



KLIXON® | 7274 & 7277 SERIES

½ to 20 Amp, Single-Phase Aircraft Circuit Breakers

FEATURES

- 30VDC or 120VAC, ½ to 20 Amps
- High vibration resistance and interrupt capacity
- Non-ambient temperature compensated
- MIL-C-5809 qualified

ADDITIONAL OPTIONS*

- Longer push buttons
- Dust boot
- Auxiliary switch, waterproof panel seal

DESCRIPTION

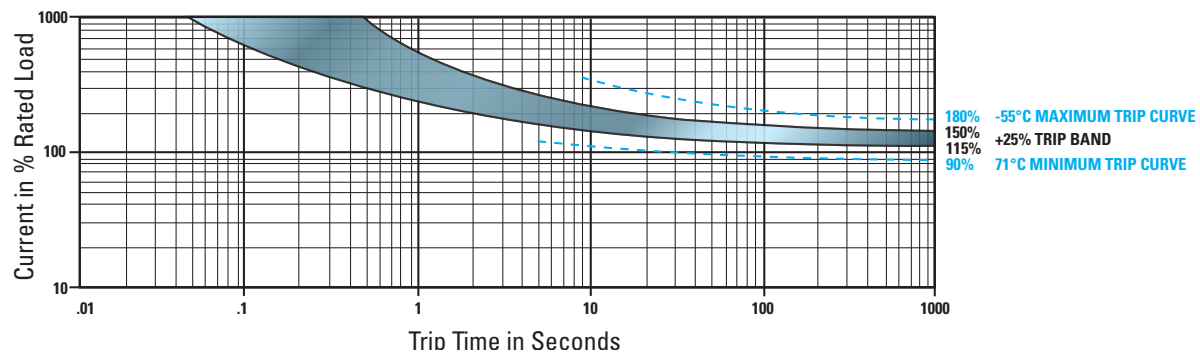
The Klixon® 7274 & 7277 series are small, lightweight, low amperage devices that are specifically designed to protect aircraft / aerospace cable and components in airborne vehicles and equipment. The 7274/7277 series are small, light weight, low amperage devices that are specically designed to protect aircraft / aerospace cable such as at ribbon, fused multi-conductor tape and printed circuit conductors now being used in lighter weight power distribution systems and components in airborne vehicles and equipment. The 7274 series features a tripfree indicating-type reset button. Also, a “wiping action” contact design assures low voltage drop, faster trip time and high reliability in low voltage applications. They are available in standard ratings from 0.5 to 20 amps.

PERFORMANCE CHARACTERISTICS	
Calibration : 200% rated current, 77°F (25°C)	0.5A to 20A for 2 to 35 seconds
Ultimate Trip at 77°F (25°C)	Must hold : 110% Must trip : 150%
Endurance	2,500 cycles: 120 VAC, 400 Hz inductive 5,000 cycles: 120 VAC, 400 Hz resistive 2,500 cycles: 30 VDC inductive 5,000 cycles: 30 VDC resistive 10,000 cycles: Mechanical, no load
Interrupt Current Capacity	½ to 5 amps: unlimited at 28 VDC 7½ to 15 amps: 2,000 amps at 28 VDC ½ to 1½ amps: unlimited at 120 VAC, 400 Hz 2 to 5 amps: 800 amps at 120 VAC, 400 Hz 7½ to 20 amps: 500 amps at 120 VAC, 400 Hz
Vibration Resistance**	10G minimum, 50 - 500 Hz
Mechanical Shock Resistance	35G
Insulation Resistance	100 MΩ min
Acceleration	10G
Weight	7274 & 7277 - 33 gm max

ORDERING INFORMATION	
Sensata PN	Qualifications PN
7274-2-XX	MS26574-XX
7274-4-XX	MS26574-XXA
7274-11-XX	MS22073-XX
7274-69-XX	MS22073-XXV
7274-70-XX	MS26574-XXL
7271-1-XX	others same format available amp ratings 1/2, 3/4, 1, 1 1/2, 2, 2 1/2, 3, 4, 5, 7 1/2, 10, 15, 20. Not mil approved on 15 and 20

** Other vibration levels available, contact factory for details

TRIP CURVE - Approximate Time, Current Characteristics at 77°F (25°C)



MAX VOLTAGE DROP @ NOMINAL RATED CURRENT			
Part Number	***Max Voltage Drop	Part Number	***Max Voltage Drop
7274-XX-1/2	2.00	7274-XX-4	0.45
7274-XX-3/4	1.45	7274-XX-5	0.35
7274-XX-1	1.10	7274-XX-7	0.30
7274-XX-1 1/2	0.75	7274-XX-10	0.28
7274-XX-2	0.75	7274-XX-15	0.25
7274-XX-2 1/2	0.70	7274-XX-20	0.25
7274-XX-3	0.55		

CALIBRATION : 1 TO 35 AMPS					
TEMP °C	MIN ULT TRIP	MAX ULT TRIP	Trip Time in Seconds		
			200%	500%	1000%
+25	115%	150%	2 to 20	.16 to 1.2	.046 to .8
-55	135%	180%	—	—	—
+71	90%	130%	—	—	—

*** Maximum voltage drop at 100%, nominal rated current

DIMENSIONAL DRAWINGS - 7274-4

