

Circuit Breaker and Fuse Sizes

The inverter's connections to input power for 400V class units must include UL Listed inverse time circuit breakers with 600V rating, or UL Listed fuses as shown in the table below.

Input Voltage	Inverter Model	Circuit breaker / Fuse	Ampere rating for Fuse or Breaker	
Single/ Three- Phase 200V	X200-002SFFE/NFU	Inverse time circuit breaker	10	
	X200-004SFFE/NFU			
	X200-005SFFE			
	X200-007SFFE/NFU		Inverse time circuit breaker	15
	X200-011SFFE			
	X200-015SFFE/NFU			20
	X200-022SFFE/NFU			30
	X200-037LFU			
	X200-055LFU			
X200-075LFU	50			
Three- Phase 400V	X200-004HFE/HFU	Distribution Fuse (Class J)	3	
	X200-007HFE/HFU		6	
	X200-015HFE/HFU		10	
	X200-022HFE/HFU		10	
	X200-030HFE		15	
	X200-040HFE/HFU		15	
	X200-055HFE/HFU		20	
	X200-075HFE/HFU		25	

Motor Overload Protection

Hitachi X200 inverters provide solid state motor overload protection, which depends on the proper setting of the following parameters:

- B012 "electronic overload protection"
- B212 "electronic overload protection, 2nd motor"

Set the rated current [Amperes] of the motor(s) with the above parameters. The setting range is $0.2 * \text{rated current}$ to $1.0 * \text{rated current}$.



WARNING: When two or more motors are connected to the inverter, they cannot be protected by the electronic overload protection. Install an external thermal relay on each motor.