

Power Consumption

ELECTRICAL SUB-ASSEMBLY

The electrical power requirement of the X2 series actuators is based on the power module size; however, each Electrical Sub-Assembly has minimum power consumption for the CPU when the actuator is idle.

Minimum Power Consumption, all modules: 50 VA (Volt-Amps), *continuous*.

MECHANICAL SUB-ASSEMBLY

Each Mechanical Sub-Assembly contains a cartridge heater to maintain a constant viscosity of the oil. The heater will turn on at 60 °F and turn off at 80 °F.

Heater Power Consumption, all modules: 150 VA - *only when heater is on*.

SPRING FAIL SAFE OPTION

Actuators featuring the Spring Fail Safe option contain a solenoid. A normally open solenoid operates a zero leakage valve in a bypass port of the power module. As long as electrical power is present, the solenoid is energized and the actuator will operate in its normal control mode. Upon power loss, the bypass valve opens directly connecting both chambers of the hydraulic piston. The spring will now move the actuator stem to the selected failure position.

Standard (Internal): 30 VA, *continuous*.

Optional High Capacity (External): 50 VA, *continuous*.

ACCUMULATOR

Actuators featuring the Accumulator option contain two high capacity solenoids.

Accumulator Solenoids: 100 VA total, *continuous*.

MOTOR

The Motor operates when the actuator is instructed by the CPU to move to a new position. Various size power modules have differing electrical power requirements as shown below:

Power Module	Motor * Power Requirement	Booster Pump * Power Requirement	Voltage
B	200 VA		120 Vac
C	800 VA		120 Vac
2C	1 600 VA		120 Vac
½ D	2 000 VA		120 Vac
D	2 000 VA		240 Vac, 1Ø
2D	4 000 VA		240 Vac, 1Ø
D,P9 D Power Module	2 000 VA	6 000 VA	240 Vac, 3Ø
D,P40 D Power Module	2 000 VA	12 500 VA	240 Vac, 3Ø

* All voltages above are intermittent; only when required to move.

Minimum Power Consumption
Heater Power Consumption
Solenoid Power Consumption (if applicable)
Power Module Power Consumption
+ Booster Pump Consumption (if applicable)

= TOTAL POWER REQUIREMENTS