## **S87 Direct Spark Ignition Modules**

Ignition System Type: Direct Spark Ignition Typical Gas Control: VR8205, VR8305 Type of Gas: Natural or LP Ignition Source: Internal high voltage spark generator

Ignition Trials To Lockout: 1

Approximate, Dimensions: 5 1/4 in. high x 4 1/16 in. wide x 1 15/16 in. long (133 mm high x 103 mm wide x 49 mm deep)

## Ignition Modules provide electronic control of direct spark ignition systems used on gas fire furnaces, boilers, and other heating appliances.

- Control ignition sequence and gas control operation.
- Generate high voltage potential for main burner ignition.
- Lockout after one trial for ignition if main burner fails to ignite.
- Reset from thermostat after lockout.
- Use modules (except S87C) with any combination gas control designed for direct spark applications and rated 2.0A or less.

Electrical Ratings: 24 Vac Frequency: 60 Hz Ambient Temperature Range: -40°F to +175°F (-40°C to +79°C) Approvals, CSA: File 112491\_0\_000 Flame Failure Response Time (sec): 0.8 sec. @ 5.0 microamp Flame Failure Re-ignition Time (sec): 0.8 sec. maximum

Material Number	Flame Sense	Ignition Sequence	Ignition Trial Time (sec)	Lockout Timing	Typical Ignition Hardware	Maximum Valve Load @ 24 Vac (Amps)	Typical Ignition Hardware	PrePurge	Includes
S87B1008/U	Single Rod	Single trial for main burner ignition (then shut down and lockout)	6 sec.	6 sec.	Q347A	2A	Q347A	None	Alarm terminal
S87B1016/U	Single Rod	Single trial for main burner ignition (then shut down and lockout)	11 sec.	11 sec.	Q347A	2A	Q347A	None	Alarm terminal
S87B1024/U	Single Rod	Single trial for main burner ignition (then shut down and lockout)	21 sec.	21 sec.	Q347A	2A	Q347A	None	Alarm terminal
S87B1065/U	Single Rod	Single trial for main burner ignition (then shut down and lockout)	4 sec.	4 sec.	Q347A	2A	Q347A	None	Alarm terminal
S87C1006/U	Two Rod	Single trial for main burner ignition (then shut down and lockout)	6 sec.	6 sec.	Q347A, Q354, Q366		Q347A, Q354, Q366	None	
S87C1030/U	Two Rod	Single trial for main burner ignition (then shut down and lockout)	21 sec.	21 sec.	Q347A, Q354, Q366		Q347A, Q354, Q366	None	
S87D1004/U	Two Rod	Single trial for main burner ignition (then shut down and lockout)	6 sec.	6 sec.	Q347A, Q354, Q366	2A	Q347A, Q354, Q366	None	Alarm terminal
S87D1012/U	Two Rod	Single trial for main burner ignition (then shut down and lockout)	11 sec.	11 sec.	Q347A, Q354, Q366	2A	Q347A, Q354, Q366	None	Alarm terminal
S87D1020/U	Two Rod	Single trial for main burner ignition (then shut down and lockout)	4 sec.	4 sec.	Q347A, Q354, Q366	2A	Q347A, Q354, Q366	None	Alarm terminal
S87D1038/U	Two Rod	Single trial for main burner ignition (then shut down and lockout)	21 sec.	21 sec.	Q347A, Q354, Q366	2A	Q347A, Q354, Q366	None	Alarm terminal
S87J1026/U	Single Rod	Single trial for main burner ignition (then shut down and lockout)	11 sec.	11 sec.	Q347A	2A	Q347A	30 sec. minimum	
S87J1034/U	Single Rod	Single trial for main burner ignition (then shut down and lockout)	21 sec.	21 sec.	Q347A	2A	Q347A	30 sec. minimum	
S87K1008/U	Two Rod	Multiple trials for main burner ignition (then shut down and lockout)	4 sec.	4 sec.	Q347A, Q354, Q366	2A	Q347A, Q354, Q366	30 sec. minimum	