

SVX Drives



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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 compromised 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_H 480 V, 100 hp I_H 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

Standards and Certifications

Product

- IEC 61800-2

EMC (At Default Settings)

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

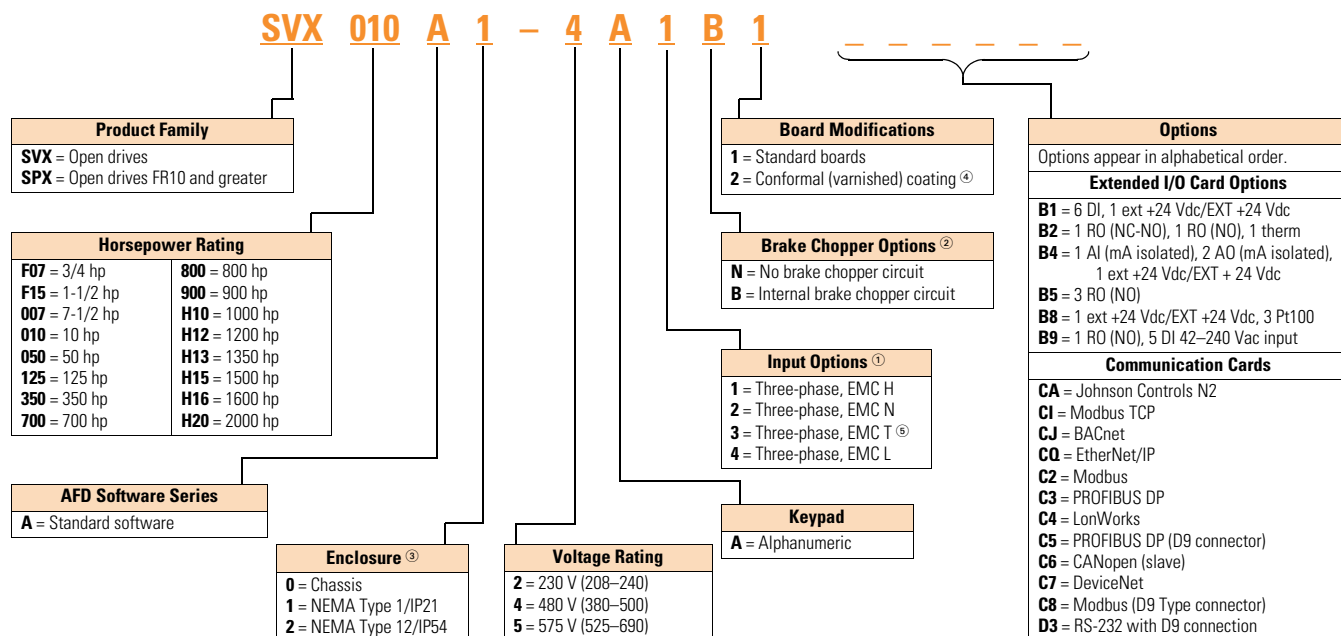
Safety

- UL 508C
- CE



Catalog Number Selection

SVX Adjustable Frequency Drives



Notes

- ① 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).
- ② 480 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.
- ③ 480 V drives 250 hp (IH) and larger are available with enclosure style 0 (chassis); 690 V drives 200 hp (IH) and larger are available with enclosure style 0 (chassis).
- ④ Factory promise delivery. Consult sales office for availability.
- ⑤ 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.

SVX Open Drives

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525–690 V, NEMA Type 12/IP54 Drives

Frame Size	hp (I _H)	Current (I _H)	hp (I _L)	Current (I _L)	Catalog Number
FR6	2	3.3	3	4.5	SVX002A2-5A4N1
	3	4.5	—	5.5	SVX003A2-5A4N1
	—	5.5	5	7.5	SVX004A2-5A4N1
	5	7.5	7-1/2	10	SVX005A2-5A4N1
	7-1/2	10	10	13.5	SVX007A2-5A4N1
	10	13.5	15	18	SVX010A2-5A4N1
	15	18	20	22	SVX015A2-5A4N1
	20	22	25	27	SVX020A2-5A4N1
FR7	25	27	30	34	SVX025A2-5A4N1
	30	34	40	41	SVX030A2-5A4N1
FR8	40	41	50	52	SVX040A2-5A4N1
	50	52	60	62	SVX050A2-5A4N1
	60	62	75	80	SVX060A2-5A4N1
FR9	75	80	100	100	SVX075A2-5A4N1
	100	100	125	125	SVX100A2-5A4N1
	125	125	150	144	SVX125A2-5A4N1
	150	144	—	170	SVX150A2-5A4N1
	—	170	200	208	SVX175A2-5A4N1

525–690 V, Open Chassis Drives

Frame Size	hp (I _H)	Current (I _H)	hp (I _L)	Current (I _L)	Catalog Number
FR10	200	208	250	261	SPX200A0-5A2N1
	250	261	300	325	SPX250A0-5A2N1
	300	325	400	385	SPX300A0-5A2N1
FR11	400	385	450	460	SPX400A0-5A2N1
	450	460	500	502	SPX450A0-5A2N1
	500	502	—	590	SPX500A0-5A2N1
FR12	—	590	600	650	SPX550A0-5A2N1
	600	650	700	750	SPX600A0-5A2N1
	700	750	800	820	SPX700A0-5A2N1
FR13	800	820	900	920	SPX800A0-5A2N1
	900	920	1000	1030	SPX900A0-5A2N1
	1000	1030	1250	1180	SPXH10A0-5A2N1
FR14	1350	1300	1500	1500	SPXH13A0-5A2N1
	1500	1500	2000	1900	SPXH15A0-5A2N1
	2000	1900	2300	2250	SPXH20A0-5A2N1