3.15 PSCA Serial Communications Module

The following I/O pack and terminal board combinations are approved for use in hazardous locations:

- Serial communication I/O pack **IS220PSCAH1A** or **IS220PSCAH1B** with accessory terminal board **IS200SSCAH1A** or **IS200SSCAH2A**
- Coated serial communication I/O pack **IS221PSCAH1B** with accessory terminal board **IS201SSCAH1A** or **IS201SSCAH2A**
- Serial communication I/O pack **IS42yPSCAH1B** with accessory terminal board **IS40ySSCAH1A** or **IS40ySSCAH2A** (where y = 0 or 1)

3.15.1 Electrical Ratings

Power Supply

Item	Min	Nominal	Max	Units
Voltage	PSCAH1B: 22.5 PSCAH1A: 27.4	PSCAH1B: 24.0 / 28.0 PSCAH1A: 28.0	28.6	V
Current	—	—	0.36	A

3.15.2 Field Wire Connections

For serial communication terminal boards (accessories) certified for HazLoc, refer to the table *Euro Style Box-type Terminal Blocks* for wire size and screw torques.

3.16 PSVO Servo Control Module

The following hardware combination is approved for use in hazardous locations:

- Servo control I/O pack **IS220PSVOH1A**
- Terminal board (accessory) **IS200TSVCH2A**
- Servo driver (accessory) **IS210WSVOH1A**

- Servo control I/O pack **IS220PSVOH1B**
- Terminal board (accessory) **IS200TSVCH2A**
- Servo driver (accessory) **IS410WSVOH1A**

3.16.1 Electrical Ratings

Item	Min	Nominal	Max	Units
Power Supply				
Voltage	27.4	28.0	28.6	V dc
Current	—	—	1.0	A dc
LVDT Inputs				
Voltage	—	—	7.14	V ac
Frequency	—	3.2	—	KHz
Speed Inputs				
Voltage	-15	—	15	V dc
LVDT Excitation Outputs				
Voltage	6.86	7.00	7.14	V ac
Current	—	—	127	mA ac
Frequency	3.0	3.2	3.4	KHz
Servo Outputs				
Voltage	-10	—	10	V dc
Current	-120	—	120	mA dc
Speed Sensor Power Output				
Voltage	22.8	24.0	25.2	V dc
Current	—	40	—	mA dc

3.16.2 Field Wire Connections

For servo control terminal boards (accessories) certified for HazLoc, refer to the table *Euro Style Box-type Terminal Blocks* for wire size and screw torques.

The servo outputs require a minimum resistive load of 27 Ω (TSVO Req + external Rcoil) to operate as intrinsically safe.