

# SureServo<sup>®</sup> AC Servo System Accessories

## Accessories

### External Regeneration Resistors

Use external resistors to provide additional regenerative capacity and to dissipate heat away from the servo drive.

Part Number	Resistance	SureServo Drives	Price
<b>GS-25PO-BR</b>	40Ω	<b>SVA-2040</b>	\$76.00
<b>GS-2010-BR-ENC</b>	20Ω	<b>SVA-2100, SVA-2300</b>	\$233.00



**Resistor GS-25PO-BR**

### AC Line Filters

Input EMI filters reduce electromagnetic interference or noise on the input side of the servo drive. They are required for CE compliance and recommended for installations prone to or sensitive to electromagnetic interference.

SureServo <sup>®</sup> Drives	AC Input Power	EMI Filter Rating	EMI Filter Part Number	Price
<b>SVA-2040</b>	Single-Phase	250V, 1-phase, 20A	<b>20DRT1W3S</b>	\$77.00
	Three-Phase	250V, 3-phase, 10A	<b>10TDT1W4C</b>	\$82.00
<b>SVA-2100</b>	Single-Phase	250V, 1-phase, 20A	<b>20DRT1W3S</b>	\$77.00
	Three-Phase	250V, 3-phase, 10A	<b>10TDT1W4C</b>	\$82.00
<b>SVA-2300</b>	Three-Phase	250V, 3-phase, 26A	<b>26TDT1W4C</b>	\$115.00

***NOTE: THESE EMI FILTERS ARE ELECTRICALLY COMPATIBLE WITH THE SURESERVO DRIVES. HOWEVER, THEY ARE INTENDED TO BE MOUNTED NEXT TO THE SERVO DRIVE. DO NOT MOUNT THE FILTER UNDER THE DRIVE. THE DRIVE MOUNTING HOLES ON THESE UNITS ARE INTENDED TO BE USED ONLY WITH AUTOMATIONDIRECT'S LINE OF VFDs.***



**AC Line Filter 10TDT1W4C**

### Edison Fuses & Fuji Contactors

SureServo <sup>®</sup> Drives	Input Type	Input Voltage	Edison Fuse - Class CC	Price*	Contactor**	Price
<b>SVA-2040</b>	Main Input Power	230V 3-Phase	<b>HCTR4</b>	\$95.00	<b>SC-E02-xxx</b>	varies
<b>SVA-2100</b>			<b>HCTR7-5</b>	\$105.00	<b>SC-E03-xxx</b>	varies
<b>SVA-2300</b>			<b>HCTR15</b>	\$89.00	<b>SC-E04-xxx</b>	varies
<b>SVA-2040</b>	Main Input Power	230V 1-phase	<b>HCTR4</b>	\$95.00	<b>SC-E02-xxx</b>	varies
<b>SVA-2100</b>			<b>HCTR10</b>	\$95.00	<b>SC-E03-xxx</b>	varies
<b>SVA-2040</b> <b>SVA-2100</b> <b>SVA-2300</b>	Control Input Power	230V 1-phase	<b>HCTR2-5</b>	\$98.00		

\* Fuses are sold in packages of 10.  
 \*\* Note: For contactors, xxx = coil voltage (for example, SC-E02-220VAC).



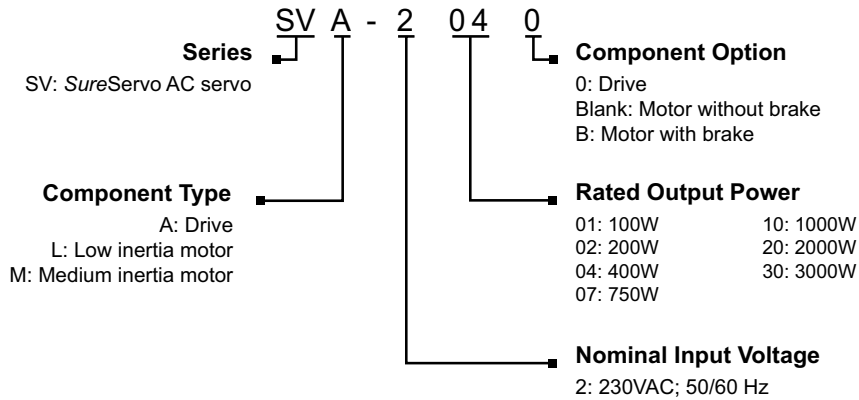
**Fuji Contactor SC-E02-xxx**



**Edison Fuse HCTRx**

# SureServo<sup>®</sup> AC Servo System Configuration

## SureServo series drives and motors part numbering system



Here is what you will need to order a complete servo system:



**NOTE: UNIT CAN BE PROGRAMMED VIA KEYPAD.**  
OPTIONAL PROGRAMMING SOFTWARE (FREE DOWNLOAD) AND OPTIONAL PROGRAMMING CABLE AVAILABLE.



**NOTE: IF YOU NEED A GEAR BOX FOR YOUR CONFIGURATION, YOU CAN DO IT EASILY ONLINE:**  
[HTTP://WWW.SURESERVO.COM/GEARBOX/SELECTOR](http://www.sureservo.com/gearbox/selector)



## SureServo AC servo drive, motor, and cable combinations

Inertia & Power		Drive and Motor			Power Cables (from Drive to Motor)				Encoder Feedback Cables				Miscellaneous	
Inertia	Power	Servo Drive	Servo Motor without brake (note)	Servo Motor with brake (note)	10 ft	20 ft	30 ft	60 ft	10 ft	20 ft	30 ft	60 ft	ZIPLink I/O Interface	RS-422/485 Serial Communication Cable
Low inertia	100W	SVA-2040	SVL-201	SVL-201B	SVC-PFL-010	SVC-PFL-020	SVC-PFL-030	SVC-PFL-060	SVC-EFL-010	SVC-EFL-020	SVC-EFL-030	SVC-EFL-060	ZL-RTB50  and ZL-SVC-CBL50 or ZL-SVC-CBL50-1 or ZL-SVC-CBL50-2	SVC-MDCOM-CBL
	200W		SVL-202	SVL-202B										
	400W		SVL-204	SVL-204B										
	750W	SVA-2100	SVL-207	SVL-207B										
	1000W		SVL-210	SVL-210B										
Medium inertia	1000W	SVA-2300	SVM-210	SVM-210B	SVC-PHM-010	SVC-PHM-020	SVC-PHM-030	SVC-PHM-060	SVC-EHH-010	SVC-EHH-020	SVC-EHH-030	SVC-EHH-060		
	2000W		SVM-220	SVM-220B	SVC-PHH-010	SVC-PHH-020	SVC-PHH-030	SVC-PHH-060						
	3000W		SVM-230	SVM-230B										

**NOTE: EACH SERVO MOTOR REQUIRES AN ENCODER FEEDBACK CABLE AND A POWER CABLE.**  
**THE MOTOR POWER CABLE INCLUDES BRAKE POWER WIRES FOR THE OPTIONAL MOTOR BRAKE.**



# AC Servo System Software



## SureServo Pro configuration software

SureServo Pro is an optional free downloadable configuration software package for the SureServo drives. With SureServo Pro installed, the personal computer may be directly connected to the servo drive's serial port via the PC's RS-232 serial port\*. A six-foot configuration cable (SVC-PCCFG-CBL, \$19.50) is available to make the connection between the drive serial port and PC DB-9 serial port simple.

**\*Note: Use our USB-RS232 converter cable in conjunction with the SVC-PCCFG-CBL cable on PCs having only USB ports.**

### Features

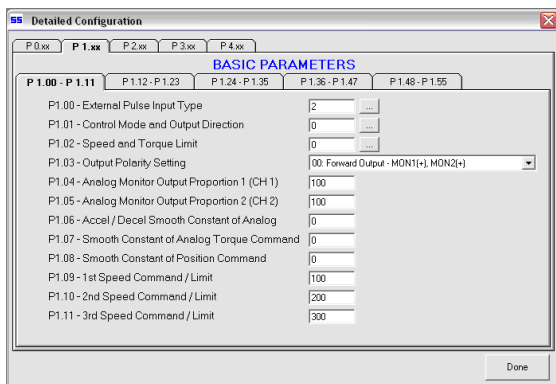
- **Quick Start** - The basic setup when you have limited time and just want to get up and running ASAP.
- **Maintenance keypad** allows the user to operate the servo system from the PC. This is a great aid during start-up to allow the servo to perform some basic motion and to check the I/O.
- **Detailed** - The complete setup for all the drive parameters
- **Tune and check the servo response live** using the scope feature.
- **Upload and download the drive setup.** Save the drive setup as a file for future use.
- **Edit the drive setup**
- **View all drive faults**
- **Trend drive variables in real time**

## Parameter views

The SureServo Pro configuration tool logically organizes over 165 servo drive parameters into five tabbed groups. Each parameter has a factory default that usually allows the servo to run "out-of-the-box".

The parameters can be easily changed with available options or setting ranges displayed. Tuning modes and parameters can also be changed using SureServo Pro. After the parameters have been defined, the complete setup can be stored and archived. Drive configurations can be uploaded, edited, saved, and downloaded as often as necessary.

Parameter View Example Screen - Basic Parameters



## SureServo Software and Configuration Cables

Product	Price	Description
<b>SV-PRO</b>	Free	SureServo Pro configuration software for use with all SureServo servo systems. FREE download from <a href="http://www.sureservo.com">www.sureservo.com</a> or <a href="http://www.automationdirect.com">www.automationdirect.com</a> websites.
<b>SV-PRO</b>	\$9.00	CD with SureServo Pro configuration software
<b>SVC-PCCFG-CBL</b>	\$19.50	Six-foot RS-232 communications cable; connects servo drive serial port to PC DB-9 serial port. <i>For PCs having only USB ports, use our USB-RS232 converter cable in conjunction with the SVC-PCCFG-CBL cable.</i>
<b>SVC-485CFG-CBL-2 *</b>	\$11.00	ZIPLink SureServo amplifier configuration cable, 6-pin IEEE 1394 connector to RJ45 connector, shielded, twisted pair, 2.0 meter (6.6 ft.) length. <i>Use this cable in conjunction with our USB-485M serial adapter to connect any SureServo amplifier to a PC. Eliminates the need to reprogram networked servo drives from RS485 to RS232 when connecting to a PC.</i>

\* Refer to the ZIPLinks Wiring Solutions section for complete information regarding ZIPLink cable SVC-485CFG-CBL-2.