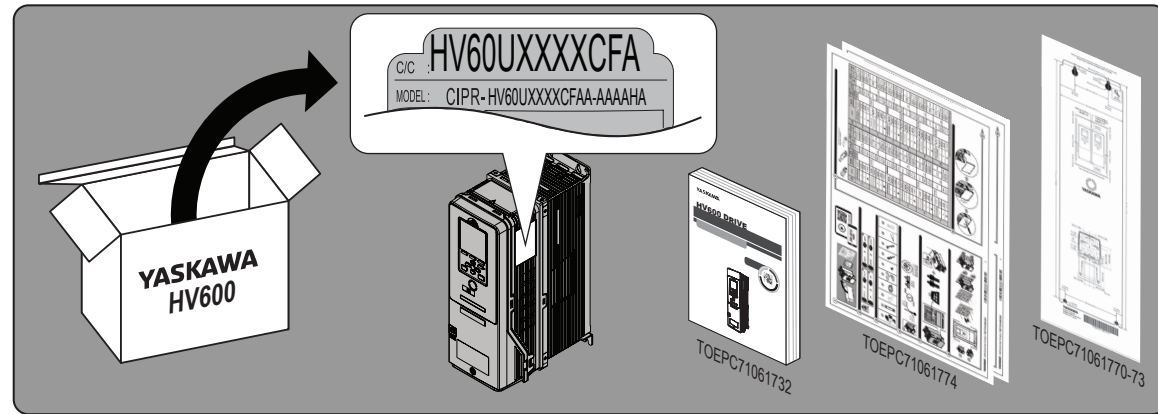
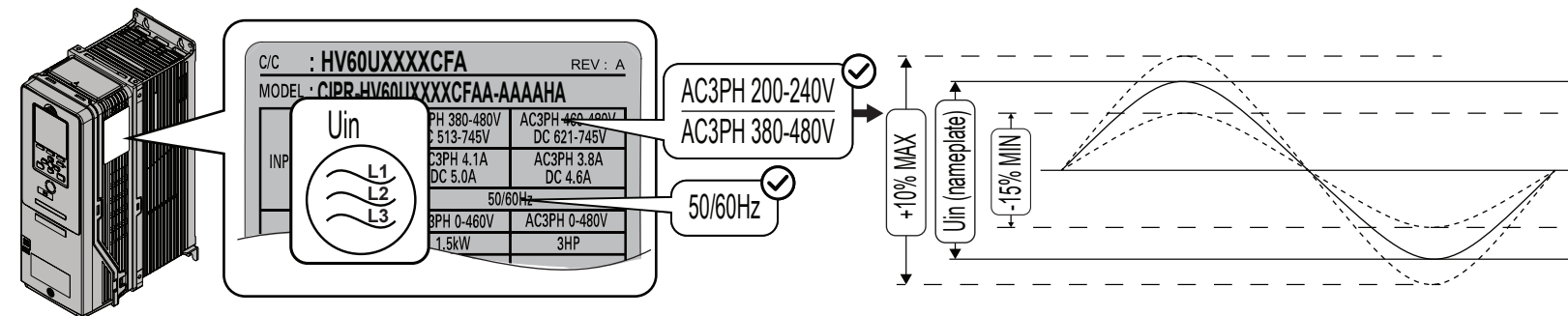
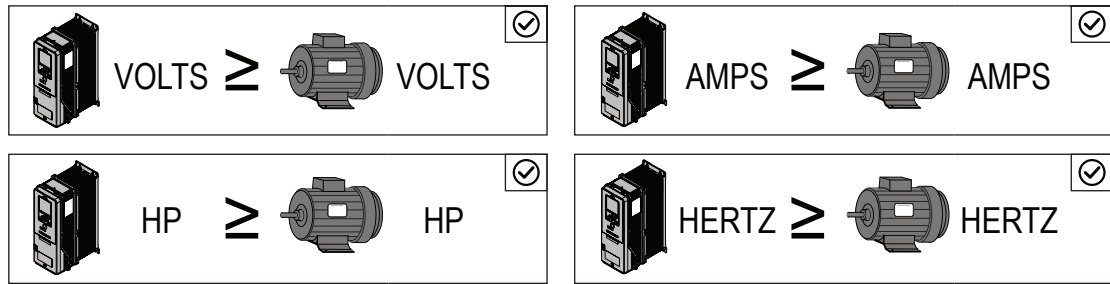


\* TOEPC71061774C

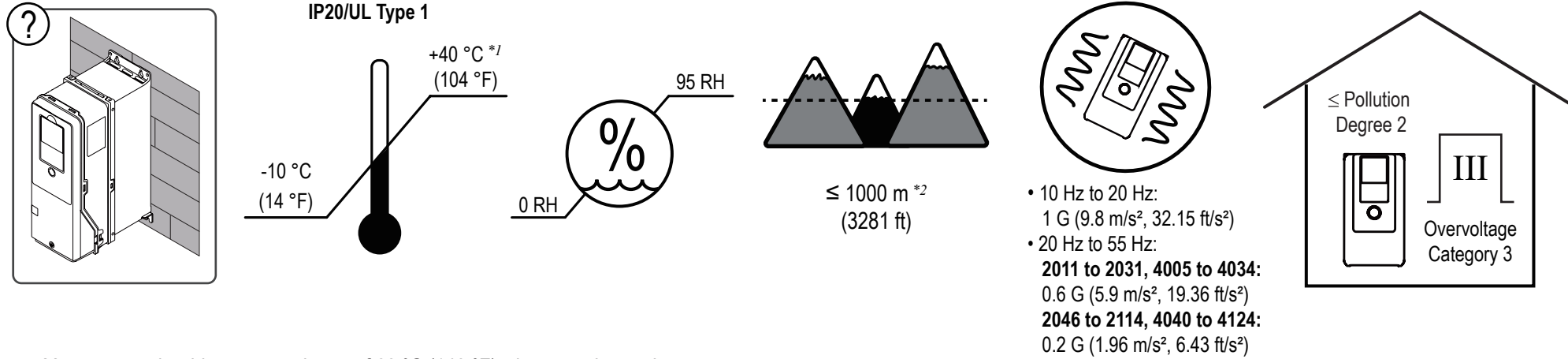


Read and follow the safety and installation procedures in the Installation & Primary Operation (TOEPC71061732) manual packaged with the drive.

### 1 Confirm the Drive and Motor Specifications

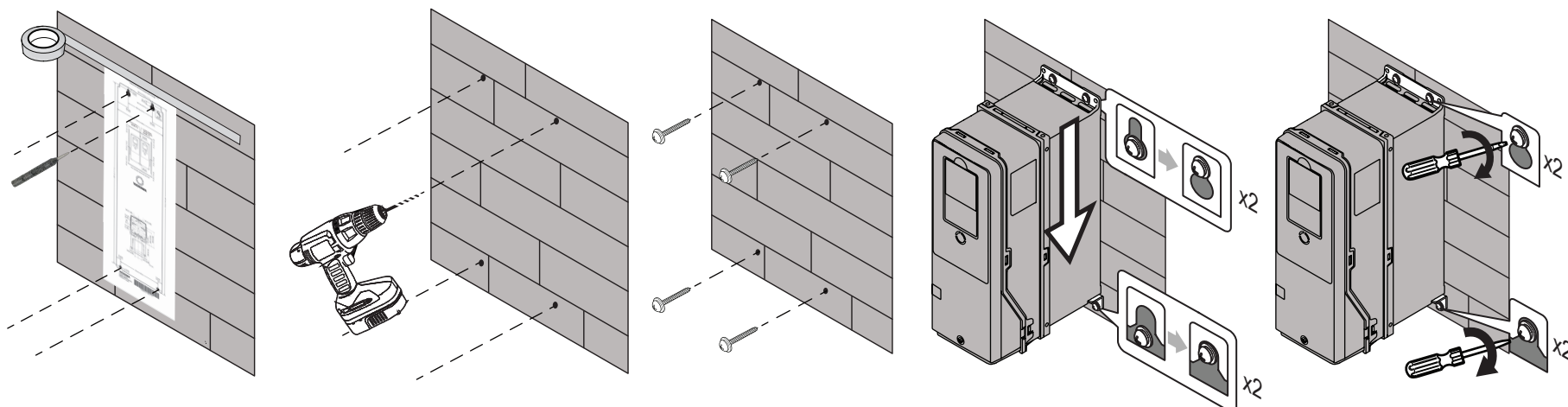


### 2 Confirm the Correct Drive Installation Environment



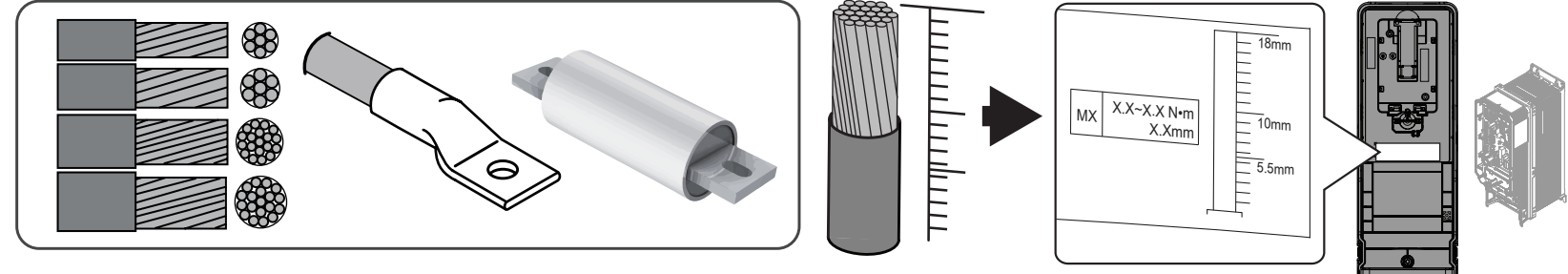
\*1 You can use the drive at a maximum of 60 °C (140 °F) when you derate the output current.  
 \*2 Derate the output current by 1% for each 100 m (328 ft) to install the drive in altitudes between 1000 m to 4000 m (3281 ft to 13123 ft). Refer to the Technical Reference (SIEPC71061732) for derating information.

### 3 Use the Enclosed Drilling Template to Mount the Drive Vertically



When you use non-metric hardware to install the drive, use Type B narrow washers or equivalent and make sure that the size of the screw head and washer are applicable for your drive before installation.

### 4 Select the Motor and Power Wires, Wire Strip Length, Crimp Terminals, and Branch Circuit Protection



#### 240 V Wires and Crimp Terminals

Drive Model [HV60UXXXX]	Terminal	Wire Range AWG, kcmil (Recommended)	Panduit Crimp Terminal Part Number <sup>*1, *2</sup>	Drive Model [HV60UXXXX]	Terminal	Wire Range AWG, kcmil (Recommended)	Panduit Crimp Terminal Part Number <sup>*1, *2</sup>	Drive Model [HV60UXXXX]	Terminal	Wire Range AWG, kcmil (Recommended)	Panduit Crimp Terminal Part Number <sup>*1, *2</sup>
2011	R/L1, S/L2, T/L3 U/T1, V/T2, W/T3	14 - 8 (14)	N/A	2031	R/L1, S/L2, T/L3 U/T1, V/T2, W/T3	14 - 8 (8)	N/A	2075	R/L1, S/L2, T/L3	8 - 2/0 (4)	LCA4-56-L
	-, +1	14 - 8 (14)	N/A		-, +1	14 - 8 (8)	N/A		U/T1, V/T2, W/T3	8 - 2/0 (3 or 2)	LCA4-56-L/LCA2-56-Q
	⊕	14 - 8 (12)	LCA10-14-L		⊕	14 - 8 (10)	LCA10-14-L		⊕	8 - 2/0 (2)	LCA2-56-Q
2017	R/L1, S/L2, T/L3 U/T1, V/T2, W/T3	14 - 8 (12)	N/A	2046	R/L1, S/L2, T/L3 U/T1, V/T2, W/T3	14 - 4 (8)	N/A	2088	R/L1, S/L2, T/L3	8 - 2/0 (3 or 2)	LCA4-56-L/LCA2-56-Q
	-, +1	14 - 8 (10)	N/A		-, +1	14 - 4 (6)	N/A		U/T1, V/T2, W/T3	8 - 2/0 (2)	LCA2-56-Q
	⊕	14 - 8 (10)	LCA10-14-L		⊕	14 - 4 (8)	LCA8-14-L		⊕	8 - 2/0 (1)	LCA1-56-E
2024	R/L1, S/L2, T/L3 U/T1, V/T2, W/T3	14 - 8 (10)	N/A	2059	R/L1, S/L2, T/L3 U/T1, V/T2, W/T3	14 - 4 (4)	N/A	2114	R/L1, S/L2, T/L3 U/T1, V/T2, W/T3	8 - 2/0 (1/0)	LCA1/0-56-X
	-, +1	14 - 8 (8)	N/A		-, +1	14 - 4 (4)	N/A		-, +1	8 - 2/0 (2/0)	LCA2/0-56-X
	⊕	14 - 8 (10)	LCA10-14-L		⊕	14 - 4 (6)	LCA6-14-L		⊕	8 - 2/0 (6)	LCA6-56-L

#### 480 V Wires and Crimp Terminals

Drive Model [HV60UXXXX]	Terminal	Wire Range AWG, kcmil (Recommended)	Panduit Crimp Terminal Part Number <sup>*1, *2</sup>	Drive Model [HV60UXXXX]	Terminal	Wire Range AWG, kcmil (Recommended)	Panduit Crimp Terminal Part Number <sup>*1, *2</sup>	Drive Model [HV60UXXXX]	Terminal	Wire Range AWG, kcmil (Recommended)	Panduit Crimp Terminal Part Number <sup>*1, *2</sup>
4005 4008	R/L1, S/L2, T/L3 U/T1, V/T2, W/T3	14 - 8 (14)	N/A	4027	R/L1, S/L2, T/L3 U/T1, V/T2, W/T3	14 - 8 (10)	N/A	4065	R/L1, S/L2, T/L3 U/T1, V/T2, W/T3	14 - 4 (4)	N/A
	-, +1	14 - 8 (14)	N/A		-, +1	14 - 8 (8)	N/A		-, +1	14 - 4 (4)	N/A
	⊕	14 - 8 (14)	LCA10-14-L		⊕	14 - 8 (10)	LCA10-14-L		⊕	14 - 4 (6)	LCA6-14-L
4011	R/L1, S/L2, T/L3 U/T1, V/T2, W/T3	14 - 8 (14)	N/A	4034	R/L1, S/L2, T/L3 U/T1, V/T2, W/T3	14 - 8 (8)	N/A	4077	R/L1, S/L2, T/L3	8 - 2/0 (4)	LCA4-56-L
	-, +1	14 - 8 (14)	N/A		-, +1	14 - 8 (8)	N/A		-, +1	8 - 2/0 (3 or 2)	LCA4-56-L/LCA2-56-Q
	⊕	14 - 8 (12)	LCA10-14-L		⊕	14 - 8 (10)	LCA10-14-L		⊕	8 - 2/0 (2)	LCA2-56-Q
4014	R/L1, S/L2, T/L3 U/T1, V/T2, W/T3	14 - 8 (14)	N/A	4040	R/L1, S/L2, T/L3 U/T1, V/T2, W/T3	14 - 4 (8)	N/A	4096	R/L1, S/L2, T/L3	8 - 2/0 (2)	LCA2-56-Q
	-, +1	14 - 8 (12)	N/A		-, +1	14 - 4 (6)	N/A		U/T1, V/T2, W/T3	8 - 2/0 (1)	LCA1-56-E
	⊕	14 - 8 (10)	LCA10-14-L		⊕	14 - 4 (8)	LCA8-14-L		⊕	8 - 2/0 (1)	LCA1-56-E
4021	R/L1, S/L2, T/L3 U/T1, V/T2, W/T3	14 - 8 (10)	N/A	4052	R/L1, S/L2, T/L3 U/T1, V/T2, W/T3	14 - 4 (6)	N/A	4124	R/L1, S/L2, T/L3	8 - 2/0 (1/0)	LCA1/0-56-X
	-, +1	14 - 8 (10)	N/A		-, +1	14 - 4 (4)	N/A		U/T1, V/T2, W/T3	8 - 2/0 (2/0)	LCA2/0-56-X
	⊕	14 - 8 (10)	LCA10-14-L		⊕	14 - 4 (8)	LCA8-14-L		⊕	8 - 2/0 (4)	LCA4-56-L

\*1 For use with Panduit Corp. heat-shrinkable tubing HSTT series or an equivalent UL-recognized-heat shrinkable tubing rated 600 V minimum.  
 \*2 Refer to the Installation & Primary Operation (TOEPC71061732) for possible Panduit Type P and Type S crimp terminal alternatives.

#### Required Short Circuit Protection

Install one of the types of short circuit protection devices listed here to comply with UL 508C. Semiconductor protective type fuses are recommended, but the tables also show alternative short circuit protection devices.

#### Required Short Circuit Protection for HV600 AC Drives (Three-Phase 240 V)

Protected Enclosure Not Required	Protected Enclosure Required	2011	2017	2024	2031	2046	2059	2075	2088	2114
Eaton/Bussman Semiconductor Fuse Part Number		FWH-40B	FWH-45B	FWH-80B	FWH-125B	FWH-125B	FWH-175B	FWH-200B	FWH-225A	FWH-225A
Class CC, J, or T Fuse <sup>*1</sup> Maximum Amps		17.5	25	40	50	80	100	125	150	200
MCCB Maximum Amps		25	40	60	75	110	125	175	200	250
Schneider MCP Part Number HLLxxxxxxx		36030M71	36030M71	36050M72	36050M72	36100M73	36100M73	36150M74	36150M74	36150M74
Enclosure Volume Minimum (in <sup>3</sup> )		3056	3056	3056	3056	5520	5520	5520	5520	5520

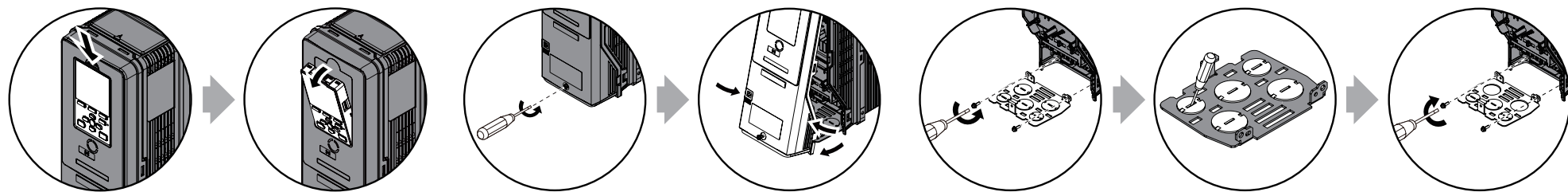
#### Required Short Circuit Protection for HV600 AC Drives (Three-Phase 480 V)

Protected Enclosure Not Required	Protected Enclosure Required	4005	4008	4011	4014	4021	4027	4034	4040	4052	4065	4077	4096	4124
Eaton/Bussman Semiconductor Fuse Part Number		FWH-25A14F	FWH-30A14F	FWH-40B	FWH-45B	FWH-60B	FWH-80B	FWH-100B	FWH-125B	FWH-150B	FWH-200B	FWH-225A	FWH-225A	FWH-225A
Class CC, J, or T Fuse <sup>*1</sup> Maximum Amps		8	12	17.5	20	35	45	60	70	90	110	125	150	200
MCCB Maximum Amps		15	15	25	35	50	60	80	100	125	150	175	225	300
Schneider MCP Part Number HLLxxxxxxx		36030M71	36030M71	36030M71	36030M71	36030M71	36050M72	36050M72	36100M73	36100M73	36100M73	36100M73	36150M74	36250M75 <sup>*2</sup>
Enclosure Volume Minimum (in <sup>3</sup> )	External Heatsink	3056	3056	3056	3056	3056	3056	3056	5520	5520	5520	5520	5520	5520
	Internal Heatsink	3056	3056	3056	3056	3056	3056	3056	5520	5520	5520	5520	5520	5520

\*1 Class T fuses are fast-acting (non-time-delay) only. You can substitute a Class J time-delay fuse for a Class J non-time-delay fuse.  
 \*2 The MCP part number for model 4124 is JLLxxxxxxx.



**5 Remove the Keypad, Front Cover, Conduit Bracket, and Knock-Outs. Reinstall the Conduit Bracket for non-Cabinet Installations**



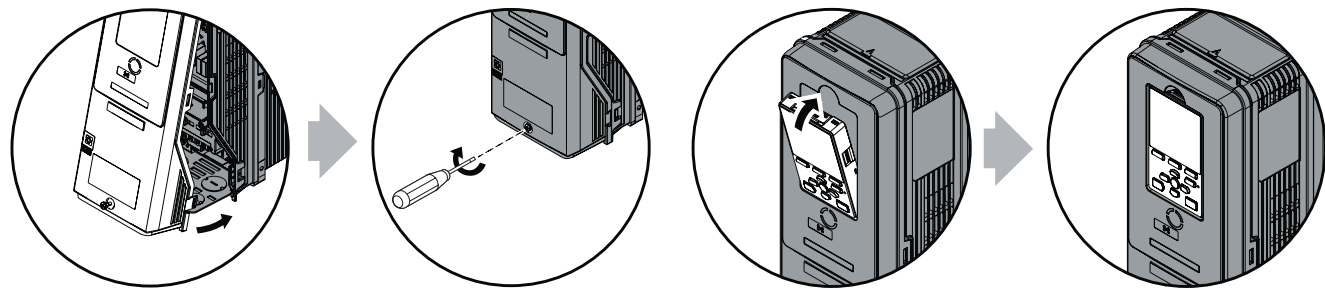
**6 Install the Motor Wiring and Power Wiring**

Refer to the Technical Reference (SIEPC71061732) for information about GFCIs.

Conduit or shielded motor cable

Spacing per local electrical codes

**7 Install the Front Cover and Keypad**



**8 Energize the Drive and Confirm It is Ready**

OFF → ON

EF3 External Fault (terminal S3)  
2017/01/01 18:08  
Reset Home

READY

**9 Set the Motor Rated Current (FLA) from the Motor Nameplate in E2-01**

**3 PHASE INVERTER DUTY AC INDUCTION MOTOR NAMEPLATE EXAMPLE**

MODEL XX	123AAA123XX-X0	X FRAME 123AX			
POLES X	ENC XXX	CODE X			
VOLTS XXX	FL RPM XXXX	DES A TYPE ABC INS X0			
SF 1.0	DUTY CONT	MAX AMB °C XX			
		TEMP SENSORS T-STATS			
SERIAL	N.L. AMPS XX.X/X.X				
MAX RPM 4200	S.E. BRG. 309	O.S.E. BRG. XXX			
		ROTOR WK² X.X			
HZ	HP	RPM	TORQUE (LB FT)	VOLTS (HIGH CONN)	AMPS (HIGH CONN)
1	-	0	XX.X	-	XX.X
60	XX	XXXX	XX.X	XXX	XX.X
120	XX	XXXX	XX.X	XXX	XX.X
OHMS PH	R1: .XXX	R2: .XXX	x1: X.XX	X2: X.XX	Xm: XX.X
P/N XXXXXXX					

10:00 am Fwd Init Setup  
Language Selection OFF  
Set Date/Time  
Show Initial Setup Screen

10:00 am Fwd Rdy Home  
Freq Reference (AI) 0.00  
U1-01 Hz  
Output Frequency U1-02 Hz 0.00

10:00 am Fwd Rdy Menu  
Monitors  
Parameters  
User Custom Parameters  
Parameter Backup/Restore  
Modified Param / Fault Log  
Auto-Tuning

10:00 am Fwd Parameters  
A Initialization Parameters  
B Application  
C Tuning  
d References  
E Motor Parameters  
F Options

10:00 am Fwd Parameters  
E1 V/F Pattern For Motor 1  
E2 Motor Parameters

10:00 am Fwd Parameters  
Motor Rated Current (FLA) 40.0 (40.0)A  
Motor Rated Slip  
E2-02 1.700 (1.700)Hz  
Motor No-Load Current  
E2-03 9.2 (9.2)A

Entry Accepted

**10 Set the Drive for HAND Operation and Check the Motor Rotation Direction**

10:00 am Fwd Init Setup  
Language Selection OFF  
Set Date/Time  
Show Initial Setup Screen

10:00 am Fwd Rdy Home  
HAND  
Freq Reference (AI) 0.00  
U1-01 Hz  
Output Frequency U1-02 Hz 0.00

10:00 am Fwd Rdy Home  
Freq Reference (KD) 0.00  
U1-01 Hz  
Output Frequency U1-02 Hz 0.00

10:00 am Fwd Rdy Parameters  
SS-05 000.00 Hz  
HAND Frequency Reference  
Default : 0.00 Hz  
Range : 0.00-400.00

10:00 am Fwd Parameters  
HAND Frequency Reference  
SS-05 010.00 Hz  
Default : 0.00 Hz  
Range : 0.00-400.00

**Additional Information for Installation and Primary Operation**

**A How to Set Up the Drive for Monitoring via BACnet MS/TP**

10:00 am Fwd Rdy Menu  
Monitors  
Parameters  
User Custom Parameters  
Parameter Backup/Restore  
Modified Param / Fault Log  
Auto-Tuning

10:00 am Fwd Parameters  
C Tuning  
d References  
E Motor Parameters  
F Options  
H Terminal Functions  
L Protection Functions

10:00 am Fwd Parameters  
H1 Digital Inputs  
H2 Digital Outputs  
H3 Analog Inputs  
H4 Analog Outputs  
H5 Serial Communication  
H7 Virtual Inputs / Outputs

10:00 am Fwd Parameters  
Drive Node Address  
H5-01 1F  
Default : 1F  
Range : 0-FF

10:00 am Fwd Parameters  
Communication Speed Selection  
H5-02 3  
9600 bps  
Default : 3

Set to unique node (MAC) address for your network (Hex)

Set to your network speed

10:00 am Fwd Parameters  
Communication Protocol Selection  
H5-08 3  
BACnet  
Default : 0

Set to 3: BACnet

10:00 am Fwd Parameters  
BACnet Device obj ID LOW BITS  
H5-14 0001  
Default : 0001  
Range : 0000-FFFF

10:00 am Fwd Parameters  
BACnet Device obj ID HIGH BITS  
H5-15 00  
Default : 00  
Range : 00-3F

Set the Device Object ID numbers together to make a unique value for your installation (Hex)

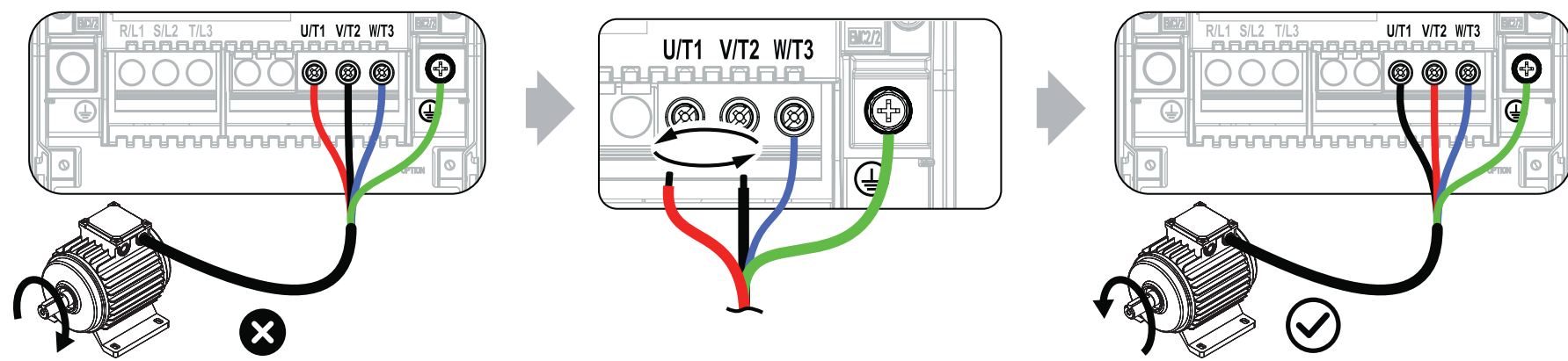
10:00 am Fwd Parameters  
Communication Parameters Reload  
H5-20 1  
Reload Now  
Default : 0

Set to 1: Reload Now

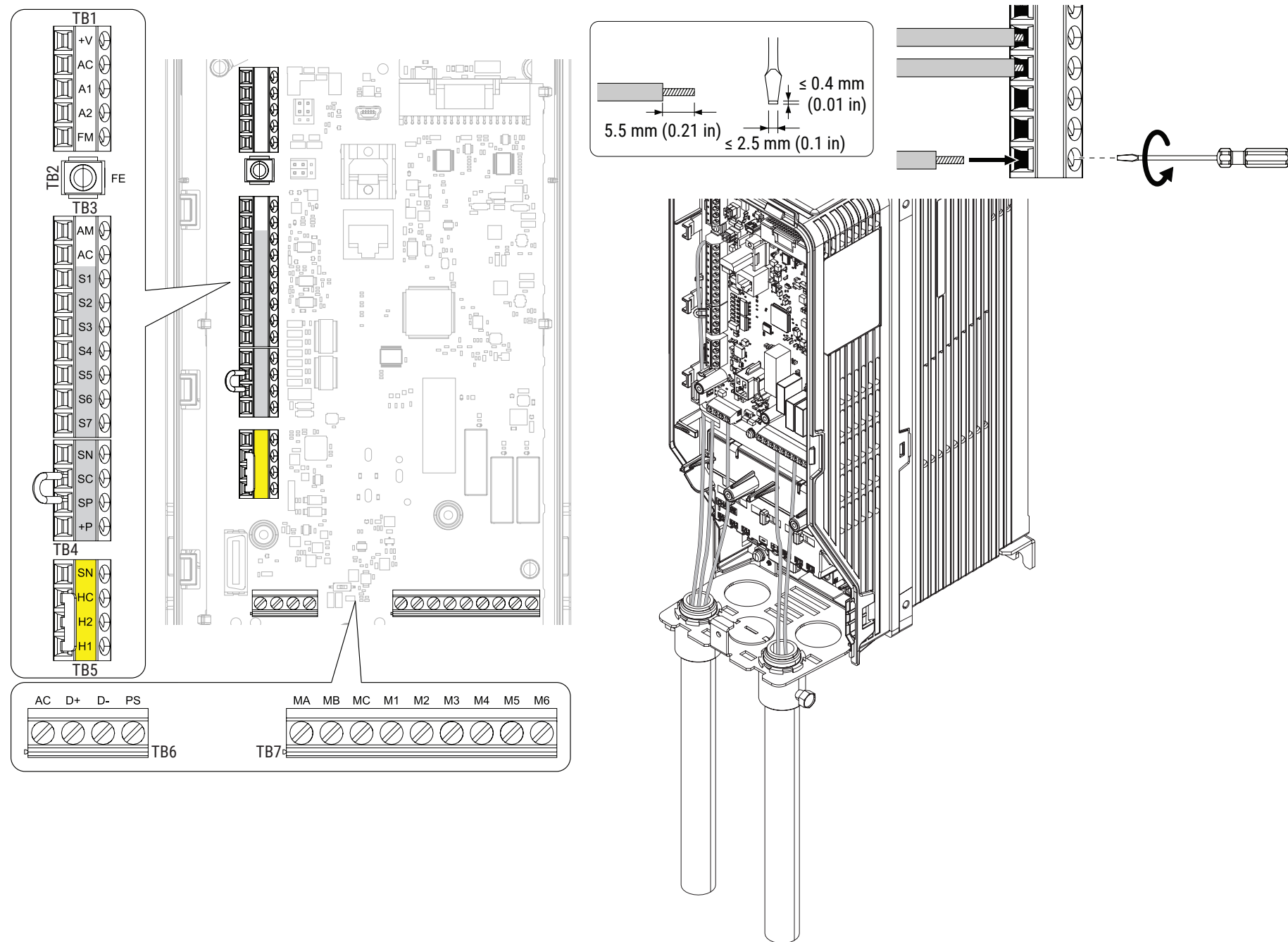
Signal Ground  
Comm. input/output +  
Comm. input/output -



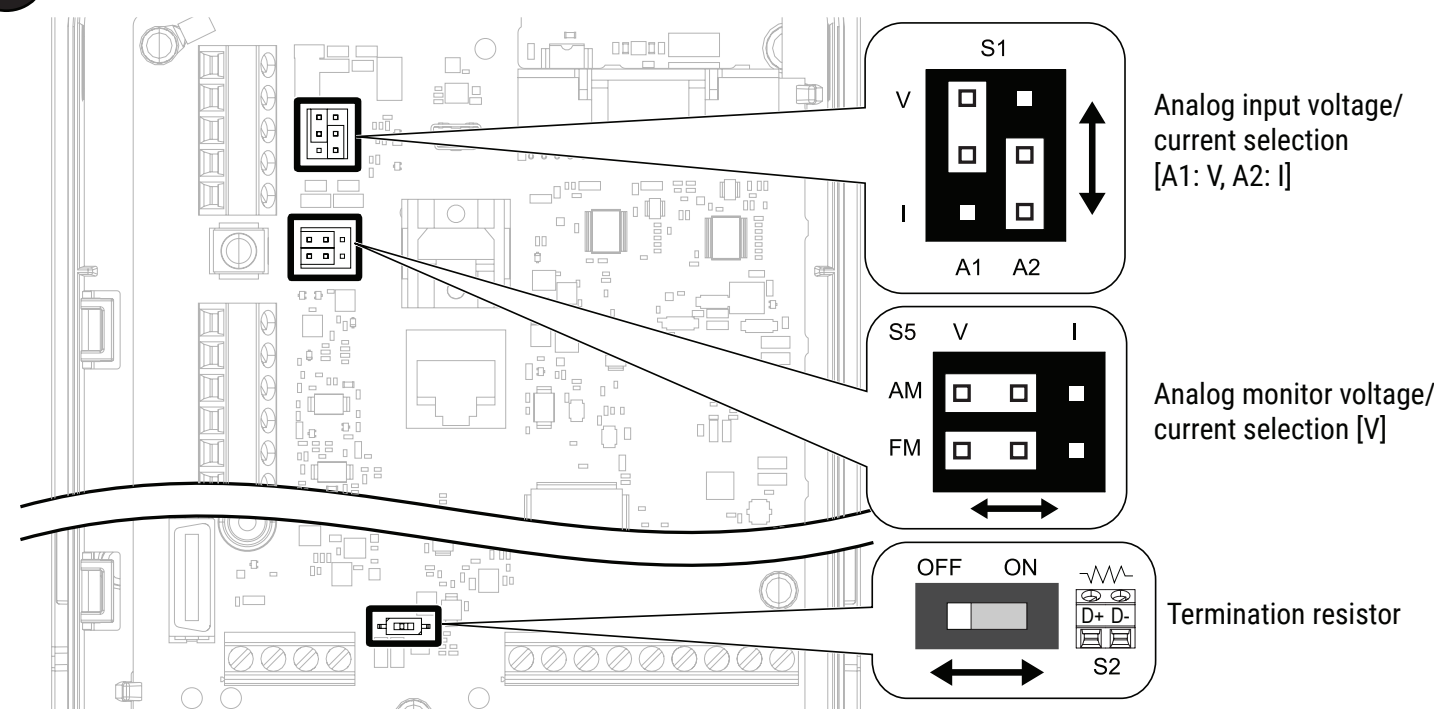
### B If the Motor Does Not Rotate in the Correct Direction



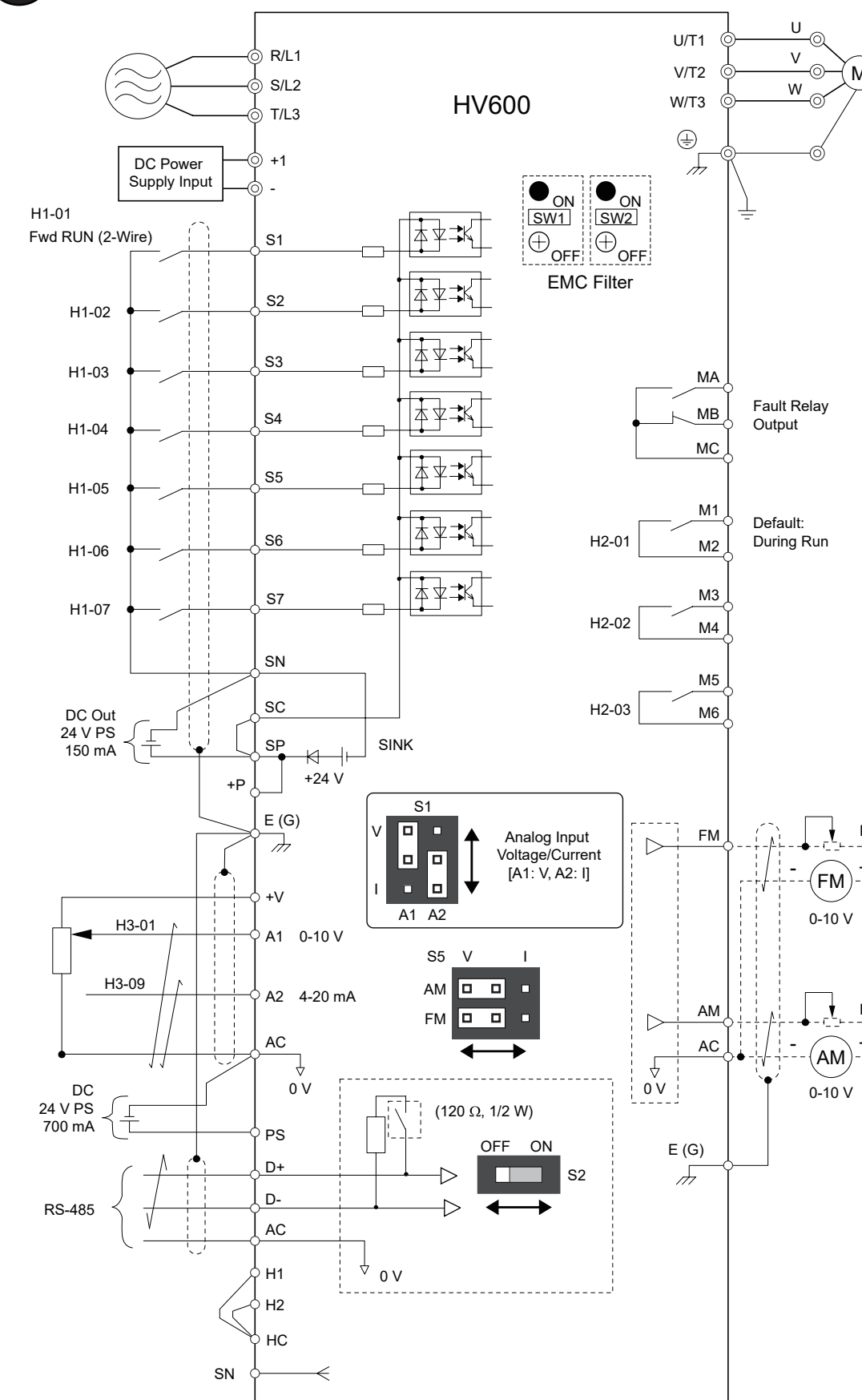
### C Control Circuit Configuration



### D Switches and Jumpers on the Control Board

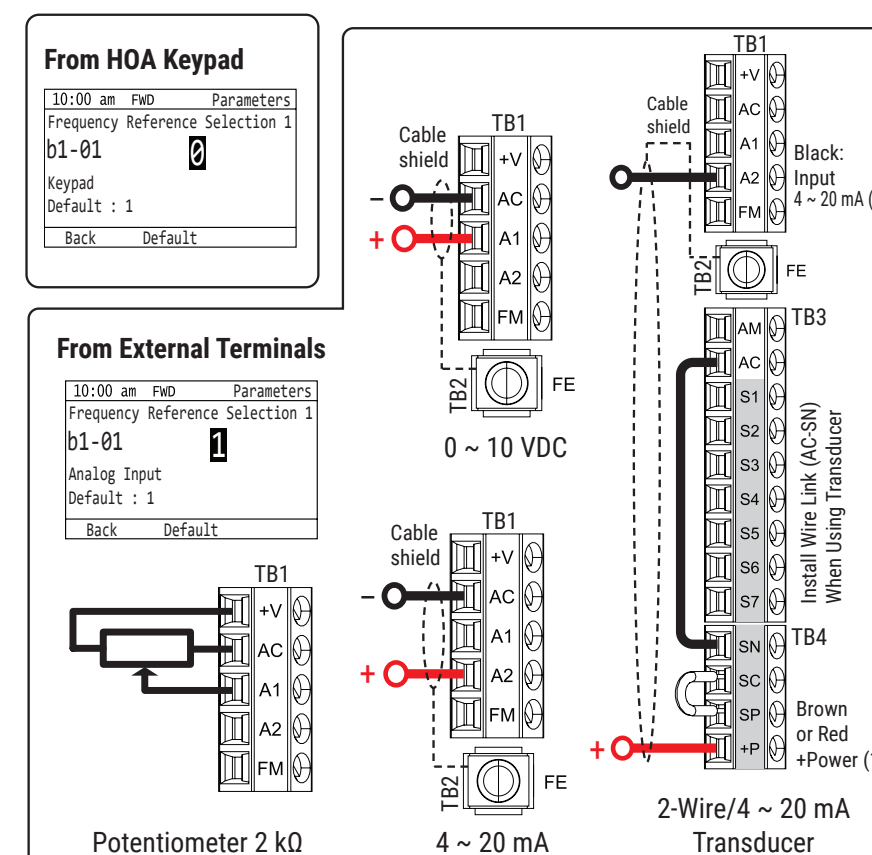


### E Connection Diagram and Terminal Functions

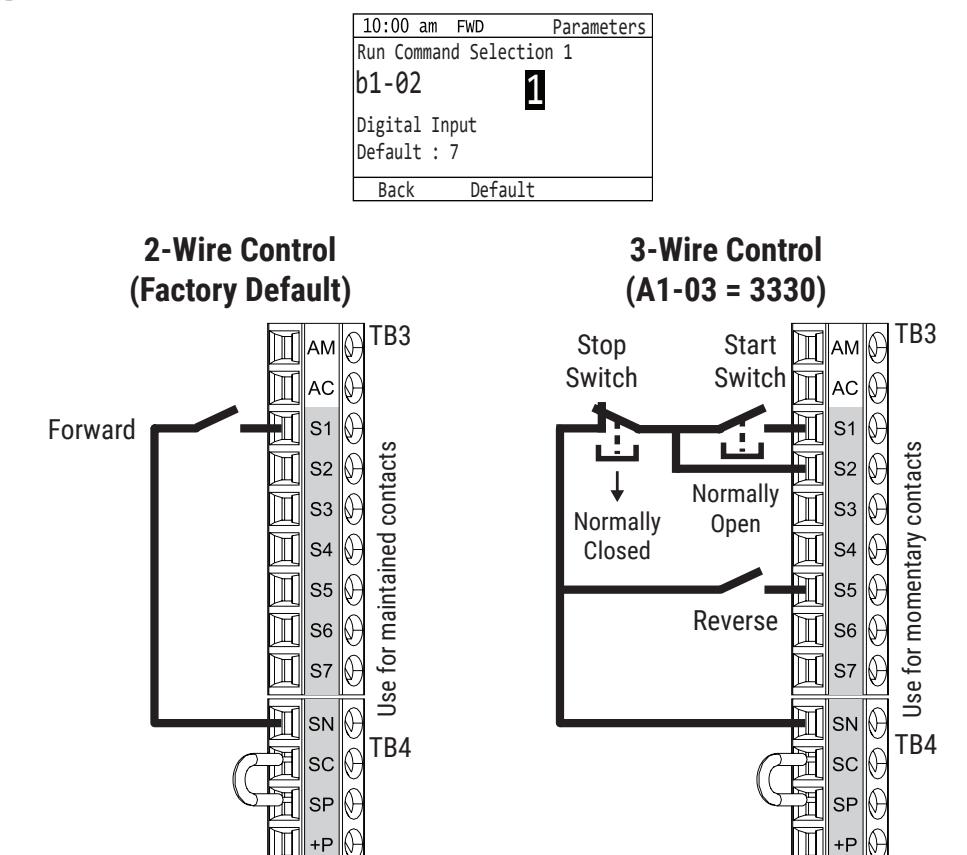


Terminal	Type	Signal Level	Default	Parameter Default
S1	MFDI 1	Photocoupler 24 V, 6 mA Internal impedance: 4.7 kΩ	Forward RUN (2-Wire)	H1-01   40
S2	MFDI 2		Not Used	H1-02   F
S3	MFDI 3		External Fault (NO-Always-Coast)	H1-03   24
S4	MFDI 4		Fault Reset	H1-04   14
S5	MFDI 5		Multi-Step Speed Reference 1	H1-05   3
S6	MFDI 6		Multi-Step Speed Reference 2	H1-06   4
S7	MFDI 7		Jog Reference Selection	H1-07   6
SN	MFDI power 0 V		-	-
SC	MFDI common	24 V, 150 mA maximum	-	-
SP	MFDI power + 24 VDC		-	-
H1	Safe disable input 1	Photocoupler 24 V, 6 mA Internal impedance: 4.7 kΩ	-	-
H2	Safe disable input 2		-	-
HC	Safe disable common		-	-
+V	Frequency setting power supply	10.5 V (20 mA maximum)	-	-
A1	MFAI 1	0 V ~ 10 V/100% (input impedance 20 kΩ) 4 mA ~ 20 mA/100% 0 mA ~ 20 mA/100% (input impedance 250 Ω)	Frequency Reference	H3-01   0
A2	MFAI 2		Frequency Reference	H3-09   2
AC	Common	0 V	-	-
E (G)	Connect shielded cable	-	-	-
MA	Fault relay output	30 VDC, 10 mA ~ 2 A 250 VAC, 10 mA ~ 2 A	Fault (N.O)	Fault
MB			Fault (N.C)	Fault
MC	Common		-	-
M1	MFDO		During Run	H2-01   0
M2	MFDO		Zero Speed	H2-02   1
M3	MFDO	30 VDC, 10 mA ~ 2 A 250 VAC, 10 mA ~ 2 A Minimum load: 5 V, 10 mA		
M4	MFDO		Speed Agree 1	H2-03   2
M5	MFDO			
M6	MFDO			
FM	MFAO 1	0 V ~ 10 V/0% ~ 100% 4 mA ~ 20 mA	Output Frequency	H4-01   102
AM	MFAO 2		Output Current	H4-04   103
AC	Common	0 V	-	-
+P	External power supply	24 V (150 mA maximum)	-	-
PS	External 24 V PS input	21.6 VDC ~ 26.4 VDC, 700 mA	-	-
AC	External 24 V PS ground	0 V	-	-
D+	Communication +	APOGEE FLN, BACnet, MEMOBUS/Modbus, Metasys N2 RS-485	-	-
D-	Communication -	115.2 kbps maximum	-	-
AC	Common	0 V	-	-

### F Set Frequency Reference Source



### G Set Start/Stop Control Method from External Terminals



## H If You Push the HAND Button but the Motor Does Not Spin

The diagram illustrates the following steps:

- Initial state: 10:00 am Fwd Rdy Home. Freq Reference (KPD) 0.00 Hz, U1-01 Hz 0.00, Output Frequency 0.00 Hz.
- Pressing the HAND button leads to a warning icon.
- Pressing the Home button (F2) leads to the Language Selection menu.
- Pressing the Home button (F2) again leads to the Parameters menu.
- Pressing the Home button (F2) leads to the Entry Accepted screen.
- Pressing the Home button (F2) leads to the Parameters menu with HAND Frequency Reference set to 10.00 Hz.
- Pressing the Home button (F2) leads to the Parameters menu with Freq Reference (KPD) 10.00 Hz, U1-01 Hz 10.00, and U1-02 Hz 10.00.

## I Parameter Groups

A: Initialization	d: Reference Settings	H: Terminal Functions	n: Special Adjustment	T: Auto-Tuning
A1 Initialization	d1 Frequency Reference	H1 Digital Inputs	n1 Hunting Prevention	T0 Tuning Mode Selection
A2 User Parameters	d2 Reference Limits	H2 Digital Outputs	n3 High Slip/Overexcite Braking	T1 Induction/Motor Auto-Tuning
<b>b: Application</b>				
b1 Operation Mode Selection	d3 Jump Frequency	H3 Analog Inputs	n7 EZ Drive	T2 PM Motor Auto-Tuning
b2 DC Injection Braking and Short Circuit Braking	d4 Freq. Ref. Up/Down & Hold	H4 Analog Outputs	n8 PM Motor Control Tuning	T4 EZ Tuning
b3 Speed Search	d6 Field Weakening	H5 Serial Communication	<b>o: Keypad-Related Settings</b>	
b4 Timer Function	d7 Offset Frequency	H7 Virtual Inputs/Outputs	o1 Keypad Display	<b>Y: Application Features</b>
b5 PID Control	<b>E: Motor</b>		o2 Keypad Operation	Y1 Application Basics
b8 Energy Saving	E1 V/f Pattern for Motor 1	<b>L: Protection Functions</b>	o3 Copy Keypad Function	Y2 PID Sleep and Protection
<b>C: Tuning</b>				
C1 Accel & Decel Time	E2 Motor 1 Parameters	L1 Motor Protection	o4 Maintenance Monitors	Y4 Application Advanced
C2 S-Curve Characteristics	E3 V/f Pattern for Motor 2	L2 Power Loss Ride Through	o5 Log Function	Y9 Network Multiplex Options
C3 Slip Compensation	E4 Motor 2 Parameters	L3 Stall Prevention	<b>q: DriveWorksEZ Parameters</b>	
C4 Torque Compensation	E5 PM Motor Settings	L4 Speed Detection	<b>r: DriveWorksEZ Connections</b>	
C5 Auto Speed Regulator (CSR)	E9 Motor Setting	L5 Fault Restart	<b>S: Special Applications</b>	
C6 Carrier Frequency	<b>F: Options</b>		S1 Dynamic Noise Control	YF PI Auxiliary Control
	F6 Communication Option	L6 Torque Detection	S2 Sequence Run Timers	
	F7 Ethernet Options	L7 Torque Limit	S3 PI2 Control	
		L8 Drive Protection	S5 HAND/OFF/AUTO Operation	
		L9 Drive Protection 2	S6 Protection	

### Frequently Used Parameters

Parameter Number   Name	Default   Description	Parameter Number   Name	Default   Description	Parameter Number   Name	Default   Description
A1-06   Application Preset	0   No Preset Selected	b3-24   Speed Search Method Selection	2   Current Detection 2	E1-01   Input AC Supply Voltage	-   User-Defined
b1-01   Frequency Reference Selection 1	1   Analog Input	C1-01   Acceleration Time 1	30.0 s	E2-01   Motor Rated Current (FLA)	-   User-Defined
b1-02   Run Command Selection 1	7   AUTO Command + Term Run	C1-02   Deceleration Time 1	30.0 s	L5-01   Number of Auto-Restart Attempts	0   No Restart Attempts
b1-03   Stopping Method Selection	1   Coast to Stop	d2-01   Frequency Reference Upper Limit	100.0%	L5-04   Interval Method Restart Time	10.0 s
b3-01   Speed Search at Start Selection	0   Disabled	d2-02   Frequency Reference Lower Limit	0.0%	S1-01   Dynamic Noise Control	1   Enabled

## J Troubleshooting Resources for Drive Faults and Alarms

Resource	Choose This When:	URL	QR Code
Installation & Primary Operation	You have access to the paper copy of the manual that was packaged with the drive. This manual lists all drive faults and alarms, and offers a selection of causes and solutions.	<a href="https://www.yaskawa.com/toepc71061732">https://www.yaskawa.com/toepc71061732</a>	 PDF download
DriveWizard Mobile App	You want to use your smartphone or tablet and use the embedded help to look up the full complement of causes and solutions to all drive faults and alarms.	<a href="https://www.yaskawa.com/dwm">https://www.yaskawa.com/dwm</a>	 App download
Maintenance & Troubleshooting Manual	You want to download a PDF of the manual to your smartphone or tablet. This manual lists the full complement of causes and solutions to all drive faults and alarms and also includes detailed information about drive maintenance, wiring, and programming.	<a href="https://www.yaskawa.com/toeipyahv6001">https://www.yaskawa.com/toeipyahv6001</a>	 PDF download

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