3.9 PDOA and YDOA Discrete Output Modules

The following hardware combinations are approved for use in hazardous locations:

- Mark VIe Discrete Output I/O pack **IS220PDOAH1A**
  with terminal board **IS200TRLYH2E**, **IS200TRLYH3E**, **IS200TRLYH1F**, or **IS200TRLYH2F**
- Mark VIe Discrete Output I/O pack **IS220PDOAH1B**
  with terminal board **IS200TRLYH2E**, **IS200TRLYH3E**, **IS200TRLYH1F**, **IS200TRLYH2F**, **IS200SRLYH1A**, **IS200SRLYH2A**, **IS400SRLYH1A**, **IS400SRLYH2A**, **IS40yWROBH1A**, **IS40yWROFH1A**, **IS40yWROGH1A** or **IS40yWROHH1A**
- Coated Mark VIe Discrete Output I/O pack **IS221PDOAH1B** with terminal board **IS201TRLYH2E**, **IS201TRLYH3E**, **IS201TRLYH1F**, or **IS201TRLYH2F**
- Mark VIeS Safety Discrete Output I/O pack **IS220YDOAS1A**
  with terminal board **IS200TRLYS1F**, **IS200TRLYS2F**, **IS400TRLYS1F**, or **IS400TRLYS2F**
- Mark VIeS Safety Discrete Output I/O pack **ISx2yYDOAS1B** (where x = 2 or 4 and y = 0 or 1)
  with terminal board **IS40yTRLYS1B**, **ISx0yTRLYS1F**, **ISx0yTRLYS2F**, **IS40yTRLYS1D**, **IS40ySRLYS2A**, **IS40yWROBH1A**, **IS40yWROFH1A**, **IS40yWROGH1A**, or **IS40yWROHH1A**

3.9.1 Electrical Ratings

PDOA and YDOA Electrical Ratings

Item	Min	Nominal	Max	Units
Power Supply				
Voltage	PDOAH1B / YDOAS1B: 22.5 PDOAH1A / YDOAS1A: 27.4	PDOAH1B / YDOAS1B: 24.0 / 28.0 PDOAH1A / YDOAS1A: 28.0	28.6	V dc
Current	—	—	0.71	A dc
Contact Outputs (TRLY_1F, 2F)				
Voltage	—	—	30	V dc
Current	—	—	5	A dc
Contact Outputs (TRLYH2E)				
Voltage	—	—	28	V dc
Current	—	—	7	A dc
Contact Outputs (TRLYH3E)				
Voltage	—	—	140	V dc
Current	—	—	2	A dc
Contact Outputs (TRLYS1D) – Resistive Load				
Voltage	—	24 / 125	—	V dc
Current	—	—	2.25 / 0.5	A dc
Total Current (JF1/JF2)	—	—	13.5	A dc
Contact Outputs (TRLYS1D) – Inductive Load				
Voltage	—	24 / 125	—	V dc
Current	—	—	1 / 0.5	A dc
Total Current (JF1/JF2)	—	—	13.5	A dc
Contact Outputs (TRLYS1B) – Resistive Load (Refer to following Derating Charts)				
Voltage	14	24	28	V dc
Current	—	—	8	A dc
Voltage	113	125	137	V dc
Current	—	—	0.6	A dc
Voltage	108	120	132	V dc
Current	—	—	6	A dc
Voltage	216	240	264	V dc
Current	—	—	3	A dc
Total Current (JF1/JF2)	—	—	13.5	A dc
Contact Outputs (TRLYS1B) – Inductive Load (Refer to following Derating Charts)				
Voltage	14	24	30	V dc
Current	—	—	1	A dc
Voltage	113	125	137	V dc
Current	—	—	0.2	A dc
Voltage	108	120	132	V dc
Current	—	—	3	A dc
Voltage	216	240	264	V dc
Current	—	—	1.5	A dc
Total Current (JF1/JF2)	—	—	13.5	A dc
Contact Outputs (SRLYH1A, SRLYH2A, & SRLYS2A)				
Voltage	—	24/48/125	—	V dc
Current	—	—	5/1.2/0.6	A dc
Voltage	—	120/240	—	V dc
Current	—	—	5	A dc

PDOA and YDOA Electrical Ratings (continued)

Wetting Voltage Connector	SRLY Contact Outputs Fused via Optional Daughter Board	Voltage	Max Current per Channel (Amps)	Total Current (Amps)
JF1/JF2	WROB, WROF, WROG	240 V ac	2.25	13.5
		120 V ac	2.25	
		125 V dc	0.6	
		48 V dc	1.2	
		24 V dc	2.25	
JG1		240/120/125/48/24	5	5
J1	WROHH1A	48 V dc	1.2	18
		24 V dc	2.25	
JG1		24/48 V dc	5	5