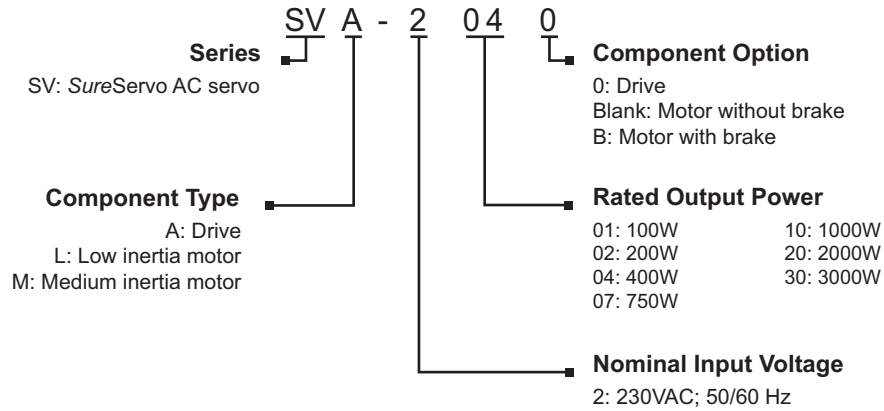


SureServo[®] AC Servo System Configuration

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.

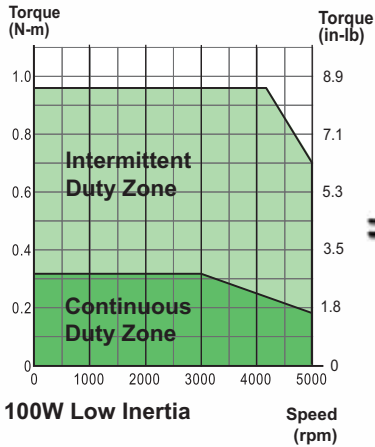
SureServo AC servo drive, motor, and cable combinations

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.

For all systems:
Order programming software &
programming cable if needed.
See pgs. 16-27 & 16-28.

100W Low Inertia System



Servo Drive
SVA-2040 <--->

$J_m =$ Motor Inertia = 0.000027 lb-in-s² (0.000003 kg · m²)

SureServo Motor



2.
SVL-201 <--->
SVL-201B (w/brake) <--->

Motor Encoder Cable (1)



4.
SVC-EFL-010 (10') <--->
SVC-EFL-020 (20') <--->
SVC-EFL-030 (30') <--->
SVC-EFL-060 (60') <--->

Motor Power Cable (1)



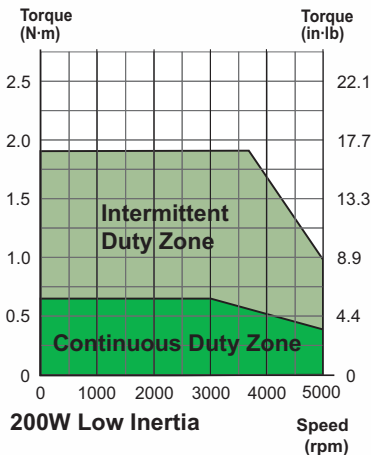
3.
SVC-PFL-010 (10') <--->
SVC-PFL-020 (20') <--->
SVC-PFL-030 (30') <--->
SVC-PFL-060 (60') <--->

Z/PLink I/O Interface



5.
ZL-RTB50 <--->
and one cable below:
ZL-SVC-CBL50 (0.5m) <--->
ZL-SVC-CBL50-1 (1m) <--->
ZL-SVC-CBL50-2 (2m) <--->

200W Low Inertia System



Servo Drive
SVA-2040 <--->

$J_m =$ Motor Inertia = 0.00016 lb-in-s² (0.000018 kg · m²)

SureServo Motor



2.
SVL-202 <--->
SVL-202B (w/brake) <--->

Motor Encoder Cable (1)



4.
SVC-EFL-010 (10') <--->
SVC-EFL-020 (20') <--->
SVC-EFL-030 (30') <--->
SVC-EFL-060 (60') <--->

Motor Power Cable (1)



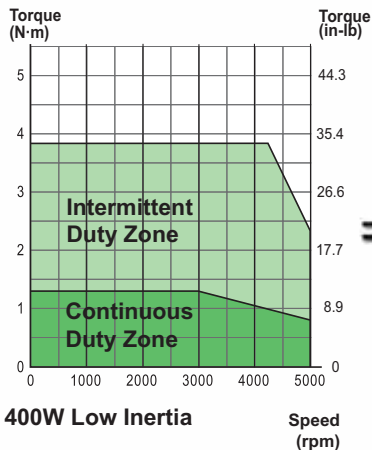
3.
SVC-PFL-010 (10') <--->
SVC-PFL-020 (20') <--->
SVC-PFL-030 (30') <--->
SVC-PFL-060 (60') <--->

Z/PLink I/O Interface



5.
ZL-RTB50 <--->
and one cable below:
ZL-SVC-CBL50 (0.5m) <--->
ZL-SVC-CBL50-1 (1m) <--->
ZL-SVC-CBL50-2 (2m) <--->

400W Low Inertia System



Servo Drive
SVA-2040 <--->

$J_m =$ Motor Inertia = 0.0003 lb-in-s² (0.000034 kg · m²)

SureServo Motor



2.
SVL-204 <--->
SVL-204B (w/brake) <--->

Motor Encoder Cable (1)



4.
SVC-EFL-010 (10') <--->
SVC-EFL-020 (20') <--->
SVC-EFL-030 (30') <--->
SVC-EFL-060 (60') <--->

Motor Power Cable (1)



3.
SVC-PFL-010 (10') <--->
SVC-PFL-020 (20') <--->
SVC-PFL-030 (30') <--->
SVC-PFL-060 (60') <--->

Z/PLink I/O Interface

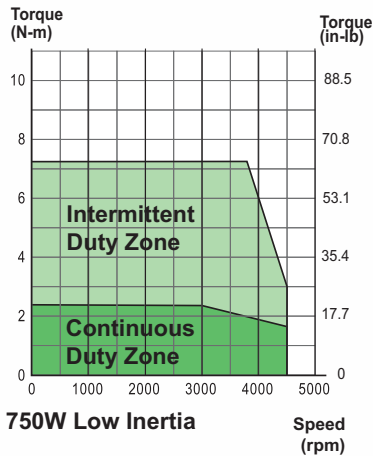


5.
ZL-RTB50 <--->
and one cable below:
ZL-SVC-CBL50 (0.5m) <--->
ZL-SVC-CBL50-1 (1m) <--->
ZL-SVC-CBL50-2 (2m) <--->

SureServo[®] AC Servo System Configuration

For all systems:
Order programming software &
programming cable if needed.
See pgs. 16-27 & 16-28.

750W Low Inertia System

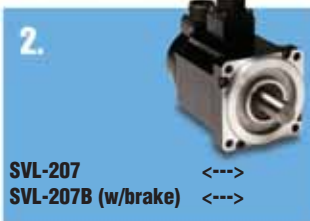


750W Low Inertia



$J_m = \text{Motor Inertia} = .00096 \text{ lb-in-s}^2 (0.000108 \text{ kg} \cdot \text{m}^2)$

SureServo Motor



Motor Power Cable (1)



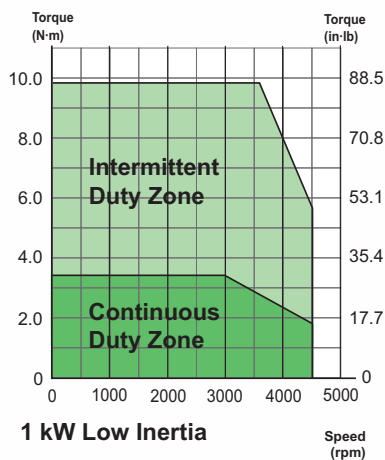
Motor Encoder Cable (1)



Z/PLink I/O Interface



1 kW Low Inertia System

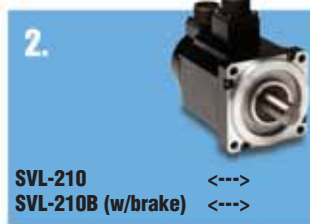


1 kW Low Inertia

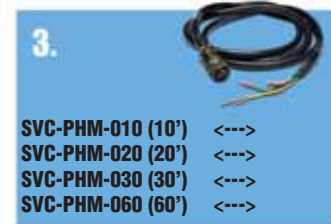


$J_m = \text{Motor Inertia} = .0023 \text{ lb-in-s}^2 (0.00026 \text{ kg} \cdot \text{m}^2)$

SureServo Motor



Motor Power Cable (1)



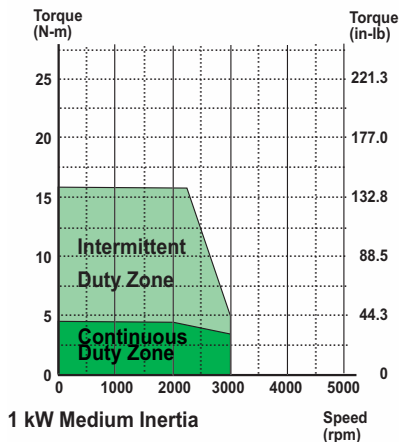
Motor Encoder Cable (1)



Z/PLink I/O Interface



1 kW Medium Inertia System

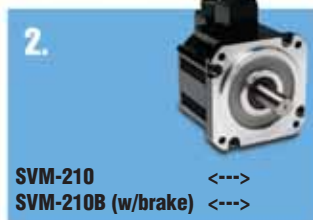


1 kW Medium Inertia

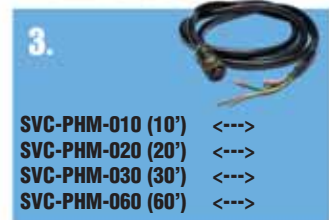


$J_m = \text{Motor Inertia} = .0053 \text{ lb-in-s}^2 (0.000598 \text{ kg} \cdot \text{m}^2)$

SureServo Motor



Motor Power Cable (1)



Motor Encoder Cable (1)

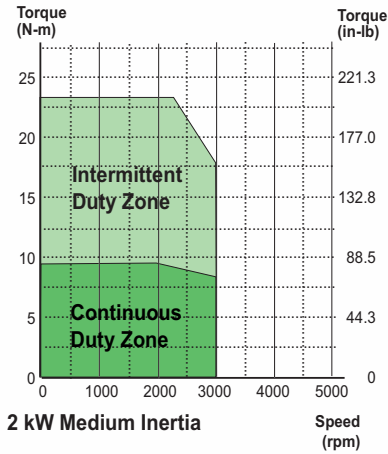


Z/PLink I/O Interface



For all systems:
Order programming software & programming cable if needed.
See pgs. 16-27 & 16-28.

2 kW Medium Inertia System



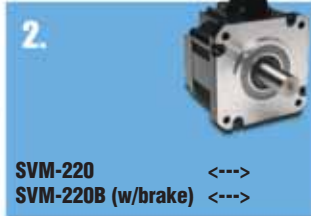
2 kW Medium Inertia

Speed (rpm)

$J_m = \text{Motor Inertia} = .014 \text{ lb-in-s}^2 = (0.00158 \text{ kg} \cdot \text{m}^2)$



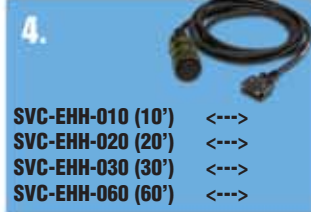
SureServo Motor



Motor Power Cable (1)



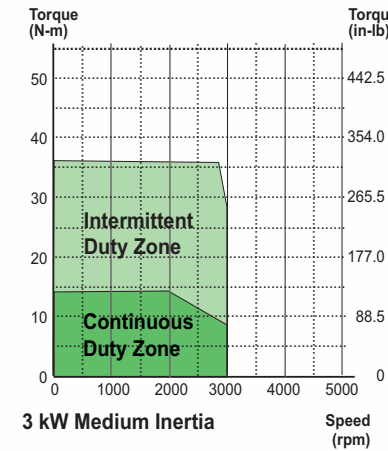
Motor Encoder Cable (1)



ZIPLink I/O Interface



3 kW Medium Inertia System



3 kW Medium Inertia

Speed (rpm)

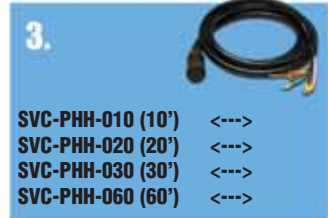
$J_m = \text{Motor Inertia} = 0.038 \text{ lb-in-s}^2 = (0.00433 \text{ kg} \cdot \text{m}^2)$



SureServo Motor



Motor Power Cable (1)



Motor Encoder Cable (1)



ZIPLink I/O Interface



NOTE: ALL MOTOR POWER CABLES INCLUDE BRAKE POWER WIRES FOR THE OPTIONAL MOTOR BRAKE.

SureServo Communications Cables for Multi-drop Networks

Product	Price	Description
SVC-MDCOM-CBL	<--->	RS-422/485 serial communication cable for use with multidrop networks; 3ft length; IEEE 1394 plug to unterminated wires; compatible with all SureServo systems. Facilitates connection between the SureServo drive serial port and host controllers.
SVC-232RJ12-CBL-2 *	<--->	ZIPLink SureServo Drives cable with 6-pin RJ12 connector to a 6-pin IEEE 1394 connector, shielded, twisted pair, 2.0 meter (6.6 ft.) length. For RS-232 connection to all SureServo amplifiers.
SVC-485RJ12-CBL-2 *	<--->	ZIPLink SureServo amplifier communication cable, RJ12 male to 6-pin IEEE 1394 connector, shielded, twisted pair, 2.0 meter (6.6 ft.) length. Cable used in conjunction with ZL-CDM-RJ12xxx distribution module can access a compatible RS-485 device network.
SVC-485HD15-CBL-2 *	<--->	ZIPLink SureServo Drives cable with a HD 15-pin male to a 6-pin IEEE 1394 connector, shielded, twisted pair, 2.0 meter (6.6 ft.) length. For RS-485 connection to all SureServo amplifiers.

* Refer to the ZIPLinks Wiring Solutions section for complete information regarding the ZIPLink cables.

