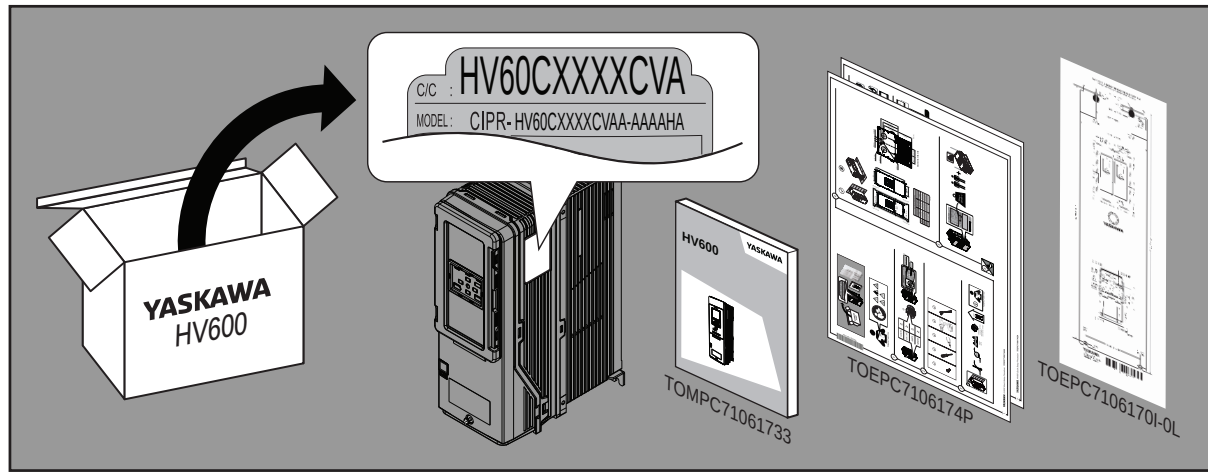
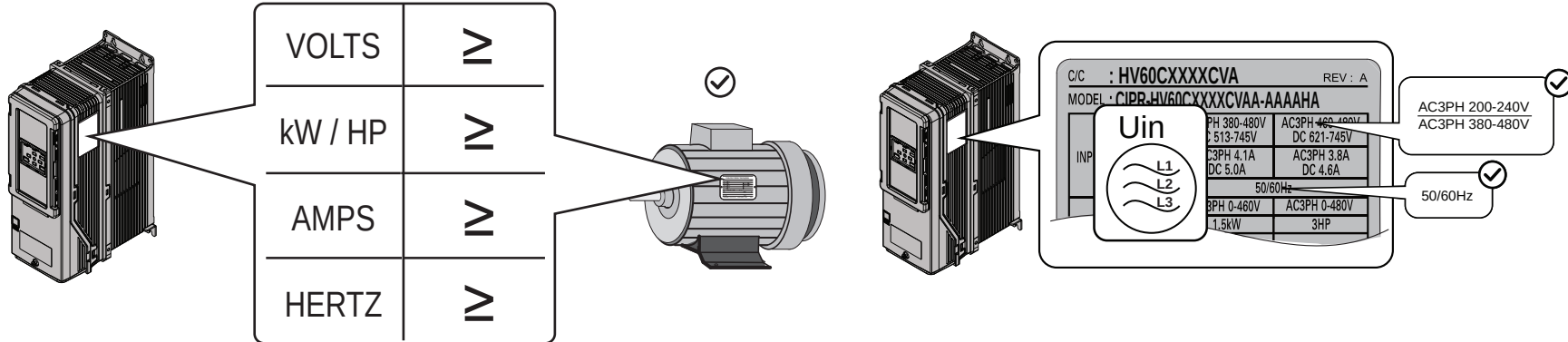
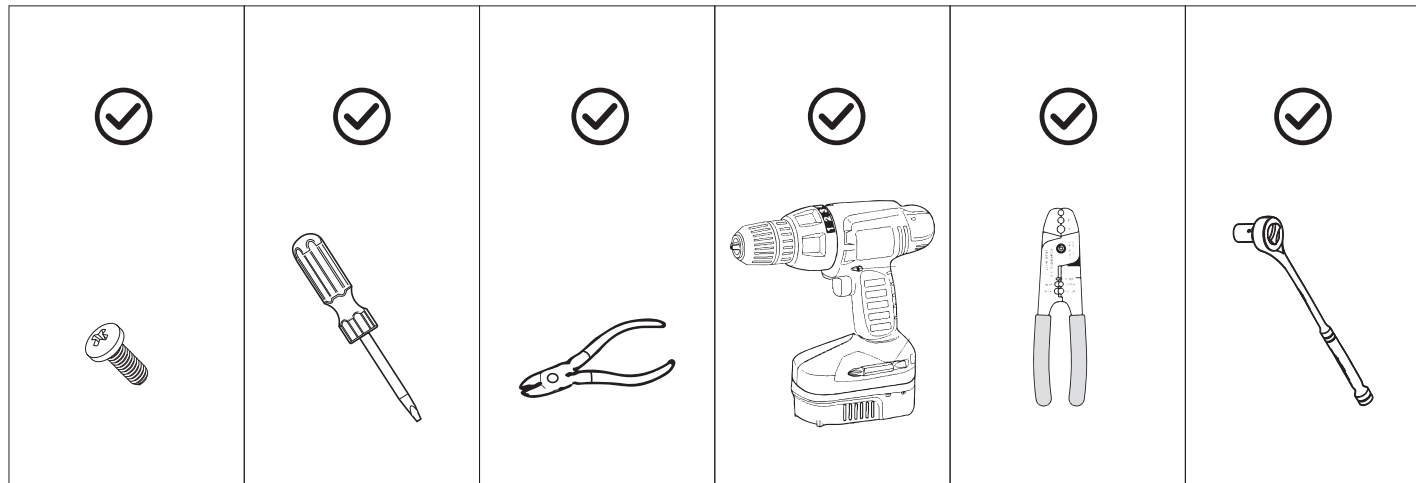




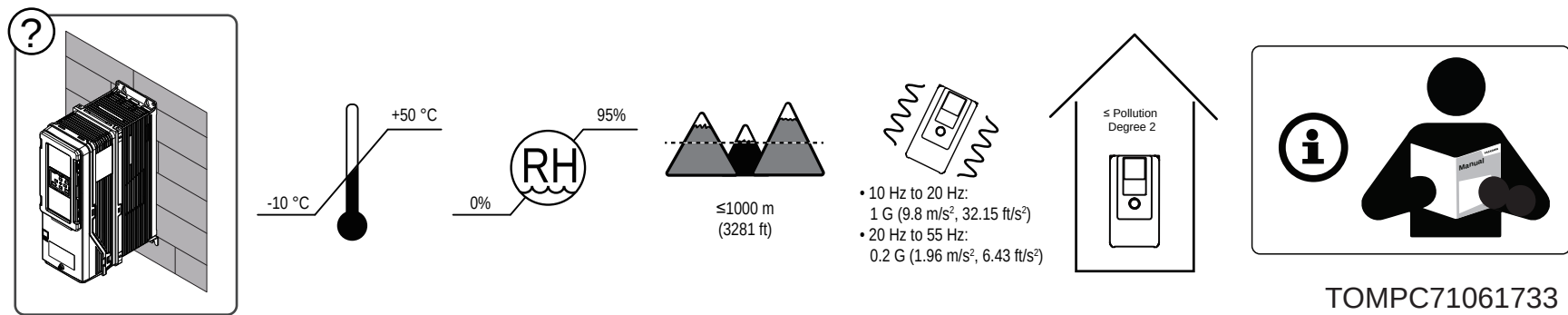
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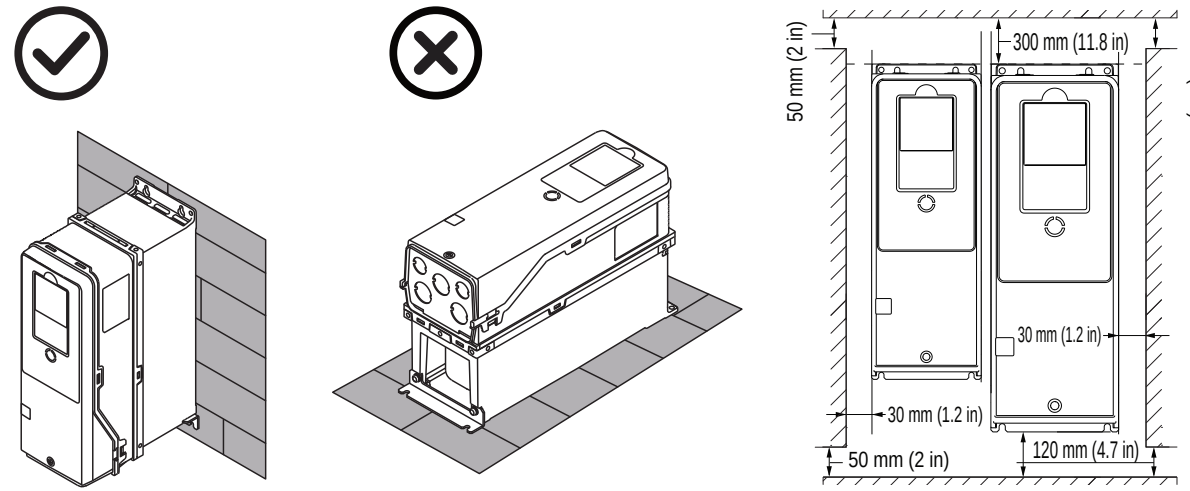
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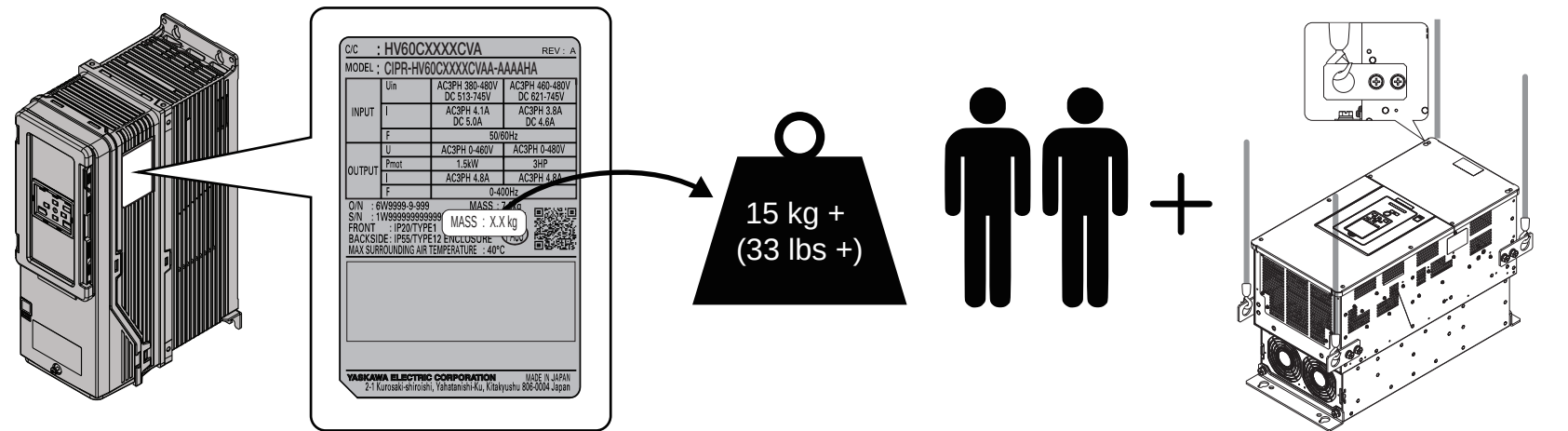
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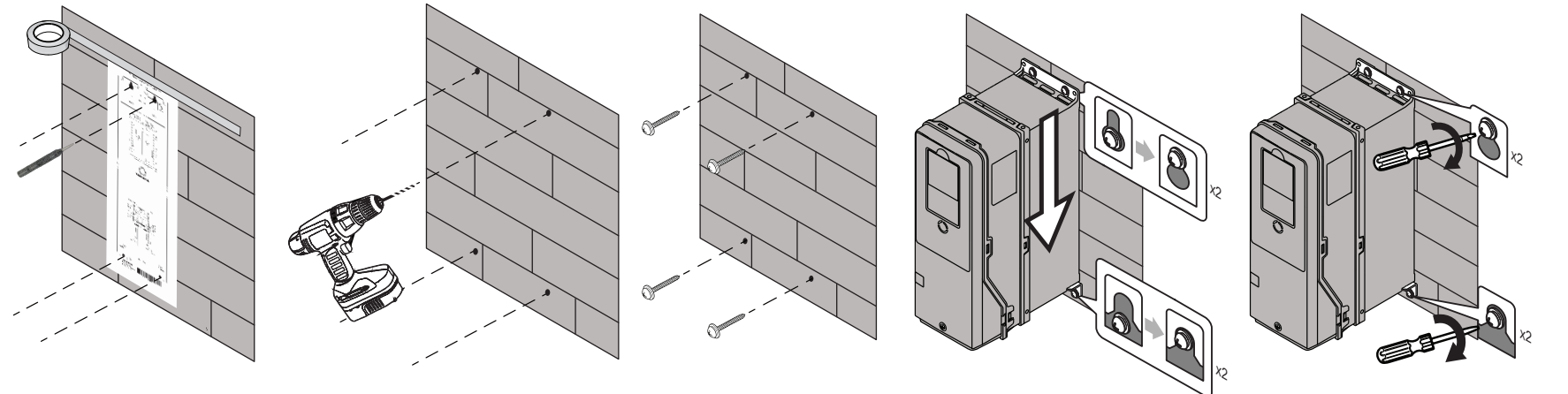
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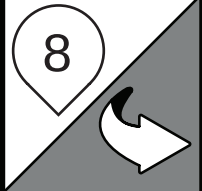
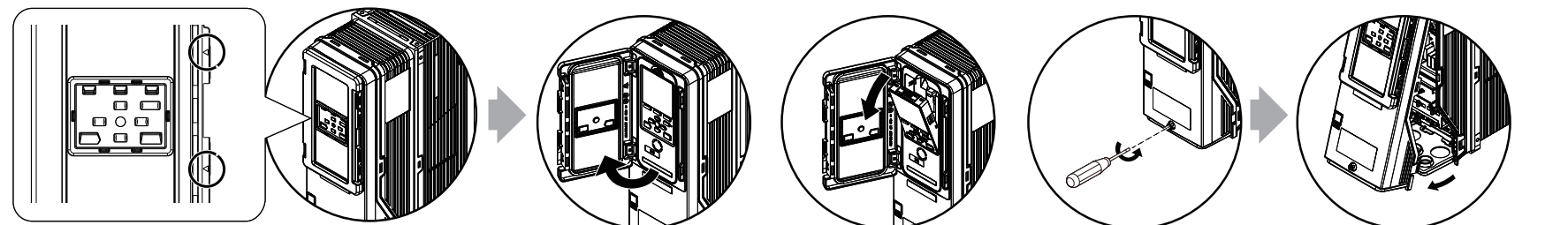
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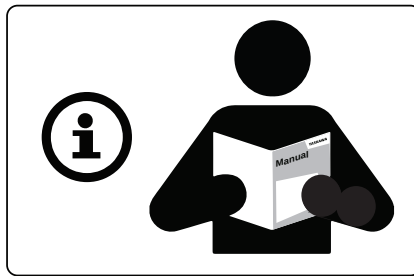
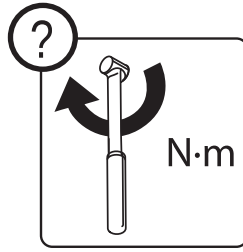
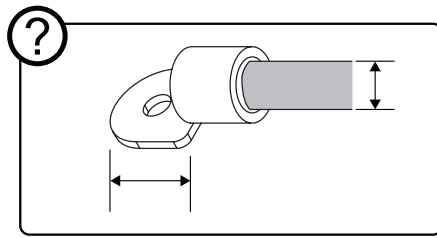
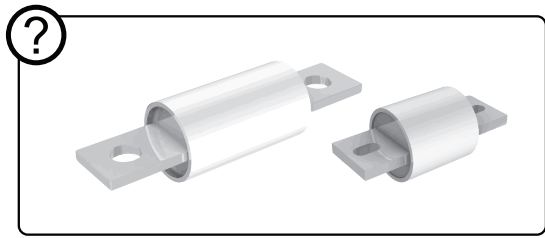
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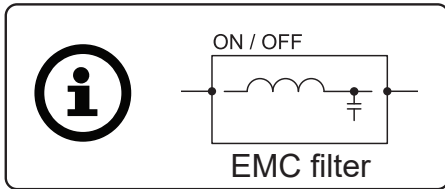


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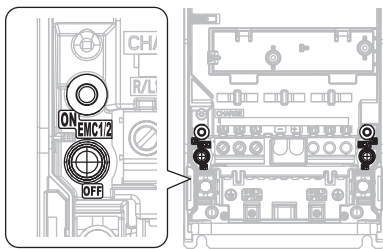


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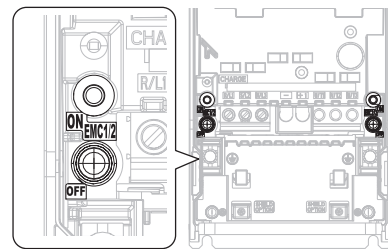
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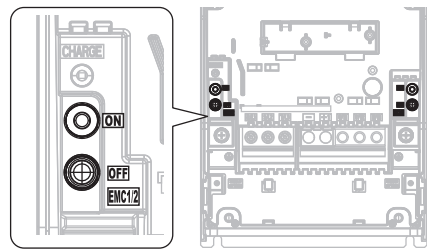
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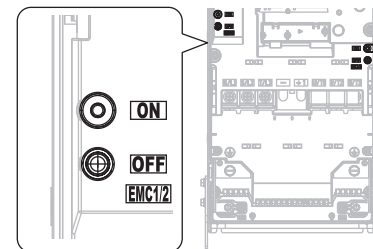
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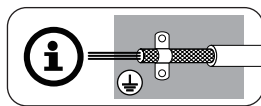
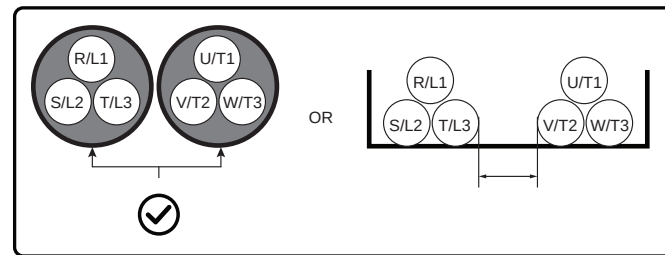
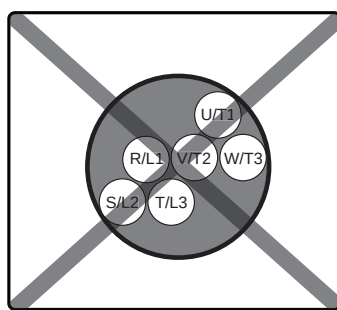
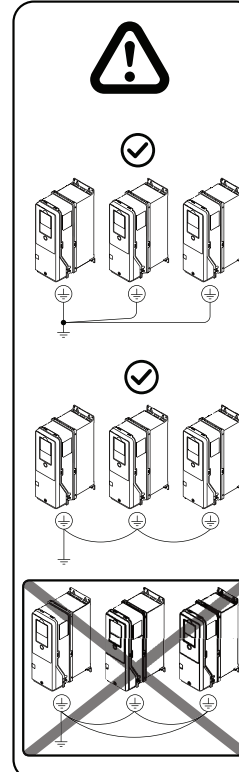
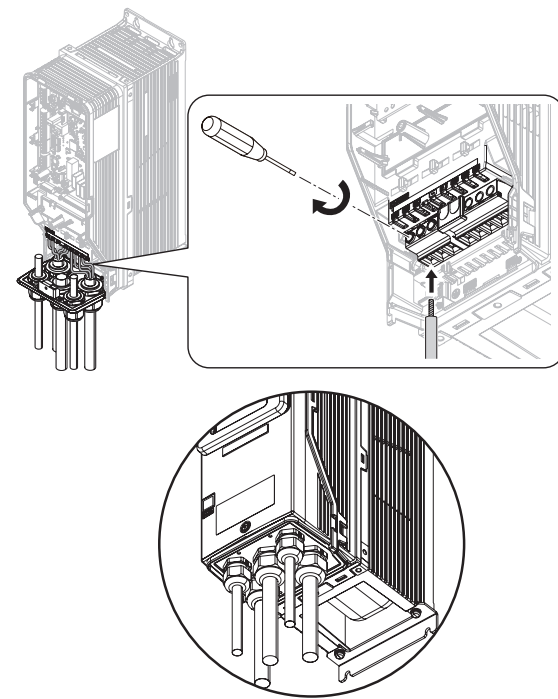
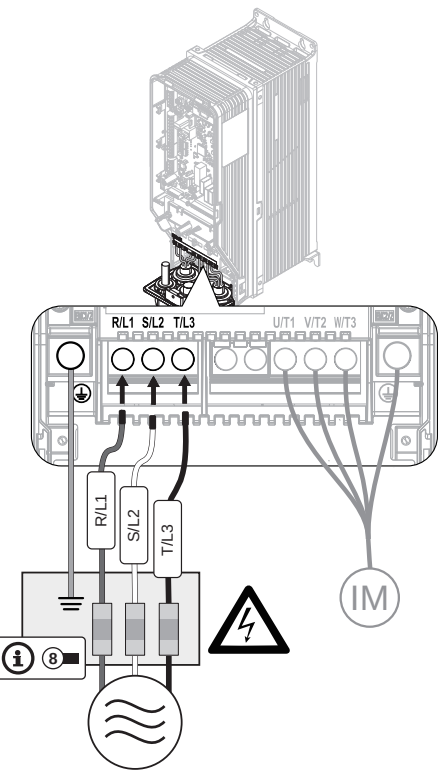
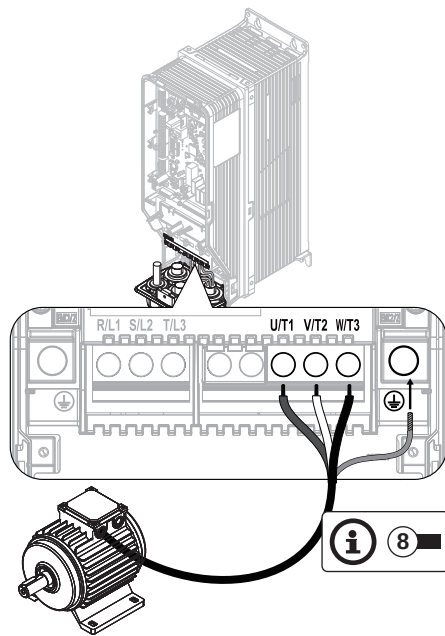
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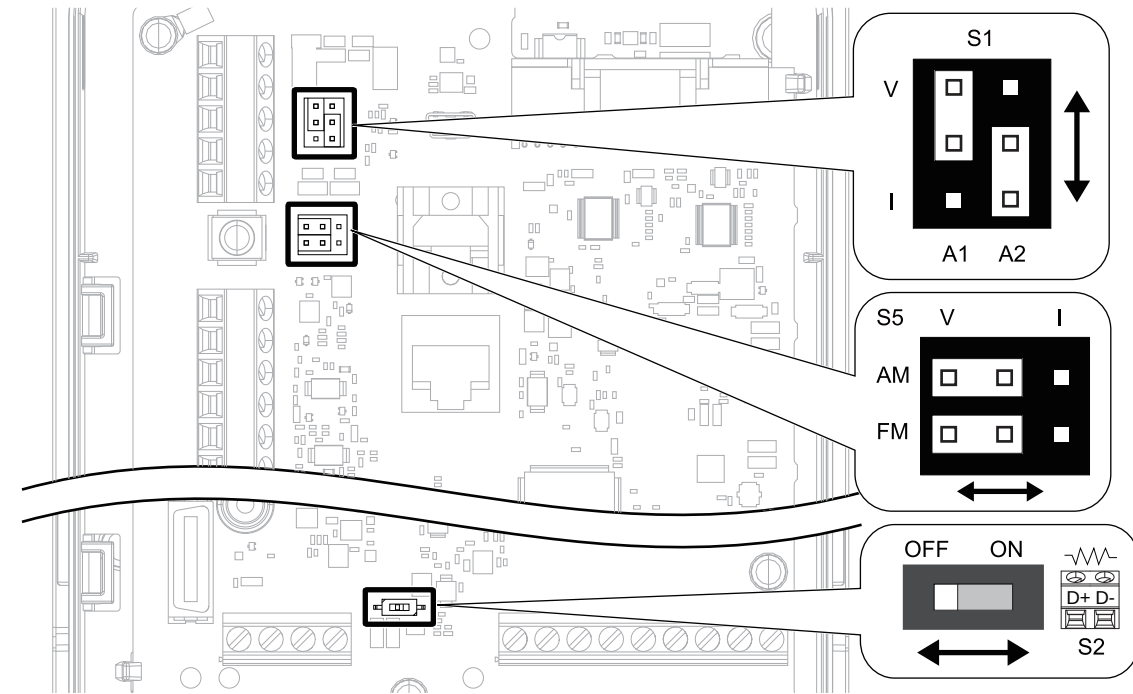
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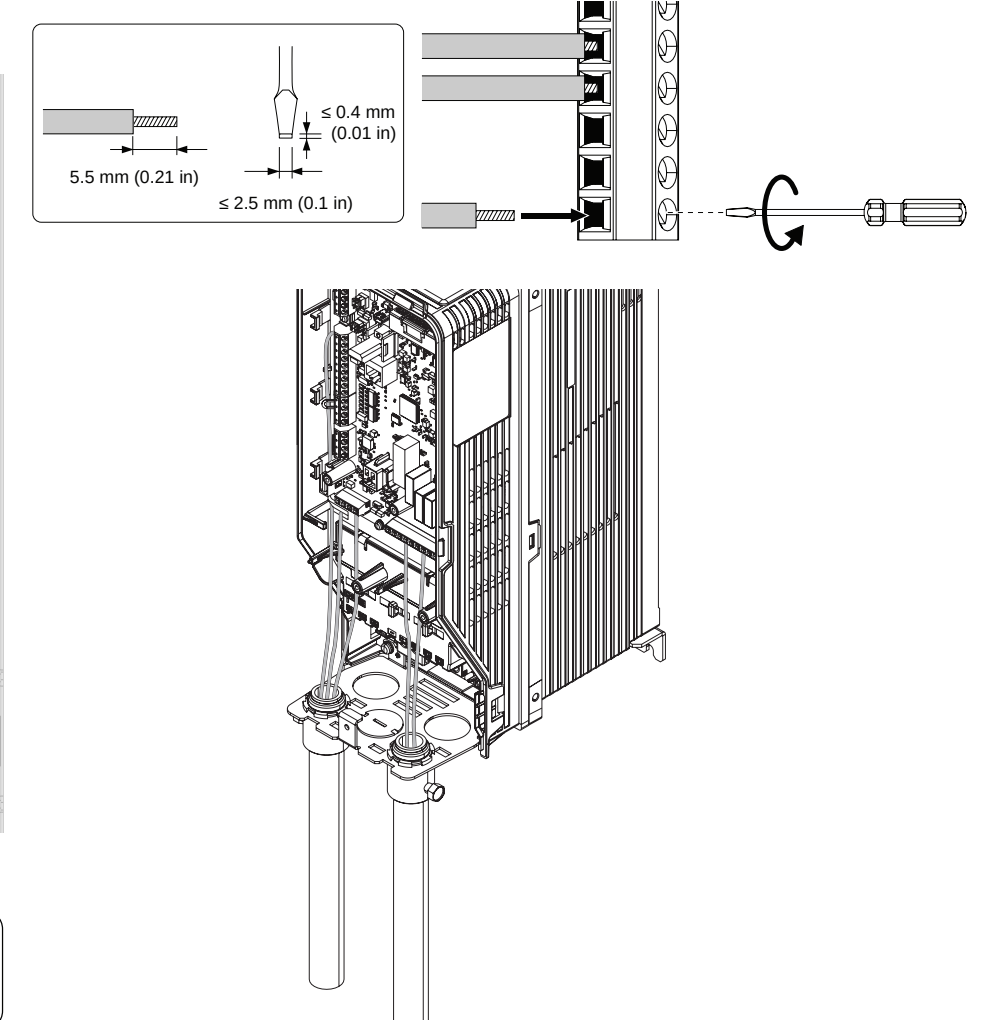
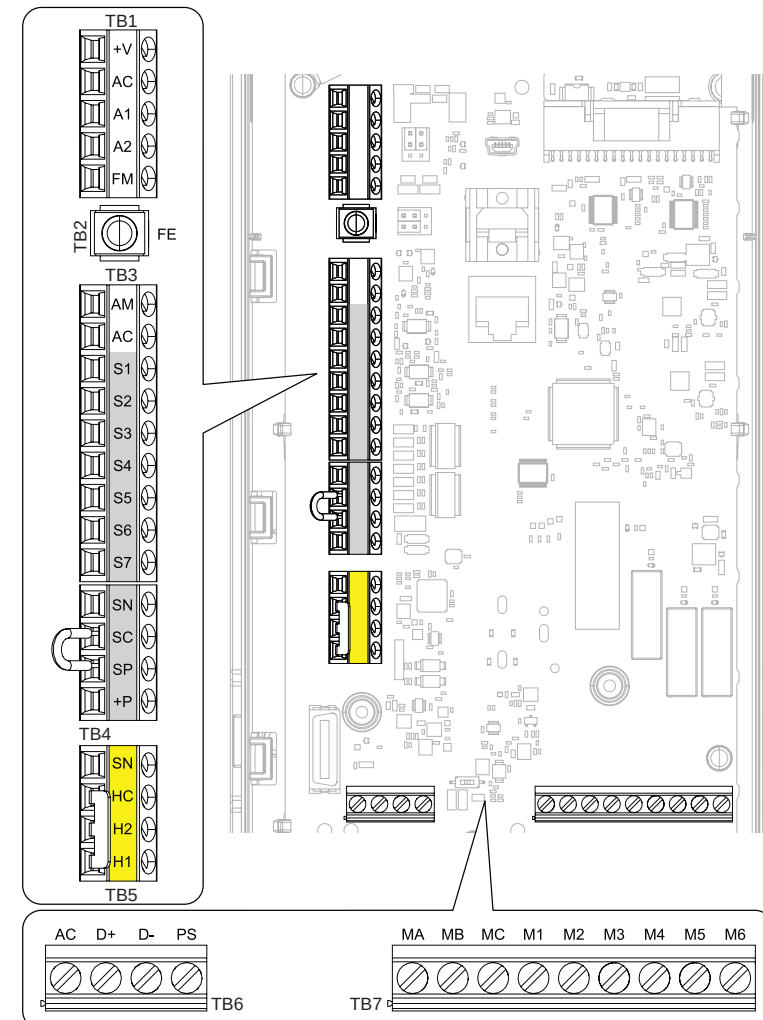
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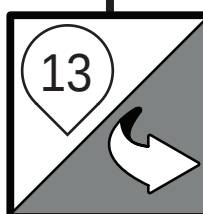
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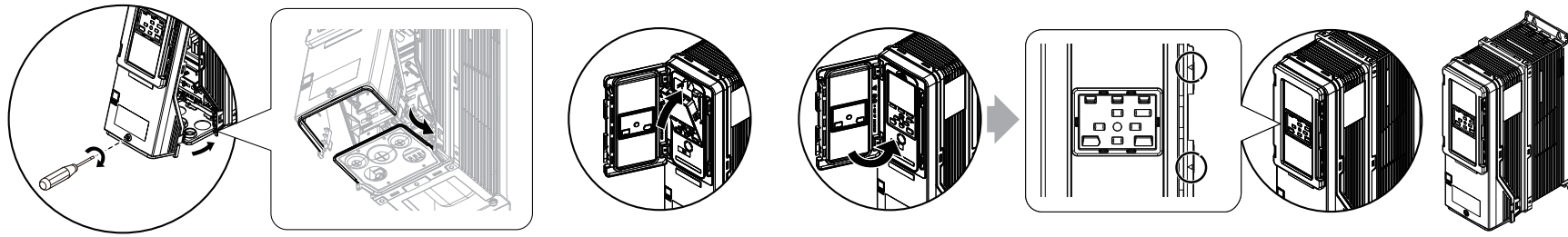
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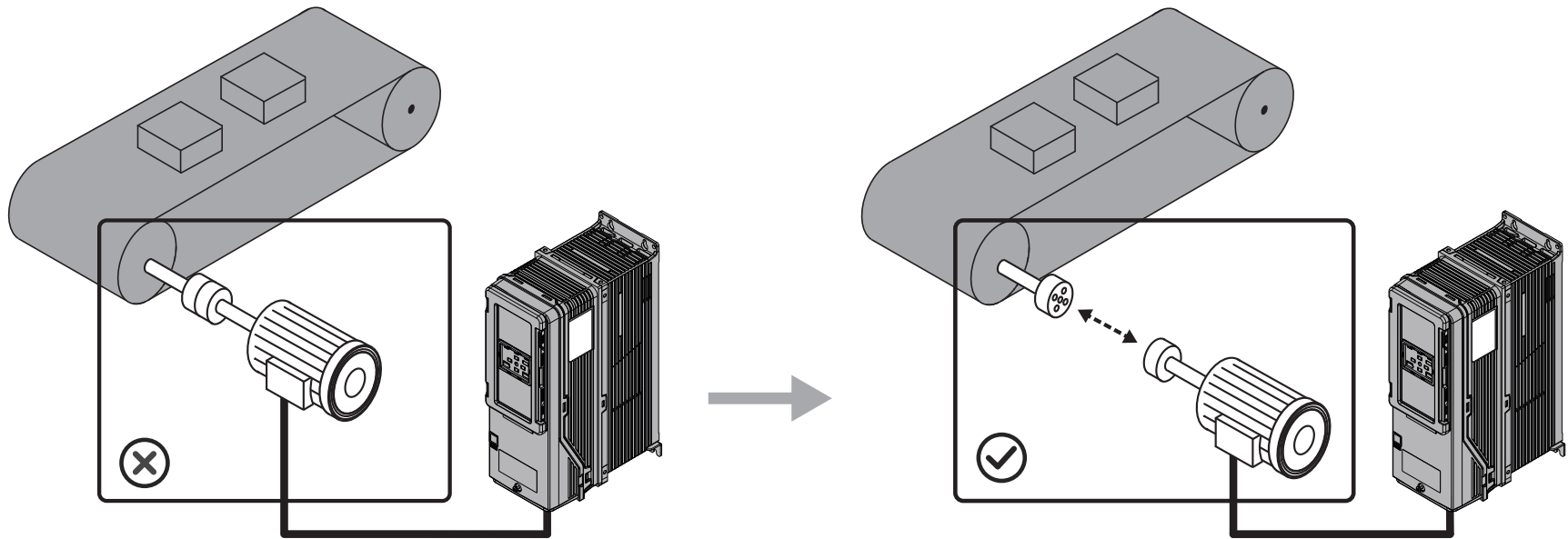
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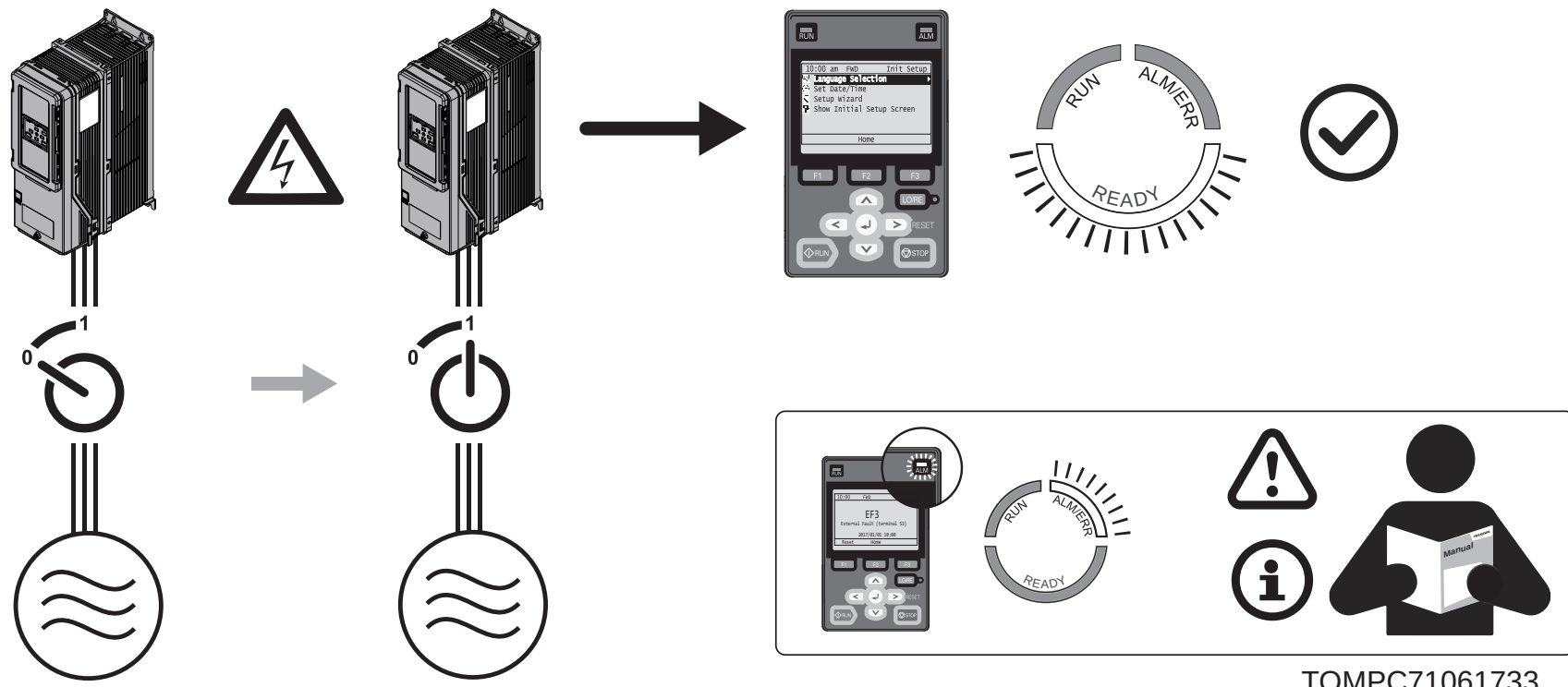
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14



15

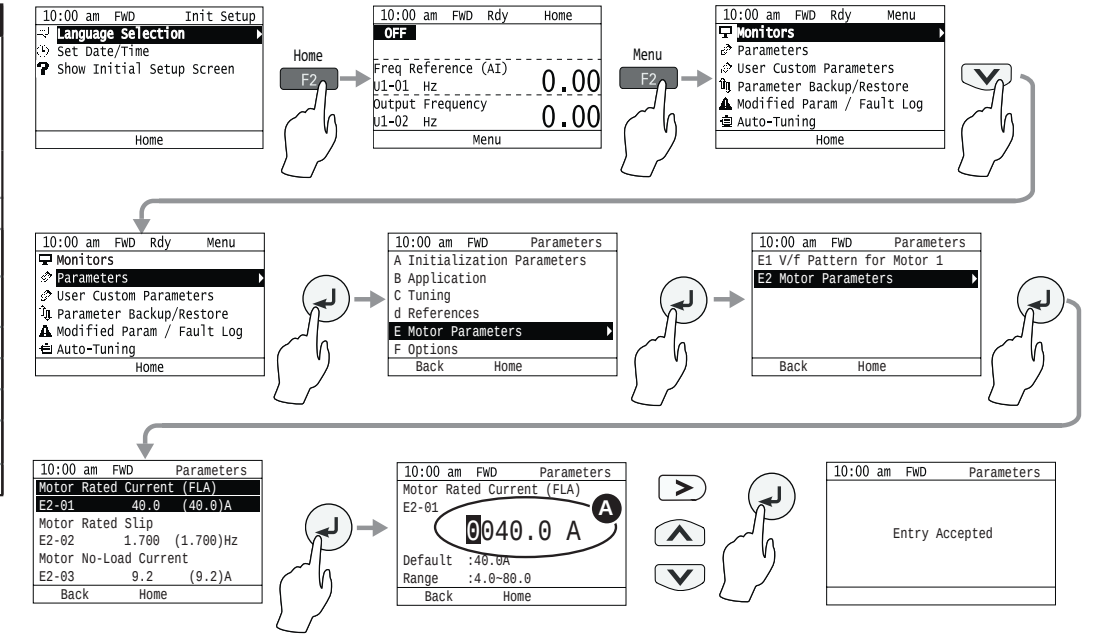


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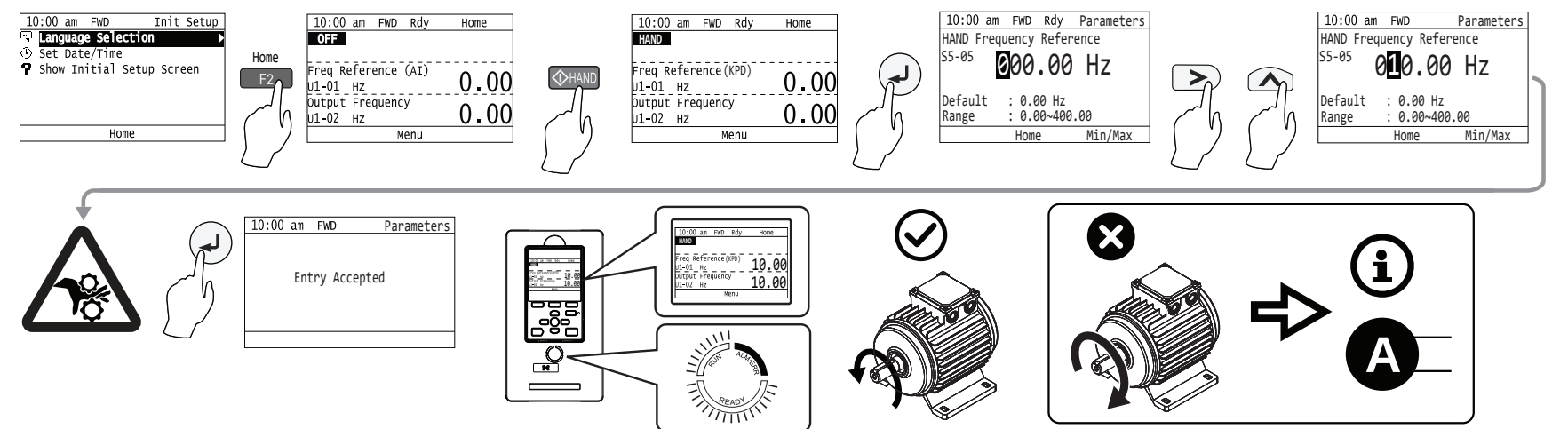
16

3 PHASE INVERTER DUTY AC INDUCTION MOTOR NAMEPLATE EXAMPLE

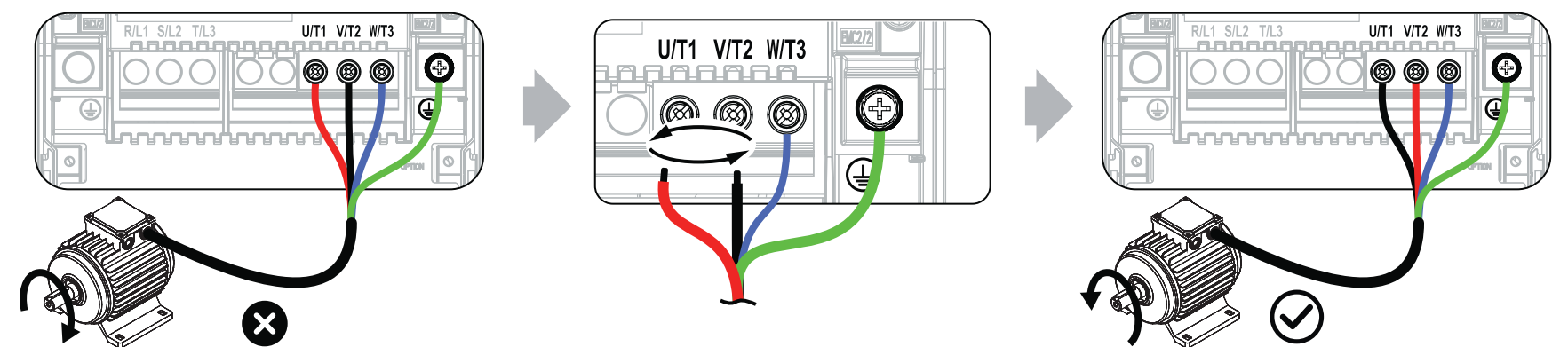
MODEL XX	123AAAA123XX-X0	DES A	X FRAME 123AX
POLES X	ENC XXX CODE X	TYPE ABC	INS X0
VOLTS XXX	FL RPM XXXX	FL AMPS XX/XX	TEMP. SENSORS T-STATS
SF 1.0	DUTY CONT	MAX AMB °C XX	
SERIAL	N.L. AMPS XX.X/XX.X		
MAX RPM 4200	S.E. BRG. 309	O.S.E. BRG. XXX	ROTOR WK. X.X
Hz	kW	RPM	TORQUE (LB FT)
1	-	0	XX.X
60	XX	XXXX	XX.X
120	XX	XXXX	XX.X
OHMS PH.	R1: XXX R2: XXX	X1: X.XX X2: X.XX	XM: XX.X
P/N XXXXXXXX			



17



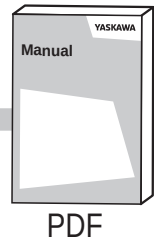
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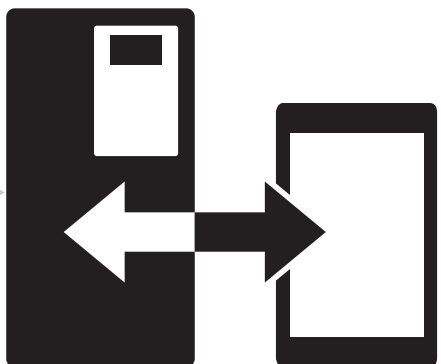
B

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 InductionMotor Auto-Tuning
b: Application	d3 Jump Frequency	H3 Analog Inputs	n7 EZ Drive	T2 PM Motor Auto-Tuning
b1 Operation Mode Selection	d4 Freq. Ref. Up/Down & Hold	H4 Analog Outputs	n8 PM Motor Control Tuning	T4 EZ Tuning
b2 DC Injection Braking and Short Circuit Braking	d6 Field Weakening	H5 Serial Communication	o: Keypad-Related Settings	U: Monitors
b3 Speed Search	d7 Offset Frequency	H7 Virtual Inputs/Outputs	o1 Keypad Display	U1 Operation Status Monitors
b4 Timer Function	E: Motor	L: Protection Functions	o2 Keypad Operation	U2 Fault Trace
b5 PID Control	E1 V/f Pattern for Motor 1	L1 Motor Protection	o3 Copy Keypad Function	U3 Fault History
b8 Energy Saving	E2 Motor 1 Parameters	L2 Power Loss Ride Through	o4 Maintenance Monitors	U4 Maintenance Monitors
C: Tuning	E3 V/f Pattern for Motor 2	L3 Stall Prevention	o5 Log Function	U5 PID Monitors
C1 Accel & Decel Time	E4 Motor 2 Parameters	L4 Speed Detection	q: DriveWorksEZ Parameters	U6 Operation Status Monitors
C2 S-Curve Characteristics	E5 PM Motor Settings	L5 Fault Restart	r: DriveWorksEZ Connections	U8 DriveWorksEZ Monitors
C3 Slip Compensation	E9 Motor Setting	L6 Torque Detection	S: Special Applications	UA Network Multiplexing
C4 Torque Compensation	F: Options	L7 Torque Limit	S1 Dynamic Noise Control	UC BACnet Diagnostic Monitors
C5 Auto Speed Regulator (CSR)	F6 Communication Option	L8 Drive Protection	S2 Sequence Run Timers	Y: Application Features
C6 Carrier Frequency	F7 Ethernet Options	L9 Drive Protection 2	S3 PI2 Control	Y1 Application Basics
			S5 HAND/OFF/AUTO Operation	Y2 PID Sleep and Protection
			S6 Protection	Y4 Application Advanced
				Y9 Network Multiplex Options
				YA Preset Setpoint
				YC Feedback Features
				YF PI Auxiliary Control

C



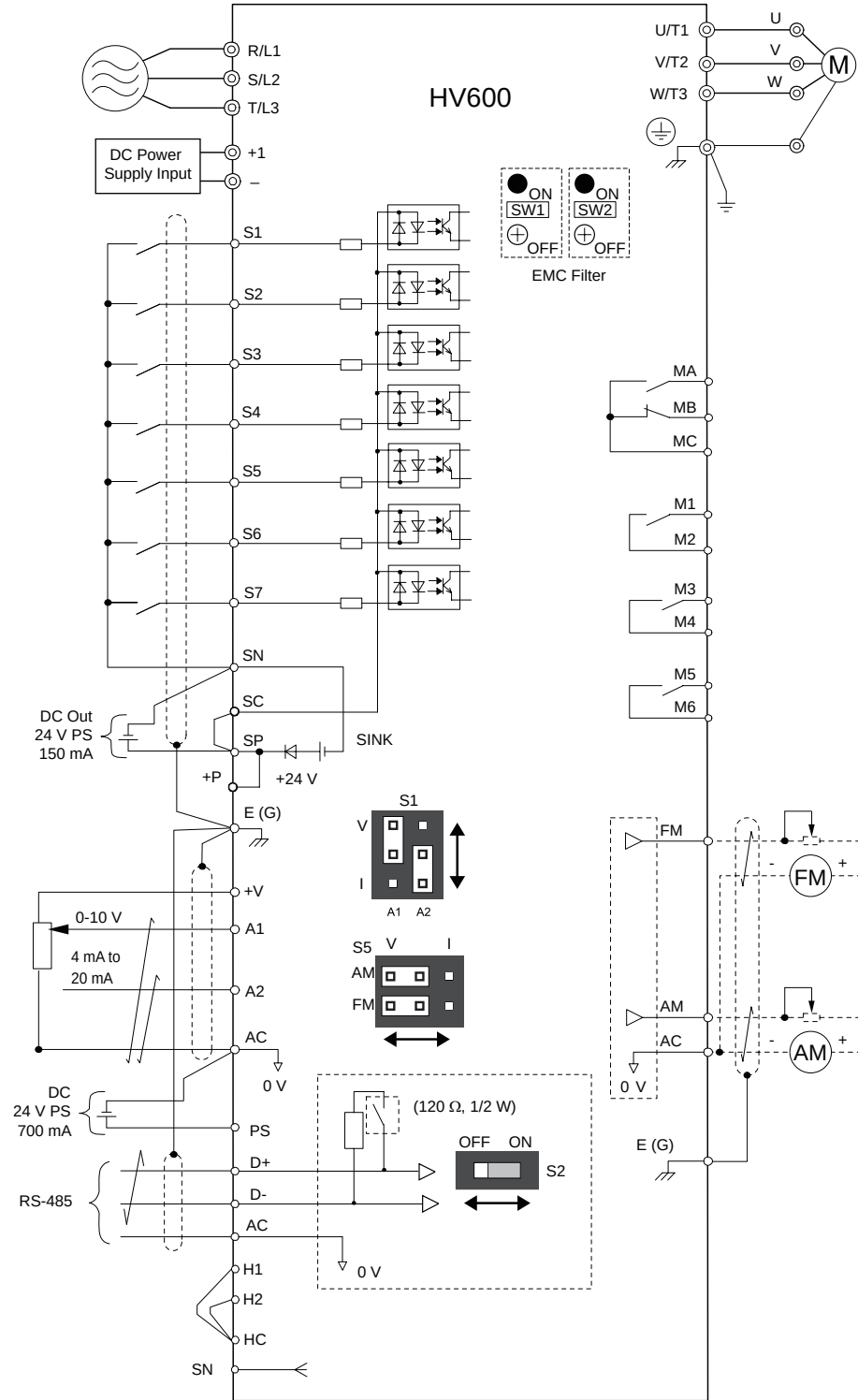
<https://www.yaskawa.eu.com/manuals/hv600>





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D



Terminal	Type	Signal Level	Default
S1	MFDI 1	Photocoupler 24 V, 6 mA Internal impedance: 4.7 kΩ	Forward run/Stop
S2	MFDI 2		User-defined
S3	MFDI 3		External fault
S4	MFDI 4		Fault reset
S5	MFDI 5		Multi-step speed 1
S6	MFDI 6		Multi-step speed 2
S7	MFDI 7		Jog command
SN	MFDI power 0 V	24 V, 150 mA maximum	-
SC	MFDI common		-
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)	Master frequency reference
A2	MFAI 2		Combined w/A1
AC	Common	0 V	-
E(G)	Connect shielded cable	-	-
MA	Fault relay out	30 VDC, 10 mA ~ 2 A 250 VAC, 10 mA ~ 2 A Minimum load: 5 V, 10 mA	Fault
MB			Fault
MC	Common		-
M1	MFDO	30 VDC, 10 mA ~ 2 A 250 VAC, 10 mA ~ 2 A Minimum load: 5 V, 10 mA	During run
M2			
M3	MFDO		Zero speed
M4			
M5	MFDO		Speed agree 1
M6			
FM	MFAO 1	0 V ~ +10 V/0% ~ 100% 4 mA ~ 20 mA	Output frequency
AM	MFAO 2		Output current
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	0V	-
D+	Communication +	APOGEE FLN, BACnet, MEMOBUS/Modbus, Metasys N2	-
D-	Communication -	RS-485 115.2 kbps maximum	-
AC	Common	0 V	-

E

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