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 preinstalled "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

SVX Drives

Standards and Certifications

Product • IEC 61800-2

• IEC 61800-2

- EMC (At Default Settings)
- Immunity: Fulfills all EMC immunity requirements; Emissions: EN 61800-3, LEVEL H



UL 508CCE



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.
- ③ 480 V drives 250 hp (I_H) and larger are available with enclosure style 0 (chassis); 690 V drives 200 hp (I_H) and larger are available with enclosure style 0 (chassis).
- 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.

Adjustable Frequency Drives

380–500 V, Open Chassis Drives

| Frame Size | hp (I _H) | Current (I _H) | hp (I _L) | Current (I _L) | Catalog Number |
|---------------|----------------------|---------------------------|----------------------|---------------------------|----------------|
| FR10 1 | 250 | 330 | 300 | 385 | SPX250A0-4A2N1 |
| | 300 | 385 | 350 | 460 | SPX300A0-4A2N1 |
| | 350 | 460 | 400 | 520 | SPX350A0-4A2N1 |
| FR11 | 400 | 520 | 500 | 590 | SPX400A0-4A2N1 |
| | 500 | 590 | _ | 650 | SPX500A0-4A2N1 |
| | | 650 | 600 | 730 | SPX550A0-4A2N1 |
| FR12 | 600 | 730 | _ | 820 | SPX600A0-4A2N1 |
| | _ | 820 | 700 | 920 | SPX650A0-4A2N1 |
| | 700 | 920 | 800 | 1030 | SPX700A0-4A2N1 |
| FR13 | 800 | 1030 | 900 | 1150 | SPX800A0-4A2N1 |
| | 900 | 1150 | 1000 | 1300 | SPX900A0-4A2N1 |
| | 1000 | 1300 | 1200 | 1450 | SPXH10A0-4A2N1 |
| FR14 | 1200 | 1600 | 1500 | 1770 | SPXH12A0-4A2N1 |
| | 1600 | 1940 | 1800 | 2150 | SPXH16A0-4A2N1 |
| | 1900 | 2300 | 2200 | 2700 | SPXH19A0-4A2N1 |

575 V SVX Drives

525-690 V, NEMA Type 1/IP21 Drives

Frame Size hp (I_H) Current (I_H) hp (I_L) $\operatorname{Current}\left(\mathbf{I}_{\mathsf{L}}\right)$ **Catalog Number** FR6 SVX002A1-5A4N1 2 3.3 3 4.5 3 4.5 5.5 SVX003A1-5A4N1 _ _ 5.5 5 7.5 SVX004A1-5A4N1 5 7.5 7-1/2 10 SVX005A1-5A4N1 7-1/2 10 10 13.5 SVX007A1-5A4N1 10 13.5 15 18 SVX010A1-5A4N1 15 18 20 22 SVX015A1-5A4N1 20 22 25 27 SVX020A1-5A4N1 25 27 30 34 SVX025A1-5A4N1 FR7 30 34 40 41 SVX030A1-5A4N1 40 41 50 52 SVX040A1-5A4N1 FR8 50 52 60 62 SVX050A1-5A4N1 60 75 62 80 SVX060A1-5A4N1 75 SVX075A1-5A4N1 80 100 100 FR9 100 100 125 125 SVX100A1-5A4N1 125 SVX125A1-5A4N1 125 150 144 150 144 170 SVX150A1-5A4N1 ____ _ 170 200 208 SVX175A1-5A4N1

Note

^① FR10–FR14 includes 3% line reactor, but it is not integral to chassis.

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SVX Open Drives