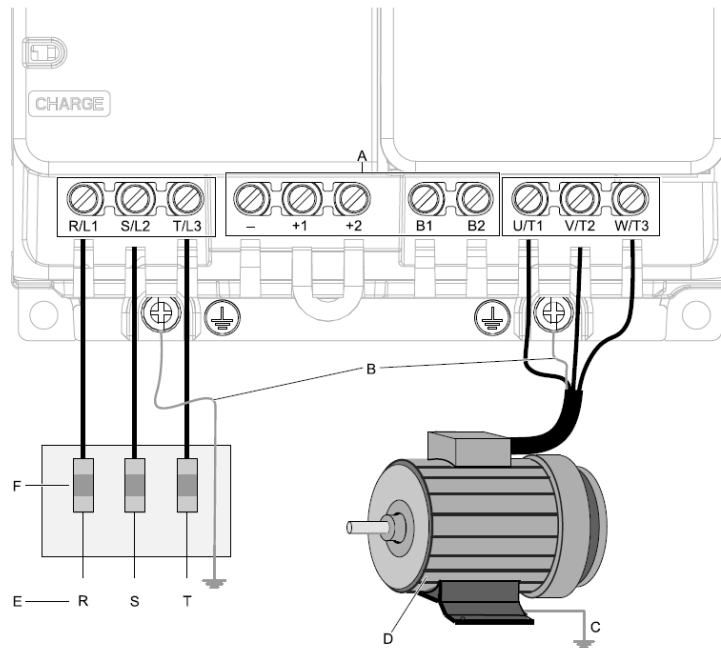


## ◆ Motor and Main Circuit Connections

**WARNING!** Electrical Shock Hazard. Do not connect terminals R/L1, S/L2, T/L3, L/L1, N/L2, U/T1, V/T2, W/T3, -, +1, +2, B1, B2 to the ground terminal. If you connect these terminals to earth ground, it can cause damage to the drive or serious injury or death.



### Note:

The locations of terminals are different for different drive models.

A - DC bus terminal

B - Connect to the drive ground terminal.

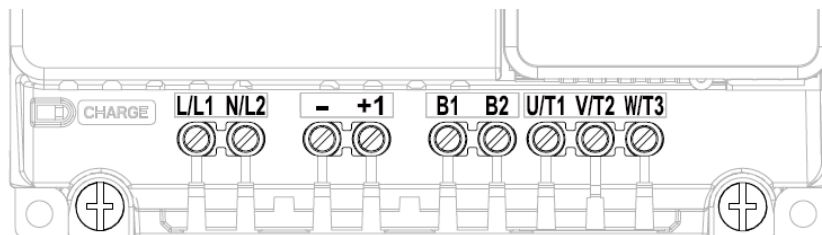
C - Ground the motor case.

D - Three-Phase Motor

E - Use terminals R/L1, S/L2, and T/L3 for three-phase power supply input. Use terminals L/L1 and N/L2 for single-phase power supply input.

F - Input Protection (Fuses or Circuit Breakers)

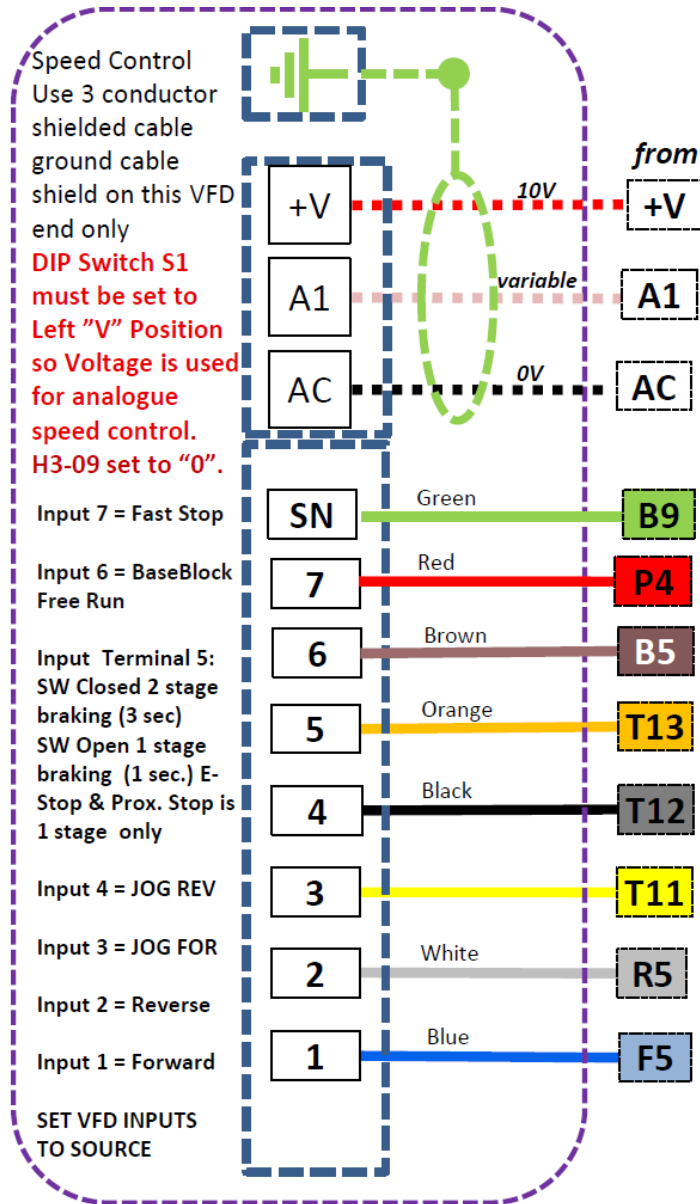
## Single Phase Input VFD



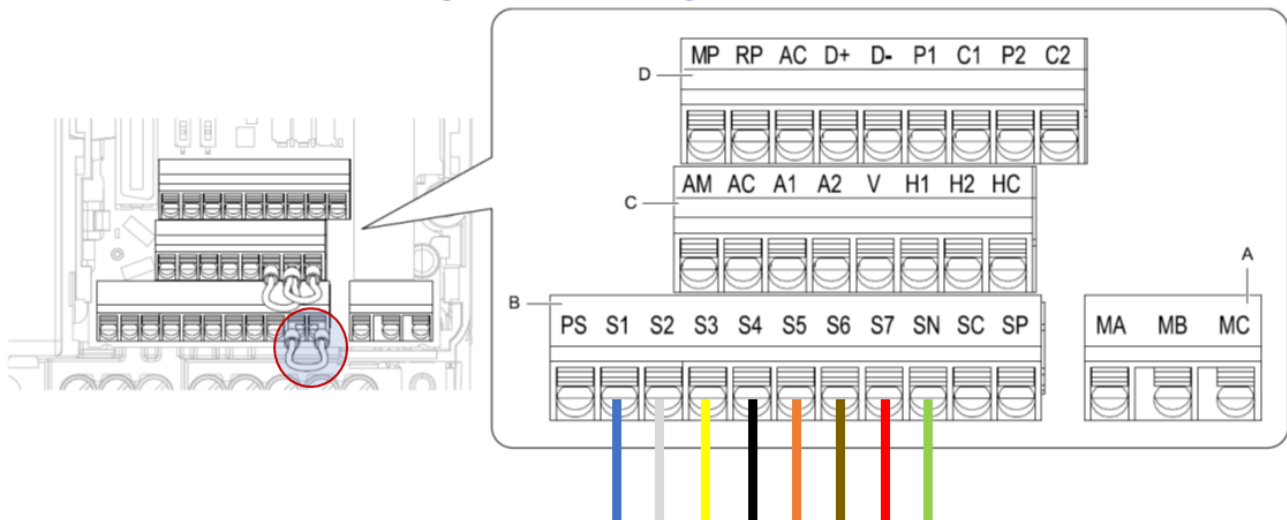
## Braking Resistor connects to B1 and B2



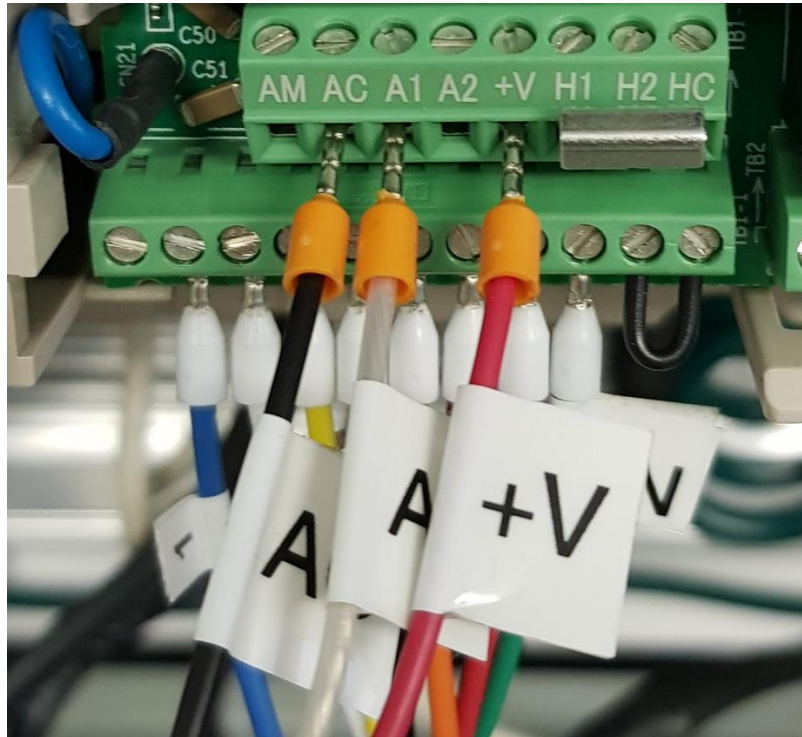
Typical control input connection for Sink or Source mode, do not use logic diodes for Sink configuration.



The control circuit terminals are in the positions shown in Figure 3.38.



### Speed Control Connections



### Yaskawa Software Download

Please click on the link(s) below to download the file(s).

Please click on the link to download: [DriveWizard Industrial - GA800, A1000, P1000, U1000, GA500, V1000, J1000, D1000, R1000, F7, G7, P7](#)

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Helpful information:

[Obtaining, Installing, and Using DriveWizard Industrial Software](#)

<https://www.yaskawa.com/products/drives/industrial-ac-drives/industrial-software-tools/drivewizard-industrial/-/content/9c662f0e-c82d-4dfd-b240-f2c0de6e7bdb> Features

Run the motor Autotune through the software after all programming has been performed, remove the belt from the motor before running the Autotune.

## Parameter Settings Changes are in RED

### Program (Drive Selected / Connected):

Drive Type / Model: GA500 CIPR-GA50\*B012\*\*\*\*

Software: 01016

Project: 1440GT

User:

Parameter	Value	Information	Default Setting
<b><u>A1 Initialization</u></b>			
*A1-01 Access Level Selection... [M]	3	Expert Level	2
A1-02 Control Method Selection	2	Open Loop Vector	2
A1-03 Initialize Parameters	0	No Initialization	0
A1-04 Password	0		0
A1-05 Password Setting	0		0
A1-06 Application Preset	0	General-purpose	0
A1-07 DriveWorksEZ Function Selection	0	DWEZ Disabled	0
A1-11 Firmware Update Lock	0	Disabled	0
A1-12 Bluetooth ID	0		0
<b><u>A2 User Parameters</u></b>			
A2-01 User Parameter 1	A1-02	Control Method Selection	A1-02
A2-02 User Parameter 2	b1-01	Frequency Reference Selection 1	b1-01
A2-03 User Parameter 3	b1-02	Run Command Selection 1	b1-02
A2-04 User Parameter 4	b1-03	Stopping Method Selection	b1-03
A2-05 User Parameter 5	C1-01	Acceleration Time 1	C1-01
A2-06 User Parameter 6	C1-02	Deceleration Time 1	C1-02
A2-07 User Parameter 7	C6-01	Normal / Heavy Duty Selection	C6-01
A2-08 User Parameter 8	C6-02	Carrier Frequency Selection	C6-02
A2-09 User Parameter 9	d1-01	Reference 1	d1-01
A2-10 User Parameter 10	d1-02	Reference 2	d1-02
A2-11 User Parameter 11	d1-03	Reference 3	d1-03
A2-12 User Parameter 12	d1-04	Reference 4	d1-04
A2-13 User Parameter 13	d1-17	Jog Reference	d1-17
A2-14 User Parameter 14	E1-01	Input AC Supply Voltage	E1-01
A2-15 User Parameter 15	E1-03	V/f Pattern Selection	E1-03
A2-16 User Parameter 16	E1-04	Maximum Output Frequency	E1-04
A2-17 User Parameter 17	E1-05	Maximum Output Voltage	E1-05
A2-18 User Parameter 18	E1-06	Base Frequency	E1-06
A2-19 User Parameter 19	E1-09	Minimum Output Frequency	E1-09
A2-20 User Parameter 20	E1-13	Base Voltage	E1-13
A2-21 User Parameter 21	E2-01	Motor Rated Current (FLA)	E2-01
A2-22 User Parameter 22	E2-04	Motor Pole Count	E2-04
A2-23 User Parameter 23	E2-11	Motor Rated Power	E2-11

Parameter		Value	Information	Default Setting
A2-24	User Parameter 24	H4-02	Terminal AM Analog Output Gain	H4-02
A2-25	User Parameter 25	L1-01	Motor Overload (oL1) Protection	L1-01
A2-26	User Parameter 26	L3-04	Stall Prevention during Decel	L3-04
A2-27	User Parameter 27	----		----
A2-28	User Parameter 28	----		----
A2-29	User Parameter 29	----		----
A2-30	User Parameter 30	----		----
A2-31	User Parameter 31	----		----
A2-32	User Parameter 32	----		----
A2-33	User Parameter Auto Selection	0	Disabled: Manual Entry Required	0
<b><u>b1 Operation Mode Selection</u></b>				
b1-01	Frequency Reference Selection 1	1	Analog Input	1
b1-02	Run Command Selection 1	1	Digital Input	1
b1-03	Stopping Method Selection	0	Ramp to Stop	0
b1-04	Reverse Operation Selection	0	Reverse Enabled	0
b1-06	Digital Input Reading	1	Double Scan	1
b1-07	LOCAL/REMOTE Run Selection	0	Disregard Existing RUN Command	0
b1-08	Run Command Select in PRG Mode	0	Disregard RUN while Programming	0
b1-09	LOCAL/REMOTE Select during RUN	0	Disabled	0
b1-14	Phase Order Selection	0	Standard	0
b1-15	Frequency Reference Selection 2	0	Keypad	0
b1-16	Run Command Selection 2	0	Keypad	0
b1-17	Run Command at Power Up	0	Disregard Existing RUN Command	0
b1-35	Digital Input Deadband Time	0.0 ms		0.0 ms
<b><u>b2 DC Inj / Short Ckt Braking</u></b>				
b2-01	DC Injection/Zero SpeedThreshold	0.5 Hz		0.5 Hz
b2-02	DC Injection Braking Current	50 %		50 %
b2-03	DC Inject Braking Time at Start	0.00 sec		0.00 sec
b2-04	DC Inject Braking Time at Stop	0.50 sec		0.50 sec
b2-08	Magnetic Flux Compensation Value	0 %		0 %
<b><u>b3 Speed Search</u></b>				
b3-01	Speed Search at Start Selection	0	Disabled	0
b3-02	SpeedSearch Deactivation Current	100 %		100 %
*b3-03	Speed Search Deceleration Time... [M]	0.1 sec		2.0 sec
*b3-05	Speed Search Delay Time... [M]	0.1 sec		0.2 sec
b3-06	Speed Estimation Current Level 1	0.5		0.5
b3-07	Speed Estimation Current Level 2	1.0		1.0
b3-08	Speed Estimation ACR P Gain	0.50		0.50
b3-09	Speed Estimation ACR I Time	2.0 ms		2.0 ms
b3-10	Speed Estimation Detection Gain	1.05		1.05
b3-14	Bi-directional Speed Search	0	Disabled	0
b3-17	Speed Est Retry Current Level	150 %		150 %
b3-18	Speed Est Retry Detection Time	0.10 sec		0.10 sec
b3-19	Speed Search Restart Attempts	3		3
b3-24	Speed Search Method Selection	2	Current Detection 2	2
b3-25	Speed Search Wait Time	0.5 sec		0.5 sec
b3-26	Direction Determination Level	1000		1000
b3-31	Spd Search Current Reference Lvl	1.50		1.50
b3-32	Spd Search Current Complete Lvl	1.20		1.20
b3-33	Speed Search during Uv Selection	1	Enabled	1
b3-39	Regen Judgment Lv of Spd Search	15 %		15 %
b3-56	InverseRotationSearch WaitTime	0.5 sec		0.5 sec
<b><u>b4 Timer Function</u></b>				

Parameter	Value	Information	Default Setting
b4-01	Timer Function ON-Delay Time	0.0 sec	0.0 sec
b4-02	Timer Function OFF-Delay Time	0.0 sec	0.0 sec
b4-03	Terminal MA,MB,MC ON-Delay Time	0 ms	0 ms
b4-04	Terminal MA,MB,MC OFF-Delay Time	0 ms	0 ms
b4-05	Terminal P1 ON-Delay Time	0 ms	0 ms
b4-06	Terminal P1 OFF-Delay Time	0 ms	0 ms
b4-07	Terminal P2 ON-Delay Time	0 ms	0 ms
b4-08	Terminal P2 OFF-Delay Time	0 ms	0 ms
<b><u>b5 PID Control</u></b>			
b5-01	PID Mode Setting	0 Disabled	0
b5-02	Proportional Gain (P)	1.00	1.00
b5-03	Integral Time (I)	1.0 sec	1.0 sec
b5-04	Integral Limit	100.0 %	100.0 %
b5-05	Derivative Time (D)	0.00 sec	0.00 sec
b5-06	PID Output Limit	100.0 %	100.0 %
b5-07	PID Offset Adjustment	0.0 %	0.0 %
b5-08	PID Primary Delay Time Constant	0.00 sec	0.00 sec
b5-09	PID Output Level Selection	0 Normal Output (Direct Acting)	0
b5-10	PID Output Gain Setting	1.00	1.00
b5-11	PID Output Reverse Selection	0 Lower Limit is Zero	0
b5-12	Feedback Loss Detection Select	0 Digital Out Only, Always Detect	0
b5-13	PID Feedback Loss Detection Lvl	0 %	0 %
b5-14	PID Feedback Loss Detection Time	1.0 sec	1.0 sec
b5-15	PID Sleep Function Start Level	0.0 Hz	0.0 Hz
b5-16	PID Sleep Delay Time	0.0 sec	0.0 sec
b5-17	PID Accel/Decel Time	0.0 sec	0.0 sec
b5-18	b5-19 PID Setpoint Selection	0 Disabled	0
b5-19	PID Setpoint Value	0.00 %	0.00 %
b5-20	PID Unit Selection	1 0.01% units	1
b5-34	PID Output Lower Limit Level	0.0 %	0.0 %
b5-35	PID Input Limit Level	1000.0 %	1000.0 %
b5-36	PID High Feedback Detection Lvl	100 %	100 %
b5-37	PID High Feedback Detection Time	1.0 sec	1.0 sec
b5-40	Frequency Reference Monitor @PID	0 U1-01 Includes PID Output	0
b5-47	PID Trim Mode Output Reverse Sel	1 Negative Output Accepted	1
b5-53	PID Integrator Ramp Limit	0.0 Hz	0.0 Hz
b5-55	PID Feedback Monitor Selection	0 Not Used	0
b5-56	PID Feedback Monitor Gain	1.00	1.00
b5-57	PID Feedback Monitor Bias	0.00	0.00
b5-58	PID Setpoint 2	0.00 %	0.00 %
b5-59	PID Setpoint 3	0.00 %	0.00 %
b5-60	PID Setpoint 4	0.00 %	0.00 %
b5-61	PID Trim Mode Lower Limit Sel	0 Disabled	0
b5-62	PID Trim Mode Lower Limit Value	0.00 %	0.00 %
b5-63	PID Differential FB Monitor Sel	0 Not Used	0
b5-64	PID Differential FB Monitor Gain	1.00	1.00
b5-65	PID Differential FB Monitor Bias	0.00	0.00
b5-66	PID Feedback Monitor Level	0 Absolute	0
b5-67	PID Differential FB Monitor Lvl	0 Absolute	0
b5-89	Sleep Method Selection	0 Standard	0
b5-90	EZ Sleep Unit	0 0.1Hz units	0
b5-91	EZ Sleep Minimum Speed	0.0 Hz	0.0 Hz
b5-92	EZ Sleep Level	0.0 Hz	0.0 Hz

Parameter	Value	Information	Default Setting
b5-93 EZ Sleep Time	5.0 sec		5.0 sec
b5-94 EZ Sleep Wake-up Level	0.00 %		0.00 %
b5-95 EZ Sleep Wake-up Mode	0	Absolute	0
b5-96 EZ Sleep Wake-up Time	1.0 sec		1.0 sec
<b><u>b6 Dwell Function</u></b>			
b6-01 Dwell Reference at Start	0.0 Hz		0.0 Hz
b6-02 Dwell Time at Start	0.0 sec		0.0 sec
b6-03 Dwell Reference at Stop	0.0 Hz		0.0 Hz
b6-04 Dwell Time at Stop	0.0 sec		0.0 sec
<b><u>b8 Energy Saving</u></b>			
b8-01 Energy Saving Control Selection	0	Disabled	0
b8-02 Energy Saving Gain	0.7		0.7
b8-03 Energy Saving Filter Time	0.50 sec		0.50 sec
<b><u>C1 Accel &amp; Decel Time</u></b>			
*C1-01 Acceleration Time 1... [M]	2.50 sec		10.00 sec
*C1-02 Deceleration Time 1... [M]	1.00 sec		10.00 sec
*C1-03 Acceleration Time 2... [M]	2.50 sec		10.00 sec
*C1-04 Deceleration Time 2... [M]	1.80 sec		10.00 sec
C1-05 Acceleration Time 3	10.00 sec		10.00 sec
C1-06 Deceleration Time 3	10.00 sec		10.00 sec
C1-07 Acceleration Time 4	10.00 sec		10.00 sec
C1-08 Deceleration Time 4	10.00 sec		10.00 sec
*C1-09 Fast Stop Time... [M]	0.90 sec		10.00 sec
*C1-10 Accel/Decel Time Setting Units... [M]	0	0.01 s (0.00 to 600.00 s)	1
C1-11 Accel/Decel Time Switchover Freq	0.0 Hz		0.0 Hz
C1-14 Accel/Decel Rate Frequency	0.0 Hz		0.0 Hz
<b><u>C2 S-Curve Characteristics</u></b>			
*C2-01 S-Curve Time @ Start of Accel... [M]	0.00 sec		0.20 sec
C2-02 S-Curve Time @ End of Accel	0.20 sec		0.20 sec
*C2-03 S-Curve Time @ Start of Decel... [M]	0.00 sec		0.20 sec
C2-04 S-Curve Time @ End of Decel	0.00 sec		0.00 sec
<b><u>C3 Slip Compensation</u></b>			
C3-01 Slip Compensation Gain	1.0		1.0
C3-02 Slip Compensation Delay Time	200 ms		200 ms
C3-03 Slip Compensation Limit	200 %		200 %
C3-04 Slip Compensation at Regen	0	Disabled	0
C3-05 Output Voltage Limit Selection	0	Disabled	0
C3-16 Vout Modulation Limit Start Lvl	90.0 %		90.0 %
C3-17 Vout Modulation Limit Max Level	100.0 %		100.0 %
C3-18 Output Voltage Limit Level	90.0 %		90.0 %
<b><u>C4 Torque Compensation</u></b>			
C4-01 Torque Compensation Gain	1.00		1.00
C4-02 Torque Compensation Delay Time	20 ms		20 ms
C4-03 Torque Compensation @ FWD Start	0.0 %		0.0 %
C4-04 Torque Compensation @ REV Start	0.0 %		0.0 %
C4-05 Torque Compensation Time	10 ms		10 ms
C4-06 Motor 2 Torque Comp Delay Time	150 ms		150 ms
<b><u>C5 Auto Speed Regulator (ASR)</u></b>			
C5-29 Speed Control Response	1	High Performance 1	1
<b><u>C6 Duty &amp; Carrier Frequency</u></b>			
C6-01 Normal / Heavy Duty Selection	1	Normal Duty Rating	1
C6-02 Carrier Frequency Selection	07	Swing PWM1 (Audible Sound 1)	07
C6-09 Carrier Freq at Rotational Tune	0	5kHz	0



Parameter	Value	Information	Default Setting
<b><u>d1 Frequency Reference</u></b>			
d1-01 Reference 1	0.00 Hz		0.00 Hz
d1-02 Reference 2	0.00 Hz		0.00 Hz
d1-03 Reference 3	0.00 Hz		0.00 Hz
d1-04 Reference 4	0.00 Hz		0.00 Hz
d1-05 Reference 5	0.00 Hz		0.00 Hz
d1-06 Reference 6	0.00 Hz		0.00 Hz
d1-07 Reference 7	0.00 Hz		0.00 Hz
d1-08 Reference 8	0.00 Hz		0.00 Hz
d1-09 Reference 9	0.00 Hz		0.00 Hz
d1-10 Reference 10	0.00 Hz		0.00 Hz
d1-11 Reference 11	0.00 Hz		0.00 Hz
d1-12 Reference 12	0.00 Hz		0.00 Hz
d1-13 Reference 13	0.00 Hz		0.00 Hz
d1-14 Reference 14	0.00 Hz		0.00 Hz
d1-15 Reference 15	0.00 Hz		0.00 Hz
d1-16 Reference 16	0.00 Hz		0.00 Hz
d1-17 Jog Reference	6.00 Hz		6.00 Hz
<b><u>d2 Reference Limits</u></b>			
d2-01 Frequency Reference Upper Limit	100.0 %		100.0 %
<b>*d2-02 Frequency Reference Lower Limit... [M]</b>	<b>6.7 %</b>	<b>Sets lower Freq. to ~15 Hz</b>	<b>0.0 %</b>
d2-03 Analog Frequency Ref Lower Limit	0.0 %		0.0 %
<b><u>d3 Jump Frequency</u></b>			
d3-01 Jump Frequency 1	0.0 Hz		0.0 Hz
d3-02 Jump Frequency 2	0.0 Hz		0.0 Hz
d3-03 Jump Frequency 3	0.0 Hz		0.0 Hz
d3-04 Jump Frequency Width	1.0 Hz		1.0 Hz
<b><u>d4 Frequency Ref Up/Down &amp; Hold</u></b>			
d4-01 Freq Reference Hold Selection	0	Disabled	0
d4-03 Up/Down 2 Bias Step Frequency	0.00 Hz		0.00 Hz
d4-04 Up/Down 2 Ramp Selection	0	Use Selected Accel/Decel Time	0
d4-05 Up/Down 2 Bias Mode Selection	0	Hold when Neither Up/Down Closed	0
d4-06 Frequency Ref Bias (Up/Down 2)	0.0 %		0.0 %
d4-07 Analog Freq Ref Fluctuate Limit	1.0 %		1.0 %
d4-08 Up/Down 2 Bias Upper Limit	100.0 %		100.0 %
d4-09 Up/Down 2 Bias Lower Limit	0.0 %		0.0 %
d4-10 Up/Down Freq Lower Limit Select	0	Greater of d2-02 or Analog	0
<b><u>d6 Field Weakening /Forcing</u></b>			
d6-03 Field Forcing Selection	0	Disabled	0
d6-06 Field Forcing Limit	400 %		400 %
<b><u>d7 Offset Frequency</u></b>			
d7-01 Offset Frequency 1	0.0 %		0.0 %
d7-02 Offset Frequency 2	0.0 %		0.0 %
d7-03 Offset Frequency 3	0.0 %		0.0 %
<b><u>E1 V/f Pattern for Motor 1</u></b>			
E1-01 Input AC Supply Voltage	240 VAC		240 VAC
E1-03 V/f Pattern Selection	0F	Custom	0F
<b>*E1-04 Maximum Output Frequency... [M]</b>	<b>90.0 Hz</b>	<b>Sets Maximum Freq to 90 Hz</b>	<b>60.0 Hz</b>
E1-05 Maximum Output Voltage	230.0 VAC		230.0 VAC
E1-06 Base Frequency	60.0 Hz		60.0 Hz
E1-07 Mid Point A Frequency	3.0 Hz		3.0 Hz
E1-08 Mid Point A Voltage	13.8 VAC		13.8 VAC
E1-09 Minimum Output Frequency	0.5 Hz		0.5 Hz



Parameter		Value	Information	Default Setting
E1-10	Minimum Output Voltage	2.9 VAC		2.9 VAC
E1-11	Mid Point B Frequency	0.0 Hz		0.0 Hz
E1-12	Mid Point B Voltage	0.0 VAC		0.0 VAC
E1-13	Base Voltage	0.0 VAC		0.0 VAC
<b><u>E2 Motor Parameters</u></b>				
<b>*E2-01</b>	<b>Motor Rated Current (FLA)... [M]</b>	<b>9.60 A</b>	<b>Set to Motor Name Plate Amps</b>	<b>11.40 A</b>
E2-02	Motor Rated Slip	2.700 Hz		2.700 Hz
E2-03	Motor No-Load Current	3.70 A		3.70 A
E2-04	Motor Pole Count	4		4
E2-05	Motor Line-to-Line Resistance	1.034 $\Omega$		1.034 $\Omega$
E2-06	Motor Leakage Inductance	19.0 %		19.0 %
E2-07	Motor Saturation Coefficient 1	0.50		0.50
E2-08	Motor Saturation Coefficient 2	0.75		0.75
E2-09	Motor Mechanical Loss	0.0 %		0.0 %
E2-11	Motor Rated Power	3.00 HP		3.00 HP
<b><u>F6 Communication Options</u></b>				
F6-01	Communication Error Selection	1	Coast to Stop	1
F6-02	Comm External Fault (EF0) Detect	0	Always Detected	0
F6-03	Comm External Fault (EF0) Select	1	Coast to Stop	1
F6-04	bUS Error Detection Time	2.0 sec		2.0 sec
F6-06	Torque Limit by Comm. Option	0	Disabled	0
F6-07	Multi-Step Ref @ NetRef/ComRef	1	Enable Multi-Step References	1
F6-08	Comm Parameter Reset @Initialize	0	No Reset - Parameters Retained	0
F6-10	CC-Link Node Address	0		0
F6-11	CC-Link Communication Speed	0	156 kbps	0
F6-14	BUS Error Auto Reset	0	Disabled	0
F6-15	Comm. Option Parameters Reload	0	Reload at Next Power Cycle	0
F6-16	Gateway Mode	0	Disabled	0
F6-20	MECHATROLINK Station Address	21		21
F6-21	MECHATROLINK Frame Size	0	32byte (M-2) / 64byte (M-3)	0
F6-22	MECHATROLINK Link Speed	0	10 Mbps	0
F6-23	MECHATROLINK Monitor Select (E)	0000		0000
F6-24	MECHATROLINK Monitor Select (F)	0000		0000
F6-25	MECHATROLINK Watchdog Error Sel	1	Coast to Stop	1
F6-26	MECHATROLINK Allowable No of Err	2		2
F6-30	PROFIBUS-DP Node Address	0		0
F6-31	PROFIBUS-DP Clear Mode Selection	0	Reset	0
F6-32	PROFIBUS-DP Data Format Select	0	PPO Type	0
F6-35	CANopen Node ID Selection	0		0
F6-36	CANopen Communication Speed	6	500 kbps	6
F6-50	DeviceNet MAC Address	64		64
F6-51	DeviceNet Baud Rate	4	Detect Automatically	4
F6-52	DeviceNet PCA Setting	21		21
F6-53	DeviceNet PPA Setting	71		71
F6-54	DeviceNet Idle Fault Detection	0	Enabled	0
F6-56	DeviceNet Speed Scaling	0		0
F6-57	DeviceNet Current Scaling	0		0
F6-58	DeviceNet Torque Scaling	0		0
F6-59	DeviceNet Power Scaling	0		0
F6-60	DeviceNet Voltage Scaling	0		0
F6-61	DeviceNet Time Scaling	0		0
F6-62	DeviceNet Heartbeat Interval	0		0
F6-64	Dynamic Out Assembly 109 Param1	0000		0000

Parameter		Value	Information	Default Setting
F6-65	Dynamic Out Assembly 109 Param2	0000		0000
F6-66	Dynamic Out Assembly 109 Param3	0000		0000
F6-67	Dynamic Out Assembly 109 Param4	0000		0000
F6-68	Dynamic In Assembly 159 Param 1	0000		0000
F6-69	Dynamic In Assembly 159 Param 2	0000		0000
F6-70	Dynamic In Assembly 159 Param 3	0000		0000
F6-71	Dynamic In Assembly 159 Param 4	0000		0000
F6-72	PowerLink Node Address	0		0
<b><u>F7 Ethernet Options</u></b>				
F7-01	IP Address 1	192		192
F7-02	IP Address 2	168		168
F7-03	IP Address 3	1		1
F7-04	IP Address 4	20		20
F7-05	Subnet Mask 1	255		255
F7-06	Subnet Mask 2	255		255
F7-07	Subnet Mask 3	255		255
F7-08	Subnet Mask 4	0		0
F7-09	Gateway Address 1	192		192
F7-10	Gateway Address 2	168		168
F7-11	Gateway Address 3	1		1
F7-12	Gateway Address 4	1		1
F7-13	Address Mode at Startup	2	DHCP	2
F7-14	Duplex Mode Selection	1	Auto/Auto	1
F7-15	Communication Speed Selection	10	10/10 Mbps	10
F7-16	Timeout Value	0.0 sec		0.0 sec
F7-17	EtherNet/IP Speed Scaling Factor	0		0
F7-18	EtherNet/IP Current Scale Factor	0		0
F7-19	EtherNet/IP Torque Scale Factor	0		0
F7-20	EtherNet/IP Power Scaling Factor	0		0
F7-21	EtherNet/IP Voltage Scale Factor	0		0
F7-22	EtherNet/IP Time Scaling	0		0
F7-23	Dynamic Out Param 1 for CommCard	0000		0000
F7-24	Dynamic Out Param 2 for CommCard	0000		0000
F7-25	Dynamic Out Param 3 for CommCard	0000		0000
F7-26	Dynamic Out Param 4 for CommCard	0000		0000
F7-27	Dynamic Out Param 5 for CommCard	0000		0000
F7-28	Dynamic Out Param 6 for CommCard	0000		0000
F7-29	Dynamic Out Param 7 for CommCard	0000		0000
F7-30	Dynamic Out Param 8 for CommCard	0000		0000
F7-31	Dynamic Out Param 9 for CommCard	0000		0000
F7-32	Dynamic Out Param 10 for ComCard	0000		0000
F7-33	Dynamic In Param 1 for CommCard	0000		0000
F7-34	Dynamic In Param 2 for CommCard	0000		0000
F7-35	Dynamic In Param 3 for CommCard	0000		0000
F7-36	Dynamic In Param 4 for CommCard	0000		0000
F7-37	Dynamic In Param 5 for CommCard	0000		0000
F7-38	Dynamic In Param 6 for CommCard	0000		0000
F7-39	Dynamic In Param 7 for CommCard	0000		0000
F7-40	Dynamic In Param 8 for CommCard	0000		0000
F7-41	Dynamic In Param 9 for CommCard	0000		0000
F7-42	Dynamic In Param 10 for CommCard	0000		0000
F7-60	PZD1 Write (Control Word)	0000		0000
F7-61	PZD2 Write (Frequency Reference)	0000		0000

Parameter	Value	Information	Default Setting
F7-62	PZD3 Write	0000	0000
F7-63	PZD4 Write	0000	0000
F7-64	PZD5 Write	0000	0000
F7-65	PZD6 Write	0000	0000
F7-66	PZD7 Write	0000	0000
F7-67	PZD8 Write	0000	0000
F7-68	PZD9 Write	0000	0000
F7-69	PZD10 Write	0000	0000
F7-70	PZD1 Read (Status Word)	0000	0000
F7-71	PZD2 Read (Output Frequency)	0000	0000
F7-72	PZD3 Read	0000	0000
F7-73	PZD4 Read	0000	0000
F7-74	PZD5 Read	0000	0000
F7-75	PZD6 Read	0000	0000
F7-76	PZD7 Read	0000	0000
F7-77	PZD8 Read	0000	0000
F7-78	PZD9 Read	0000	0000
F7-79	PZD10 Read	0000	0000
<b>H1 Digital Inputs</b>			
H1-01	Terminal S1 Function Selection	0040 Forward RUN (2-Wire)	0040
H1-02	Terminal S2 Function Selection	0041 Reverse RUN (2-Wire)	0041
<b>*H1-03</b>	<b>Terminal S3 Function Selection... [M]</b>	<b>0012 Forward Jog</b>	<b>0024</b>
<b>*H1-04</b>	<b>Terminal S4 Function Selection... [M]</b>	<b>0013 Reverse Jog</b>	<b>0014</b>
<b>*H1-05</b>	<b>Terminal S5 Function Selection... [M]</b>	<b>0007 Accel/Decel Time Selection 1</b>	<b>0003</b>
<b>*H1-06</b>	<b>Terminal S6 Function Selection... [M]</b>	<b>0008 Baseblock Command (N.O.)</b>	<b>0004</b>
<b>*H1-07</b>	<b>Terminal S7 Function Selection... [M]</b>	<b>0015 Fast Stop (N.O.)</b>	<b>0006</b>
H1-21	Terminal S1 Function Select 2	000F Not Used	000F
H1-22	Terminal S2 Function Select 2	000F Not Used	000F
H1-23	Terminal S3 Function Select 2	000F Not Used	000F
H1-24	Terminal S4 Function Select 2	000F Not Used	000F
H1-25	Terminal S5 Function Select 2	000F Not Used	000F
H1-26	Terminal S6 Function Select 2	000F Not Used	000F
H1-27	Terminal S7 Function Select 2	000F Not Used	000F
H1-40	Mbus Reg 15C0h bit0 Input Func	000F Not Used	000F
H1-41	Mbus Reg 15C0h bit1 Input Func	000F Not Used	000F
H1-42	Mbus Reg 15C0h bit2 Input Func	000F Not Used	000F
<b>H2 Digital Outputs</b>			
H2-01	Term MA,MB,MC Function Selection	000E Fault	000E
H2-02	Term P1 Function Selection	0000 During Run	0000
H2-03	Term P2 Function Selection	0002 Speed Agree 1	0002
H2-06	Watt Hour Output Unit Selection	0 0.1 kWh units	0
H2-07	Modbus Register 1 Address Select	0001	0001
H2-08	Modbus Register 1 Bit Select	0000	0000
H2-09	Modbus Register 2 Address Select	0001	0001
H2-10	Modbus Register 2 Bit Select	0000	0000
H2-20	Comparator 1 Monitor Selection	102 Output Frequency	102
H2-21	Comparator 1 Lower Limit	0.0 %	0.0 %
H2-22	Comparator 1 Upper Limit	0.0 %	0.0 %
H2-23	Comparator 1 Hysteresis	0.0 %	0.0 %
H2-24	Comparator 1 On-Delay Time	0.0 sec	0.0 sec
H2-25	Comparator 1 Off-Delay Time	0.0 sec	0.0 sec
H2-26	Comparator 2 Monitor Selection	103 Output Current	103
H2-27	Comparator 2 Lower Limit	0.0 %	0.0 %

Parameter		Value	Information	Default Setting
H2-28	Comparator 2 Upper Limit	0.0 %		0.0 %
H2-29	Comparator 2 Hysteresis	0.0 %		0.0 %
H2-30	Comparator 2 On-Delay Time	0.0 sec		0.0 sec
H2-31	Comparator 2 Off-Delay Time	0.0 sec		0.0 sec
H2-32	Comparator 1 Filter Time	0.0 sec		0.0 sec
H2-33	Comparator1 Protection Selection	4	Digital Output Only	4
H2-34	Comparator 2 Filter Time	0.0 sec		0.0 sec
H2-35	Comparator2 Protection Selection	4	Digital Output Only	4
H2-36	Comparator 1 Ineffective Time	0.0 sec		0.0 sec
H2-37	Comparator 2 Ineffective Time	0.0 sec		0.0 sec
H2-40	Mbus Reg 15E0h bit0 Output Func	000F	Not Used	000F
H2-41	Mbus Reg 15E0h bit1 Output Func	000F	Not Used	000F
H2-42	Mbus Reg 15E0h bit2 Output Func	000F	Not Used	000F
H2-60	Term MA,MB,MC Secondary Function	0F	Not Used	0F
H2-61	Term MA,MB,MC Logical Operation	0	A=B=1	0
H2-62	Term MA,MB,MC Minimum ON Time	0.1 sec		0.1 sec
H2-63	Terminal P1 Secondary Function	0F	Not Used	0F
H2-64	Terminal P1 Logical Operation	0	A=B=1	0
H2-65	Terminal P1 Minimum ON Time	0.1 sec		0.1 sec
H2-66	Terminal P2 Secondary Function	0F	Not Used	0F
H2-67	Terminal P2 Logical Operation	0	A=B=1	0
H2-68	Terminal P2 Minimum ON Time	0.1 sec		0.1 sec
<b><u>H3 Analog Inputs</u></b>				
H3-01	Terminal A1 Signal Level Select	0	0 to 10V (With Limit)	0
H3-02	Terminal A1 Function Selection	00	Frequency Reference	00
H3-03	Terminal A1 Gain Setting	100.0 %		100.0 %
<b>*H3-04</b>	<b>Terminal A1 Bias Setting... [M]</b>	<b>16.7 %</b>	<b>Sets speed pot "0" to 15 Hz (90 x .067)</b>	<b>0.0 %</b>
H3-09	Terminal A2 Signal Level Select	2	4 to 20 mA	2
H3-10	Terminal A2 Function Selection	00	Frequency Reference	00
H3-11	Terminal A2 Gain Setting	100.0 %		100.0 %
H3-12	Terminal A2 Bias Setting	0.0 %		0.0 %
H3-13	Analog Input FilterTime Constant	0.03 sec		0.03 sec
H3-14	Analog Input Terminal Enable Sel	7	Terminals A1 and A2	7
H3-16	Terminal A1 Offset	0		0
H3-17	Terminal A2 Offset	0		0
H3-40	Mbus Reg 15C1h Input Function	0F	Not Used	0F
H3-41	Mbus Reg 15C2h Input Function	0F	Not Used	0F
H3-42	Mbus Reg 15C3h Input Function	0F	Not Used	0F
H3-43	Mbus Reg Inputs FilterTime Const	0.00 sec		0.00 sec
<b><u>H4 Analog Outputs</u></b>				
H4-01	Terminal AM Analog Output Select	102	Output Frequency	102
H4-02	Terminal AM Analog Output Gain	100.0 %		100.0 %
H4-03	Terminal AM Analog Output Bias	0.0 %		0.0 %
H4-07	Terminal AM Signal Level Select	0	0 to 10 Vdc	0
H4-20	Analog Power Monitor 100% Level	0.00 kW		0.00 kW
<b><u>H5 Modbus Communication</u></b>				
H5-01	Drive Node Address	1F		1F
H5-02	Communication Speed Selection	3	9600 bps	3
H5-03	Communication Parity Selection	0	No parity	0
H5-04	Communication Error Stop Method	3	Alarm Only	3
H5-05	Comm Fault Detection Selection	1	Enabled	1
H5-06	Drive Transmit Wait Time	5 ms		5 ms
H5-09	CE Detection Time	2.0 sec		2.0 sec

Parameter		Value	Information	Default Setting
H5-10	Modbus Register 0025H Unit Sel	0	0.1 V units	0
H5-11	Comm ENTER Command Mode	1	ENTER Command Not Required	1
H5-12	Run Command Method Selection	0	FWD/Stop, REV/Stop	0
H5-17	ENTER command response @CPU BUSY	0	Ignore Command(No ROM/RAM Write)	0
H5-18	Motor Speed Filter over Comms	0 ms		0 ms
H5-20	Communication Parameters Reload	0	Reload at Next Power Cycle	0
H5-22	Speed Search from MODBUS	0	Disabled	0
H5-25	Function 5A Register 1 Selection	0044		0044
H5-26	Function 5A Register 2 Selection	0045		0045
H5-27	Function 5A Register 3 Selection	0042		0042
H5-28	Function 5A Register 4 Selection	0049		0049
<b><u>H6 Pulse Train Input/Output</u></b>				
H6-01	Terminal RP Pulse Train Function	0	Frequency Reference	0
H6-02	Terminal RP Frequency Scaling	1440 Hz		1440 Hz
H6-03	Terminal RP Function Gain	100.0 %		100.0 %
H6-04	Terminal RP Function Bias	0.0 %		0.0 %
H6-05	Terminal RP Filter Time	0.10 sec		0.10 sec
H6-06	Terminal MP Monitor Selection	102	Output Frequency	102
H6-07	Terminal MP Frequency Scaling	1440 Hz		1440 Hz
H6-08	Terminal RP Minimum Frequency	0.5 Hz		0.5 Hz
<b><u>H7 Virtual Inputs / Outputs</u></b>				
H7-00	Virtual MFIO selection	00	Disabled	00
H7-01	Virtual Multi-Function Input 1	000F	Not Used	000F
H7-02	Virtual Multi-Function Input 2	000F	Not Used	000F
H7-03	Virtual Multi-Function Input 3	000F	Not Used	000F
H7-04	Virtual Multi-Function Input 4	000F	Not Used	000F
H7-10	Virtual Multi-Function Output 1	000F	Not Used	000F
H7-11	Virtual Output 1 Delay Time	0.1 sec		0.1 sec
H7-12	Virtual Multi-Function Output 2	000F	Not Used	000F
H7-13	Virtual Output 2 Delay Time	0.1 sec		0.1 sec
H7-14	Virtual Multi-Function Output 3	000F	Not Used	000F
H7-15	Virtual Output 3 Delay Time	0.1 sec		0.1 sec
H7-16	Virtual Multi-Function Output 4	000F	Not Used	000F
H7-17	Virtual Output 4 Delay Time	0.1 sec		0.1 sec
H7-30	Virtual Analog Input Selection	0F	Not Used	0F
H7-31	Virtual Analog Input Gain	100.0 %		100.0 %
H7-32	Virtual Analog Input Bias	0.0 %		0.0 %
H7-40	Virtual Analog Out Signal Select	0	0 to 100 % (Absolute Value)	0
H7-41	Virtual Analog Output Function	102	Output Frequency	102
H7-42	Virtual Analog Output FilterTime	0.00 sec		0.00 sec
<b><u>L1 Motor Protection</u></b>				
L1-01	Motor Overload (oL1) Protection	2	Constant Torque 10:1 Speed Range	2
L1-02	Motor Overload Protection Time	1.0 min		1.0 min
L1-03	Motor Thermistor oH Alarm Select	3	Alarm Only	3
L1-04	Motor Thermistor oH Fault Select	1	Coast to Stop	1
L1-05	Motor Thermistor Filter Time	0.20 sec		0.20 sec
L1-08	oL1 Current Level	0.00 A		0.00 A
L1-13	Motor Overload Memory Selection	1	Enabled	1
<b><u>L2 Power Loss Ride Through</u></b>				
L2-01	Power Loss Ride Through Select	0	Disabled	0
L2-02	Power Loss Ride Through Time	0.5 sec		0.5 sec
L2-03	Minimum Baseblock Time	0.5 sec		0.5 sec
L2-04	Powerloss V/f Recovery Ramp Time	0.3 sec		0.3 sec

Parameter	Value	Information	Default Setting
L2-05	Undervoltage Detection Lvl (Uv1)	160 VDC	160 VDC
L2-06	Kinetic Energy Backup Decel Time	0.0 sec	0.0 sec
L2-07	Kinetic Energy Backup Accel Time	0.0 sec	0.0 sec
L2-08	Frequency Gain at KEB Start	100 %	100 %
L2-09	KEB Minimum Frequency Level	20 %	20 %
L2-10	Minimum KEB Time	50 ms	50 ms
L2-11	KEB DC Bus Voltage Setpoint	260 VDC	260 VDC
L2-29	Kinetic Energy Backup Method	0	Single Drive KEB Ride-Thru 1
L2-30	KEB Zero Speed Operation	0	Baseblock
L2-31	KEB Start Voltage Offset Level	0 VDC	0 VDC
<b><u>L3 Stall Prevention</u></b>			
L3-01	Stall Prevention during Accel	1	Enabled
L3-02	Stall Prevent Level during Accel	120 %	120 %
L3-03	Stall Prevent Limit during Accel	50 %	50 %
<b>*L3-04</b>	<b>Stall Prevention during Decel... [M]</b>	<b>3</b>	<b>General Purpose w/ DB resistor</b>
L3-11	Overvoltage Suppression Select	0	Disabled
L3-17	DC Bus Regulation Level	375 VDC	375 VDC
L3-20	DC Bus Voltage Adjustment Gain	0.30	0.30
L3-21	OVSuppression Accel/Decel P Gain	1.00	1.00
L3-24	Motor Accel Time @ Rated Torque	0.145 sec	0.145 sec
L3-25	Load Inertia Ratio	1.0	1.0
L3-26	Additional DC Bus Capacitors	0 uF	0 uF
L3-35	Speed Agree Width for Auto Decel	0.00 Hz	0.00 Hz
L3-36	Current Suppression Gain@Accel	20.0	20.0
L3-37	Current Limit P Gain @ Accel	5 ms	5 ms
L3-38	Current Limit I Time @ Accel	10.0	10.0
L3-39	Current Limit Filter Time @Accel	100.0 ms	100.0 ms
L3-40	Current Limit S-Curve @ Acc/Dec	0	Disabled
<b><u>L4 Speed Detection</u></b>			
L4-01	Speed Agree Detection Level	0.0 Hz	0.0 Hz
L4-02	Speed Agree Detection Width	2.0 Hz	2.0 Hz
L4-03	Speed Agree Detection Level(+/-)	0.0 Hz	0.0 Hz
L4-04	Speed Agree Detection Width(+/-)	2.0 Hz	2.0 Hz
L4-05	Fref Loss Detection Selection	0	Stop
L4-06	Frequency Reference @Loss of Ref	80.0 %	80.0 %
L4-07	Speed Agree Detection Selection	0	No Detection during Baseblock
L4-08	Speed Agree Source Selection	0	Softstarter Output (Reference)
<b><u>L5 Fault Restart</u></b>			
L5-01	Number of Auto-Restart Attempts	0	0
L5-02	Fault Contact at Restart Select	0	Active Only when Not Restarting
L5-04	Interval Method Restart Time	10.0 sec	10.0 sec
L5-05	Auto-Restart Method	0	Continuous/Immediate Attempts
L5-07	Fault Reset Enable Select Grp1	1111	Enabled(oL1/oL2/oL3/oL4)
L5-08	Fault Reset Enable Select Grp2	1111	Enabled(Uv1/ov/oH1/GF)
<b><u>L6 Torque Detection</u></b>			
L6-01	Torque Detection Selection 1	0	Disabled
L6-02	Torque Detection Level 1	150 %	150 %
L6-03	Torque Detection Time 1	0.1 sec	0.1 sec
L6-04	Torque Detection Selection 2	0	Disabled
L6-05	Torque Detection Level 2	150 %	150 %
L6-06	Torque Detection Time 2	0.1 sec	0.1 sec
L6-07	Torque Detection Filter Time	0 ms	0 ms
L6-08	Mechanical Fatigue Detect Select	0	Disabled

Parameter	Value	Information	Default Setting
L6-09 Mech Fatigue Detect Speed Level	110.0 %		110.0 %
L6-10 Mech Fatigue Detect Delay Time	0.1 sec		0.1 sec
L6-11 Mech Fatigue Hold Off Time	0		0
<b><u>L7 Torque Limit</u></b>			
*L7-01 Forward Torque Limit... [M]	150 %		200 %
*L7-02 Reverse Torque Limit... [M]	150 %		200 %
L7-03 Forward Regenerative Trq Limit	200 %		200 %
L7-04 Reverse Regenerative Trq Limit	200 %		200 %
L7-06 Torque Limit Integral Time	200 ms		200 ms
L7-07 Torque Limit during Accel/Decel	0	Proportional only	0
L7-16 Torque Limit Process at Start	1	Enabled	1
<b><u>L8 Drive Protection</u></b>			
L8-01 3% ERF DB Resistor Protection	0	Disabled	0
L8-02 Overheat Alarm Level	110 °C		110 °C
L8-03 Overheat Pre-Alarm Selection	3	Alarm Only	3
L8-05 Input Phase Loss Protection Sel	0	Disabled	0
L8-07 Output Phase Loss Protection Sel	1	Fault when one phase is lost	1
L8-09 Output Ground Fault Detection	0	Disabled	0
L8-10 Heatsink Fan Operation Selection	0	During Run, w/ L8-11 Off-Delay	0
L8-11 Heatsink Fan Off-Delay Time	60 sec		60 sec
L8-12 Ambient Temperature Setting	40 °C		40 °C
L8-15 Drive oL2 @ Low Speed Protection	1	Enabled (Reduced oL2 Level)	1
L8-18 Software Current Limit Selection	0	Disabled	0
L8-19 Freq Reduction @ oH Pre-Alarm	0.8		0.8
L8-35 Installation Method Selection	0	IP20/OpenChassis Enc/Finless	0
L8-40 Carrier Freq Reduction Off-Delay	0.50 sec		0.50 sec
L8-41 High Current Alarm Selection	0	Disabled	0
L8-55 Internal DB TransistorProtection	1	Protection Enabled	1
<b><u>n2 Auto Freq Regulator (AFR)</u></b>			
n2-01 Automatic Freq Regulator Gain	1.00		1.00
n2-02 Automatic Freq Regulator Time 1	50 ms		50 ms
n2-03 Automatic Freq Regulator Time 2	750 ms		750 ms
<b><u>n3 HighSlip/OverexciteBraking</u></b>			
n3-13 OverexcitationBraking (OEB) Gain	1.10		1.10
n3-14 OEB High Frequency Injection	0		0
n3-21 HSB Current Suppression Level	100 %		100 %
n3-23 Overexcitation Braking Operation	0	Disabled	0
<b><u>n6 Online Tuning</u></b>			
n6-01 Online Tuning Selection	0	Disabled	0
n6-05 Online Tuning Gain	1.0		1.0
<b><u>o1 Keypad Display</u></b>			
o1-01 User Monitor Selection	106	Output Voltage Ref	106
o1-02 Monitor Selection at Power-up	1	Frequency Reference (U1-01)	1
o1-03 Frequency Display Unit Selection	0	0.01 Hz	0
o1-05 LCD Contrast Adjustment	5		5
o1-24 Custom Monitor 1	101	Frequency Reference	101
o1-25 Custom Monitor 2	102	Output Frequency	102
o1-26 Custom Monitor 3	103	Output Current	103
o1-27 Custom Monitor 4	0	Not Used	0
o1-28 Custom Monitor 5	0	Not Used	0
o1-29 Custom Monitor 6	0	Not Used	0
o1-30 Custom Monitor 7	0	Not Used	0
o1-31 Custom Monitor 8	0	Not Used	0



Parameter		Value	Information	Default Setting
o1-32	Custom Monitor 9	0	Not Used	0
o1-33	Custom Monitor 10	0	Not Used	0
o1-34	Custom Monitor 11	0	Not Used	0
o1-35	Custom Monitor 12	0	Not Used	0
o1-36	LCD Backlight Brightness	5		5
o1-37	LCD Backlight ON/OFF Selection	1	ON	1
o1-38	LCD Backlight Off-Delay	60 sec		60 sec
o1-39	Show Initial Setup Screen	1	Yes	1
o1-40	Home Screen Display Selection	0	Custom Monitor	0
o1-41	1st Monitor Area Selection	0	+/- Area ( - o1-42 ~ o1-42 )	0
o1-42	1st Monitor Area Setting	100.0 %		100.0 %
o1-43	2nd Monitor Area Selection	0	+/- Area ( - o1-44 ~ o1-44 )	0
o1-44	2nd Monitor Area Setting	100.0 %		100.0 %
o1-45	3rd Monitor Area Selection	0	+/- Area ( - o1-46 ~ o1-46 )	0
o1-46	3rd Monitor Area Setting	100.0 %		100.0 %
o1-47	Trend Plot 1 Scale Minimum Value	-100.0 %		-100.0 %
o1-48	Trend Plot 1 Scale Maximum Value	100.0 %		100.0 %
o1-49	Trend Plot 2 Scale Minimum Value	-100.0 %		-100.0 %
o1-50	Trend Plot 2 Scale Maximum Value	100.0 %		100.0 %
o1-51	Trend Plot Time Scale Setting	300 sec		300 sec
o1-55	Analog Gauge Area Selection	1	+ Area ( 0 ~ o1-56 )	1
o1-56	Analog Gauge Area Setting	100.0 %		100.0 %
o1-58	Motor power unit selection	1	HP	1
<b><u>o2 Keypad Operation</u></b>				
o2-01	LO/RE Key Function Selection	1	Enabled	1
o2-02	STOP Key Function Selection	1	Enabled	1
o2-04	Drive Model (KVA) Selection	35	B012	35
o2-05	Home Mode Freq Ref Entry Mode	0	ENTER Key Required	0
o2-06	Keypad Disconnect Detection	1	Enabled	1
o2-07	Keypad RUN Direction @ Power-up	0	Forward	0
*o2-09	Region Code... [M]	1	American spec (DEFAULT ON IS 1 ON US VERSION)	0
o2-19	Parameter Write during Uv	0	Disabled	0
o2-23	External 24V Powerloss Detection	0	Disabled	0
o2-26	Alarm display at ext. 24V power	1	Enabled	1
o2-27	bCE Detection Selection	1	Coast to Stop	1
<b><u>o3 Copy Keypad Function</u></b>				
o3-02	Copy Allowed Selection	0	Disabled	0
o3-04	Select Backup/Restore Location	0	Memory Location 1	0
o3-05	Select Items to Backup/Restore	0	Standard Parameters	0
o3-06	Auto Parameter Backup Selection	1	Enabled	1
o3-07	Auto Parameter Backup Interval	1	Every 30 minutes	1
<b><u>o4 Maintenance Monitors</u></b>				
o4-22	Time Format	1	12 Hour Clock	1
o4-23	Date Format	2	MM/DD/YYYY	2
o4-24	bAT Detection Selection	0	Disable	0