



Basic SR Series Parameter Settings for Allen-Bradley/Electro-Craft Drives			
		SR21	SR31, 41
Integral Thermostat		Note 2	Note 2
Number of Poles		8	8
Thermal Time Constant	Seconds	780	780
Maximum Speed	RPM	5000	3000
$J_m$	Kg-cm <sup>2</sup>	**	**
Encoder Line Count	Lines	2048	2048
Index Offset	Degrees	0	0
Hall Offset	Degrees	240	240
Startup Commutation		Hall/Hall	Hall/Hall
Current Feed forward	Degrees/KRPM	0	0

\*\* See Inertia Table in Section 7.0

(1) Appropriate motor files may be obtained from Exlar and downloaded to DDM-XXX drives. Changes to motor parameters require the advanced option for BRU Master or Ultra Master. Add /a to the command line of shortcut for the BRU Master or Ultra Master software to enable the advanced option. These Parameters and others specific to each motor winding are included in the motor file listed in the table in section 7.0.

(2) Set to "yes" if TS+ and TS- from the motor cable are connected to J2 pins 19 and 20.

(3) Voltage is 0 – peak of sinusoid, measured phase-to-phase

(4) Current is 0 – peak of sinusoid

### CABLES FOR A-B / E-C DDM-XXX DRIVE AND SR SERIES ACTUATORS (S CONNECTOR OPTION)

Refer to the diagram at the beginning of Section 7.3. The required cables are identified in the table below.

Encoder Cable EC4-MC-XXX			
AB1 Amplifier Function	Motor Feedback Pin	EC4 Cable Colors	J2 Connector AB-9101-1366
Motor Overtemp	A	Red/Green	19
A+	B	Blue	7
A-	C	Orange	8
GND	D, T	N/C	N/C
Hall C	E	White/Brown	15
Hall B	F	White/Gray	14
Hall A	G	Red/Orange	13
	H	Orange/Red	N/C
	J		
EPWR	K, L	Red/Blue	
EPWR	L, K		
Z	M	Black	11
B -	N	Green	10
B+	P	Brown	9
	R	Brown/White	N/C
	S	Gray/White	N/C
GND	T, D	Blue/Red	2, 46, 20
Z-	U	Yellow	12
Motor Overtemp	V	Green/Red	
	W		
	X		
	Y		
Shield	Z		

SR21, SR31 - AB1-S Options			
Exlar Connector Pin Number	Drive Connection	Mating Cable PC6 No Brake	Alternate PC1 With Brake
A	R	Brown	Red
B	S	Black	Black
C	T	Blue	Blue
D	GND	Green/Yellow	Green
E			
F	Brake -		Blue/White
G	Brake +		Blue
H			
J			

SR41 - AB1-S Options			
Exlar Connector Pin Number	Drive Connection	Mating Cable PC7-MC No Brake	Alternate PC7-AC With Brake
A	R	Brown	Red
B	S	Black	Black
C	T	Blue	Blue
D	GND	Green/Yellow	Green
E			
F	Brake -		Blue/White
G	Brake +		Blue
H			
J			