

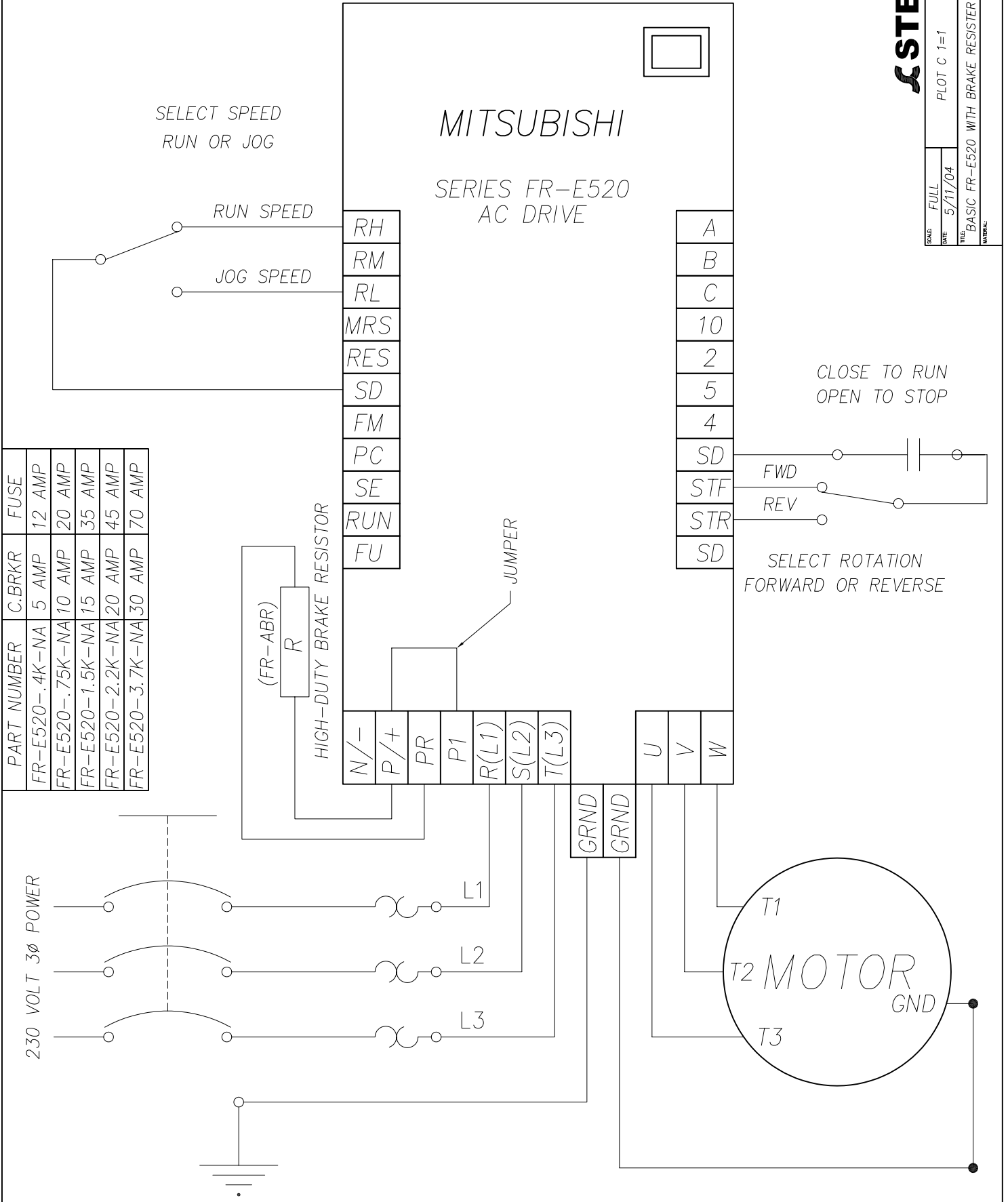
Stelron Components Inc.
Simplified Wiring
Recommended Set Up
For Mitsubishi FR-E500 Series Inverter

PAGE 1	230V 3 Phase AC Wiring
PAGE 2	460V 3 Phase AC Wiring
PAGE 3	Programming Setup
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REFER TO MITSUBISHI FR-E500 INSTRUCTION MANUAL FOR COMPLETE WIRING INFORMATION
(REFER TO PAGE 21 FOR TERMINAL BLOCK LAYOUT)

STELTRON		SCALE: FULL	DRAWN BY: DFS
		DATE: 5/11/04	REVISED:
		TITLE: BASIC FR-E520 WITH BRAKE RESISTOR	SERIAL NO.:
		DRAWING NO.:	DRAWING NO.:
		FRE520-BRAKE	

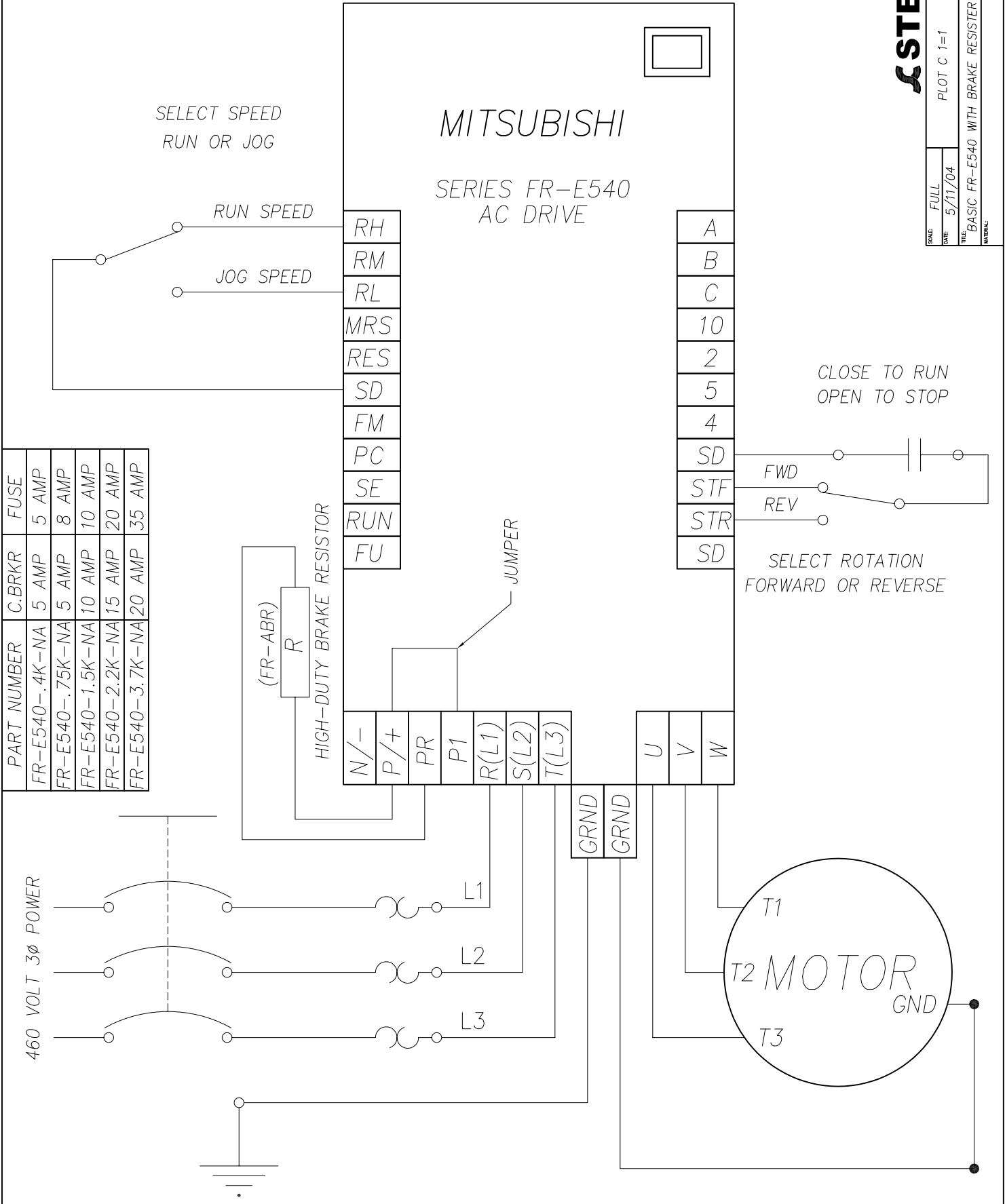
PART NUMBER	C.BRKR	FUSE
FR-E520-.4K-NA	5 AMP	12 AMP
FR-E520-.75K-NA	10 AMP	20 AMP
FR-E520-1.5K-NA	15 AMP	35 AMP
FR-E520-2.2K-NA	20 AMP	45 AMP
FR-E520-3.7K-NA	30 AMP	70 AMP



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(REFER TO PAGE 21 FOR TERMINAL BLOCK LAYOUT)

STELRON		SCALE: FULL	DRAWN BY: DFS
		DATE: 5/11/04	REVISED:
		TITLE: BASIC FR-E540 WITH BRAKE RESISTOR	SERIAL NO.:
		DRAWING NO.:	DRAWING NO. FRE540-BRAKE

PART NUMBER	C.BRKR	FUSE
FR-E540-.4K-NA	5 AMP	5 AMP
FR-E540-.75K-NA	5 AMP	8 AMP
FR-E540-1.5K-NA	10 AMP	10 AMP
FR-E540-2.2K-NA	15 AMP	20 AMP
FR-E540-3.7K-NA	20 AMP	35 AMP



Stelron Recommended Simplified Setup Mitsubishi Inverter Drives

The following is a list of the parameters that we recommend setting on the Mitsubishi inverters. They can be verified and modified using the programming panel. We recommend using the high, medium and low speed contacts for speed control. The setting for normal run speed should be the high-speed contact. The setting for the low-speed contact should be a jog speed (10 HZ). The setting for accel/decel times is a starting point and can be increased or decreased but should not be less than (.2) seconds. Refer to Mitsubishi inverter control manual supplied with the control for wiring. Refer to Mitsubishi inverter control manual for other programming and control options.

Parameter number	Setting	Units	Description
79	0	None	Mode
21	1	None	Time Increment Accel.
1	60	Hz	Maximum Frequency
2	0	Hz	Minimum Frequency
4	Hz normal running	Hz	High Speed
5	Hz for ½ run speed	Hz	Medium Speed
6	10	Hz	Low Speed
7	.4	Seconds	Acceleration Time
8	.4	Seconds	Deceleration Time
9	Motor nameplate rating	Amps	Motor Rated Amps
71	3	None	Std Motor Type
80	Motor nameplate rating	Kilowatts	Motor Rated KW
83	Motor nameplate rating	Volts	Motor Rated Voltage
96	1	None	Auto Tune
30	1	None	Regenerative select
70	10	%	Brake duty

After setting the parameters in the above table refer to the Mitsubishi FR-E500 manual pages 114-118 to execute the auto tuning procedure. Parameter number 96 is set to 3 by the auto tuning procedure. Parameter number 96 should be changed back to 0 for normal running. The auto tune parameters will be retained by the FR-E500.

Stelron Recommended Simplified Setup Mitsubishi Inverter Drives (For 2nd Acc-Dec)

The following is a list of the parameters that we recommend setting on the Mitsubishi inverters. They can be verified and modified using the programming panel. We recommend using the high, medium and low speed contacts for speed control. The setting for normal run speed should be the high-speed contact. The setting for the low-speed contact should be a jog speed (10 HZ). The setting for accel/decel times is a starting point and can be increased or decreased but should not be less than (.2) seconds. Refer to Mitsubishi inverter control manual supplied with the control for wiring. Refer to Mitsubishi inverter control manual for other programming and control options.

Parameter number	Setting	Units	Description
79	0	None	Mode
21	1	None	Time Increment Accel.
1	60	Hz	Maximum Frequency
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4	Hz normal running	Hz	High Speed
5	Hz for ½ run speed	Hz	Medium Speed
6	10	Hz	Low Speed
7	.4	Seconds	Acceleration Time
8	.4	Seconds	Deceleration Time
9	Motor nameplate rating	Amps	Motor Rated Amps
71	3	None	Std Motor Type
80	Motor nameplate rating	Kilowatts	Motor Rated KW
83	Motor nameplate rating	Volts	Motor Rated Voltage
96	1	None	Auto Tune
30	1	None	Regenerative select
70	10	%	Brake duty
*44	1	Seconds	2 nd acceleration time
*45	1	Seconds	2 nd deceleration time
*183	3	Reassign contact	Reassigns MRS to RT

* These parameters are used for assigning and using a second acceleration /deceleration rates. To select the second acceleration/deceleration rates short “MRS” contact to “SD” (“MRS” will be reassigned to “RT”).

After setting the parameters in the above table refer to the Mitsubishi FR-E500 manual pages 114-118 to execute the auto tuning procedure. Parameter number 96 is set to 3 by the auto tuning procedure. Parameter number 96 should be changed back to 0 for normal running. The auto tune parameters will be retained by the FR-E500.