

Product Details and Certifications

Cross Reference RA Part Number: 1746-OW4 A

 **Product: 1746-OW4**

Description: 1746 SLC System, 4 Ch-Relay Output Module for Programmable Controller



Representative Photo Only (actual product may vary based on configuration sections)

I/O MODULES AND HARDWARE

Bulletin Number	1746 SLC 500 I/O Module
Number of Outputs	4
Points per Common	4
Voltage Category	AC/DC Relay
Operating Voltage Range	5...125V DC, 5...265V AC
Backplane Current (mA) @ 5V	45 mA
Backplane Current (mA) @ 24V	45 mA
Load Current, Min	10 mA @ 5V DC
Leakage Current, Off-State Output, Max	0 mA

(6) Surge current = 35 A per common for 10 ms.

Relay Output Modules



Specifications	1746-OW4	1746-OW8 ⁽²⁾	1746-OW16 ⁽²⁾	1746-0X8 ⁽²⁾
Number of outputs	4	8	16	8
Points per common	4	4	8	Individually isolated
Voltage category	AC/DC Relay			
Operating voltage range	5...125V DC 5...265V AC			
Backplane current (mA) @ 5V	45 mA	85 mA	170 mA	85 mA
Backplane current (mA) @ 24V	45 mA	90 mA	180 mA	90 mA
Load current, min	10 mA @ 5V DC			
Leakage current, off-state output, max	0 mA	0 mA	0 mA	0 mA
Signal on delay, max (resistive load)	10 ms	10 ms	10 ms	10 ms
Signal off delay, max (resistive load)	10 ms	10 ms	10 ms	10 ms
Continuous current per point ⁽¹⁾	See relay contact ratings			
Continuous current per module	8.0 A AC 8.0 A/Common	16.0 A AC 8.0 A/Common		(3)

- (1) Recommended surge suppression: For triac outputs when switching 120V ac inductive loads, use Harris Metal-oxide Varistor, model number V220MA2A. Refer to the SLC 500 Modular Hardware Style User Manual, publication [1747-UM011](#) for more information on surge suppression.
- (2) Certified for Class 1 Div 2 Hazardous Locations by CSA.
- (3) Limit continuous current per module so that module power does not exceed 1440 VA.

Relay Contact Ratings



Catalog Number	Maximum Volts		Amperes ⁽¹⁾		Amperes ⁽³⁾ Continuous	Volt-Amperes	
			Make	Break		Make	Break
1746-OW4 1746-OW8 1746-OW16	AC	240V AC	7.5 A	0.75 A	2.5 A	1800 VA	180 VA
		120V AC	15 A	1.5 A			
	DC	125V DC	0.22 A ⁽²⁾		1.0 A	28 VA	
		24V DC	1.2 A ⁽²⁾		2.0 A		
1746-0X8	AC	240V AC	15 A	1.5 A	5.0 A	3600 VA	360 VA
		120V AC	30 A	3.0 A			
	DC	125V DC	0.22 A ⁽²⁾		1.0 A	28 VA	
		24V DC	1.2 A ⁽²⁾		2.0 A		

- (1) Connecting surge suppressors across your external load extends the life of SLC 500 relay contacts. For recommended surge suppression when switching ac inductive loads, consult the SLC 500 Modular Hardware Style User Manual, publication 1746-UM011. Recommended surge suppression for switching 24V dc inductive loads is 1N4004 diode reverse wired across the load.
- (2) For dc voltage applications, the make/break ampere rating for relay contacts can be determined by dividing the 28 VA by the applied dc voltage. For example, 28 VA/48V DC= 0.58 A for DC voltage applications less than 14V, the make/break ratings for relay contacts cannot exceed 2 A.
- (3) The continuous current per module must be limited so the module power does not exceed 1440 VA.