

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	X200-002SFEF2/NFU2	Inverse time circuit breaker	10
	X200-004SFEF2/NFU2		
	X200-005SFEF2		
	X200-007SFEF2/NFU2		15
	X200-011SFEF2		
	X200-015SFEF2/NFU2		
	X200-022SFEF2/NFU2		
	X200-037LFU2		
	X200-055LFU2		
	X200-075LFU2		
Three- Phase 400V	X200-004HFEF2/HFU2	Distribution Fuse (Class J)	3
	X200-007HFEF2/HFU2		6
	X200-015HFEF2/HFU2		10
	X200-022HFEF2/HFU2		10
	X200-030HFEF2		15
	X200-040HFEF2/HFU2		15
	X200-055HFEF2/HFU2		20
	X200-075HFEF2/HFU2		25

Motor Overload Protection

Hitachi X2002 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 * rated current to 1.0 * 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.