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

Appendix D Ambient Temperature Ratings

Note In the following tables, **y** = 0 or 1 for module part numbers.

Ambient Temperature Ratings

GE Part Number	Ambient Temperature Rating
IS200JPDLG1A	-30 to + 65 °C (-22 to +149 °F)
IS210BAPAH1A	
IS220PAICH1A	
IS220PAOCH1B	
IS220PCLAH1A	
IS220PCLAH1B	
IS220PDIAH1A	
IS220PDIIH1B	
IS220PDIOH1A	
IS220PDIOH1B	
IS220PDOAH1A	
IS220PHRAH1A	
IS220PHRAH1B	
IS220PPDAH1A	
IS220PPRAH1A	
IS220PPRAS1A	
IS220PPRAS1B	
IS220PPROH1A	
IS220PPROS1B	
IS220PRTDH1A	
IS220PRTDH1B	
IS220PSCAH1A	
IS220PSCAH1B	
IS220PSCHH1A	
IS220PSVOH1A	
IS220PSVOH1B	
IS220PTCCH1A	
IS220PTCCH1B	
IS220PTURH1A	
IS220PTURH1B	
IS220PVIBH1A	
IS220YAICS1A	
IS220YDIAS1A	
IS220YDOAS1A	
IS220YHRAS1A	
IS220YPROS1A	
IS220YSILS1A	
IS220YSILS1B	
IS220YTCCS1A	
IS220YTURS1A	
IS220YVIBS1A	
IS221PHRAH1B	