED MAXIMUM DIMENSIONS ARE NOT EXCEEDED.

3. VOLTAGE RATING 28 VDC NOMINAL OR 115V 400 HZ NOMINAL.

TABLE 2 – ELECTRICAL AND MECHCANICAL CHARACTERISTICS

ELECTRICAL AND MECHANICAL CHARACTERISTICS											
DASH NUMBER	NOMINAL CAPACITY AMPERES	VOLTAGE DROP MAX (V)	WEIGHT MAX (LBS)	OPERATING FORCE MAX (LBS)		ENDURANCE CYCLES (MAIN)				MECH NO LOAD
				PULLOUT	RESET	RESISTIVE AC	RESISTIVE DC	INDUCTIVE AC	INDUCTIVE DC	
1/2	0.5 (1/2)	2.0	.066	5	5	1/ 5,000	2/ 5,000	1/ 2,500 .6 TO .7 LAGGING POWER FACTOR	2/ 2,500	5,000
3/4	0.75 (3/4)	1.45								
1	1	1.1								
1-1/2	1.5 (1-1/2)	.75								
2	2	.75								
2 – 1/2	2.5 (2-1/2)	.70								
3	3	.55								
4	4	.45								
5	5	.35								
7-1/2	7.5 (7-1/2)	.30								
10	10	.28								
15	15	.25								
20	20	.25								
ENDURANCE CYCLES (AUXILIARY CIRCUIT)						1/ 5,000 WITH 3 AMP LOAD	2/ 5,000 WITH 5 AMP LOAD	1/ 5,000 WITH 2 AMP .6 TO .7	2/ 5,000 WITH 3 AMP LOAD	

1/ 400 CYCLE 115/200 VOLT SYSTEM, TESTED AT 120 ± 5 VOLTS 380-420 HZ.
2/ 28 VOLTS DC SYSTEM, TESTED AT 30 ± 2 VOLTS.

TABLE 3 – CALIBRATION REQUIREMENTS

DETAIL CALIBRATION REQUIREMENTS – TRIP TIME IN SECONDS									
NOMINAL CAPACITY AMPERES	+25˚C 1/					-55˚C 1/		+71˚C 1/	
	PERCENT RATED CURRENT					PERCENT RATED CURRENT		PERCENT RATED CURRENT	
	115	150	200	500	1000	135	180	90	130
0.5 (1/2)	MUST HOLD – 1 HOUR MIN	MUST TRIP – 1 HOUR MAX	2 TO 20	.16 TO 1.2	.046 TO 0.8	MUST HOLD – 1 HOUR MIN	MUST TRIP – 1 HOUR MAX	MUST HOLD – 1 HOUR MIN	MUST TRIP – 1 HOUR MAX
0.75 (3/4)									
1									
1.5 (1-1/2)									
2									
2.5 (2-1/2)									
3									
4									
5									
7.5 (7-1/2)									
10									
15									
20									

1/ AMBIENT TEMPERATURE TOLERANCE ±2˚C.

TABLE 3 (CONTINUED) – CALIBRATION REQUIREMENTS

NOMINAL CAPACITY AMPERES	INTERRUPTING CURRENT (AMPERES) REQUIREMENTS TEST DESIGNATION PER AS58091					
	A	B	C	D	E	F
0.5 (1/2)	UNLIMITED	UNLIMITED	UNLIMITED	UNLIMITED	(a) 2,000 (b) 1,000 (c) 750	(a) 3,000 (b) 1,500 (c) 1,000
0.75 (3/4)						
1						
1.5 (1-1/2)						
2	800	800			(a) 500 (b) 300 (c) 50	
2.5 (2-1/2)						
3						
4						
5						
7.5 (7-1/2)	500	500	2,000	2,000	(a) 300 (b) 50	(a) 1,500 (b) 1,000 (c) 500
10						
15						
20						