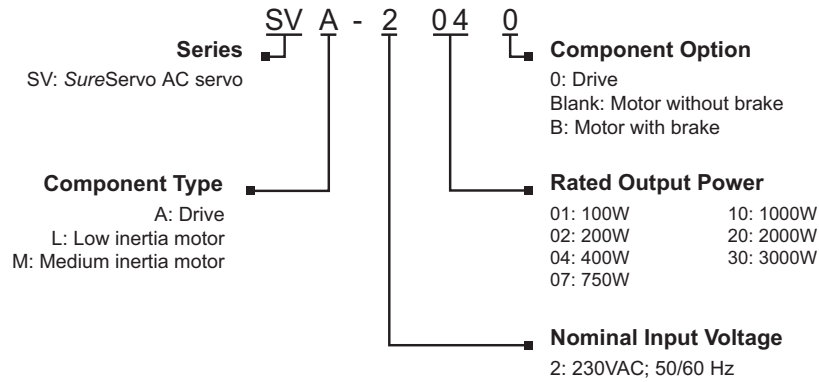


# SureServo™ AC Servo System Configuration

## SureServo series drives and motors part numbering system



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



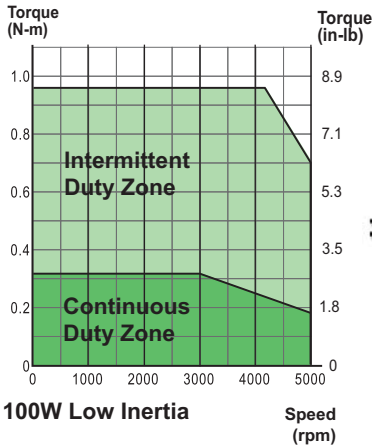
## SureServo AC servo drive, motor, and cable combinations

Inertia and Power		Drive and Motor			Power Cables				Encoder Feedback Cables				Misc.
Inertia	Power	Servo drive	Servo motor without brake (note)	Servo motor with brake (note)	Power Cable - 10 ft	Power Cable - 20 ft	Power Cable - 30 ft	Power Cable - 60 ft	Encoder Feedback Cable - 10 ft	Encoder Feedback Cable - 20 ft	Encoder Feedback Cable - 30 ft	Encoder Feedback Cable - 60 ft	ZIPLink Cable Kit
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	ASD-BM-50A
	200W		SVL-202	SVL-202B									
	400W		SVL-204	SVL-204B									
	750W		SVL-207	SVL-207B									
	1000W	SVA-2100	SVL-210	SVL-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	
Medium inertia	1000W	SVA-2300	SVM-210	SVM-210B	SVC-PHH-010	SVC-PHH-020	SVC-PHH-030	SVC-PHH-060	SVC-EHH-010	SVC-EHH-020	SVC-EHH-030	SVC-EHH-060	
	2000W		SVM-220	SVM-220B									
	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.

- PLC Overview
- DL05/06 PLC
- DL105 PLC
- DL205 PLC
- DL305 PLC
- DL405 PLC
- Field I/O
- Software
- C-more HMIs
- Other HMI
- AC Drives
- Motors
- Steppers/Servos
- Motor Controls
- Proximity Sensors
- Photo Sensors
- Limit Switches
- Encoders
- Current Sensors
- Pushbuttons/Lights
- Process
- Relays/Timers
- Comm.
- TB's & Wiring
- Power
- Circuit Protection
- Enclosures
- Appendix
- Part Index

## 100W Low Inertia System



**For all systems:**  
Order programming software and cable if needed (see p. 15-22)

1.



Servo Drive  
**SVA-2040** <--->

$J_m = \text{Motor Inertia} = 0.000027 \text{ lb-in-s}^2 (0.000003 \text{ kg} \cdot \text{m}^2)$

### SureServo Motor

2.



**SVL-201** <--->  
**SVL-201B (w/brake)** <--->

### Motor Power Cable (1)

3.



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

### Motor Encoder Cable (1)

4.



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

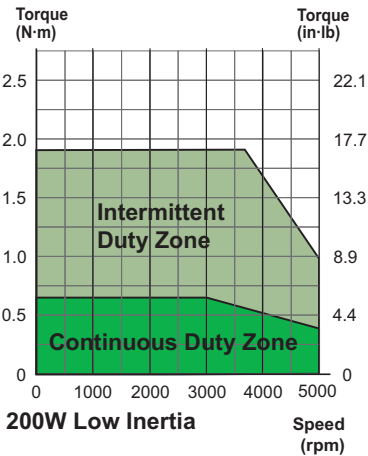
### ZIPLink Kit for CN1

5.



**ASD-BM-50A** <--->

## 200W Low Inertia System



1.



Servo Drive  
**SVA-2040** <--->

$J_m = \text{Motor Inertia} = 0.00016 \text{ lb-in-s}^2 (0.000018 \text{ kg} \cdot \text{m}^2)$

### SureServo Motor

2.



**SVL-202** <--->  
**SVL-202B (w/brake)** <--->

### Motor Power Cable (1)

3.



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

### Motor Encoder Cable (1)

4.



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

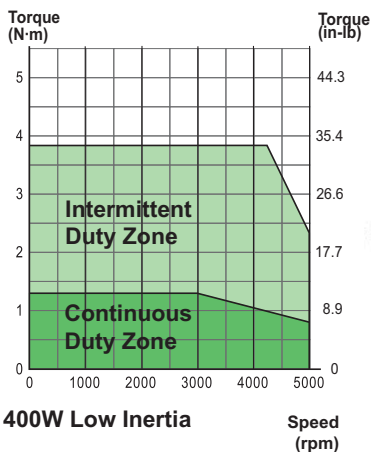
### ZIPLink Kit for CN1

5.



**ASD-BM-50A** <--->

## 400W Low Inertia System



1.



Servo Drive  
**SVA-2040** <--->

$J_m = \text{Motor Inertia} = 0.0003 \text{ lb-in-s}^2 (0.000034 \text{ kg} \cdot \text{m}^2)$

### SureServo Motor

2.



**SVL-204** <--->  
**SVL-204B (w/brake)** <--->

### Motor Power Cable (1)

3.



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

### Motor Encoder Cable (1)

4.



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

### ZIPLink Kit for CN1

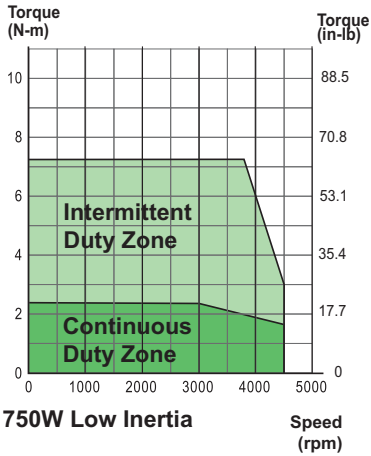
5.



**ASD-BM-50A** <--->

# SureServo™ AC Servo System Configuration

## 750W Low Inertia System



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

**For all systems:**  
Order programming software and cable if needed (see p. 15-22)

1.



Servo Drive  
**SVA-2100 <---->**

SureServo Motor

2.



**SVL-207 <---->**  
**SVL-207B (w/brake) <---->**

Motor Power Cable (1)

3.



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

Motor Encoder Cable (1)

4.



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

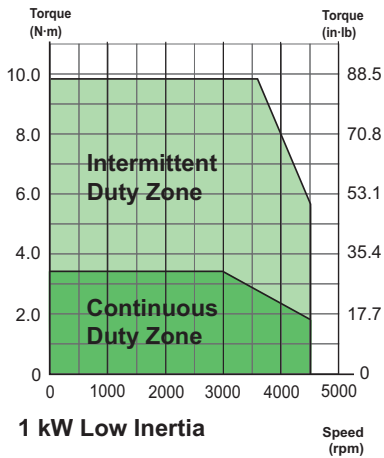
Z/PLink Kit for CN1

5.



**ASD-BM-50A <---->**

## 1 kW Low Inertia System



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

1.



Servo Drive  
**SVA-2100 <---->**

SureServo Motor

2.



**SVL-210 <---->**  
**SVL-210B (w/brake) <---->**

Motor Power Cable (1)

3.



**SVC-PHM-010 (10') <---->**  
**SVC-PHM-020 (20') <---->**  
**SVC-PHM-030 (30') <---->**  
**SVC-PHM-060 (60') <---->**

Motor Encoder Cable (1)

4.



**SVC-EHH-010 (10') <---->**  
**SVC-EHH-020 (20') <---->**  
**SVC-EHH-030 (30') <---->**  
**SVC-EHH-060 (60') <---->**

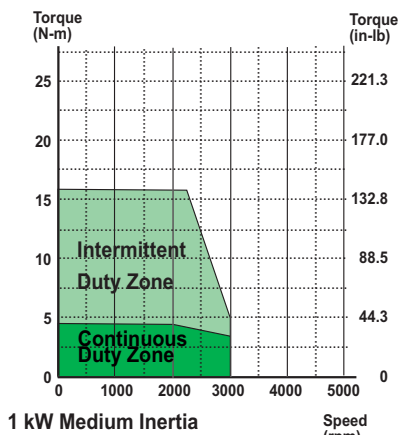
Z/PLink Kit for CN1

5.



**ASD-BM-50A <---->**

## 1 kW Medium Inertia System



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

1.



Servo Drive  
**SVA-2100 <---->**

SureServo Motor

2.



**SVM-210 <---->**  
**SVM-210B (w/brake) <---->**

Motor Power Cable (1)

3.



**SVC-PHM-010 (10') <---->**  
**SVC-PHM-020 (20') <---->**  
**SVC-PHM-030 (30') <---->**  
**SVC-PHM-060 (60') <---->**

Motor Encoder Cable (1)

4.



**SVC-EHH-010 (10') <---->**  
**SVC-EHH-020 (20') <---->**  
**SVC-EHH-030 (30') <---->**  
**SVC-EHH-060 (60') <---->**

Z/PLink Kit for CN1

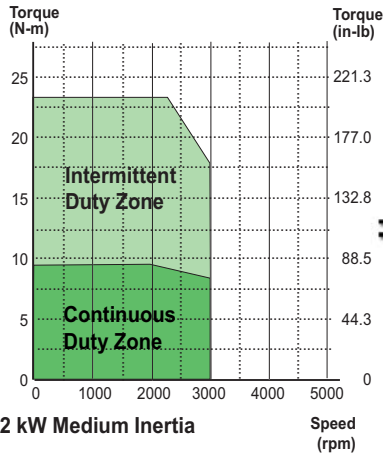
5.



**ASD-BM-50A <---->**

# SureServo™ AC Servo System Configuration

## 2 kW Medium Inertia System



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

**For all systems:**  
Order programming software and cable if needed (see p. 15-22)



**Servo Drive**  
**SVA-2300** <--->

### SureServo Motor

**2.**

**SVM-220** <--->  
**SVM-220B (w/brake)** <--->

### Motor Power Cable (1)

**3.**

**SVC-PHH-010 (10')** <--->  
**SVC-PHH-020 (20')** <--->  
**SVC-PHH-030 (30')** <--->  
**SVC-PHH-060 (60')** <--->

### Motor Encoder Cable (1)

**4.**

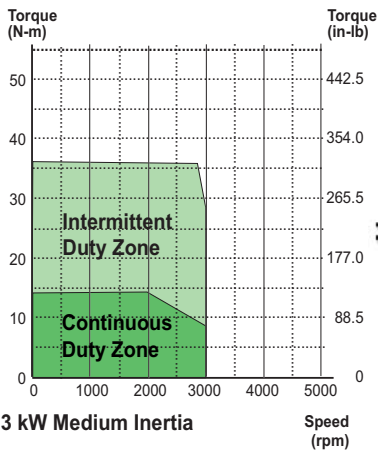
**SVC-EHH-010 (10')** <--->  
**SVC-EHH-020 (20')** <--->  
**SVC-EHH-030 (30')** <--->  
**SVC-EHH-060 (60')** <--->

### ZIPLink Kit for CN1

**5.**

**ASD-BM-50A** <--->

## 3 kW Medium Inertia System



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



**Servo Drive**  
**SVA-2300** <--->

### SureServo Motor

**2.**

**SVM-230** <--->  
**SVM-230B (w/brake)** <--->

### Motor Power Cable (1)

**3.**

**SVC-PHH-010 (10')** <--->  
**SVC-PHH-020 (20')** <--->  
**SVC-PHH-030 (30')** <--->  
**SVC-PHH-060 (60')** <--->

### Motor Encoder Cable (1)

**4.**

**SVC-EHH-010 (10')** <--->  
**SVC-EHH-020 (20')** <--->  
**SVC-EHH-030 (30')** <--->  
**SVC-EHH-060 (60')** <--->

### ZIPLink Kit for CN1

**5.**

**ASD-BM-50A** <--->

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

- PLC Overview
- DL05/06 PLC
- DL105 PLC
- DL205 PLC
- DL305 PLC
- DL405 PLC
- Field I/O
- Software
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- Circuit Protection
- Enclosures
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- Part Index