



TECHNICAL INFORMATION

TITLE: USING FPL ZERO-SEQUENCE SENSORS WITH THE SE-701

Toroidal (Type T) zero-sequence sensors manufactured by Federal Pioneer Ltd. can be used with the Startco SE-701 Ground-Fault Monitor. When using a FPL sensor, the CT-primary rating is 50 A. The SE-701 set-point range is 1 to 99% in 1% increments, which corresponds to 0.5 to 49.5 A in 0.5-A steps.

Table I lists compatible FPL sensors and window sizes. These sensors can be used on resistance-grounded systems and on solidly grounded systems where the maximum ground-fault current is less than 50 kA.

If the ground-fault current can exceed 400 A, a voltage-clamping device must be used as shown in Fig. 1. An SE-EFVC is recommended for these applications.

FPL CATALOG NUMBER	WINDOW SIZE	
	INCHES	MM
T2A	1-7/8	48
T3A	2-3/4	70
T6A/T6A-S	5-3/4	146
T9A	8-3/4	222

TABLE I

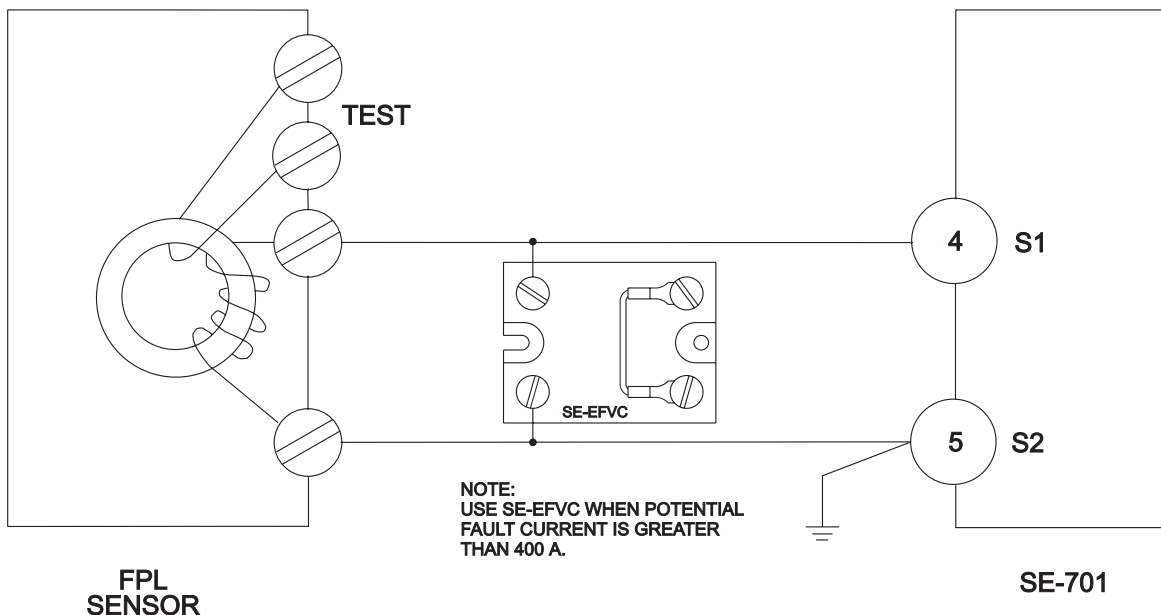


FIGURE 1. CONNECTION DIAGRAM

DATE	REV	AUTHOR	DOCUMENT LOCATION	PAGE
2003-Oct-08	0	MS	http://www.startco.ca/library/techinfo/section10/10.6.pdf	1 of 1