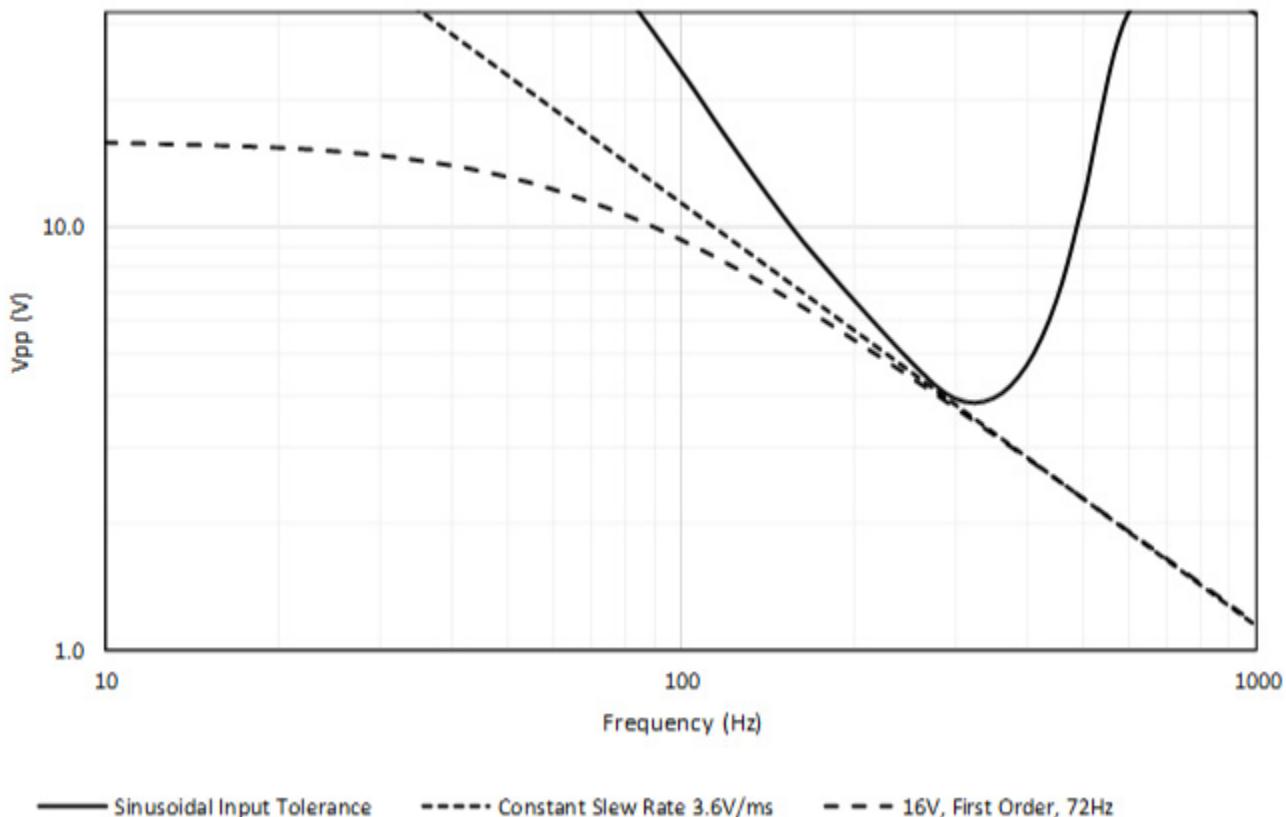


- (1) SIL 3 is the maximum achievable SIL for a single channel. Selected CPU, input and output voting configurations could increase or decrease the SIL achieved.
- (2) The input slew may exceed the specified levels providing the duration of the transgression is less than the process safety time of the configured module.

**Figure 30 - Digital Input Slew Tolerance**



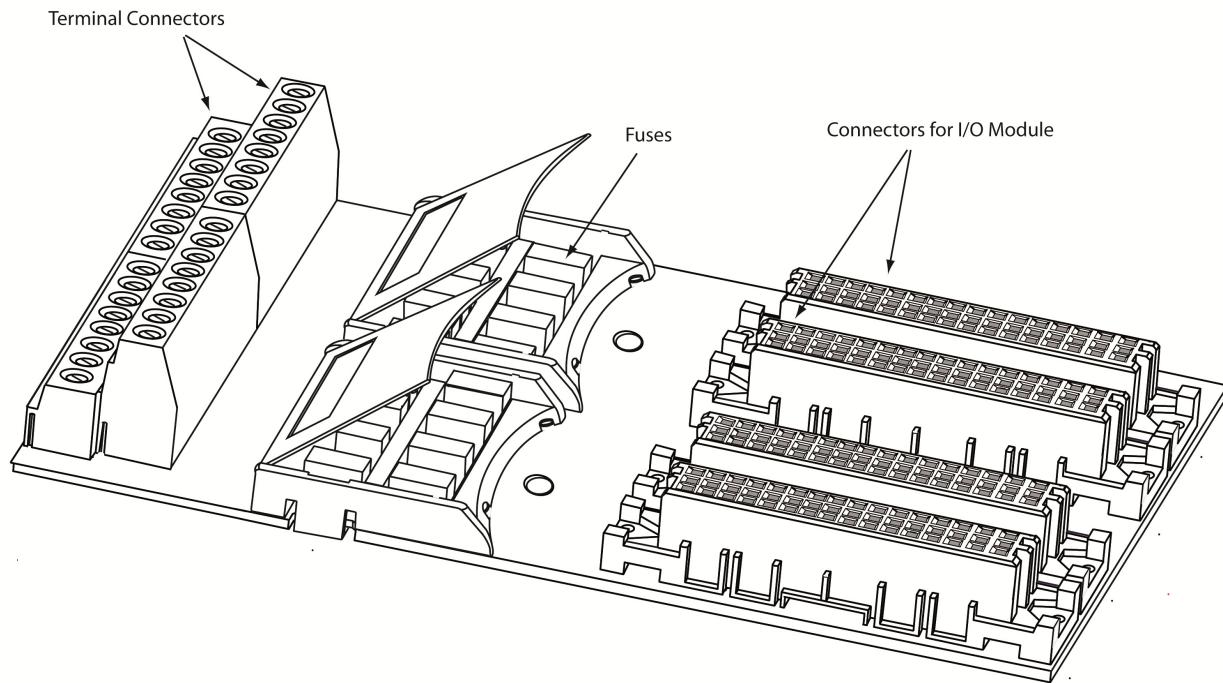
## **T9801/2/3 Termination Assemblies for Digital Inputs**

There are three termination assemblies for use with digital input modules that supply simplex, dual and triple modular redundant configurations.

A T9801 termination assembly is for a simplex application and has terminations for 16 non-isolated digital inputs, it has connections for one T9401 or T9402 digital input module. The T9802 and T9803 termination assemblies support 16 isolated digital inputs for dual and triple modular redundant arrangements of digital input modules.

Illustrated is the T9802 dual termination assembly.

Figure 31 - Digital/Analogue Input Termination assembly



A replaceable fuse protects each channel from field faults. Fuses can be replaced without removing a module or the termination assembly.

### T9801/2/3 Digital Input Termination Assembly

A T9801 termination assembly is for a simplex configuration and has terminations for 16 non-isolated digital inputs. The T9802 and T9803 termination assemblies support 16 isolated digital inputs for dual and triple modular redundant arrangements of digital input modules.

Table 28 - T9801/2/3 Digital Input TA Characteristics

Attribute	Value
<b>Functional Characteristics</b>	
Field Connections	16; wiring: Conductor cross section maximum $1.31 \text{ mm}^2$ (16 AWG); Stripping length 6 mm ( $\frac{1}{4}$ in.)
Input modules supported	
T9801	One T9401/2
T9802	Two T9401/2
T9803	Three T9401/2
<b>Electrical Characteristics</b>	
Input channel fuses	50 mA, 125 V, Type T manufactured by Littelfuse
Channel load	$(5.125 \pm 0.2\%) \text{ k}\Omega$
Input measurement voltage resolution	5 mV, 13 bit
Channel isolation T9801 T9802, T9803:	None $\pm 1.5 \text{ kVdc}$ maximum withstanding for 1 minute
Maximum field loop power dissipation	0.2 W for each field loop (0.68 BTU/hr)