

## SVX Drives



## SVX Drives

## Product Description

SVX Series Adjustable Frequency Drives from Eaton's Electrical Sector are the next generation of drives specifically engineered for today's commercial and industrial applications. The power unit makes use of the most sophisticated semiconductor technology and a highly modular construction that can be flexibly adapted to the customer's needs.

The input and output configuration (I/O) is designed with modularity in mind. The I/O is comprised of option cards, each with its own input and output configuration. The control module is designed to accept a total of five of these cards. The cards contain not only normal analog and digital inputs but also fieldbus cards.

These drives continue the tradition of robust performance, and raise the bar on features and functionality, ensuring the best solution at the right price.

## Features

- Robust design—proven 500,000 hours MTBF
- Integrated 3% line reactors standard on drives from FR4 through FR9
- EMI/RFI Filters H standard up to 200 hp I<sub>H</sub> 480 V, 100 hp I<sub>H</sub> 230 V
- Simplified operating menu allows for typical programming changes, while programming mode provides control of everything
- Quick Start Wizard built into the programming of the drive ensures a smooth start-up
- Keypad can display up to three monitored parameters simultaneously
- LOCAL/REMOTE operation from keypad
- Copy/paste function allows transfer of parameter settings from one drive to the next
- Standard NEMA Type 12/IP54 keypad on all drives
- The SVX can be flexibly adapted to a variety of needs using our pre-installed "Seven in One" precision application programs consisting of:
  - Basic
  - Standard
  - Local/remote
  - Multi step speed control
  - PID control
  - Multi-purpose control
  - Pump and fan control with auto change
- Additional I/O and communication cards provide plug and play functionality
- I/O connections with simple quick connection terminals
- Hand-held auxiliary 24 V power supply allows programming/monitoring of control module without applying full power to the drive
- Control logic can be powered from an external auxiliary control panel, internal drive functions and fieldbus if necessary
- Brake chopper standard from: 1–30 hp/380–500 V 3/4–15 hp/208–230 V
- NEMA Type 1/IP21 and NEMA Type 12/IP54 enclosures available, Frame Sizes FR4–FR9
- Open chassis FR10 and greater
- Standard option board configuration includes an A9 I/O board and an A2 relay output board installed in slots A and B

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## Adjustable Frequency Drives

### SVX Drives

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#### Standards and Certifications

##### Product

- IEC 61800-2

##### EMC (At Default Settings)

- Immunity: Fulfills all EMC immunity requirements; Emissions: EN 61800-3, LEVEL H

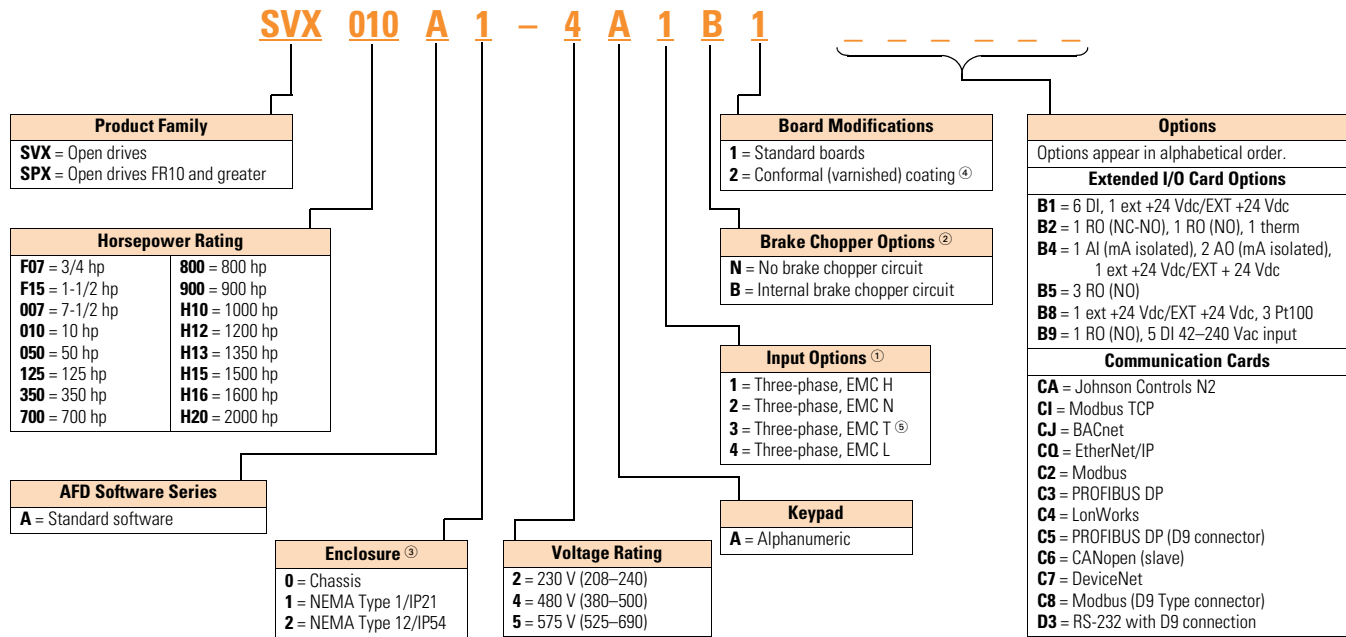
##### Safety

- UL 508C
- CE



#### Catalog Number Selection

##### SVX Adjustable Frequency Drives



#### Notes

- All 230 V drives and 480 V drives up to 200 hp (IH) are only available with input option 1 (EMC Level H). 480 V drives 250 hp (IH) or larger are available with input option 2 (EMC Level N). 480 V drives are available with input option 4 (EMC Level L). 575 V drives 200 hp (IH) or larger are only available with input option 2. 575 V drives up to 150 hp (IH) are only available with input option 4 (EMC Level L).
- 480 V drives up to 30 hp (IH) are only available with brake chopper option B. 480 V drives 40 hp (IH) or larger come standard with brake chopper option N. 230 V drives up to 15 hp (IH) are only available with brake chopper option B. 230 V drives 20 hp or larger come standard with brake chopper option N. All 575 V drives come standard without brake chopper option (N). N = No brake chopper.
- 480 V drives 250 hp (I<sub>H</sub>) and larger are available with enclosure style 0 (chassis); 690 V drives 200 hp (I<sub>H</sub>) and larger are available with enclosure style 0 (chassis).
- Factory promise delivery. Consult sales office for availability.
- For high-resistance ground systems, any SVX/SPX drive can be used if the HRG system has ground supervision. If no ground supervision feature is available, use EMC class N or T.

## 480 V SVX Drives

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## SVX Open Drives



## 380–500 V, NEMA Type 1/IP21 Drives

Frame Size	hp (I <sub>H</sub> )	Current (I <sub>H</sub> )	hp (I <sub>L</sub> )	Current (I <sub>L</sub> )	Catalog Number
FR4	1	2.2	1-1/2	3.3	SVX001A1-4A1B1
	1-1/2	3.3	2	4.3	SVXF15A1-4A1B1
	2	4.3	3	5.6	SVX002A1-4A1B1
	3	5.6	5	7.6	SVX003A1-4A1B1
	5	7.6	—	9	SVX005A1-4A1B1
	—	9	7-1/2	12	SVX006A1-4A1B1
FR5	7-1/2	12	10	16	SVX007A1-4A1B1
	10	16	15	23	SVX010A1-4A1B1
	15	23	20	31	SVX015A1-4A1B1
FR6	20	31	25	38	SVX020A1-4A1B1
	25	38	30	46	SVX025A1-4A1B1
	30	46	40	61	SVX030A1-4A1B1
FR7	40	61	50	72	SVX040A1-4A1N1
	50	72	60	87	SVX050A1-4A1N1
	60	87	75	105	SVX060A1-4A1N1
FR8	75	105	100	140	SVX075A1-4A1N1
	100	140	125	170	SVX100A1-4A1N1
	125	170	150	205	SVX125A1-4A1N1
FR9	150	205	200	261	SVX150A1-4A1N1
	200	245	250	300	SVX200A1-4A1N1

## 380–500 V, NEMA Type 12/IP54 Drives

Frame Size	hp (I <sub>H</sub> )	Current (I <sub>H</sub> )	hp (I <sub>L</sub> )	Current (I <sub>L</sub> )	Catalog Number
FR4	1	2.2	1-1/2	3.3	SVX001A2-4A1B1
	1-1/2	3.3	2	4.3	SVXF15A2-4A1B1
	2	4.3	3	5.6	SVX002A2-4A1B1
	3	5.6	5	7.6	SVX003A2-4A1B1
	5	7.6	—	9	SVX005A2-4A1B1
	—	9	7-1/2	12	SVX006A2-4A1B1
FR5	7-1/2	12	10	16	SVX007A2-4A1B1
	10	16	15	23	SVX010A2-4A1B1
	15	23	20	31	SVX015A2-4A1B1
FR6	20	31	25	38	SVX020A2-4A1B1
	25	38	30	46	SVX025A2-4A1B1
	30	46	40	61	SVX030A2-4A1B1
FR7	40	61	50	72	SVX040A2-4A1N1
	50	72	60	87	SVX050A2-4A1N1
	60	87	75	105	SVX060A2-4A1N1
FR8	75	105	100	140	SVX075A2-4A1N1
	100	140	125	170	SVX100A2-4A1N1
	125	170	150	205	SVX125A2-4A1N1
FR9	150	205	200	261	SVX150A2-4A1N1
	200	245	250	300	SVX200A2-4A1N1