PROSAFE-RS SPW48X

Product Data Sheet

SPW481-13 S1

AC Input Power Module

AC INPUT SELECTION	LOGIC OUTPUT RAIL	FIELD OUTPUT RAIL	HOST POWER REDUNDANCY
100 to 120 V AC	**5 V DC, insulated**	**24 V DC, insulated**	**2 modules**

Yokogawa SPW481-13 S1 is the 100 to 120 V AC input power module in the ProSafe-RS SPW48x family. It supplies insulated +5 V and +24 V power to the installed I/O through the host backboard. The safety control, safety node and optical repeater-unit configurations use a pair of power modules to maintain the documented redundant supply arrangement.

01 TECHNICAL DATA

AC input selection	100 to 120 V AC
Logic output rail	5 V DC, insulated
Field output rail	24 V DC, insulated
Host power redundancy	2 modules
SYS indication	5 V output normal
FLD indication	24 V output normal
Fixing-screw torque guideline	Approximately 0.5 Nm
Preventive replacement reference	8 years at average ambient <=40 C

Yokogawa IM 32Q06C10-31E, fourth edition; SPW481 supply configuration, output rails and replacement procedure.

02 ADDITIONAL PRODUCT DATA

The module provides separate SYS and FLD indications for the +5 V and +24 V outputs, with maintenance check terminals for those rails. Its AC input has line, neutral and protective-ground connections. The hardware manual requires the affected incoming supply to be switched off and the power indication to be extinguished before removal; this is distinct from merely removing one redundant module while it remains energized.

03 PRODUCT FUNCTION

Use SPW481-13 S1 in the applicable ProSafe-RS host and confirm the 100 to 120 V AC incoming feed before connection. SPW481, SPW482 and SPW484 have different input selections; the host output rails do not make the input variants interchangeable.

04 SYSTEM COMPATIBILITY

The two insulated output rails feed the host backboard, where the pair supports the redundant power arrangement. Check SYS for the +5 V rail and FLD for the +24 V rail; the check terminals support voltage verification during the documented maintenance procedure.

05 REFERENCE

Yokogawa IM 32Q06C10-31E, fourth edition; SPW481 supply configuration, output rails and replacement procedure.

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